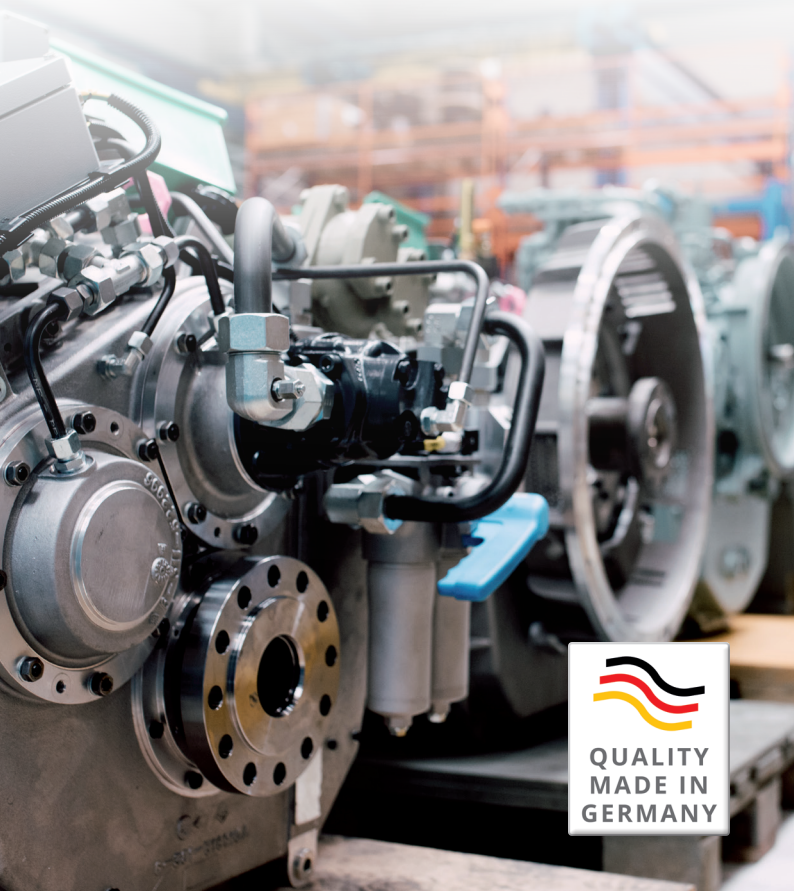


# PRODUCT GUIDE

## 2020 | MARINE





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|                                   |                  |
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This document and the technical data contained herein are subject to technical modifications and are non-binding. The data serve informational purposes and cannot be guaranteed in any way. In addition, our gearboxes will be assessed and determined individually for each project. This is necessary due to differing characteristics of each project like specific site and operational conditions. If this document is delivered in another language than English and in case of divergences of interpretation between the different language texts, the English text shall prevail.

Gearbox standard design dry. Following lists only show an extract of gearboxes available. Additional sizes, offset configurations and variations are available on request.

Dimensions and dry weights are approximate and may vary with housing or by input and ratio. Specifications are subject to change without notice. Please contact your REINTJES distributor for current information and binding data.



# Gearbox Characteristics

## WAF

|                    |                                                                                  |
|--------------------|----------------------------------------------------------------------------------|
| Gearbox type:      | Reverse reduction gearbox                                                        |
| Main application:  | Workboats                                                                        |
| Driven component:  | Fixed Pitch Propeller                                                            |
| Shaft rotation:    | Co- or Counter-rotating shafts                                                   |
| Reduction ratios:  | Standard and custom (on request)                                                 |
| Shaft arrangement: | Parallel input and output shafts on opposite sides, vertically offset (standard) |
| Clutch(es):        | Hydraulically operated clutch(es)                                                |
| Bearing type:      | Roller bearings (standard) or Slide bearings (large sizes, on request)           |
| Gearbox housing:   | Steel / Cast iron design                                                         |
| Mounting:          | Free-standing / close-coupled with SAE housings (small sizes)                    |
| Propulsion system: | Diesel-mechanic, hybrid ready (optional)                                         |

## WGF

|                    |                                                                                  |
|--------------------|----------------------------------------------------------------------------------|
| Gearbox type:      | Reverse reduction gearbox with attached gear step                                |
| Main application:  | Workboats                                                                        |
| Driven component:  | Fixed Pitch Propeller                                                            |
| Shaft rotation:    | Co- or Counter-rotating shafts                                                   |
| Reduction ratios:  | Standard and custom (on request)                                                 |
| Shaft arrangement: | Parallel input and output shafts on opposite sides, vertically offset (standard) |
| Clutch(es):        | Hydraulically operated clutch(es)                                                |
| Bearing type:      | Roller bearings                                                                  |
| Gearbox housing:   | Steel / Cast iron design                                                         |
| Mounting:          | Free-standing                                                                    |
| Propulsion system: | Diesel-mechanic, hybrid ready (optional)                                         |

Horizontal offset on request.

## WGV

|                    |                                          |
|--------------------|------------------------------------------|
| Gearbox type:      | Reverse reduction gearbox                |
| Main application:  | Workboats                                |
| Driven component:  | Fixed Pitch Propeller                    |
| Shaft rotation:    | Co- or Counter-rotating shafts           |
| Reduction ratios:  | Standard and custom (on request)         |
| Shaft arrangement: | Co-axial, intermediate shafts offset     |
| Clutch(es):        | Hydraulically operated clutch(es)        |
| Bearing type:      | Roller bearings                          |
| Gearbox housing:   | Steel / Cast iron design                 |
| Mounting:          | Free-standing                            |
| Propulsion system: | Diesel-mechanic, hybrid ready (optional) |

## WVS

|                    |                                                                                                 |
|--------------------|-------------------------------------------------------------------------------------------------|
| Gearbox type:      | Reverse reduction gearbox                                                                       |
| Main application:  | Fast vessels                                                                                    |
| Driven component:  | Fixed Pitch Propeller                                                                           |
| Shaft rotation:    | Co- or Counter-rotating shafts                                                                  |
| Reduction ratios:  | Standard and custom (on request)                                                                |
| Shaft arrangement: | Parallel input and output shafts,<br>U-drive or opposite sides,<br>vertically offset (standard) |
| Clutch(es):        | Hydraulically operated clutch(es)                                                               |
| Bearing type:      | Roller bearings                                                                                 |
| Gearbox housing:   | Aluminium alloy, weight optimized<br>design                                                     |
| Mounting:          | Free-standing / close-coupled / U-drive<br>SAE housings (small sizes)                           |
| Propulsion system: | Diesel-mechanic, hybrid ready (optional)                                                        |



# Gearbox Characteristics

## WVSA

|                    |                                                         |
|--------------------|---------------------------------------------------------|
| Gearbox type:      | Reverse reduction gearbox                               |
| Main application:  | Fast vessels                                            |
| Driven component:  | Fixed Pitch Propeller                                   |
| Shaft rotation:    | Co- or Counter-rotating shafts                          |
| Reduction ratios:  | Custom (on request)                                     |
| Shaft arrangement: | Down angle, shafts on opposite sides, vertically offset |
| Clutch(es):        | Hydraulically operated clutch(es)                       |
| Bearing type:      | Roller bearings                                         |
| Gearbox housing:   | Aluminium alloy, weight optimized design                |
| Mounting:          | Free-standing                                           |
| Propulsion system: | Diesel-mechanic, hybrid ready (optional)                |

## ZWAF

|                    |                                                                                  |
|--------------------|----------------------------------------------------------------------------------|
| Gearbox type:      | Two-speed reverse reduction gearbox                                              |
| Main application:  | Workboats                                                                        |
| Driven component:  | Fixed Pitch Propeller                                                            |
| Shaft rotation:    | Ahead: co-rotating shafts<br>Astern: counter-rotating shafts                     |
| Reduction ratios:  | Custom (on request)                                                              |
| Shaft arrangement: | Parallel input and output shafts on opposite sides, vertically offset (standard) |
| Clutch(es):        | Hydraulically operated clutch(es)                                                |
| Bearing type:      | Roller bearings                                                                  |
| Gearbox housing:   | Steel / Cast iron design                                                         |
| Mounting:          | Free-standing                                                                    |
| Propulsion system: | Diesel-mechanic, hybrid ready (optional)                                         |

Horizontal offset on request.

## ZWVS

|                    |                                                                                  |
|--------------------|----------------------------------------------------------------------------------|
| Gearbox type:      | Two-speed reverse reduction gearbox                                              |
| Main application:  | Fast vessels                                                                     |
| Driven component:  | Fixed Pitch Propeller                                                            |
| Shaft rotation:    | Ahead: co-rotating shafts<br>Astern: counter-rotating shafts                     |
| Reduction ratios:  | Custom (on request)                                                              |
| Shaft arrangement: | Parallel input and output shafts on opposite sides, vertically offset (standard) |
| Clutch(es):        | Hydraulically operated clutch(es)                                                |
| Bearing type:      | Roller bearings                                                                  |
| Gearbox housing:   | Aluminium alloy, weight optimized design                                         |
| Mounting:          | Free-standing                                                                    |
| Propulsion system: | Diesel-mechanic, hybrid ready (optional)                                         |

## ZWVSA

|                    |                                                              |
|--------------------|--------------------------------------------------------------|
| Gearbox type:      | Two-speed reverse reduction gearbox                          |
| Main application:  | Fast vessels                                                 |
| Driven component:  | Fixed Pitch Propeller                                        |
| Shaft rotation:    | Ahead: counter-rotating shafts<br>Astern: co-rotating shafts |
| Reduction ratios:  | Custom (on request)                                          |
| Shaft arrangement: | Down angle, U-drive, vertically offset                       |
| Clutch(es):        | Hydraulically operated clutch(es)                            |
| Bearing type:      | Roller bearings                                              |
| Gearbox housing:   | Aluminium alloy, weight optimized design                     |
| Mounting:          | Free-standing                                                |
| Propulsion system: | Diesel-mechanic, hybrid ready (optional)                     |



# Gearbox Characteristics

## ZSVAL

|                    |                                                                                  |
|--------------------|----------------------------------------------------------------------------------|
| Gearbox type:      | Two-speed reduction gearbox                                                      |
| Main application:  | Workboats                                                                        |
| Driven component:  | Controllable Pitch Propeller                                                     |
| Shaft rotation:    | Counter-rotating input and output shafts                                         |
| Reduction ratios:  | Custom (on request)                                                              |
| Shaft arrangement: | Parallel input and output shafts on opposite sides, vertically offset (standard) |
| Clutch(es):        | Hydraulically operated clutch(es)                                                |
| Bearing type:      | Slide bearings                                                                   |
| Gearbox housing:   | Steel / Cast iron design                                                         |
| Mounting:          | Free-standing                                                                    |
| Propulsion system: | Diesel-mechanic, hybrid ready (optional)                                         |

## AF

|                    |                                                                                  |
|--------------------|----------------------------------------------------------------------------------|
| Gearbox type:      | Reduction gearbox                                                                |
| Main application:  | Workboats, ideal for electric drive                                              |
| Driven component:  | Controllable or Fixed Pitch Propeller                                            |
| Shaft rotation:    | Counter-rotating input and output shafts                                         |
| Reduction ratios:  | Standard and custom (on request)                                                 |
| Shaft arrangement: | Parallel input and output shafts on opposite sides, vertically offset (standard) |
| Clutch(es):        | None                                                                             |
| Bearing type:      | Roller bearings                                                                  |
| Gearbox housing:   | Steel / Cast iron design                                                         |
| Mounting:          | Free-standing                                                                    |
| Propulsion system: | Diesel-mechanic, hybrid ready (optional)                                         |

Horizontal offset on request.



## LAF

|                    |                                                                                  |
|--------------------|----------------------------------------------------------------------------------|
| Gearbox type:      | Reduction gearbox                                                                |
| Main application:  | Workboats                                                                        |
| Driven component:  | Controllable Pitch Propeller                                                     |
| Shaft rotation:    | Co- or Counter-rotating shafts                                                   |
| Reduction ratios:  | Standard and custom (on request)                                                 |
| Shaft arrangement: | Parallel input and output shafts on opposite sides, vertically offset (standard) |
| Clutch(es):        | Hydraulically operated clutch(es)                                                |
| Bearing type:      | Roller bearings                                                                  |
| Gearbox housing:   | Steel / Cast iron design                                                         |
| Mounting:          | Free-standing / close-coupled with SAE housings (small sizes)                    |
| Propulsion system: | Diesel-mechanic, hybrid ready (optional)                                         |

## LGF

|                    |                                                                                  |
|--------------------|----------------------------------------------------------------------------------|
| Gearbox type:      | Reduction gearbox with attached gear step                                        |
| Main application:  | Workboats                                                                        |
| Driven component:  | Controllable Pitch Propeller                                                     |
| Shaft rotation:    | Co- or Counter-rotating shafts                                                   |
| Reduction ratios:  | Standard and custom (on request)                                                 |
| Shaft arrangement: | Parallel input and output shafts on opposite sides, vertically offset (standard) |
| Clutch(es):        | Hydraulically operated clutch(es)                                                |
| Bearing type:      | Roller bearings                                                                  |
| Gearbox housing:   | Steel / Cast iron design                                                         |
| Mounting:          | Free-standing                                                                    |
| Propulsion system: | Diesel-mechanic, hybrid ready (optional)                                         |



# Gearbox Characteristics

## WLS

|                    |                                                                                                 |
|--------------------|-------------------------------------------------------------------------------------------------|
| Gearbox type:      | Reduction gearbox                                                                               |
| Main application:  | Fast vessels                                                                                    |
| Driven component:  | Controllable Pitch Propeller                                                                    |
| Shaft rotation:    | Co- or Counter-rotating shafts                                                                  |
| Reduction ratios:  | Standard and custom (on request)                                                                |
| Shaft arrangement: | Parallel input and output shafts,<br>U-drive or opposite sides,<br>vertically offset (standard) |
| Clutch(es):        | Hydraulically operated clutch(es)                                                               |
| Bearing type:      | Roller bearings                                                                                 |
| Gearbox housing:   | Aluminium alloy, weight optimized<br>design                                                     |
| Mounting:          | Free-standing / close-coupled / U-drive<br>SAE housings (small sizes)                           |
| Propulsion system: | Diesel-mechanic, hybrid ready (optional)                                                        |

## VLJ

|                    |                                                                                        |
|--------------------|----------------------------------------------------------------------------------------|
| Gearbox type:      | Reduction gearbox                                                                      |
| Main application:  | Waterjets                                                                              |
| Driven component:  | Jet Propulsion                                                                         |
| Shaft rotation:    | Counter-rotating input and output shafts                                               |
| Reduction ratios:  | Standard and custom (on request)                                                       |
| Shaft arrangement: | Parallel input and output shafts on<br>opposite sides,<br>vertically offset (standard) |
| Clutch(es):        | Hydraulically operated clutch(es)                                                      |
| Bearing type:      | Roller bearings (standard) or<br>Slide bearings (large sizes, on request)              |
| Gearbox housing:   | Aluminium alloy                                                                        |
| Mounting:          | Free-standing                                                                          |
| Propulsion system: | Diesel-mechanic, hybrid ready (optional)                                               |

Horizontal offset on request.

## VA

|                    |                                                                                  |
|--------------------|----------------------------------------------------------------------------------|
| Gearbox type:      | Reduction gearbox                                                                |
| Main application:  | Workboats                                                                        |
| Driven component:  | Controllable Pitch Propeller                                                     |
| Shaft rotation:    | Counter-rotating input and output shafts                                         |
| Reduction ratios:  | Custom (on request)                                                              |
| Shaft arrangement: | Parallel input and output shafts on opposite sides, vertically offset (standard) |
| Clutch(es):        | None                                                                             |
| Bearing type:      | Roller bearings                                                                  |
| Gearbox housing:   | Steel / Cast iron design                                                         |
| Mounting:          | Free-standing                                                                    |
| Propulsion system: | Diesel-mechanic, hybrid ready (optional)                                         |

## SVA

|                    |                                                                                  |
|--------------------|----------------------------------------------------------------------------------|
| Gearbox type:      | Reduction gearbox                                                                |
| Main application:  | Workboats                                                                        |
| Driven component:  | Controllable Pitch Propeller                                                     |
| Shaft rotation:    | Counter-rotating input and output shafts                                         |
| Reduction ratios:  | Custom (on request)                                                              |
| Shaft arrangement: | Parallel input and output shafts on opposite sides, vertically offset (standard) |
| Clutch(es):        | None                                                                             |
| Bearing type:      | Slide bearings                                                                   |
| Gearbox housing:   | Steel / Cast iron design                                                         |
| Mounting:          | Free-standing                                                                    |
| Propulsion system: | Diesel-mechanic, hybrid ready (optional)                                         |



# Gearbox Characteristics

## SVAL

|                    |                                                                                        |
|--------------------|----------------------------------------------------------------------------------------|
| Gearbox type:      | Reduction gearbox                                                                      |
| Main application:  | Workboats                                                                              |
| Driven component:  | Controllable Pitch Propeller                                                           |
| Shaft rotation:    | Counter-rotating input and output shafts                                               |
| Reduction ratios:  | Custom (on request),<br>two-speed versions available                                   |
| Shaft arrangement: | Parallel input and output shafts on<br>opposite sides,<br>vertically offset (standard) |
| Clutch(es):        | Hydraulically operated clutch(es)                                                      |
| Bearing type:      | Slide bearings                                                                         |
| Gearbox housing:   | Steel / Cast iron design                                                               |
| Mounting:          | Free-standing                                                                          |
| Propulsion system: | Diesel-mechanic, hybrid ready (optional)                                               |

## DLG

|                    |                                                                        |
|--------------------|------------------------------------------------------------------------|
| Gearbox type:      | Twin input / single output reduction<br>gearbox                        |
| Main application:  | Workboats, Ferries                                                     |
| Driven component:  | Controllable Pitch Propeller                                           |
| Shaft rotation:    | Counter-rotating input and output shafts                               |
| Reduction ratios:  | Custom (on request)                                                    |
| Shaft arrangement: | 2 parallel input and 1 output shaft,<br>horizontally offset (standard) |
| Clutch(es):        | Hydraulically operated clutch(es)                                      |
| Bearing type:      | Rolling or slide bearings (size dependent)                             |
| Gearbox housing:   | Steel / Cast iron design                                               |
| Mounting:          | Free-standing                                                          |
| Propulsion system: | Diesel-mechanic, hybrid ready (optional)                               |

Horizontal offset on request.

## DLGF

|                    |                                                                     |
|--------------------|---------------------------------------------------------------------|
| Gearbox type:      | Twin input shafts with attached gear step                           |
| Main application:  | Workboats                                                           |
| Driven component:  | Controllable Pitch Propeller                                        |
| Shaft rotation:    | Counter-rotating input and output shafts                            |
| Reduction ratios:  | Custom (on request)                                                 |
| Shaft arrangement: | 2 parallel input and 1 output shaft, horizontally offset (standard) |
| Clutch(es):        | Hydraulically operated clutch(es)                                   |
| Bearing type:      | Rolling or slide bearings (size dependent)                          |
| Gearbox housing:   | Steel / Cast iron design                                            |
| Mounting:          | Free-standing                                                       |
| Propulsion system: | Diesel-mechanic, hybrid ready (optional)                            |

## DUG

|                    |                                                                     |
|--------------------|---------------------------------------------------------------------|
| Gearbox type:      | Twin input / single output reduction gearbox                        |
| Main application:  | Workboats, Ferries with electric drive                              |
| Driven component:  | Controllable or Fixed Pitch Propeller                               |
| Shaft rotation:    | Counter-rotating input and output shafts                            |
| Reduction ratios:  | Custom (on request)                                                 |
| Shaft arrangement: | 2 parallel input and 1 output shaft, horizontally offset (standard) |
| Clutch(es):        | None                                                                |
| Bearing type:      | Rolling or slide bearings (size dependent)                          |
| Gearbox housing:   | Steel / Cast iron design                                            |
| Mounting:          | Free-standing                                                       |
| Propulsion system: | Electric propulsion                                                 |



# Gearbox Characteristics

## DVLJ

|                    |                                                                     |
|--------------------|---------------------------------------------------------------------|
| Gearbox type:      | Twin input / single output reduction gearbox                        |
| Main application:  | Waterjets                                                           |
| Driven component:  | Jet Propulsion                                                      |
| Shaft rotation:    | Counter-rotating input and output shafts                            |
| Reduction ratios:  | Custom (on request)                                                 |
| Shaft arrangement: | 2 parallel input and 1 output shaft, horizontally offset (standard) |
| Clutch(es):        | Hydraulically operated clutch(es)                                   |
| Bearing type:      | Roller bearings                                                     |
| Gearbox housing:   | Aluminium alloy                                                     |
| Mounting:          | Free-standing                                                       |
| Propulsion system: | Diesel-mechanic, hybrid ready (optional)                            |

## RDG

|                    |                                                                                  |
|--------------------|----------------------------------------------------------------------------------|
| Gearbox type:      | Reduction gearbox                                                                |
| Main application:  | Dredgers                                                                         |
| Driven component:  | Dredger pump                                                                     |
| Shaft rotation:    | Counter-rotating input and output shafts                                         |
| Reduction ratios:  | Custom (on request)                                                              |
| Shaft arrangement: | Parallel input and output shafts on opposite sides, vertically offset (standard) |
| Clutch(es):        | None                                                                             |
| Bearing type:      | Roller bearings                                                                  |
| Gearbox housing:   | Steel / Cast iron design                                                         |
| Mounting:          | Free-standing                                                                    |
| Propulsion system: | Electric propulsion                                                              |

Horizontal offset on request.

## RDGL

|                    |                                                                                  |
|--------------------|----------------------------------------------------------------------------------|
| Gearbox type:      | Reduction gearbox                                                                |
| Main application:  | Dredgers                                                                         |
| Driven component:  | Dredger pump                                                                     |
| Shaft rotation:    | Counter-rotating input and output shafts                                         |
| Reduction ratios:  | Custom (on request)                                                              |
| Shaft arrangement: | Parallel input and output shafts on opposite sides, vertically offset (standard) |
| Clutch(es):        | Hydraulically operated clutch(es)                                                |
| Bearing type:      | Roller bearings                                                                  |
| Gearbox housing:   | Steel / Cast iron design                                                         |
| Mounting:          | Free-standing                                                                    |
| Propulsion system: | Electric propulsion                                                              |



# Options

## Two speed gearboxes

- Two speed gearboxes based on standard gearboxes WAF, WVS, SVAL
- For available standard types and sizes see table:

|                 | Gearbox type |       |         |         |
|-----------------|--------------|-------|---------|---------|
|                 | ZWAF         | ZWVS  | ZSVAL   | ZWVSA U |
| Gearbox<br>Size | 264          | 440   | 865-22  | 440     |
|                 | 364          | 730/1 | 950-77  |         |
|                 | 563          | 930/1 | 1120-99 |         |
|                 | 665          |       |         |         |
|                 | 743          |       |         |         |
|                 | 763          |       |         |         |
|                 | 843          |       |         |         |
|                 | 863          |       |         |         |

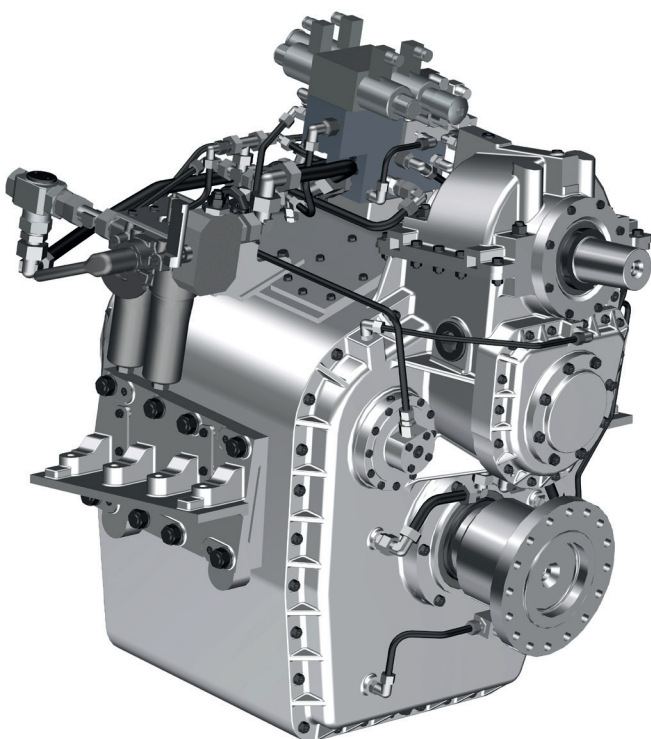
- Main ratio based on basic gearbox
- Difference between main gear and 2nd gear:  
max. 15%
- Dimensioning of second gear acc. to customer/  
on request
- For Power/speed ratios please refer to basic gearbox
- Additional sizes/types on request



## ZWVSA 440 U

### Technical Data:

|                                 |                                                  |
|---------------------------------|--------------------------------------------------|
| ■ offset:                       | U-drive                                          |
| ■ main gearbox ratio:           | 3.469 (other ratios available on request)        |
| ■ gearbox ratio 2. gear:        | 3.083                                            |
| ■ sense of rotation input side: | counter-clockwise                                |
| ■ sense of rotation output:     | clockwise                                        |
| ■ control valve:                | electrical                                       |
| ■ engine type.                  | admissible engine rating range (550 to 1,300 kW) |
| ■ admissible power/speed ratio: | 0.54 kW/rpm                                      |
| ■ gearbox foundation:           | rigid/resilient on request                       |





## Hybrid ready gearboxes

- Hybrid ready gearboxes based on standard gearboxes WAF, WVS
- For available standard types and sizes see table:

|              | Gearbox type |       |
|--------------|--------------|-------|
|              | WAF/LAF      | WVS   |
| Gearbox Size | 344 – 573    | 730/1 |
|              | 665 – 1143   | 930/1 |

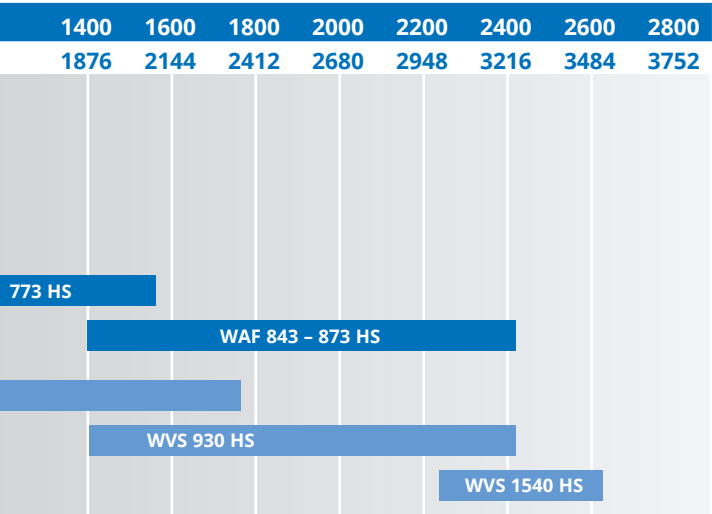
## Hybrid Systems

- Hybrid system consists of gearbox, electric motor, frequency converter
- System is compatible with various electric grids and configurable for different applications

| kW            | 200 | 400              | 600              | 800              | 1000             | 1200       |
|---------------|-----|------------------|------------------|------------------|------------------|------------|
| BHP           | 268 | 536              | 804              | 1072             | 1340             | 1608       |
| Duty profiles |     | WAF 344 – 374 HS |                  |                  |                  |            |
| C             |     |                  | WAF 444 – 474 HS |                  |                  |            |
| M             |     |                  |                  | WAF 543 – 573 HS |                  |            |
| L             |     |                  |                  |                  | WAF 665 – 675 HS |            |
| P             |     |                  |                  |                  |                  | WAF 746 –  |
| M             |     |                  |                  |                  |                  | WVS 730 HS |
| L             |     |                  |                  |                  |                  |            |
| P             |     |                  |                  |                  |                  |            |

- Main ratio based on basic gearbox
- For Power/speed ratios please refer to basic gearbox
- Additional sizes/types on request
- Related electric motor and frequency converter as a system available on request
- Electrical power >630 ekW available on request
- for PTI or PTI + Boost or PTI/PTO or PTI/PTO + Boost

- PTI – PTO – PTH – Boost mode separately and combinations thereof
- Electric power available from 60 to 630 kW



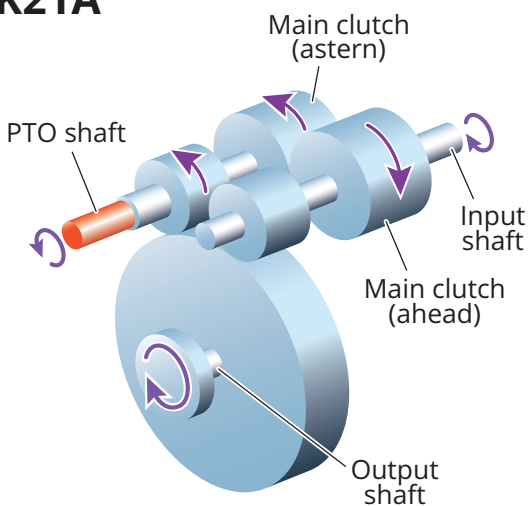


## Functional matrix

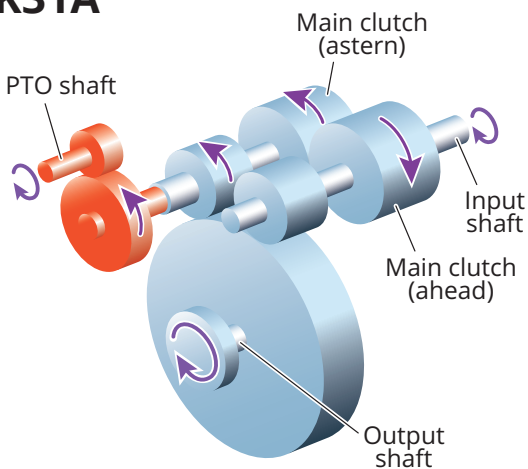
| PTO Type | Primary arrangement | Secondary arrangement | Controllable | Same direction to engine speed | Difference to engine speed (ratio $i \neq 1$ ) |
|----------|---------------------|-----------------------|--------------|--------------------------------|------------------------------------------------|
| K21 A    | X                   | -                     | -            | X                              | -                                              |
| K31 A    | X                   | -                     | -            | -                              | X                                              |
| K31 B    | -                   | X                     | -            | -                              | X                                              |
| K41 A    | X                   | -                     | -            | -                              | X                                              |
| K41 B    | -                   | X                     | -            | -                              | X                                              |
| K51 A    | X                   | -                     | X            | -                              | X                                              |
| K51 B    | -                   | X                     | X            | -                              | X                                              |

All PTOs of bidirectional type (CCW-CW).  
Further PTO arrangements on request.

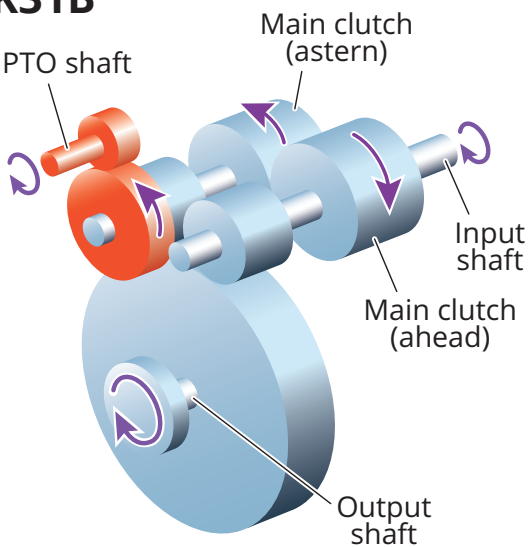
### K21A



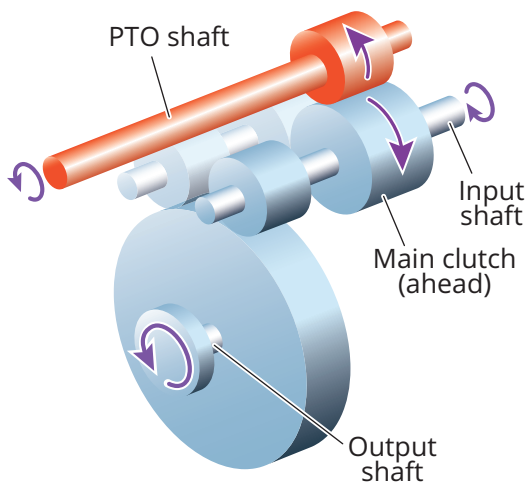
## K31A



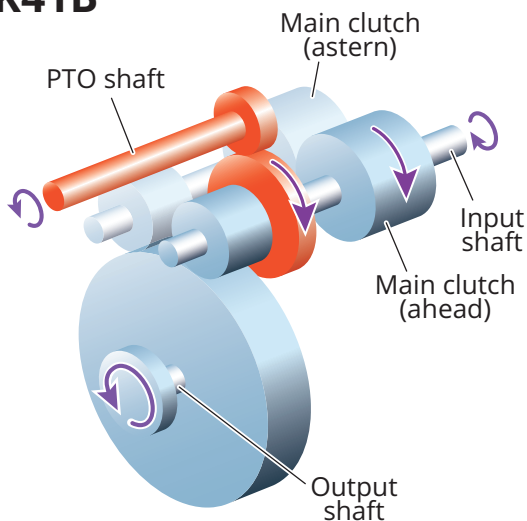
## K31B



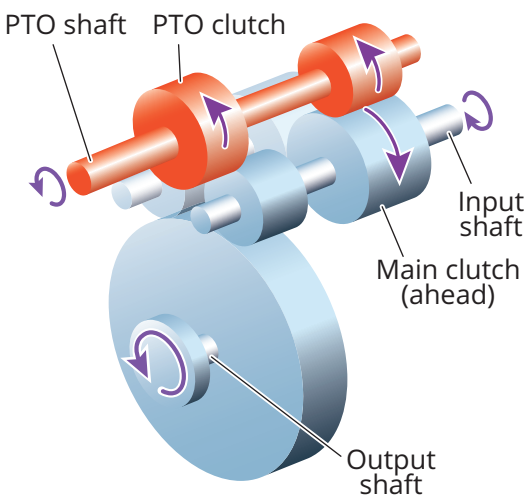
## K41A



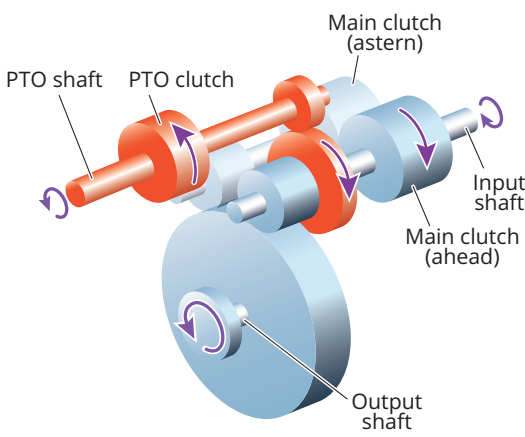
## K41B



# K51A



# K51B





# Auxiliary drives

## Technical Availability

- For standard PTO: refer to pages 20 – 25
- Primary PTO „A“: Aux drive turns, even if propeller not engaged
- Secondary PTO „B“: Aux drive turns only if propeller engaged
- Additional PTO-, PTI-, PTH functions on request
- Two speed PTI/PTH on request
- Additional pump drives on request

| PTO Type | WAF 164 | WAF 244 – 474 | WAF 542 – 573 | WAF 665 – 675 |
|----------|---------|---------------|---------------|---------------|
| K21 A    | X       | X             | X             | X             |
| K31 A    | -       | -             | X             | X             |
| K31 B    | -       | X             | X             | -             |
| K41 A    | -       | -             | -             | -             |
| K41 B    | -       | -             | -             | -             |
| K51 A    | -       | -             | -             | -             |
| K51 B    | -       | -             | -             | -             |



| WAF/<br>LAF<br>743 –<br>1973 | WAF/<br>LAF<br>2346 –<br>7770 | DLG | SVA | SVAL | VA |
|------------------------------|-------------------------------|-----|-----|------|----|
| X                            |                               | -   | -   | -    | -  |
| X                            | -                             | -   | -   | -    | -  |
| -                            | -                             | -   | -   | -    | -  |
| X                            | X                             | X   | -   | X    | -  |
| -                            | X                             | X   | X   | X    | X  |
| X                            | X                             | X   | -   | X    | -  |
| -                            | X                             | X   | X   | X    | X  |



# Important Notes

## REINTJES Marine Gearboxes

### Warranty

The marine gearboxes are subject to the standard REINTJES warranty conditions. Modifications of the gearbox are only permissible in consultation with REINTJES.

### Torsional Responsibility

The torsional couplings are selected according to engine torque. In the event that different couplings are required as a result of the torsional vibration calculation, the costs for this change will be for the purchaser's account. Torsional vibration analysis can be made by the engine builders, independent consultants etc. The responsibility for ensuring torsional compatibility of the propulsion system rests with the assembler of the equipment. REINTJES cannot be held liable for damages due to inadmissible high alternating moments on the units supplied by us. These will disengage us from any warranty agreement.

### Ratings

Ratings are for diesel engines only, at the rated speeds. The models, ratings, texts, and data contained in this publication are subject to change without prior notice. REINTJES considers standard rotation engines to be counterclockwise (ccw) in rotation, when viewed onto the flywheel end. Please advise REINTJES of engine rotation prior to gearbox selection.

### Safety Information

The majority of accidents which occur during operation, maintenance, and repair are caused by failure to observe basic safety rules and accident-prevention precautions. Accidents can often be avoided by correct assessment of potentially hazardous situations. The operating personnel must, at all times, be alert to potential hazards. Furthermore, they must be fully trained, skilled operators provided with the necessary tools and equipment required to perform these functions correctly. Supplementary to the operating manual, all generally valid legal and other binding regulations for accident prevention and pollution control have to be observed and adhered to.

### Classification

Classification ratings are available on request.

### Options

Information regarding options such as trolling propulsion system, PTO, etc. are available on separate product sheets.

## Marine Duty Profiles

C

### Continuous Duty

Typical applications: commercial vessels

Engine speed and power: continuous operation with little or no variations

Average engine operating hours: unlimited

Typical hull forms: displacement

M

### Medium Duty

Typical applications: private, charter, commercial craft, naval and governmental ships

Engine speed and power: intermittent operation with some variations

Average engine operating hours: 4000 hours/year

Typical hull forms: planing, semi-planing, displacement, catamaran

L

### Light Duty

Typical applications: private, charter, sport and pleasure craft, naval and governmental ships

Engine speed and power: intermittent operation with large variations

Average engine operating hours: 2500 hours/year

Typical hull forms: planing, semi-planing, displacement

P

### Pleasure Duty

Typical applications: private, noncommercial, noncharter, sport and leisure activities

Engine speed and power: intermittent operation with very large variations

Average engine operating hours: 500 hours/year

Typical hull forms: planing, semi-planing



# Continuous Duty

Reduction ratios: bold = standard,  
italics and additional ratios on request

kW/rpm

| WAF 164L |       |       |       |      |
|----------|-------|-------|-------|------|
| 3,964    | 4,560 | 5,043 |       | 0,20 |
| 5,950    |       |       |       | 0,16 |
| WAF 164  |       |       |       |      |
| 3,964    | 4,560 | 5,043 |       | 0,22 |
| 5,950    |       |       |       | 0,21 |
| WAF 244L |       |       |       |      |
| 2,037    | 2,538 | 2,957 |       | 0,25 |
| 3,522    |       |       |       | 0,23 |
| 3,952    |       |       |       | 0,21 |
| WAF 244  |       |       |       |      |
| 2,037    | 2,538 |       |       | 0,29 |
| 2,957    |       |       |       | 0,27 |
| 3,478    | 3,522 |       |       | 0,24 |
| 3,952    |       |       |       | 0,23 |
| WAF 264L |       |       |       |      |
| 3,519    | 4,083 | 4,500 | 5,050 | 0,25 |
| 5,476    |       |       |       | 0,24 |
| 5,800    |       |       |       | 0,22 |
| WAF 264  |       |       |       |      |
| 3,519    | 4,083 | 4,500 |       | 0,29 |
| 5,050    |       |       |       | 0,27 |
| 5,476    |       |       |       | 0,26 |
| 5,800    |       |       |       | 0,24 |
| WAF 274L |       |       |       |      |
| 6,400    |       |       |       | 0,26 |
| 6,115    | 7,043 |       |       | 0,25 |
| 7,409    |       |       |       | 0,24 |
| WAF 274  |       |       |       |      |
| 6,115    | 6,400 |       |       | 0,29 |
| 7,043    |       |       |       | 0,27 |
| 7,409    |       |       |       | 0,25 |

| kg  | kW       | (BHP) | kW       | (BHP) | kW         | (BHP) |
|-----|----------|-------|----------|-------|------------|-------|
| 525 | 1600 rpm |       | 1800 rpm |       | 2100 rpm * |       |
|     | 320      | (429) | 360      | (483) | 420        | (563) |
|     | 256      | (343) | 288      | (386) | 336        | (451) |
| 525 | 1600 rpm |       | 1800 rpm |       | 2100 rpm * |       |
|     | 352      | (472) | 396      | (531) | 462        | (620) |
|     | 336      | (451) | 378      | (507) | 441        | (591) |
| 455 | 1600 rpm |       | 1800 rpm |       | 2100 rpm * |       |
|     | 400      | (536) | 450      | (603) | 525        | (704) |
|     | 368      | (493) | 414      | (555) | 483        | (648) |
|     | 336      | (451) | 378      | (507) | 441        | (591) |
| 455 | 1600 rpm |       | 1800 rpm |       | 2100 rpm * |       |
|     | 464      | (622) | 522      | (700) | 609        | (817) |
|     | 432      | (579) | 486      | (652) | 567        | (760) |
|     | 384      | (515) | 432      | (579) | 504        | (676) |
|     | 368      | (493) | 414      | (555) | 483        | (648) |
| 700 | 1600 rpm |       | 1800 rpm |       | 2100 rpm * |       |
|     | 400      | (536) | 450      | (603) | 525        | (704) |
|     | 384      | (515) | 432      | (579) | 504        | (676) |
|     | 352      | (472) | 396      | (531) | 462        | (620) |
| 700 | 1600 rpm |       | 1800 rpm |       | 2100 rpm * |       |
|     | 464      | (622) | 522      | (700) | 609        | (817) |
|     | 432      | (579) | 486      | (652) | 567        | (760) |
|     | 416      | (558) | 468      | (628) | 546        | (732) |
|     | 384      | (515) | 432      | (579) | 504        | (676) |
| 725 | 1600 rpm |       | 1800 rpm |       | 2100 rpm * |       |
|     | 416      | (558) | 468      | (628) | 546        | (732) |
|     | 400      | (536) | 450      | (603) | 525        | (704) |
|     | 384      | (515) | 432      | (579) | 504        | (676) |
| 725 | 1600 rpm |       | 1800 rpm |       | 2100 rpm * |       |
|     | 464      | (622) | 522      | (700) | 609        | (817) |
|     | 432      | (579) | 486      | (652) | 567        | (760) |
|     | 400      | (536) | 450      | (603) | 525        | (704) |



# Continuous Duty

Reduction ratios: bold = standard,  
italics and additional ratios on request

kW/rpm

| WAF 344L |       |       |       |       |      |
|----------|-------|-------|-------|-------|------|
| 1,972    | 2,452 | 2,963 |       |       | 0,33 |
| 3,571    |       |       |       |       | 0,29 |
| 4,053    |       |       |       |       | 0,28 |
| WAF 344  |       |       |       |       |      |
| 1,972    | 2,452 | 2,963 |       |       | 0,36 |
| 3,280    | 3,571 |       |       |       | 0,33 |
| 4,053    |       |       |       |       | 0,31 |
| WAF 364L |       |       |       |       |      |
| 3,485    | 3,933 | 4,481 | 4,920 | 5,435 | 0,33 |
| 6,048    |       |       |       |       | 0,30 |
| WAF 364  |       |       |       |       |      |
| 3,485    | 3,933 | 4,481 | 4,920 | 5,435 | 0,36 |
| 6,048    |       |       |       |       | 0,34 |
| WAF 374L |       |       |       |       |      |
| 6,120    | 6,417 | 7,091 |       |       | 0,32 |
| 7,476    |       |       |       |       | 0,29 |
| WAF 374  |       |       |       |       |      |
| 6,120    | 6,417 | 6,739 | 7,091 |       | 0,36 |
| 7,476    |       |       |       |       | 0,33 |
| WAF 444L |       |       |       |       |      |
| 2,962    | 3,522 |       |       |       | 0,40 |
| 3,952    |       |       |       |       | 0,35 |
| WAF 444  |       |       |       |       |      |
| 2,962    |       |       |       |       | 0,44 |
| 3,522    |       |       |       |       | 0,42 |
| 3,952    |       |       |       |       | 0,40 |
| WAF 464L |       |       |       |       |      |
| 4,000    | 4,577 | 5,042 | 5,591 | 5,905 | 0,40 |
| WAF 464  |       |       |       |       |      |
| 4,000    | 4,577 | 5,042 | 5,591 |       | 0,46 |
| 5,905    |       |       |       |       | 0,45 |

| kg   | kW       | (BHP) | kW       | (BHP)  | kW         | (BHP)  |
|------|----------|-------|----------|--------|------------|--------|
| 730  | 1600 rpm |       | 1800 rpm |        | 2100 rpm * |        |
|      | 528      | (708) | 594      | (797)  | 693        | (929)  |
|      | 464      | (622) | 522      | (700)  | 609        | (817)  |
|      | 448      | (601) | 504      | (676)  | 588        | (789)  |
| 730  | 1600 rpm |       | 1800 rpm |        | 2100 rpm * |        |
|      | 576      | (772) | 648      | (869)  | 756        | (1014) |
|      | 528      | (708) | 594      | (797)  | 693        | (929)  |
|      | 496      | (665) | 558      | (748)  | 651        | (873)  |
| 810  | 1600 rpm |       | 1800 rpm |        | 2100 rpm * |        |
|      | 528      | (708) | 594      | (797)  | 693        | (929)  |
|      | 480      | (644) | 540      | (724)  | 630        | (845)  |
| 810  | 1600 rpm |       | 1800 rpm |        | 2100 rpm * |        |
|      | 576      | (772) | 648      | (869)  | 756        | (1014) |
|      | 544      | (730) | 612      | (821)  | 714        | (957)  |
| 1200 | 1600 rpm |       | 1800 rpm |        | 2100 rpm * |        |
|      | 512      | (687) | 576      | (772)  | 672        | (901)  |
|      | 464      | (622) | 522      | (700)  | 609        | (817)  |
| 1200 | 1600 rpm |       | 1800 rpm |        | 2100 rpm * |        |
|      | 576      | (772) | 648      | (869)  | 756        | (1014) |
|      | 528      | (708) | 594      | (797)  | 693        | (929)  |
| 760  | 1600 rpm |       | 1800 rpm |        | 2100 rpm * |        |
|      | 640      | (858) | 720      | (966)  | 840        | (1126) |
|      | 560      | (751) | 630      | (845)  | 735        | (986)  |
| 760  | 1600 rpm |       | 1800 rpm |        | 2100 rpm * |        |
|      | 704      | (944) | 792      | (1062) | 924        | (1239) |
|      | 672      | (901) | 756      | (1014) | 882        | (1183) |
|      | 640      | (858) | 720      | (966)  | 840        | (1126) |
| 940  | 1600 rpm |       | 1800 rpm |        | 2100 rpm * |        |
|      | 640      | (858) | 720      | (966)  | 840        | (1126) |
| 940  | 1600 rpm |       | 1800 rpm |        | 2100 rpm * |        |
|      | 736      | (987) | 828      | (1110) | 966        | (1295) |
|      | 720      | (966) | 810      | (1086) | 945        | (1267) |



# Continuous Duty

Reduction ratios: bold = standard,  
italics and additional ratios on request

kW/rpm

| WAF 474L |       |       |       |       |      |
|----------|-------|-------|-------|-------|------|
| 6,120    | 6,417 | 7,091 |       |       | 0,40 |
| 7,476    |       |       |       |       | 0,36 |
| WAF 474  |       |       |       |       |      |
| 6,120    | 6,417 |       |       |       | 0,46 |
| 7,091    |       |       |       |       | 0,45 |
| 7,476    |       |       |       |       | 0,41 |
| WAF 543  |       |       |       |       |      |
| 2,542    | 2,960 | 3,542 |       |       | 0,57 |
| 3,955    |       |       |       |       | 0,55 |
| 4,450    |       |       |       |       | 0,49 |
| WAF 563L |       |       |       |       |      |
| 4,545    | 5,050 | 5,421 |       |       | 0,57 |
| 5,947    |       |       |       |       | 0,52 |
| WAF 563  |       |       |       |       |      |
| 4,545    | 5,050 | 5,421 |       |       | 0,59 |
| 5,947    |       |       |       |       | 0,55 |
| WAF 573L |       |       |       |       |      |
| 6,417    | 7,091 | 7,474 |       |       | 0,53 |
| WAF 573  |       |       |       |       |      |
| 6,417    |       |       |       |       | 0,59 |
| 7,091    |       |       |       |       | 0,57 |
| 7,474    |       |       |       |       | 0,56 |
| WAF 665L |       |       |       |       |      |
| 3,536    | 4,080 | 4,560 | 5,043 | 5,571 | 0,70 |
| 5,950    |       |       |       |       |      |
| WAF 665  |       |       |       |       |      |
| 3,536    | 4,080 | 4,560 | 5,043 | 5,571 | 0,77 |
| 5,950    |       |       |       |       |      |
| WAF 675L |       |       |       |       |      |
| 6,417    | 6,739 | 7,091 | 7,476 |       | 0,70 |
| WAF 675  |       |       |       |       |      |
| 6,417    | 6,739 | 7,091 | 7,476 |       | 0,77 |



| kg   | kW       | (BHP)  | kW       | (BHP)  | kW         | (BHP)  |
|------|----------|--------|----------|--------|------------|--------|
| 1830 | 1600 rpm |        | 1800 rpm |        | 2100 rpm * |        |
|      | 640      | (858)  | 720      | (966)  | 840        | (1126) |
|      | 576      | (772)  | 648      | (869)  | 756        | (1014) |
| 1830 | 1600 rpm |        | 1800 rpm |        | 2100 rpm * |        |
|      | 736      | (987)  | 828      | (1110) | 966        | (1295) |
|      | 720      | (966)  | 810      | (1086) | 945        | (1267) |
|      | 656      | (880)  | 738      | (990)  | 861        | (1155) |
| 1035 | 1600 rpm |        | 1800 rpm |        | 2100 rpm * |        |
|      | 912      | (1223) | 1026     | (1376) | 1197       | (1605) |
|      | 880      | (1180) | 990      | (1328) | 1155       | (1549) |
|      | 784      | (1051) | 882      | (1183) | 1029       | (1380) |
| 1445 | 1600 rpm |        | 1800 rpm |        | 2100 rpm * |        |
|      | 912      | (1223) | 1026     | (1376) | 1197       | (1605) |
|      | 832      | (1116) | 936      | (1255) | 1092       | (1464) |
| 1445 | 1600 rpm |        | 1800 rpm |        | 2100 rpm * |        |
|      | 944      | (1266) | 1062     | (1424) | 1239       | (1661) |
|      | 880      | (1180) | 990      | (1328) | 1155       | (1549) |
| 2360 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 636      | (853)  | 848      | (1137) | 954        | (1279) |
| 2360 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 708      | (949)  | 944      | (1266) | 1062       | (1424) |
|      | 684      | (917)  | 912      | (1223) | 1026       | (1376) |
|      | 672      | (901)  | 896      | (1202) | 1008       | (1352) |
| 1950 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 840      | (1126) | 1120     | (1502) | 1260       | (1690) |
| 1950 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 924      | (1239) | 1232     | (1652) | 1386       | (1859) |
| 2600 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 840      | (1126) | 1120     | (1502) | 1260       | (1690) |
| 2600 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 924      | (1239) | 1232     | (1652) | 1386       | (1859) |

\* max. input speed



# Continuous Duty

Reduction ratios: bold = standard,  
italics and additional ratios on request

kW/rpm

|                  |              |              |              |              |      |
|------------------|--------------|--------------|--------------|--------------|------|
| <b>WAF 743L</b>  |              |              |              |              |      |
| <b>3,038</b>     | <b>3,333</b> | <b>3,550</b> | <b>3,952</b> |              | 0,88 |
| <b>WAF 743</b>   |              |              |              |              |      |
| <b>3,038</b>     | <b>3,333</b> | <b>3,550</b> |              |              | 0,98 |
| <b>3,952</b>     |              |              |              |              | 0,97 |
| <b>WAF 763L</b>  |              |              |              |              |      |
| <b>4,625</b>     | <b>5,136</b> | <b>5,429</b> | <b>5,750</b> | <b>5,913</b> | 0,88 |
| <b>WAF 763</b>   |              |              |              |              |      |
| <b>4,037</b>     | <b>4,625</b> | <b>5,136</b> | <b>5,429</b> | <b>5,750</b> | 0,98 |
| <b>5,913</b>     |              |              |              |              | 0,97 |
| <b>WAF 773L</b>  |              |              |              |              |      |
| <b>6,154</b>     | <b>6,440</b> | <b>7,087</b> | <b>7,454</b> |              | 0,88 |
| <b>WAF 773</b>   |              |              |              |              |      |
| <b>6,154</b>     | <b>6,440</b> | <b>7,087</b> | <b>7,454</b> |              | 0,98 |
| <b>WAF 843L</b>  |              |              |              |              |      |
| <b>3,080</b>     | <b>3,500</b> |              |              |              | 1,25 |
| <b>3,905</b>     | <b>4,318</b> |              |              |              | 1,15 |
| <b>WAF 843</b>   |              |              |              |              |      |
| <b>3,080</b>     | <b>3,435</b> | <b>3,500</b> | <b>3,905</b> |              | 1,38 |
| <b>4,087</b>     | <b>4,318</b> |              |              |              | 1,27 |
| <b>WAF 863L</b>  |              |              |              |              |      |
| <b>4,038</b>     | <b>4,458</b> | <b>4,955</b> |              |              | 1,25 |
| <b>5,500</b>     | <b>5,842</b> |              |              |              | 1,15 |
| <b>WAF 863</b>   |              |              |              |              |      |
| <b>4,038</b>     | <b>4,458</b> | <b>4,955</b> | <b>5,500</b> | <b>5,842</b> | 1,38 |
| <b>WAF 873L</b>  |              |              |              |              |      |
| <b>6,440</b>     | <b>6,750</b> | <b>7,087</b> |              |              | 1,25 |
| <b>7,454</b>     | <b>7,526</b> |              |              |              | 1,15 |
| <b>WAF 873</b>   |              |              |              |              |      |
| <b>6,440</b>     | <b>6,750</b> | <b>7,087</b> | <b>7,454</b> | <b>7,526</b> | 1,38 |
| <b>WAF 1143L</b> |              |              |              |              |      |
| <b>1,966</b>     | <b>2,429</b> | <b>3,037</b> | <b>3,500</b> |              | 1,48 |
| <b>3,909</b>     |              |              |              |              | 1,45 |

| kg   | kW       | (BHP)  | kW       | (BHP)  | kW         | (BHP)  |
|------|----------|--------|----------|--------|------------|--------|
| 1800 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 1056     | (1416) | 1408     | (1888) | 1584       | (2124) |
| 1800 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 1176     | (1577) | 1568     | (2103) | 1764       | (2366) |
|      | 1164     | (1561) | 1552     | (2081) | 1746       | (2341) |
| 2300 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 1056     | (1416) | 1408     | (1888) | 1584       | (2124) |
| 2300 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 1176     | (1577) | 1568     | (2103) | 1764       | (2366) |
|      | 1164     | (1561) | 1552     | (2081) | 1746       | (2341) |
| 3200 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 1056     | (1416) | 1408     | (1888) | 1584       | (2124) |
| 3200 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 1176     | (1577) | 1568     | (2103) | 1764       | (2366) |
| 2300 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 1500     | (2012) | 2000     | (2682) | 2250       | (3017) |
|      | 1380     | (1851) | 1840     | (2467) | 2070       | (2776) |
| 2300 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 1656     | (2221) | 2208     | (2961) | 2484       | (3331) |
|      | 1524     | (2044) | 2032     | (2725) | 2286       | (3066) |
| 3100 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 1500     | (2012) | 2000     | (2682) | 2250       | (3017) |
|      | 1380     | (1851) | 1840     | (2467) | 2070       | (2776) |
| 3100 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 1656     | (2221) | 2208     | (2961) | 2484       | (3331) |
| 4100 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 1500     | (2012) | 2000     | (2682) | 2250       | (3017) |
|      | 1380     | (1851) | 1840     | (2467) | 2070       | (2776) |
| 4100 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 1656     | (2221) | 2208     | (2961) | 2484       | (3331) |
| 2750 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 1776     | (2382) | 2368     | (3175) | 2664       | (3572) |
|      | 1740     | (2333) | 2320     | (3111) | 2610       | (3500) |

\* max. input speed



## Continuous Duty

Reduction ratios: bold = standard,  
italics and additional ratios on request

kW/rpm

| WAF 1143 |       |       |       |       |  | kW/rpm |
|----------|-------|-------|-------|-------|--|--------|
| 1,966    | 2,429 | 3,037 |       |       |  |        |
| 3,500    |       |       |       |       |  |        |
| 3,909    |       |       |       |       |  |        |
| WAF 1163 |       |       |       |       |  | kW/rpm |
| 4,296    | 4,500 | 4,720 | 4,958 |       |  |        |
| 5,500    |       |       |       |       |  |        |
| 5,810    |       |       |       |       |  |        |
| WAF 1173 |       |       |       |       |  | kW/rpm |
| 6,696    |       |       |       |       |  |        |
| 6,850    | 7,045 | 7,429 |       |       |  |        |
| 8,778    |       |       |       |       |  |        |
| WAF 1543 |       |       |       |       |  | kW/rpm |
| 2,032    | 2,467 | 3,038 |       |       |  |        |
| 3,522    | 3,857 |       |       |       |  |        |
| WAF 1563 |       |       |       |       |  | kW/rpm |
| 3,903    | 4,429 | 4,846 |       |       |  |        |
| 5,375    | 5,954 | 6,286 |       |       |  |        |
| WAF 1943 |       |       |       |       |  | kW/rpm |
| 2,059    | 2,467 | 2,962 | 3,522 | 3,952 |  |        |
| 4,087    |       |       |       |       |  |        |
| WAF 1963 |       |       |       |       |  | kW/rpm |
| 4,467    | 4,857 | 5,560 | 5,952 |       |  |        |
| 6,130    | 6,300 | 6,409 |       |       |  |        |
| WAF 1973 |       |       |       |       |  | kW/rpm |
| 8,316    |       |       |       |       |  |        |

| kg   | kW       | (BHP)  | kW       | (BHP)  | kW         | (BHP)  |
|------|----------|--------|----------|--------|------------|--------|
| 2750 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 1956     | (2623) | 2608     | (3497) | 2934       | (3934) |
|      | 1920     | (2575) | 2560     | (3433) | 2880       | (3862) |
|      | 1776     | (2382) | 2368     | (3175) | 2664       | (3572) |
| 3600 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 1956     | (2623) | 2608     | (3497) | 2934       | (3934) |
|      | 1836     | (2462) | 2448     | (3283) | 2754       | (3693) |
|      | 1740     | (2333) | 2320     | (3111) | 2610       | (3500) |
| 5000 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 1956     | (2623) | 2608     | (3497) | 2934       | (3934) |
|      | 1800     | (2414) | 2400     | (3218) | 2700       | (3621) |
|      | 1500     | (2012) | 2000     | (2682) | 2250       | (3017) |
| 3400 | 1200 rpm |        | 1300 rpm |        | 1600 rpm * |        |
|      | 2448     | (3283) | 2652     | (3556) | 3264       | (4377) |
|      | 2280     | (3057) | 2470     | (3312) | 3040       | (4077) |
| 4460 | 1200 rpm |        | 1300 rpm |        | 1600 rpm * |        |
|      | 2448     | (3283) | 2652     | (3556) | 3264       | (4377) |
|      | 2160     | (2897) | 2340     | (3138) | 2880       | (3862) |
| 4460 | 1200 rpm |        | 1300 rpm |        | 1600 rpm * |        |
|      | 2640     | (3540) | 2860     | (3835) | 3520       | (4720) |
| 5540 | 1200 rpm |        | 1300 rpm |        | 1600 rpm * |        |
|      | 2640     | (3540) | 2860     | (3835) | 3520       | (4720) |
|      | 2520     | (3379) | 2730     | (3661) | 3360       | (4506) |
| 8500 | 1200 rpm |        | 1300 rpm |        | 1600 rpm * |        |
|      | 2072     | (2779) | 2245     | (3011) | 2763       | (3705) |



## Continuous Duty

Range of reduction ratios,  
italics and additional ratios on request

kW/rpm

| WAF 2346 |       |      |
|----------|-------|------|
| 2,077    | 4,454 | 2,45 |
| WAF 2365 |       |      |
| 5,074    | 6,455 | 2,45 |
| WAF 2355 |       |      |
| 3,536    | 5,762 | 2,45 |
| WAF 2375 |       |      |
| 5,958    | 7,454 | 2,45 |
| WAF 3445 |       |      |
| 2,053    | 4,524 | 3,25 |
| WAF 3465 |       |      |
| 5,077    |       | 3,25 |
| 6,954    |       | 2,97 |
| WAF 3455 |       |      |
| 4,074    |       | 3,25 |
| 5,954    |       | 3,16 |
| WAF 3475 |       |      |
| 6,087    | 7,524 | 3,25 |
| WAF 4545 |       |      |
| 1,591    | 4,429 | 3,80 |
| WAF 4555 |       |      |
| 3,960    | 5,773 | 3,80 |
| WAF 4566 |       |      |
| 4,955    | 6,818 | 3,80 |
| WAF 4575 |       |      |
| 6,120    | 7,476 | 3,80 |
| WAF 5645 |       |      |
| 1,973    | 4,550 | 5,00 |
| WAF 5655 |       |      |
| 4,042    |       | 5,00 |
| 5,810    |       | 4,86 |
| WAF 5666 |       |      |
| 5,044    |       | 5,00 |

| kg    | kW      | (BHP)  | kW       | (BHP)  | kW         | (BHP)  |
|-------|---------|--------|----------|--------|------------|--------|
| 6000  | 750 rpm |        | 1000 rpm |        | 1100 rpm * |        |
|       | 1838    | (2464) | 2450     | (3285) | 2695       | (3614) |
| 8000  | 750 rpm |        | 1000 rpm |        | 1100 rpm * |        |
|       | 1838    | (2464) | 2450     | (3285) | 2695       | (3614) |
| 7000  | 750 rpm |        | 1000 rpm |        | 1100 rpm * |        |
|       | 1838    | (2464) | 2450     | (3285) | 2695       | (3614) |
| 10000 | 750 rpm |        | 1000 rpm |        | 1100 rpm * |        |
|       | 1838    | (2464) | 2450     | (3285) | 2695       | (3614) |
| 7100  | 600 rpm |        | 900 rpm  |        | 1200 rpm * |        |
|       | 1950    | (2615) | 2925     | (3922) | 3900       | (5230) |
| 10400 | 600 rpm |        | 900 rpm  |        | 1200 rpm * |        |
|       | 1950    | (2615) | 2925     | (3922) | 3900       | (5230) |
|       | 1779    | (2386) | 2668     | (3578) | 3558       | (4771) |
| 8500  | 600 rpm |        | 900 rpm  |        | 1200 rpm * |        |
|       | 1950    | (2615) | 2925     | (3922) | 3900       | (5230) |
|       | 1894    | (2539) | 2840     | (3809) | 3787       | (5079) |
| 11500 | 600 rpm |        | 900 rpm  |        | 1200 rpm * |        |
|       | 1950    | (2615) | 2925     | (3922) | 3900       | (5230) |
| 8900  | 600 rpm |        | 900 rpm  |        | 1150 rpm * |        |
|       | 2280    | (3057) | 3420     | (4586) | 4370       | (5860) |
| 10500 | 600 rpm |        | 900 rpm  |        | 1150 rpm * |        |
|       | 2280    | (3057) | 3420     | (4586) | 4370       | (5860) |
| 12600 | 600 rpm |        | 900 rpm  |        | 1150 rpm * |        |
|       | 2280    | (3057) | 3420     | (4586) | 4370       | (5860) |
| 14100 | 600 rpm |        | 900 rpm  |        | 1150 rpm * |        |
|       | 2280    | (3057) | 3420     | (4586) | 4370       | (5860) |
| 11600 | 600 rpm |        | 900 rpm  |        | 1100 rpm * |        |
|       | 3000    | (4023) | 4500     | (6034) | 5500       | (7376) |
| 13200 | 600 rpm |        | 900 rpm  |        | 1100 rpm * |        |
|       | 3000    | (4023) | 4500     | (6034) | 5500       | (7376) |
|       | 2916    | (3910) | 4374     | (5866) | 5346       | (7169) |
| 14800 | 600 rpm |        | 900 rpm  |        | 1100 rpm * |        |
|       | 3000    | (4023) | 4500     | (6034) | 5500       | (7376) |

\* max. input speed



## Continuous Duty

Range of reduction ratios,  
italics and additional ratios on request

kW/rpm

| WAF 5666 |       |      |
|----------|-------|------|
| 6,857    |       | 4,79 |
| WAF 5675 |       |      |
| 6,125    | 7,550 | 5,00 |
| WAF 6745 |       |      |
| 2,028    |       | 6,00 |
| 4,450    |       | 5,97 |
| WAF 6755 |       |      |
| 4,042    |       | 6,00 |
| 5,762    |       | 5,91 |
| WAF 6766 |       |      |
| 4,960    |       | 6,00 |
| 6,450    |       | 5,95 |
| WAF 7740 |       |      |
| 2,929    | 4,409 | 7,87 |
| WAF 7750 |       |      |
| 3,107    | 5,304 | 7,87 |
| WAF 7760 |       |      |
| 5,136    | 6,476 | 7,87 |



| kg    | kW      | (BHP)  | kW      | (BHP)  | kW         | (BHP)  |
|-------|---------|--------|---------|--------|------------|--------|
| 14800 | 600 rpm |        | 900 rpm |        | 1100 rpm * |        |
|       | 2875    | (3855) | 4312    | (5782) | 5270       | (7067) |
| 18000 | 600 rpm |        | 900 rpm |        | 1100 rpm * |        |
|       | 3000    | (4023) | 4500    | (6034) | 5500       | (7376) |
| 15000 | 600 rpm |        | 900 rpm |        | 950 rpm *  |        |
|       | 3600    | (4828) | 5400    | (7241) | 5700       | (7644) |
|       | 3582    | (4803) | 5373    | (7205) | 5672       | (7605) |
| 17000 | 600 rpm |        | 900 rpm |        | 950 rpm *  |        |
|       | 3600    | (4828) | 5400    | (7241) | 5700       | (7644) |
|       | 3546    | (4755) | 5319    | (7133) | 5614       | (7529) |
| 18000 | 600 rpm |        | 900 rpm |        | 950 rpm *  |        |
|       | 3600    | (4828) | 5400    | (7241) | 5700       | (7644) |
|       | 3570    | (4787) | 5355    | (7181) | 5652       | (7580) |
| 17000 | 600 rpm |        | 750 rpm |        | 900 rpm *  |        |
|       | 4722    | (6332) | 5902    | (7915) | 7083       | (9498) |
| 18000 | 600 rpm |        | 750 rpm |        | 900 rpm *  |        |
|       | 4722    | (6332) | 5902    | (7915) | 7083       | (9498) |
| 25000 | 600 rpm |        | 750 rpm |        | 900 rpm *  |        |
|       | 4722    | (6332) | 5902    | (7915) | 7083       | (9498) |



## Continuous Duty

Range of reduction ratios,  
italics and additional ratios on request

| Reduction ratio | kW/rpm | rpm  | kW   | (BHP)  |
|-----------------|--------|------|------|--------|
| <b>WGF 563</b>  |        |      |      |        |
| 3,965           | 0,89   | 900  | 796  | (1068) |
| 11,674          | 0,30   | 1600 | 482  | (646)  |
| <b>WGF 665</b>  |        |      |      |        |
| 4,042           | 1,06   | 900  | 955  | (1281) |
| 11,334          | 0,38   | 1600 | 605  | (811)  |
| <b>WGF 763</b>  |        |      |      |        |
| 3,093           | 1,34   | 600  | 805  | (1080) |
| 11,304          | 0,44   | 1600 | 702  | (942)  |
| <b>WGF 863</b>  |        |      |      |        |
| 4,080           | 1,98   | 800  | 1581 | (2120) |
| 11,052          | 0,73   | 1600 | 1166 | (1564) |
| <b>WGF 1563</b> |        |      |      |        |
| 3,503           | 2,50   | 600  | 1502 | (2015) |
| 10,123          | 1,06   | 1600 | 1694 | (2272) |
| <b>WGF 1963</b> |        |      |      |        |
| 3,501           | 2,50   | 600  | 1502 | (2015) |
| 10,119          | 1,29   | 1600 | 2070 | (2776) |
| <b>WGF 3455</b> |        |      |      |        |
| 4,069           | 4,38   | 600  | 2627 | (3523) |
| 8,713           | 2,22   | 1600 | 3554 | (4765) |
| <b>WGF 4566</b> |        |      |      |        |
| 4,154           | 4,20   | 500  | 2100 | (2816) |
| 9,205           | 2,65   | 1000 | 2654 | (3559) |

| rpm      | kW   | (BHP)  | max. rpm | max. kW | (BHP)  |
|----------|------|--------|----------|---------|--------|
| 1035 kg  |      |        |          |         |        |
| 1100     | 974  | (1305) | 1400     | 1239    | (1661) |
| 2000     | 602  | (807)  | 2450     | 737     | (989)  |
| 2360 kg  |      |        |          |         |        |
| 1100     | 1167 | (1565) | 1300     | 1379    | (1850) |
| 2000     | 756  | (1014) | 2450     | 926     | (1242) |
| 2800 kg  |      |        |          |         |        |
| 800      | 1074 | (1440) | 900      | 1208    | (1620) |
| 2000     | 878  | (1177) | 2450     | 1076    | (1442) |
| 3720 kg  |      |        |          |         |        |
| 1000     | 1976 | (2650) | 1250     | 2470    | (3312) |
| 2000     | 1458 | (1955) | 2450     | 1786    | (2395) |
| 5960 kg  |      |        |          |         |        |
| 800      | 2003 | (2686) | 950      | 2379    | (3190) |
| 2000     | 2118 | (2840) | 2400     | 2542    | (3408) |
| 7400 kg  |      |        |          |         |        |
| 800      | 2003 | (2686) | 950      | 2379    | (3190) |
| 2000     | 2588 | (3471) | 2400     | 3106    | (4165) |
| 10000 kg |      |        |          |         |        |
| 800      | 3503 | (4698) | 900      | 3941    | (5285) |
| 1800     | 3998 | (5361) | 1950     | 4331    | (5808) |
| 15000 kg |      |        |          |         |        |
| 600      | 2520 | (3379) | 650      | 2730    | (3661) |
| 1200     | 3185 | (4271) | 1400     | 3716    | (4983) |



# Continuous Duty

Reduction ratios: bold = standard,  
italics and additional ratios on request

kW/rpm

| AF 264  |       |       |       |       |      |
|---------|-------|-------|-------|-------|------|
| 3,519   | 4,083 | 4,500 |       |       | 0,29 |
| 5,050   |       |       |       |       | 0,27 |
| 5,476   |       |       |       |       | 0,26 |
| 5,800   |       |       |       |       | 0,24 |
| AF 344  |       |       |       |       |      |
| 1,972   | 2,452 | 2,963 |       |       | 0,36 |
| 3,280   | 3,571 |       |       |       | 0,33 |
| 4,053   |       |       |       |       | 0,31 |
| AF 364  |       |       |       |       |      |
| 3,485   | 3,933 | 4,481 | 4,920 | 5,435 | 0,36 |
| 6,048   |       |       |       |       | 0,34 |
| AF 665  |       |       |       |       |      |
| 3,536   | 4,080 | 4,560 | 5,043 | 5,571 | 0,77 |
| 5,950   |       |       |       |       |      |
| AF 743  |       |       |       |       |      |
| 3,038   | 3,333 | 3,550 |       |       | 1,00 |
| 3,952   |       |       |       |       | 0,97 |
| AF 763  |       |       |       |       |      |
| 4,037   | 4,625 | 5,136 | 5,429 | 5,750 | 1,00 |
| 5,913   |       |       |       |       | 0,97 |
| AF 843  |       |       |       |       |      |
| 3,080   | 3,435 | 3,500 |       |       | 1,45 |
| 3,905   |       |       |       |       | 1,38 |
| 4,087   | 4,318 |       |       |       | 1,27 |
| AF 863  |       |       |       |       |      |
| 4,038   | 4,458 | 4,955 |       |       | 1,45 |
| 5,500   | 5,842 |       |       |       | 1,38 |
| AF 873  |       |       |       |       |      |
| 6,440   | 6,750 | 7,087 |       |       | 1,45 |
| 7,454   | 7,526 |       |       |       | 1,38 |
| AF 1143 |       |       |       |       |      |
| 1,966   | 2,429 | 3,037 |       |       | 1,70 |

| kg   | kW       | (BHP)  | kW       | (BHP)  | kW         | (BHP)  |
|------|----------|--------|----------|--------|------------|--------|
| 670  | 1600 rpm |        | 1800 rpm |        | 2100 rpm * |        |
|      | 464      | (622)  | 522      | (700)  | 609        | (817)  |
|      | 432      | (579)  | 486      | (652)  | 567        | (760)  |
|      | 416      | (558)  | 468      | (628)  | 546        | (732)  |
|      | 384      | (515)  | 432      | (579)  | 504        | (676)  |
| 700  | 1600 rpm |        | 1800 rpm |        | 2100 rpm * |        |
|      | 576      | (772)  | 648      | (869)  | 756        | (1014) |
|      | 528      | (708)  | 594      | (797)  | 693        | (929)  |
|      | 496      | (665)  | 558      | (748)  | 651        | (873)  |
| 770  | 1600 rpm |        | 1800 rpm |        | 2100 rpm * |        |
|      | 576      | (772)  | 648      | (869)  | 756        | (1014) |
|      | 544      | (730)  | 612      | (821)  | 714        | (957)  |
| 1700 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 924      | (1239) | 1232     | (1652) | 1386       | (1859) |
| 1600 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 1200     | (1609) | 1600     | (2146) | 1800       | (2414) |
|      | 1164     | (1561) | 1552     | (2081) | 1746       | (2341) |
| 2100 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 1200     | (1609) | 1600     | (2146) | 1800       | (2414) |
|      | 1164     | (1561) | 1552     | (2081) | 1746       | (2341) |
| 2200 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 1740     | (2333) | 2320     | (3111) | 2610       | (3500) |
|      | 1656     | (2221) | 2208     | (2961) | 2484       | (3331) |
|      | 1524     | (2044) | 2032     | (2725) | 2286       | (3066) |
| 2900 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 1740     | (2333) | 2320     | (3111) | 2610       | (3500) |
|      | 1656     | (2221) | 2208     | (2961) | 2484       | (3331) |
| 3800 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 1740     | (2333) | 2320     | (3111) | 2610       | (3500) |
|      | 1656     | (2221) | 2208     | (2961) | 2484       | (3331) |
| 2200 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 2040     | (2736) | 2720     | (3648) | 3060       | (4103) |

\* max. input speed



## Continuous Duty

Reduction ratios: bold = standard,  
italics and additional ratios on request

kW/rpm

| AF 1143 |       |       |  | kW/rpm |
|---------|-------|-------|--|--------|
| 3,500   |       |       |  |        |
| 3,909   |       |       |  | 1,48   |
| AF 1163 |       |       |  | kW/rpm |
| 4,500   | 4,720 | 4,958 |  |        |
| 5,500   |       |       |  | 1,53   |
| 5,810   |       |       |  | 1,45   |
| AF 1173 |       |       |  | kW/rpm |
| 6,696   |       |       |  |        |
| 6,850   | 7,045 | 7,429 |  | 1,50   |
| AF 1543 |       |       |  | kW/rpm |
| 2,032   | 2,467 | 3,038 |  |        |
| 3,522   | 3,857 |       |  | 1,90   |
| AF 1563 |       |       |  | kW/rpm |
| 4,429   | 4,846 |       |  |        |
| 5,375   | 5,954 |       |  | 1,80   |

| kg   | kW       | (BHP)  | kW       | (BHP)  | kW         | (BHP)  |
|------|----------|--------|----------|--------|------------|--------|
| 2200 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 1920     | (2575) | 2560     | (3433) | 2880       | (3862) |
|      | 1776     | (2382) | 2368     | (3175) | 2664       | (3572) |
| 3150 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 2040     | (2736) | 2720     | (3648) | 3060       | (4103) |
|      | 1836     | (2462) | 2448     | (3283) | 2754       | (3693) |
|      | 1740     | (2333) | 2320     | (3111) | 2610       | (3500) |
| 3300 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 1956     | (2623) | 2608     | (3497) | 2934       | (3934) |
|      | 1800     | (2414) | 2400     | (3218) | 2700       | (3621) |
| 3200 | 1200 rpm |        | 1300 rpm |        | 1600 rpm * |        |
|      | 2520     | (3379) | 2730     | (3661) | 3360       | (4506) |
|      | 2280     | (3057) | 2470     | (3312) | 3040       | (4077) |
| 4300 | 1200 rpm |        | 1300 rpm |        | 1600 rpm * |        |
|      | 2520     | (3379) | 2730     | (3661) | 3360       | (4506) |
|      | 2160     | (2897) | 2340     | (3138) | 2880       | (3862) |



## Continuous Duty

Reduction ratios: bold = standard,  
italics and additional ratios on request

kW/rpm

| AF 2365      |      |
|--------------|------|
| <i>5,074</i> | 3,45 |
| <i>5,560</i> | 3,19 |
| <i>5,952</i> | 2,94 |
| <i>6,455</i> | 2,81 |
| AF 2375      |      |
| <i>5,958</i> | 3,32 |
| <i>6,440</i> | 3,20 |
| <i>6,952</i> | 2,94 |
| <i>7,454</i> | 2,81 |



| kg   | kW      | (BHP)  | kW       | (BHP)  | kW         | (BHP)  |
|------|---------|--------|----------|--------|------------|--------|
| 7800 | 750 rpm |        | 1000 rpm |        | 1100 rpm * |        |
|      | 2588    | (3470) | 3450     | (4626) | 3795       | (5089) |
|      | 2392    | (3208) | 3190     | (4278) | 3509       | (4706) |
|      | 2205    | (2957) | 2940     | (3943) | 3234       | (4337) |
|      | 2108    | (2826) | 2810     | (3768) | 3091       | (4145) |
| 8500 | 750 rpm |        | 1000 rpm |        | 1100 rpm * |        |
|      | 2490    | (3339) | 3320     | (4452) | 3652       | (4897) |
|      | 2400    | (3218) | 3200     | (4291) | 3520       | (4720) |
|      | 2205    | (2957) | 2940     | (3943) | 3234       | (4337) |
|      | 2108    | (2826) | 2810     | (3768) | 3091       | (4145) |



# Continuous Duty

Reduction ratios: bold = standard,  
italics and additional ratios on request

kW/rpm

| LAF 543  |       |       |       |       |      |
|----------|-------|-------|-------|-------|------|
| 2,542    | 2,960 | 3,542 |       |       | 0,57 |
| 3,955    |       |       |       |       | 0,55 |
| 4,450    |       |       |       |       | 0,49 |
| LAF 563L |       |       |       |       |      |
| 4,545    | 5,050 | 5,421 |       |       | 0,57 |
| 5,947    |       |       |       |       | 0,53 |
| LAF 563  |       |       |       |       |      |
| 4,545    | 5,050 | 5,421 |       |       | 0,59 |
| 5,947    |       |       |       |       | 0,55 |
| LAF 573L |       |       |       |       |      |
| 6,417    | 7,091 | 7,474 |       |       | 0,53 |
| LAF 573  |       |       |       |       |      |
| 6,417    | 7,091 |       |       |       | 0,57 |
| 7,474    |       |       |       |       | 0,56 |
| LAF 665L |       |       |       |       |      |
| 3,536    | 4,080 | 4,560 | 5,043 | 5,571 | 0,70 |
| 5,950    |       |       |       |       |      |
| LAF 665  |       |       |       |       |      |
| 3,536    | 4,080 | 4,560 | 5,043 | 5,571 | 0,77 |
| 5,950    |       |       |       |       |      |
| LAF 675L |       |       |       |       |      |
| 6,417    | 6,739 | 7,091 | 7,476 |       | 0,70 |
| LAF 675  |       |       |       |       |      |
| 6,417    | 6,739 | 7,091 | 7,476 |       | 0,77 |
| LAF 743L |       |       |       |       |      |
| 3,038    | 3,333 | 3,550 |       |       | 1,00 |
| 3,952    |       |       |       |       | 0,88 |
| LAF 743  |       |       |       |       |      |
| 3,038    | 3,333 | 3,550 |       |       | 1,00 |
| 3,952    |       |       |       |       | 0,97 |
| LAF 763L |       |       |       |       |      |
| 4,625    | 5,136 | 5,429 | 5,750 | 5,913 | 0,88 |

| kg   | kW       | (BHP)  | kW       | (BHP)  | kW         | (BHP)  |
|------|----------|--------|----------|--------|------------|--------|
| 925  | 1600 rpm |        | 1800 rpm |        | 2100 rpm * |        |
|      | 912      | (1223) | 1026     | (1376) | 1197       | (1605) |
|      | 880      | (1180) | 990      | (1328) | 1155       | (1549) |
|      | 784      | (1051) | 882      | (1183) | 1029       | (1380) |
| 1325 | 1600 rpm |        | 1800 rpm |        | 2100 rpm * |        |
|      | 912      | (1223) | 1026     | (1376) | 1197       | (1605) |
|      | 848      | (1137) | 954      | (1279) | 1113       | (1493) |
| 1325 | 1600 rpm |        | 1800 rpm |        | 2100 rpm * |        |
|      | 944      | (1266) | 1062     | (1424) | 1239       | (1661) |
|      | 880      | (1180) | 990      | (1328) | 1155       | (1549) |
| 2190 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 636      | (853)  | 848      | (1137) | 954        | (1279) |
| 2190 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 684      | (917)  | 912      | (1223) | 1026       | (1376) |
|      | 672      | (901)  | 896      | (1202) | 1008       | (1352) |
| 1800 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 840      | (1126) | 1120     | (1502) | 1260       | (1690) |
| 1800 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 924      | (1239) | 1232     | (1652) | 1386       | (1859) |
| 2450 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 840      | (1126) | 1120     | (1502) | 1260       | (1690) |
| 2450 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 924      | (1239) | 1232     | (1652) | 1386       | (1859) |
| 1600 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 1200     | (1609) | 1600     | (2146) | 1800       | (2414) |
|      | 1056     | (1416) | 1408     | (1888) | 1584       | (2124) |
| 1600 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 1200     | (1609) | 1600     | (2146) | 1800       | (2414) |
|      | 1164     | (1561) | 1552     | (2081) | 1746       | (2341) |
| 2100 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 1056     | (1416) | 1408     | (1888) | 1584       | (2124) |

\* max. input speed



## Continuous Duty

Reduction ratios: bold = standard,  
italics and additional ratios on request

kW/rpm

| LAF 763      |              |              |              |              |  |      |
|--------------|--------------|--------------|--------------|--------------|--|------|
| <b>4,037</b> | <b>4,625</b> | <b>5,136</b> | <b>5,429</b> | <b>5,750</b> |  | 1,00 |
| <b>5,913</b> |              |              |              |              |  | 0,97 |
| LAF 773L     |              |              |              |              |  |      |
| <b>6,154</b> | <b>6,440</b> | <b>7,087</b> |              |              |  | 1,00 |
| <b>7,454</b> |              |              |              |              |  | 0,88 |
| LAF 773      |              |              |              |              |  |      |
| <b>6,154</b> | <b>6,440</b> | <b>7,087</b> | <b>7,454</b> |              |  | 1,00 |
| LAF 843L     |              |              |              |              |  |      |
| <b>3,080</b> |              |              |              |              |  | 1,45 |
| <b>3,500</b> |              |              |              |              |  | 1,30 |
| <b>3,905</b> | <b>4,318</b> |              |              |              |  | 1,15 |
| LAF 843      |              |              |              |              |  |      |
| <b>3,080</b> | <b>3,435</b> | <b>3,500</b> |              |              |  | 1,45 |
| <b>3,905</b> |              |              |              |              |  | 1,38 |
| <b>4,087</b> | <b>4,318</b> |              |              |              |  | 1,27 |
| LAF 863L     |              |              |              |              |  |      |
| <b>4,038</b> | <b>4,458</b> |              |              |              |  | 1,40 |
| <b>4,955</b> |              |              |              |              |  | 1,25 |
| <b>5,500</b> | <b>5,842</b> |              |              |              |  | 1,15 |
| LAF 863      |              |              |              |              |  |      |
| <b>4,038</b> | <b>4,458</b> | <b>4,955</b> |              |              |  | 1,45 |
| <b>5,500</b> | <b>5,842</b> |              |              |              |  | 1,38 |
| LAF 873L     |              |              |              |              |  |      |
| <b>6,440</b> | <b>6,750</b> |              |              |              |  | 1,45 |
| <b>7,526</b> |              |              |              |              |  | 1,38 |
| <b>7,087</b> |              |              |              |              |  | 1,30 |
| <b>7,454</b> |              |              |              |              |  | 1,15 |
| LAF 873      |              |              |              |              |  |      |
| <b>6,440</b> | <b>6,750</b> | <b>7,087</b> |              |              |  | 1,45 |
| <b>7,454</b> | <b>7,526</b> |              |              |              |  | 1,38 |
| LAF 1143L    |              |              |              |              |  |      |
| <b>1,966</b> | <b>2,429</b> | <b>3,037</b> |              |              |  | 1,70 |

| kg   | kW       | (BHP)  | kW       | (BHP)  | kW         | (BHP)  |
|------|----------|--------|----------|--------|------------|--------|
| 2100 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 1200     | (1609) | 1600     | (2146) | 1800       | (2414) |
|      | 1164     | (1561) | 1552     | (2081) | 1746       | (2341) |
| 3000 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 1200     | (1609) | 1600     | (2146) | 1800       | (2414) |
|      | 1056     | (1416) | 1408     | (1888) | 1584       | (2124) |
| 3000 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 1200     | (1609) | 1600     | (2146) | 1800       | (2414) |
| 2640 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 1740     | (2333) | 2320     | (3111) | 2610       | (3500) |
|      | 1560     | (2092) | 2080     | (2789) | 2340       | (3138) |
|      | 1380     | (1851) | 1840     | (2467) | 2070       | (2776) |
| 2640 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 1740     | (2333) | 2320     | (3111) | 2610       | (3500) |
|      | 1656     | (2221) | 2208     | (2961) | 2484       | (3331) |
|      | 1524     | (2044) | 2032     | (2725) | 2286       | (3066) |
| 2850 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 1680     | (2253) | 2240     | (3004) | 2520       | (3379) |
|      | 1500     | (2012) | 2000     | (2682) | 2250       | (3017) |
|      | 1380     | (1851) | 1840     | (2467) | 2070       | (2776) |
| 2850 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 1740     | (2333) | 2320     | (3111) | 2610       | (3500) |
|      | 1656     | (2221) | 2208     | (2961) | 2484       | (3331) |
| 3850 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 1740     | (2333) | 2320     | (3111) | 2610       | (3500) |
|      | 1656     | (2221) | 2208     | (2961) | 2484       | (3331) |
|      | 1560     | (2092) | 2080     | (2789) | 2340       | (3138) |
|      | 1380     | (1851) | 1840     | (2467) | 2070       | (2776) |
| 3850 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 1740     | (2333) | 2320     | (3111) | 2610       | (3500) |
|      | 1656     | (2221) | 2208     | (2961) | 2484       | (3331) |
| 2450 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 2040     | (2736) | 2720     | (3648) | 3060       | (4103) |

\* max. input speed



## Continuous Duty

Reduction ratios: bold = standard,  
italics and additional ratios on request

kW/rpm

| LAF 1143L |       |       |  |      |
|-----------|-------|-------|--|------|
| 3,500     |       |       |  | 1,60 |
| 3,909     |       |       |  | 1,45 |
| LAF 1143  |       |       |  |      |
| 1,966     | 2,429 | 3,037 |  | 1,70 |
| 3,500     |       |       |  | 1,60 |
| 3,909     |       |       |  | 1,48 |
| LAF 1163  |       |       |  |      |
| 4,296     | 4,500 | 4,958 |  | 1,70 |
| 5,500     |       |       |  | 1,53 |
| 5,810     |       |       |  | 1,45 |
| LAF 1173  |       |       |  |      |
| 6,696     |       |       |  | 1,63 |
| 7,045     | 7,429 |       |  | 1,50 |
| 8,778     |       |       |  | 1,25 |
| LAF 1543  |       |       |  |      |
| 2,032     | 2,467 | 3,038 |  | 2,10 |
| 3,522     |       |       |  | 1,90 |
| LAF 1563  |       |       |  |      |
| 3,903     | 4,429 | 4,846 |  | 2,10 |
| 5,375     |       |       |  | 1,80 |
| LAF 1943  |       |       |  |      |
| 2,059     | 2,467 | 2,962 |  | 2,45 |
| 3,522     |       |       |  | 2,20 |
| LAF 1963  |       |       |  |      |
| 4,467     |       |       |  | 2,45 |
| 4,857     | 5,560 | 5,952 |  | 2,20 |
| 6,130     |       |       |  | 2,10 |
| LAF 1973  |       |       |  |      |
| 8,316     |       |       |  | 1,73 |

| kg   | kW       | (BHP)  | kW       | (BHP)  | kW         | (BHP)  |
|------|----------|--------|----------|--------|------------|--------|
| 2450 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 1920     | (2575) | 2560     | (3433) | 2880       | (3862) |
|      | 1740     | (2333) | 2320     | (3111) | 2610       | (3500) |
| 2450 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 2040     | (2736) | 2720     | (3648) | 3060       | (4103) |
|      | 1920     | (2575) | 2560     | (3433) | 2880       | (3862) |
|      | 1776     | (2382) | 2368     | (3175) | 2664       | (3572) |
| 3300 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 2040     | (2736) | 2720     | (3648) | 3060       | (4103) |
|      | 1836     | (2462) | 2448     | (3283) | 2754       | (3693) |
|      | 1740     | (2333) | 2320     | (3111) | 2610       | (3500) |
| 4600 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
|      | 1956     | (2623) | 2608     | (3497) | 2934       | (3934) |
|      | 1800     | (2414) | 2400     | (3218) | 2700       | (3621) |
|      | 1500     | (2012) | 2000     | (2682) | 2250       | (3017) |
| 3000 | 1200 rpm |        | 1500 rpm |        | 1600 rpm * |        |
|      | 2520     | (3379) | 3150     | (4224) | 3360       | (4506) |
|      | 2280     | (3057) | 2850     | (3822) | 3040       | (4077) |
| 4000 | 1200 rpm |        | 1500 rpm |        | 1600 rpm * |        |
|      | 2520     | (3379) | 3150     | (4224) | 3360       | (4506) |
|      | 2160     | (2897) | 2700     | (3621) | 2880       | (3862) |
| 4060 | 1200 rpm |        | 1500 rpm |        | 1600 rpm * |        |
|      | 2940     | (3943) | 3675     | (4928) | 3920       | (5257) |
|      | 2640     | (3540) | 3300     | (4425) | 3520       | (4720) |
| 4940 | 1200 rpm |        | 1500 rpm |        | 1600 rpm * |        |
|      | 2940     | (3943) | 3675     | (4928) | 3920       | (5257) |
|      | 2640     | (3540) | 3300     | (4425) | 3520       | (4720) |
|      | 2520     | (3379) | 3150     | (4224) | 3360       | (4506) |
| 7580 | 1200 rpm |        | 1300 rpm |        | 1600 rpm * |        |
|      | 2072     | (2779) | 2245     | (3011) | 2763       | (3705) |



## Continuous Duty

Range of reduction ratios,  
italics and additional ratios on request

kW/rpm

| LAF 2346 |      |
|----------|------|
| 2,077    | 3,40 |
| 4,454    | 2,80 |
| LAF 2365 |      |
| 5,074    | 3,40 |
| 6,455    | 2,81 |
| LAF 2355 |      |
| 3,536    | 3,40 |
| 5,762    | 2,67 |
| LAF 2375 |      |
| 5,958    | 3,32 |
| 7,454    | 2,81 |
| LAF 3445 |      |
| 2,053    | 4,35 |
| 4,524    | 3,42 |
| LAF 3465 |      |
| 5,077    | 4,35 |
| 6,954    | 2,97 |
| LAF 3455 |      |
| 4,074    | 4,35 |
| 5,954    | 3,16 |
| LAF 3475 |      |
| 6,087    | 4,35 |
| 7,524    | 3,60 |
| LAF 4545 |      |
| 1,591    | 5,50 |
| 4,429    | 4,02 |
| LAF 4555 |      |
| 3,960    | 5,22 |
| 5,773    | 3,82 |
| LAF 4566 |      |
| 6,818    | 3,82 |



| kg    | kW      | (BHP)  | kW       | (BHP)  | kW         | (BHP)  |
|-------|---------|--------|----------|--------|------------|--------|
| 5300  | 750 rpm |        | 1000 rpm |        | 1100 rpm * |        |
|       | 2550    | (3420) | 3400     | (4559) | 3740       | (5015) |
|       | 2100    | (2816) | 2800     | (3755) | 3080       | (4130) |
| 7200  | 750 rpm |        | 1000 rpm |        | 1100 rpm * |        |
|       | 2550    | (3420) | 3400     | (4559) | 3740       | (5015) |
|       | 2108    | (2826) | 2810     | (3768) | 3091       | (4145) |
| 6300  | 750 rpm |        | 1000 rpm |        | 1100 rpm * |        |
|       | 2550    | (3420) | 3400     | (4559) | 3740       | (5015) |
|       | 2002    | (2685) | 2670     | (3580) | 2937       | (3939) |
| 9200  | 750 rpm |        | 1000 rpm |        | 1100 rpm * |        |
|       | 2490    | (3339) | 3320     | (4452) | 3652       | (4897) |
|       | 2108    | (2826) | 2810     | (3768) | 3091       | (4145) |
| 6400  | 600 rpm |        | 900 rpm  |        | 1200 rpm * |        |
|       | 2610    | (3500) | 3915     | (5250) | 5220       | (7000) |
|       | 2052    | (2752) | 3078     | (4128) | 4104       | (5503) |
| 9700  | 600 rpm |        | 900 rpm  |        | 1200 rpm * |        |
|       | 2610    | (3500) | 3915     | (5250) | 5220       | (7000) |
|       | 1779    | (2386) | 2668     | (3578) | 3558       | (4771) |
| 7800  | 600 rpm |        | 900 rpm  |        | 1200 rpm * |        |
|       | 2610    | (3500) | 3915     | (5250) | 5220       | (7000) |
|       | 1894    | (2539) | 2840     | (3809) | 3787       | (5079) |
| 10800 | 600 rpm |        | 900 rpm  |        | 1200 rpm * |        |
|       | 2610    | (3500) | 3915     | (5250) | 5220       | (7000) |
|       | 2159    | (2895) | 3238     | (4342) | 4318       | (5790) |
| 8000  | 600 rpm |        | 900 rpm  |        | 1200 rpm * |        |
|       | 3300    | (4425) | 4950     | (6638) | 6600       | (8851) |
|       | 2412    | (3234) | 3618     | (4852) | 4824       | (6469) |
| 9500  | 600 rpm |        | 900 rpm  |        | 1200 rpm * |        |
|       | 3132    | (4200) | 4698     | (6300) | 6264       | (8400) |
|       | 2292    | (3074) | 3438     | (4610) | 4584       | (6147) |
| 11100 | 600 rpm |        | 900 rpm  |        | 1200 rpm * |        |
|       | 2292    | (3074) | 3438     | (4610) | 4584       | (6147) |



## Continuous Duty

Range of reduction ratios,  
italics and additional ratios on request

kW/rpm

| LAF 4575 |       |
|----------|-------|
| 6,120    | 4,74  |
| 7,476    | 3,99  |
| LAF 5645 |       |
| 1,973    | 7,00  |
| 4,550    | 5,09  |
| LAF 5655 |       |
| 4,042    | 6,57  |
| 5,810    | 4,86  |
| LAF 5666 |       |
| 5,044    | 6,36  |
| 6,857    | 4,79  |
| LAF 5675 |       |
| 6,125    | 6,10  |
| 7,550    | 5,08  |
| LAF 6745 |       |
| 2,028    | 8,40  |
| 4,450    | 5,97  |
| LAF 6755 |       |
| 4,042    | 7,93  |
| 5,762    | 5,91  |
| LAF 6766 |       |
| 4,960    | 7,44  |
| 6,450    | 5,95  |
| LAF 7740 |       |
| 2,929    | 11,00 |
| 4,409    | 8,56  |
| LAF 7750 |       |
| 3,107    | 10,07 |
| 5,304    | 7,91  |
| LAF 7760 |       |
| 5,136    | 9,86  |
| 6,476    | 7,98  |

| kg    | kW      | (BHP)  | kW      | (BHP)   | kW         | (BHP)   |
|-------|---------|--------|---------|---------|------------|---------|
| 13100 | 600 rpm |        | 900 rpm |         | 1200 rpm * |         |
|       | 2844    | (3814) | 4266    | (5721)  | 5688       | (7628)  |
|       | 2394    | (3210) | 3591    | (4816)  | 4788       | (6421)  |
| 10600 | 600 rpm |        | 900 rpm |         | 1200 rpm * |         |
|       | 4200    | (5632) | 6300    | (8448)  | 8400       | (11264) |
|       | 3054    | (4095) | 4581    | (6143)  | 6108       | (8191)  |
| 12200 | 600 rpm |        | 900 rpm |         | 1200 rpm * |         |
|       | 3942    | (5286) | 5913    | (7929)  | 7884       | (10572) |
|       | 2916    | (3910) | 4374    | (5866)  | 5832       | (7821)  |
| 13800 | 600 rpm |        | 900 rpm |         | 1200 rpm * |         |
|       | 3816    | (5117) | 5724    | (7676)  | 7632       | (10235) |
|       | 2875    | (3855) | 4312    | (5782)  | 5749       | (7710)  |
| 17000 | 600 rpm |        | 900 rpm |         | 1200 rpm * |         |
|       | 3660    | (4908) | 5490    | (7362)  | 7320       | (9816)  |
|       | 3048    | (4087) | 4572    | (6131)  | 6096       | (8175)  |
| 14000 | 600 rpm |        | 900 rpm |         | 1150 rpm * |         |
|       | 5040    | (6759) | 7560    | (10138) | 9660       | (12954) |
|       | 3582    | (4803) | 5373    | (7205)  | 6866       | (9207)  |
| 16000 | 600 rpm |        | 900 rpm |         | 1150 rpm * |         |
|       | 4758    | (6380) | 7137    | (9571)  | 9120       | (12229) |
|       | 3546    | (4755) | 5319    | (7133)  | 6796       | (9114)  |
| 17000 | 600 rpm |        | 900 rpm |         | 1150 rpm * |         |
|       | 4464    | (5986) | 6696    | (8979)  | 8556       | (11474) |
|       | 3570    | (4787) | 5355    | (7181)  | 6842       | (9176)  |
| 16000 | 600 rpm |        | 900 rpm |         | 1150 rpm * |         |
|       | 6600    | (8851) | 9900    | (13276) | 12650      | (16964) |
|       | 5136    | (6887) | 7704    | (10331) | 9844       | (13201) |
| 17000 | 600 rpm |        | 900 rpm |         | 1150 rpm * |         |
|       | 6042    | (8102) | 9063    | (12153) | 11580      | (15529) |
|       | 4746    | (6364) | 7119    | (9547)  | 9096       | (12198) |
| 23500 | 600 rpm |        | 900 rpm |         | 1150 rpm * |         |
|       | 5916    | (7933) | 8874    | (11900) | 11339      | (15206) |
|       | 4787    | (6419) | 7180    | (9629)  | 9175       | (12303) |

\* max. input speed



## Continuous Duty

Range of reduction ratios,  
italics and additional ratios on request

kW/rpm

| VLJ 1130 >> standard engine operating up to 5000 hours/y |       |      |
|----------------------------------------------------------|-------|------|
| 1,512                                                    |       | 1,85 |
| 2,962                                                    |       | 1,78 |
| VLJ 1930 >> standard engine operating up to 5000 hours/y |       |      |
| 1,410                                                    |       | 2,00 |
| 3,368                                                    |       | 1,85 |
| VLJ 2230 >> standard engine operating up to 5000 hours/y |       |      |
| 1,513                                                    |       | 2,45 |
| 2,920                                                    |       | 2,30 |
| VLJ 3330                                                 |       |      |
| 1,513                                                    |       | 3,96 |
| 2,920                                                    |       | 3,18 |
| VLJ 4431                                                 |       |      |
| 1,552                                                    |       | 6,20 |
| 2,600                                                    |       | 4,85 |
| VLJ 6831                                                 |       |      |
| 1,405                                                    |       | 7,20 |
| VLJ 6841                                                 |       |      |
| 2,097                                                    |       | 7,20 |
| 2,840                                                    |       | 7,00 |
| VLJ 7531                                                 |       |      |
| 1,541                                                    |       | 8,20 |
| 2,133                                                    |       | 8,00 |
| VLJ 7541                                                 |       |      |
| 1,486                                                    | 2,067 | 9,20 |

| kg   | kW       | (BHP)   | kW       | (BHP)   | kW         | (BHP)   |
|------|----------|---------|----------|---------|------------|---------|
| 1300 | 1000 rpm |         | 1200 rpm |         | 1950 rpm * |         |
|      | 1850     | (2481)  | 2220     | (2977)  | 3608       | (4838)  |
|      | 1780     | (2387)  | 2136     | (2864)  | 3471       | (4655)  |
| 1150 | 1000 rpm |         | 1200 rpm |         | 1950 rpm * |         |
|      | 2000     | (2682)  | 2400     | (3218)  | 3900       | (5230)  |
|      | 1850     | (2481)  | 2220     | (2977)  | 3608       | (4838)  |
| 1600 | 1000 rpm |         | 1200 rpm |         | 1950 rpm * |         |
|      | 2450     | (3285)  | 2940     | (3943)  | 4778       | (6407)  |
|      | 2300     | (3084)  | 2760     | (3701)  | 4485       | (6014)  |
| 1700 | 900 rpm  |         | 1100 rpm |         | 1200 rpm * |         |
|      | 3564     | (4779)  | 4356     | (5841)  | 4752       | (6372)  |
|      | 2863     | (3839)  | 3499     | (4692)  | 3817       | (5119)  |
| 3600 | 900 rpm  |         | 1100 rpm |         | 1200 rpm * |         |
|      | 5580     | (7483)  | 6820     | (9146)  | 7440       | (9977)  |
|      | 4365     | (5853)  | 5335     | (7154)  | 5820       | (7805)  |
| 3900 | 900 rpm  |         | 1100 rpm |         | 1200 rpm * |         |
|      | 6480     | (8690)  | 7920     | (10621) | 8640       | (11586) |
| 4900 | 900 rpm  |         | 1100 rpm |         | 1200 rpm * |         |
|      | 6480     | (8690)  | 7920     | (10621) | 8640       | (11586) |
|      | 6300     | (8448)  | 7700     | (10326) | 8400       | (11264) |
| 4300 | 900 rpm  |         | 1100 rpm |         | 1200 rpm * |         |
|      | 7380     | (9897)  | 9020     | (12096) | 9840       | (13195) |
|      | 7200     | (9655)  | 8800     | (11801) | 9600       | (12874) |
| 4850 | 900 rpm  |         | 1100 rpm |         | 1200 rpm * |         |
|      | 8280     | (11103) | 10120    | (13571) | 11040      | (14805) |



## Continuous Duty

Range of reduction ratios,  
italics and additional ratios on request

kW/rpm

| VA 2451 |       |
|---------|-------|
| 3,179   | 4,14  |
| 5,450   | 2,44  |
| VA 2741 |       |
| 1,500   | 7,40  |
| 3,944   | 3,80  |
| VA 3451 |       |
| 4,095   | 5,50  |
| 5,273   | 4,06  |
| VA 3462 |       |
| 5,286   | 5,00  |
| 5,905   | 4,45  |
| VA 3541 |       |
| 1,514   | 10,10 |
| 4,050   | 5,26  |
| VA 4851 |       |
| 3,818   | 8,40  |
| 4,809   | 6,90  |
| VA 4855 |       |
| 3,542   | 10,97 |
| 5,048   | 8,11  |
| VA 4945 |       |
| 1,512   | 10,14 |
| 3,905   | 7,07  |
| VA 4941 |       |
| 2,276   | 10,67 |
| 4,053   | 7,07  |

| kg    | kW      | (BHP)   | kW      | (BHP)   | kW         | (BHP)   |
|-------|---------|---------|---------|---------|------------|---------|
| 5100  | 750 rpm |         | 900 rpm |         | 1200 rpm * |         |
|       | 3105    | (4164)  | 3726    | (4997)  | 4968       | (6662)  |
|       | 1830    | (2454)  | 2196    | (2945)  | 2928       | (3926)  |
| 5500  | 750 rpm |         | 900 rpm |         | 1200 rpm * |         |
|       | 5550    | (7443)  | 6660    | (8931)  | 8880       | (11908) |
|       | 2850    | (3822)  | 3420    | (4586)  | 4560       | (6115)  |
| 8700  | 750 rpm |         | 900 rpm |         | 1200 rpm * |         |
|       | 4125    | (5532)  | 4950    | (6638)  | 6600       | (8851)  |
|       | 3047    | (4086)  | 3657    | (4904)  | 4876       | (6538)  |
| 10200 | 750 rpm |         | 900 rpm |         | 1200 rpm * |         |
|       | 3750    | (5029)  | 4500    | (6034)  | 6000       | (8046)  |
|       | 3338    | (4476)  | 4005    | (5371)  | 5340       | (7161)  |
| 7600  | 750 rpm |         | 900 rpm |         | 1200 rpm * |         |
|       | 7575    | (10158) | 9090    | (12190) | 12120      | (16253) |
|       | 3945    | (5290)  | 4734    | (6348)  | 6312       | (8464)  |
| 12000 | 750 rpm |         | 900 rpm |         | 1200 rpm * |         |
|       | 6300    | (8448)  | 7560    | (10138) | 10080      | (13517) |
|       | 5175    | (6940)  | 6210    | (8328)  | 8280       | (11103) |
| 12500 | 750 rpm |         | 900 rpm |         | 1200 rpm * |         |
|       | 8228    | (11033) | 9873    | (13240) | 13164      | (17653) |
|       | 6082    | (8157)  | 7299    | (9788)  | 9732       | (13051) |
| 10800 | 750 rpm |         | 900 rpm |         | 1200 rpm * |         |
|       | 7605    | (10198) | 9126    | (12238) | 12168      | (16317) |
|       | 5302    | (7111)  | 6363    | (8533)  | 8484       | (11377) |
| 9500  | 750 rpm |         | 900 rpm |         | 1200 rpm * |         |
|       | 8002    | (10731) | 9603    | (12878) | 12804      | (17170) |
|       | 5302    | (7111)  | 6363    | (8533)  | 8484       | (11377) |



## Continuous Duty

Range of reduction ratios,  
italics and additional ratios on request

kW/rpm

| SVA 630B   |       |
|------------|-------|
| 2,483      | 5,70  |
| 3,810      | 4,20  |
| SVA 630A   |       |
| 4,083      | 3,20  |
| 5,181      | 2,00  |
| SVA 750B   |       |
| 3,148      | 7,70  |
| SVA 800B   |       |
| 2,031      | 12,90 |
| 3,905      | 8,00  |
| SVA 800A   |       |
| 4,550      | 5,80  |
| SVA 800-6B |       |
| 4,875      | 4,40  |
| 5,409      | 4,00  |
| SVA 800-6A |       |
| 5,762      | 3,00  |
| SVA 850B   |       |
| 1,973      | 18,30 |
| 3,783      | 12,00 |
| SVA 850A   |       |
| 3,917      | 8,60  |
| 4,364      | 7,90  |
| SVA 850-6B |       |
| 4,900      | 4,90  |
| 5,571      | 4,40  |
| SVA 900B   |       |
| 2,028      | 19,00 |
| 3,955      | 12,00 |
| SVA 900A   |       |
| 4,208      | 8,60  |
| 4,682      | 7,90  |



| kg    | kW      | (BHP)   | kW      | (BHP)   | kW         | (BHP)   |
|-------|---------|---------|---------|---------|------------|---------|
|       | 600 rpm |         | 750 rpm |         | 1000 rpm * |         |
|       | 3420    | (4586)  | 4275    | (5733)  | 5700       | (7644)  |
|       | 2520    | (3379)  | 3150    | (4224)  | 4200       | (5632)  |
| -     | 600 rpm |         | 750 rpm |         | 1000 rpm * |         |
|       | 1920    | (2575)  | 2400    | (3218)  | 3200       | (4291)  |
|       | 1200    | (1609)  | 1500    | (2012)  | 2000       | (2682)  |
| -     | 600 rpm |         | 750 rpm |         | 1000 rpm * |         |
|       | 4620    | (6195)  | 5775    | (7744)  | 7700       | (10326) |
| 13200 | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
|       | 6450    | (8649)  | 9675    | (12974) | 12900      | (17299) |
|       | 4000    | (5364)  | 6000    | (8046)  | 8000       | (10728) |
| 13200 | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
|       | 2900    | (3889)  | 4350    | (5833)  | 5800       | (7778)  |
|       | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
|       | 2200    | (2950)  | 3300    | (4425)  | 4400       | (5900)  |
|       | 2000    | (2682)  | 3000    | (4023)  | 4000       | (5364)  |
| -     | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
|       | 1500    | (2012)  | 2250    | (3017)  | 3000       | (4023)  |
| -     | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
|       | 9150    | (12270) | 13725   | (18405) | 18300      | (24540) |
|       | 6000    | (8046)  | 9000    | (12069) | 12000      | (16092) |
| 16000 | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
|       | 4300    | (5766)  | 6450    | (8649)  | 8600       | (11533) |
|       | 3950    | (5297)  | 5925    | (7945)  | 7900       | (10594) |
|       | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
|       | 2450    | (3285)  | 3675    | (4928)  | 4900       | (6571)  |
|       | 2200    | (2950)  | 3300    | (4425)  | 4400       | (5900)  |
| -     | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
|       | 9500    | (12740) | 14250   | (19109) | 19000      | (25479) |
|       | 6000    | (8046)  | 9000    | (12069) | 12000      | (16092) |
| 17000 | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
|       | 4300    | (5766)  | 6450    | (8649)  | 8600       | (11533) |
|       | 3950    | (5297)  | 5925    | (7945)  | 7900       | (10594) |

\* max. input speed



## Continuous Duty

Range of reduction ratios,  
italics and additional ratios on request

kW/rpm

| SVA 900-6A  |       |
|-------------|-------|
| 4,826       | 6,45  |
| 5,381       | 5,90  |
| SVA 950B    |       |
| 2,594       | 22,00 |
| 3,792       | 16,00 |
| SVA 950A    |       |
| 3,920       | 13,20 |
| 4,348       | 11,60 |
| SVA 950-6B  |       |
| 4,591       | 8,80  |
| 4,857       | 8,40  |
| SVA 950-6A  |       |
| 5,150       | 6,40  |
| 5,762       | 5,90  |
| SVA 1000B   |       |
| 1,972       | 26,50 |
| 4,042       | 16,10 |
| SVA 1000A   |       |
| 4,500       | 11,30 |
| 4,750       | 10,90 |
| SVA 1050B   |       |
| 2,054       | 27,50 |
| 4,136       | 16,60 |
| SVA 1050A   |       |
| 4,381       | 12,50 |
| 4,773       | 11,50 |
| SVA 1050-6B |       |
| 5,048       | 8,80  |
| 5,636       | 8,00  |
| SVA 1050-6A |       |
| 5,952       | 6,20  |
| 6,136       | 6,03  |

| kg    | kW      | (BHP)   | kW      | (BHP)   | kW         | (BHP)   |
|-------|---------|---------|---------|---------|------------|---------|
|       | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
|       | 3225    | (4325)  | 4838    | (6487)  | 6450       | (8649)  |
|       | 2950    | (3956)  | 4425    | (5934)  | 5900       | (7912)  |
| -     | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
|       | 11000   | (14751) | 16500   | (22126) | 22000      | (29502) |
|       | 8000    | (10728) | 12000   | (16092) | 16000      | (21456) |
| 18800 | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
|       | 6600    | (8851)  | 9900    | (13276) | 13200      | (17701) |
|       | 5800    | (7778)  | 8700    | (11667) | 11600      | (15556) |
|       | 600 rpm |         | 750 rpm |         | 1000 rpm * |         |
|       | 5280    | (7080)  | 6600    | (8851)  | 8800       | (11801) |
|       | 5040    | (6759)  | 6300    | (8448)  | 8400       | (11264) |
| -     | 600 rpm |         | 750 rpm |         | 1000 rpm * |         |
|       | 3840    | (5149)  | 4800    | (6437)  | 6400       | (8582)  |
|       | 3540    | (4747)  | 4425    | (5934)  | 5900       | (7912)  |
| -     | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
|       | 13250   | (17768) | 19875   | (26652) | 26500      | (35536) |
|       | 8050    | (10795) | 12075   | (16193) | 16100      | (21590) |
| 19500 | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
|       | 5650    | (7577)  | 8475    | (11365) | 11300      | (15153) |
|       | 5450    | (7308)  | 8175    | (10963) | 10900      | (14617) |
| 21000 | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
|       | 13750   | (18439) | 20625   | (27658) | 27500      | (36878) |
|       | 8300    | (11130) | 12450   | (16695) | 16600      | (22261) |
| 21000 | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
|       | 6250    | (8381)  | 9375    | (12572) | 12500      | (16762) |
|       | 5750    | (7711)  | 8625    | (11566) | 11500      | (15422) |
|       | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
|       | 4400    | (5900)  | 6600    | (8851)  | 8800       | (11801) |
|       | 4000    | (5364)  | 6000    | (8046)  | 8000       | (10728) |
| -     | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
|       | 3100    | (4157)  | 4650    | (6236)  | 6200       | (8314)  |
|       | 3015    | (4043)  | 4522    | (6065)  | 6030       | (8086)  |

\* max. input speed



## Continuous Duty

Range of reduction ratios,  
italics and additional ratios on request

kW/rpm

| SVA 1120B   |       |
|-------------|-------|
| 2,025       | 38,10 |
| 4,455       | 16,60 |
| SVA 1120A   |       |
| 4,800       | 12,30 |
| 5,304       | 10,30 |
| SVA 1200B   |       |
| 2,023       | 44,00 |
| 4,417       | 24,25 |
| SVA 1200A   |       |
| 4,864       | 17,50 |
| 5,083       | 16,90 |
| SVA 1200-6B |       |
| 5,348       | 12,40 |
| 5,783       | 11,50 |
| SVA 1200-6A |       |
| 6,091       | 8,80  |
| 6,429       | 8,40  |

| kg    | kW (BHP) |         | kW (BHP) |         | kW (BHP)   |         |
|-------|----------|---------|----------|---------|------------|---------|
| -     | 500 rpm  |         | 750 rpm  |         | 1000 rpm * |         |
|       | 19050    | (25546) | 28575    | (38319) | 38100      | (51092) |
|       | 8300     | (11130) | 12450    | (16695) | 16600      | (22261) |
| 22500 | 500 rpm  |         | 750 rpm  |         | 1000 rpm * |         |
|       | 6150     | (8247)  | 9225     | (12371) | 12300      | (16494) |
|       | 5150     | (6906)  | 7725     | (10359) | 10300      | (13812) |
| 31000 | 500 rpm  |         | 750 rpm  |         | 1000 rpm * |         |
|       | 22000    | (29502) | 33000    | (44253) | 44000      | (59004) |
|       | 12126    | (16262) | 18190    | (24392) | 24253      | (32523) |
| 31000 | 500 rpm  |         | 750 rpm  |         | 1000 rpm * |         |
|       | 8750     | (11734) | 13125    | (17601) | 17500      | (23468) |
|       | 8450     | (11331) | 12675    | (16997) | 16900      | (22663) |
|       | 500 rpm  |         | 750 rpm  |         | 1000 rpm * |         |
|       | 6200     | (8314)  | 9300     | (12471) | 12400      | (16628) |
|       | 5750     | (7711)  | 8625     | (11566) | 11500      | (15422) |
| -     | 500 rpm  |         | 750 rpm  |         | 1000 rpm * |         |
|       | 4400     | (5900)  | 6600     | (8851)  | 8800       | (11801) |
|       | 4200     | (5632)  | 6300     | (8448)  | 8400       | (11264) |



## Continuous Duty

Range of reduction ratios,  
italics and additional ratios on request

kW/rpm

| SVAL 850-88  |       |
|--------------|-------|
| 1,973        | 14,50 |
| 3,783        | 9,87  |
| SVAL 850-88  |       |
| 3,917        | 8,50  |
| SVAL 950-66  |       |
| 3,423        | 8,40  |
| 4,917        | 6,95  |
| SVAL 950-66  |       |
| 5,150        | 6,10  |
| 5,762        | 5,50  |
| SVAL 1000-99 |       |
| 2,484        | 19,00 |
| 4,042        | 15,20 |
| SVAL 1000-88 |       |
| 2,484        | 14,50 |
| 4,042        | 13,62 |
| SVAL 1000-88 |       |
| 4,500        | 11,60 |
| 4,750        | 11,10 |
| SVAL 1060-66 |       |
| 4,476        | 8,40  |
| 5,682        | 6,40  |
| SVAL 1060-66 |       |
| 5,913        | 5,80  |
| 6,478        | 5,40  |
| SVAL 1120-99 |       |
| 3,033 4,042  | 19,00 |
| SVAL 1120-99 |       |
| 4,217        | 16,40 |
| 4,455        | 15,70 |
| SVAL 1120-88 |       |
| 3,033        | 14,50 |

| kg | kW      | (BHP)   | kW      | (BHP)   | kW         | (BHP)   |
|----|---------|---------|---------|---------|------------|---------|
| -  | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
|    | 7250    | (9722)  | 10875   | (14583) | 14500      | (19444) |
|    | 4935    | (6618)  | 7402    | (9927)  | 9870       | (13236) |
| -  | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
|    | 4250    | (5699)  | 6375    | (8549)  | 8500       | (11398) |
| -  | 600 rpm |         | 750 rpm |         | 1000 rpm * |         |
|    | 5040    | (6759)  | 6300    | (8448)  | 8400       | (11264) |
|    | 4172    | (5595)  | 5216    | (6994)  | 6954       | (9325)  |
| -  | 600 rpm |         | 750 rpm |         | 1000 rpm * |         |
|    | 3660    | (4908)  | 4575    | (6135)  | 6100       | (8180)  |
|    | 3300    | (4425)  | 4125    | (5532)  | 5500       | (7376)  |
| -  | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
|    | 9500    | (12740) | 14250   | (19109) | 19000      | (25479) |
|    | 7600    | (10192) | 11400   | (15287) | 15200      | (20383) |
| -  | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
|    | 7250    | (9722)  | 10875   | (14583) | 14500      | (19444) |
|    | 6811    | (9134)  | 10216   | (13700) | 13622      | (18267) |
| -  | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
|    | 5800    | (7778)  | 8700    | (11667) | 11600      | (15556) |
|    | 5550    | (7443)  | 8325    | (11164) | 11100      | (14885) |
| -  | 600 rpm |         | 750 rpm |         | 1000 rpm * |         |
|    | 5040    | (6759)  | 6300    | (8448)  | 8400       | (11264) |
|    | 3840    | (5149)  | 4800    | (6437)  | 6400       | (8582)  |
| -  | 600 rpm |         | 750 rpm |         | 1000 rpm * |         |
|    | 3480    | (4667)  | 4350    | (5833)  | 5800       | (7778)  |
|    | 3240    | (4345)  | 4050    | (5431)  | 5400       | (7241)  |
| -  | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
|    | 9500    | (12740) | 14250   | (19109) | 19000      | (25479) |
| -  | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
|    | 8200    | (10996) | 12300   | (16494) | 16400      | (21992) |
|    | 7850    | (10527) | 11775   | (15790) | 15700      | (21054) |
| -  | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
|    | 7250    | (9722)  | 10875   | (14583) | 14500      | (19444) |

\* max. input speed



## Continuous Duty

Range of reduction ratios,  
italics and additional ratios on request

kW/rpm

| SVAL 1120-88 |       |
|--------------|-------|
| <i>4,455</i> | 14,00 |
| SVAL 1120-88 |       |
| <i>4,800</i> | 12,30 |
| <i>5,304</i> | 10,60 |
| SVAL 1200-66 |       |
| <i>5,083</i> | 8,40  |
| <i>6,429</i> | 7,80  |
| SVAL 1250-11 |       |
| <i>1,973</i> | 26,00 |
| <i>4,238</i> | 23,40 |



| kg | kW      | (BHP)   | kW      | (BHP)   | kW         | (BHP)   |
|----|---------|---------|---------|---------|------------|---------|
| -  | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
|    | 7000    | (9387)  | 10500   | (14080) | 14000      | (18774) |
| -  | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
|    | 6150    | (8247)  | 9225    | (12371) | 12300      | (16494) |
|    | 5300    | (7107)  | 7950    | (10661) | 10600      | (14215) |
| -  | 600 rpm |         | 750 rpm |         | 1000 rpm * |         |
|    | 5040    | (6759)  | 6300    | (8448)  | 8400       | (11264) |
|    | 4680    | (6276)  | 5850    | (7845)  | 7800       | (10460) |
| -  | 500 rpm |         | 750 rpm |         | 900 rpm *  |         |
|    | 13000   | (17433) | 19500   | (26150) | 23400      | (31379) |
|    | 11700   | (15690) | 17550   | (23535) | 21060      | (28241) |



# Continuous Duty

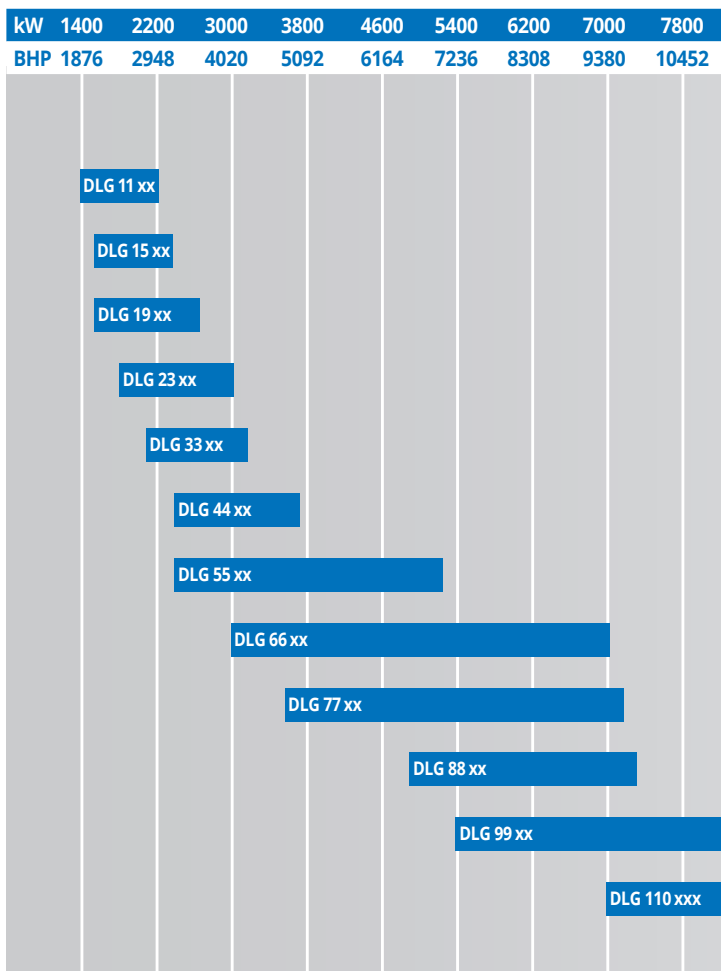
DLG 1113 – 110131

## Engine Power

Twin input / single output reduction gearbox.

- Special ratio
- Offset
- Dimension
- PTO/PTI

Available on request.







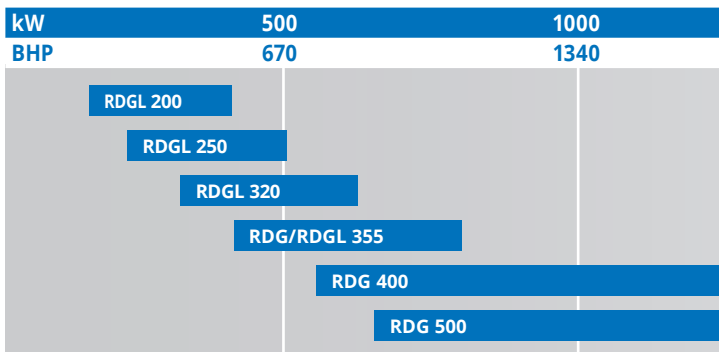
# Continuous Duty

## RDG/RDGL

### Engine Power

- Reduction gearbox with roller bearing for dredging application
- With or without clutch
- Vertically offset
- High operating reliability

With (RDGL) or without clutch (RDG)



|      | 1500 | 2000 |
|------|------|------|
| 2010 | 2680 |      |



## Medium Duty

Reduction ratios: bold = standard,  
italics and additional ratios on request

kW/rpm

| WAF 164L |       |       |  |      |
|----------|-------|-------|--|------|
| 3,964    | 4,560 | 5,043 |  | 0,23 |
| 5,950    |       |       |  | 0,21 |
| WAF 164  |       |       |  |      |
| 3,964    | 4,560 | 5,043 |  | 0,23 |
| 5,950    |       |       |  | 0,21 |
| WAF 244L |       |       |  |      |
| 2,037    | 2,538 |       |  | 0,29 |
| 2,957    |       |       |  | 0,27 |
| 3,522    |       |       |  | 0,25 |
| 3,952    |       |       |  | 0,23 |
| WAF 244  |       |       |  |      |
| 2,037    | 2,538 |       |  | 0,29 |
| 2,957    |       |       |  | 0,27 |
| 3,478    | 3,522 |       |  | 0,25 |
| 3,952    |       |       |  | 0,23 |
| WAF 264L |       |       |  |      |
| 3,519    | 4,083 | 4,500 |  | 0,29 |
| 5,050    |       |       |  | 0,27 |
| 5,476    |       |       |  | 0,26 |
| 5,800    |       |       |  | 0,24 |
| WAF 264  |       |       |  |      |
| 3,519    | 4,083 | 4,500 |  | 0,29 |
| 5,050    |       |       |  | 0,27 |
| 5,476    |       |       |  | 0,26 |
| 5,800    |       |       |  | 0,24 |
| WAF 274L |       |       |  |      |
| 6,115    | 6,400 |       |  | 0,29 |
| 7,043    |       |       |  | 0,27 |
| 7,409    |       |       |  | 0,25 |
| WAF 274  |       |       |  |      |
| 6,115    | 6,400 |       |  | 0,29 |

| kg  | kW       | (BHP) | kW       | (BHP) | kW         | (BHP) |
|-----|----------|-------|----------|-------|------------|-------|
| -   | 1600 rpm |       | 1800 rpm |       | 2100 rpm * |       |
|     | 368      | (493) | 414      | (555) | 483        | (648) |
|     | 336      | (451) | 378      | (507) | 441        | (591) |
| 525 | 1600 rpm |       | 1800 rpm |       | 2100 rpm * |       |
|     | 368      | (493) | 414      | (555) | 483        | (648) |
|     | 336      | (451) | 378      | (507) | 441        | (591) |
| 455 | 1600 rpm |       | 1800 rpm |       | 2100 rpm * |       |
|     | 464      | (622) | 522      | (700) | 609        | (817) |
|     | 432      | (579) | 486      | (652) | 567        | (760) |
|     | 400      | (536) | 450      | (603) | 525        | (704) |
|     | 368      | (493) | 414      | (555) | 483        | (648) |
| 455 | 1600 rpm |       | 1800 rpm |       | 2100 rpm * |       |
|     | 464      | (622) | 522      | (700) | 609        | (817) |
|     | 432      | (579) | 486      | (652) | 567        | (760) |
|     | 400      | (536) | 450      | (603) | 525        | (704) |
|     | 368      | (493) | 414      | (555) | 483        | (648) |
| 700 | 1600 rpm |       | 1800 rpm |       | 2100 rpm * |       |
|     | 464      | (622) | 522      | (700) | 609        | (817) |
|     | 432      | (579) | 486      | (652) | 567        | (760) |
|     | 416      | (558) | 468      | (628) | 546        | (732) |
|     | 384      | (515) | 432      | (579) | 504        | (676) |
| 700 | 1600 rpm |       | 1800 rpm |       | 2100 rpm * |       |
|     | 464      | (622) | 522      | (700) | 609        | (817) |
|     | 432      | (579) | 486      | (652) | 567        | (760) |
|     | 416      | (558) | 468      | (628) | 546        | (732) |
|     | 384      | (515) | 432      | (579) | 504        | (676) |
| 725 | 1600 rpm |       | 1800 rpm |       | 2100 rpm * |       |
|     | 464      | (622) | 522      | (700) | 609        | (817) |
|     | 432      | (579) | 486      | (652) | 567        | (760) |
|     | 400      | (536) | 450      | (603) | 525        | (704) |
| 725 | 1600 rpm |       | 1800 rpm |       | 2100 rpm * |       |
|     | 464      | (622) | 522      | (700) | 609        | (817) |



## Medium Duty

Reduction ratios: bold = standard,  
italics and additional ratios on request

kW/rpm

| WAF 274                                   |  |  |  |  |  |      |
|-------------------------------------------|--|--|--|--|--|------|
| 7,043                                     |  |  |  |  |  | 0,27 |
| 7,409                                     |  |  |  |  |  | 0,25 |
| WAF 344L                                  |  |  |  |  |  |      |
| 1,972    2,452    2,963                   |  |  |  |  |  | 0,36 |
| 3,571                                     |  |  |  |  |  | 0,33 |
| 4,053                                     |  |  |  |  |  | 0,31 |
| WAF 344                                   |  |  |  |  |  |      |
| 1,972    2,452    2,963                   |  |  |  |  |  | 0,36 |
| 3,280    3,571                            |  |  |  |  |  | 0,33 |
| 4,053                                     |  |  |  |  |  | 0,31 |
| WAF 364L                                  |  |  |  |  |  |      |
| 3,485    3,933    4,481    4,920    5,435 |  |  |  |  |  | 0,36 |
| 6,048                                     |  |  |  |  |  | 0,35 |
| WAF 364                                   |  |  |  |  |  |      |
| 3,485    3,933    4,481    4,920    5,435 |  |  |  |  |  | 0,36 |
| 6,048                                     |  |  |  |  |  | 0,35 |
| WAF 374L                                  |  |  |  |  |  |      |
| 6,120    6,417    7,091                   |  |  |  |  |  | 0,36 |
| 7,476                                     |  |  |  |  |  | 0,33 |
| WAF 374                                   |  |  |  |  |  |      |
| 6,120    6,417    6,739    7,091          |  |  |  |  |  | 0,36 |
| 7,476                                     |  |  |  |  |  | 0,33 |
| WAF 444L                                  |  |  |  |  |  |      |
| 2,962                                     |  |  |  |  |  | 0,46 |
| 3,522                                     |  |  |  |  |  | 0,42 |
| 3,952                                     |  |  |  |  |  | 0,40 |
| WAF 444                                   |  |  |  |  |  |      |
| 2,962                                     |  |  |  |  |  | 0,46 |
| 3,522                                     |  |  |  |  |  | 0,42 |
| 3,952                                     |  |  |  |  |  | 0,40 |
| WAF 464L                                  |  |  |  |  |  |      |
| 4,000    4,577    5,042    5,591          |  |  |  |  |  | 0,46 |



| kg   | kW       | (BHP) | kW       | (BHP)  | kW         | (BHP)  |
|------|----------|-------|----------|--------|------------|--------|
| 725  | 1600 rpm |       | 1800 rpm |        | 2100 rpm * |        |
|      | 432      | (579) | 486      | (652)  | 567        | (760)  |
|      | 400      | (536) | 450      | (603)  | 525        | (704)  |
| 730  | 1600 rpm |       | 1800 rpm |        | 2100 rpm * |        |
|      | 576      | (772) | 648      | (869)  | 756        | (1014) |
|      | 528      | (708) | 594      | (797)  | 693        | (929)  |
|      | 496      | (665) | 558      | (748)  | 651        | (873)  |
| 730  | 1600 rpm |       | 1800 rpm |        | 2100 rpm * |        |
|      | 576      | (772) | 648      | (869)  | 756        | (1014) |
|      | 528      | (708) | 594      | (797)  | 693        | (929)  |
|      | 496      | (665) | 558      | (748)  | 651        | (873)  |
| 810  | 1600 rpm |       | 1800 rpm |        | 2100 rpm * |        |
|      | 576      | (772) | 648      | (869)  | 756        | (1014) |
|      | 560      | (751) | 630      | (845)  | 735        | (986)  |
| 810  | 1600 rpm |       | 1800 rpm |        | 2100 rpm * |        |
|      | 576      | (772) | 648      | (869)  | 756        | (1014) |
|      | 560      | (751) | 630      | (845)  | 735        | (986)  |
| 1200 | 1600 rpm |       | 1800 rpm |        | 2100 rpm * |        |
|      | 576      | (772) | 648      | (869)  | 756        | (1014) |
|      | 528      | (708) | 594      | (797)  | 693        | (929)  |
| 1200 | 1600 rpm |       | 1800 rpm |        | 2100 rpm * |        |
|      | 576      | (772) | 648      | (869)  | 756        | (1014) |
|      | 528      | (708) | 594      | (797)  | 693        | (929)  |
| 760  | 1600 rpm |       | 1800 rpm |        | 2100 rpm * |        |
|      | 736      | (987) | 828      | (1110) | 966        | (1295) |
|      | 672      | (901) | 756      | (1014) | 882        | (1183) |
|      | 640      | (858) | 720      | (966)  | 840        | (1126) |
| 760  | 1600 rpm |       | 1800 rpm |        | 2100 rpm * |        |
|      | 736      | (987) | 828      | (1110) | 966        | (1295) |
|      | 672      | (901) | 756      | (1014) | 882        | (1183) |
|      | 640      | (858) | 720      | (966)  | 840        | (1126) |
| 940  | 1600 rpm |       | 1800 rpm |        | 2100 rpm * |        |
|      | 736      | (987) | 828      | (1110) | 966        | (1295) |

\* max. input speed



## Medium Duty

Reduction ratios: bold = standard,  
italics and additional ratios on request

kW/rpm

| WAF 464L     |              |              |              |  |      |
|--------------|--------------|--------------|--------------|--|------|
| <b>5,905</b> |              |              |              |  | 0,45 |
| WAF 464      |              |              |              |  |      |
| <b>4,000</b> | <b>4,577</b> | <b>5,042</b> | <b>5,591</b> |  | 0,46 |
| <b>5,905</b> |              |              |              |  | 0,45 |
| WAF 474L     |              |              |              |  |      |
| <b>6,120</b> | <b>6,417</b> | <b>7,091</b> |              |  | 0,46 |
| <b>7,476</b> |              |              |              |  | 0,45 |
| WAF 474      |              |              |              |  |      |
| <b>6,120</b> | <b>6,417</b> | <b>7,091</b> |              |  | 0,46 |
| <b>7,476</b> |              |              |              |  | 0,45 |
| WAF 563L     |              |              |              |  |      |
| <b>4,545</b> | <b>5,050</b> | <b>5,421</b> |              |  | 0,57 |
| <b>5,947</b> |              |              |              |  | 0,55 |
| WAF 563      |              |              |              |  |      |
| <b>4,545</b> | <b>5,050</b> | <b>5,421</b> |              |  | 0,59 |
| <b>5,947</b> |              |              |              |  | 0,55 |

| kg   | kW              | (BHP)  | kW              | (BHP)  | kW                | (BHP)  |
|------|-----------------|--------|-----------------|--------|-------------------|--------|
| 940  | <b>1600 rpm</b> |        | <b>1800 rpm</b> |        | <b>2100 rpm *</b> |        |
|      | 720             | (966)  | 810             | (1086) | 945               | (1267) |
| 940  | <b>1600 rpm</b> |        | <b>1800 rpm</b> |        | <b>2100 rpm *</b> |        |
|      | 736             | (987)  | 828             | (1110) | 966               | (1295) |
|      | 720             | (966)  | 810             | (1086) | 945               | (1267) |
| 1830 | <b>1600 rpm</b> |        | <b>1800 rpm</b> |        | <b>2100 rpm *</b> |        |
|      | 736             | (987)  | 828             | (1110) | 966               | (1295) |
|      | 720             | (966)  | 810             | (1086) | 945               | (1267) |
| 1830 | <b>1600 rpm</b> |        | <b>1800 rpm</b> |        | <b>2100 rpm *</b> |        |
|      | 736             | (987)  | 828             | (1110) | 966               | (1295) |
|      | 720             | (966)  | 810             | (1086) | 945               | (1267) |
| 1445 | <b>1600 rpm</b> |        | <b>1800 rpm</b> |        | <b>2100 rpm *</b> |        |
|      | 912             | (1223) | 1026            | (1376) | 1197              | (1605) |
|      | 880             | (1180) | 990             | (1328) | 1155              | (1549) |
| 1445 | <b>1600 rpm</b> |        | <b>1800 rpm</b> |        | <b>2100 rpm *</b> |        |
|      | 944             | (1266) | 1062            | (1424) | 1239              | (1661) |
|      | 880             | (1180) | 990             | (1328) | 1155              | (1549) |



## Medium Duty

Reduction ratios: bold = standard,  
italics and additional ratios on request

kW/rpm

| WVS 234/1    |              |              |       |  |      |
|--------------|--------------|--------------|-------|--|------|
| 1,179        | 1,500        | <b>2,036</b> | 2,542 |  | 0,23 |
| 2,864        |              |              |       |  | 0,21 |
| WVS 334      |              |              |       |  |      |
| <b>1,122</b> | <b>1,485</b> |              |       |  | 0,31 |
| <b>2,037</b> |              |              |       |  | 0,28 |
| <b>2,407</b> | <b>2,538</b> |              |       |  | 0,25 |
| <b>2,956</b> |              |              |       |  | 0,21 |
| <b>3,522</b> |              |              |       |  | 0,21 |
| WVS 430/1    |              |              |       |  |      |
| <b>1,485</b> | <b>2,037</b> | <b>2,458</b> |       |  | 0,52 |
| <b>2,773</b> | <b>2,905</b> |              |       |  | 0,40 |
| <b>3,286</b> | <b>3,316</b> |              |       |  | 0,37 |
| 3,550        |              |              |       |  | 0,35 |
| WVS 730/1L   |              |              |       |  |      |
| <b>2,036</b> | <b>2,542</b> | <b>3,048</b> |       |  | 0,70 |
| <b>3,542</b> |              |              |       |  | 0,60 |
| <b>3,954</b> |              |              |       |  | 0,55 |
| WVS 730/1    |              |              |       |  |      |
| <b>2,036</b> | <b>2,269</b> | <b>2,542</b> |       |  | 0,85 |
| <b>3,048</b> |              |              |       |  | 0,80 |
| <b>3,542</b> |              |              |       |  | 0,64 |
| <b>3,954</b> |              |              |       |  | 0,60 |
| WVS 930/1L   |              |              |       |  |      |
| 1,525        | 2,032        | 2,482        |       |  | 1,00 |
| 3,044        |              |              |       |  | 0,98 |
| 3,954        |              |              |       |  | 0,75 |
| WVS 930/1    |              |              |       |  |      |
| 1,525        | 2,032        | 2,482        |       |  | 1,20 |
| 3,044        |              |              |       |  | 1,10 |
| 3,954        |              |              |       |  | 0,80 |

| kg  | kW       | (BHP)  | kW       | (BHP)  | kW         | (BHP)  |
|-----|----------|--------|----------|--------|------------|--------|
| 295 | 1800 rpm |        | 2100 rpm |        | 2600 rpm * |        |
|     | 414      | (555)  | 483      | (648)  | 598        | (802)  |
|     | 378      | (507)  | 441      | (591)  | 546        | (732)  |
| 340 | 1800 rpm |        | 2100 rpm |        | 2600 rpm * |        |
|     | 549      | (736)  | 640      | (859)  | 793        | (1063) |
|     | 495      | (664)  | 578      | (774)  | 715        | (959)  |
|     | 450      | (603)  | 525      | (704)  | 650        | (872)  |
|     | 378      | (507)  | 441      | (591)  | 546        | (732)  |
|     | 369      | (495)  | 430      | (577)  | 533        | (715)  |
| 490 | 1800 rpm |        | 2100 rpm |        | 2600 rpm * |        |
|     | 936      | (1255) | 1092     | (1464) | 1352       | (1813) |
|     | 720      | (966)  | 840      | (1126) | 1040       | (1395) |
|     | 666      | (893)  | 777      | (1042) | 962        | (1290) |
|     | 630      | (845)  | 735      | (986)  | 910        | (1220) |
| 725 | 1800 rpm |        | 2100 rpm |        | 2500 rpm * |        |
|     | 1260     | (1690) | 1470     | (1971) | 1750       | (2347) |
|     | 1080     | (1448) | 1260     | (1690) | 1500       | (2011) |
|     | 990      | (1328) | 1155     | (1549) | 1375       | (1844) |
| 725 | 1800 rpm |        | 2100 rpm |        | 2500 rpm * |        |
|     | 1530     | (2052) | 1785     | (2394) | 2125       | (2850) |
|     | 1440     | (1931) | 1680     | (2253) | 2000       | (2682) |
|     | 1152     | (1545) | 1344     | (1802) | 1600       | (2146) |
|     | 1080     | (1448) | 1260     | (1690) | 1500       | (2011) |
| 950 | 1800 rpm |        | 2100 rpm |        | 2500 rpm * |        |
|     | 1800     | (2414) | 2100     | (2816) | 2500       | (3352) |
|     | 1764     | (2366) | 2058     | (2760) | 2450       | (3285) |
|     | 1350     | (1810) | 1575     | (2112) | 1875       | (2514) |
| 950 | 1800 rpm |        | 2100 rpm |        | 2500 rpm * |        |
|     | 2160     | (2897) | 2520     | (3379) | 3000       | (4023) |
|     | 1980     | (2655) | 2310     | (3098) | 2750       | (3688) |
|     | 1440     | (1931) | 1680     | (2253) | 2000       | (2682) |



## Medium Duty

Reduction ratios: bold = standard,  
italics and additional ratios on request

kW/rpm

| WVS 1130L    |              |       |       |       |      |
|--------------|--------------|-------|-------|-------|------|
| 1,512        | 2,029        | 2,433 | 2,962 |       | 1,60 |
| 3,478        |              |       |       |       | 1,45 |
| 3,905        |              |       |       |       | 1,25 |
| WVS 1130     |              |       |       |       |      |
| 1,512        | 2,029        | 2,433 | 2,962 |       | 1,70 |
| 3,478        |              |       |       |       | 1,62 |
| 3,905        |              |       |       |       | 1,38 |
| WVS 1540     |              |       |       |       |      |
| <b>2,952</b> | <b>3,368</b> |       |       |       | 1,50 |
| 3,947        |              |       |       |       | 1,45 |
| 4,350        |              |       |       |       | 1,36 |
| 4,632        |              |       |       |       | 1,29 |
| WVS 1930     |              |       |       |       |      |
| 1,410        | 2,032        | 2,458 | 2,952 |       | 1,85 |
| 3,368        |              |       |       |       | 1,70 |
| 3,864        |              |       |       |       | 1,48 |
| WVS 2230     |              |       |       |       |      |
| 1,513        | 2,025        | 2,414 | 2,630 | 2,920 | 2,25 |
| WVS 2240     |              |       |       |       |      |
| 3,039        | 3,375        | 3,565 | 3,818 |       | 2,25 |
| 4,130        |              |       |       |       | 2,00 |

| kg   | kW       | (BHP)  | kW       | (BHP)  | kW         | (BHP)  |
|------|----------|--------|----------|--------|------------|--------|
| 1600 | 1600 rpm |        | 1800 rpm |        | 2300 rpm * |        |
|      | 2560     | (3433) | 2880     | (3862) | 3680       | (4935) |
|      | 2320     | (3111) | 2610     | (3500) | 3335       | (4472) |
|      | 2000     | (2682) | 2250     | (3017) | 2875       | (3855) |
| 1600 | 1600 rpm |        | 1800 rpm |        | 2300 rpm * |        |
|      | 2720     | (3648) | 3060     | (4103) | 3910       | (5243) |
|      | 2592     | (3476) | 2916     | (3910) | 3726       | (4997) |
|      | 2208     | (2961) | 2484     | (3331) | 3174       | (4256) |
| 1450 | 1600 rpm |        | 1800 rpm |        | 2300 rpm * |        |
|      | 2400     | (3218) | 2700     | (3621) | 3450       | (4626) |
|      | 2323     | (3115) | 2614     | (3505) | 3340       | (4478) |
|      | 2171     | (2912) | 2443     | (3276) | 3121       | (4185) |
|      | 2056     | (2757) | 2313     | (3102) | 2956       | (3963) |
| 1550 | 1600 rpm |        | 1800 rpm |        | 2300 rpm * |        |
|      | 2960     | (3969) | 3330     | (4466) | 4255       | (5706) |
|      | 2720     | (3648) | 3060     | (4103) | 3910       | (5243) |
|      | 2374     | (3184) | 2671     | (3582) | 3413       | (4577) |
| 2150 | 1600 rpm |        | 1800 rpm |        | 2100 rpm * |        |
|      | 3600     | (4828) | 4050     | (5431) | 4725       | (6336) |
| 2185 | 1600 rpm |        | 1800 rpm |        | 2100 rpm * |        |
|      | 3600     | (4828) | 4050     | (5431) | 4725       | (6336) |
|      | 3200     | (4291) | 3600     | (4828) | 4200       | (5632) |



## Medium Duty

Reduction ratios: bold = standard,  
italics and additional ratios on request

kW/rpm

| AF 264 |       |       |       |       | kW/rpm |
|--------|-------|-------|-------|-------|--------|
| 3,519  | 4,083 | 4,500 |       |       |        |
| 5,050  |       |       |       |       |        |
| 5,476  |       |       |       |       |        |
| 5,800  |       |       |       |       |        |
| AF 344 |       |       |       |       | kW/rpm |
| 1,972  | 2,452 | 2,963 |       |       |        |
| 3,280  | 3,571 |       |       |       |        |
| 4,053  |       |       |       |       |        |
| AF 364 |       |       |       |       | kW/rpm |
| 3,485  | 3,933 | 4,481 | 4,920 | 5,435 |        |
| 6,048  |       |       |       |       | 0,35   |



| kg  | kW       | (BHP) | kW       | (BHP) | kW         | (BHP)  |
|-----|----------|-------|----------|-------|------------|--------|
| 670 | 1600 rpm |       | 1800 rpm |       | 2100 rpm * |        |
|     | 464      | (622) | 522      | (700) | 609        | (817)  |
|     | 432      | (579) | 486      | (652) | 567        | (760)  |
|     | 416      | (558) | 468      | (628) | 546        | (732)  |
|     | 384      | (515) | 432      | (579) | 504        | (676)  |
| 700 | 1600 rpm |       | 1800 rpm |       | 2100 rpm * |        |
|     | 576      | (772) | 648      | (869) | 756        | (1014) |
|     | 528      | (708) | 594      | (797) | 693        | (929)  |
|     | 496      | (665) | 558      | (748) | 651        | (873)  |
| 770 | 1600 rpm |       | 1800 rpm |       | 2100 rpm * |        |
|     | 576      | (772) | 648      | (869) | 756        | (1014) |
|     | 560      | (751) | 630      | (845) | 735        | (986)  |



## Medium Duty

Reduction ratios: bold = standard,  
italics and additional ratios on request

kW/rpm

| WLS 234/1 indicated max. rpm on request |              |              |       |  |      |
|-----------------------------------------|--------------|--------------|-------|--|------|
| 1,179                                   | 1,500        | <b>2,036</b> | 2,542 |  | 0,23 |
| 2,864                                   |              |              |       |  | 0,21 |
| WLS 334 indicated max. rpm on request   |              |              |       |  |      |
| 1,122                                   | <b>1,485</b> |              |       |  | 0,31 |
| 2,037                                   |              |              |       |  | 0,28 |
| 2,407                                   | 2,538        |              |       |  | 0,25 |
| 2,956                                   |              |              |       |  | 0,21 |
| 3,522                                   |              |              |       |  | 0,21 |
| WLS 430/1 indicated max. rpm on request |              |              |       |  |      |
| <b>1,485</b>                            | <b>2,037</b> | <b>2,458</b> |       |  | 0,52 |
| 2,773                                   | 2,905        |              |       |  | 0,40 |
| 3,286                                   | 3,316        |              |       |  | 0,37 |
| 3,550                                   |              |              |       |  | 0,35 |
| WLS 730/1 indicated max. rpm on request |              |              |       |  |      |
| <b>2,036</b>                            | <b>2,269</b> | <b>2,542</b> |       |  | 0,85 |
| 3,048                                   |              |              |       |  | 0,80 |
| <b>3,542</b>                            |              |              |       |  | 0,64 |
| <b>3,954</b>                            |              |              |       |  | 0,60 |
| WLS 930/1 indicated max. rpm on request |              |              |       |  |      |
| 1,525                                   | 2,032        | 2,482        |       |  | 1,20 |
| 3,044                                   |              |              |       |  | 1,10 |
| 3,954                                   |              |              |       |  | 0,80 |
| WLS 1130 indicated max. rpm on request  |              |              |       |  |      |
| 1,512                                   | 2,029        | 2,433        | 2,962 |  | 1,70 |
| 3,478                                   |              |              |       |  | 1,62 |
| 3,905                                   |              |              |       |  | 1,38 |
| WLS 1540 indicated max. rpm on request  |              |              |       |  |      |
| 2,952                                   | 3,368        |              |       |  | 1,50 |
| 3,947                                   |              |              |       |  | 1,45 |
| 4,350                                   |              |              |       |  | 1,36 |
| 4,632                                   |              |              |       |  | 1,29 |

| kg   | kW       | (BHP)  | kW       | (BHP)  | kW         | (BHP)  |
|------|----------|--------|----------|--------|------------|--------|
| 295  | 1800 rpm |        | 2100 rpm |        | 2600 rpm * |        |
|      | 414      | (555)  | 483      | (648)  | 598        | (802)  |
|      | 378      | (507)  | 441      | (591)  | 546        | (732)  |
| 340  | 1800 rpm |        | 2100 rpm |        | 2600 rpm * |        |
|      | 549      | (736)  | 640      | (859)  | 793        | (1063) |
|      | 495      | (664)  | 578      | (774)  | 715        | (959)  |
|      | 450      | (603)  | 525      | (704)  | 650        | (872)  |
|      | 378      | (507)  | 441      | (591)  | 546        | (732)  |
|      | 369      | (495)  | 430      | (577)  | 533        | (715)  |
| 490  | 1800 rpm |        | 2100 rpm |        | 2600 rpm * |        |
|      | 936      | (1255) | 1092     | (1464) | 1352       | (1813) |
|      | 720      | (966)  | 840      | (1126) | 1040       | (1395) |
|      | 666      | (893)  | 777      | (1042) | 962        | (1290) |
|      | 630      | (845)  | 735      | (986)  | 910        | (1220) |
| 725  | 1800 rpm |        | 2100 rpm |        | 2500 rpm * |        |
|      | 1530     | (2052) | 1785     | (2394) | 2125       | (2850) |
|      | 1440     | (1931) | 1680     | (2253) | 2000       | (2682) |
|      | 1152     | (1545) | 1344     | (1802) | 1600       | (2146) |
|      | 1080     | (1448) | 1260     | (1690) | 1500       | (2011) |
| 950  | 1800 rpm |        | 2100 rpm |        | 2500 rpm * |        |
|      | 2160     | (2897) | 2520     | (3379) | 3000       | (4023) |
|      | 1980     | (2655) | 2310     | (3098) | 2750       | (3688) |
|      | 1440     | (1931) | 1680     | (2253) | 2000       | (2682) |
| 1600 | 1600 rpm |        | 1800 rpm |        | 2300 rpm * |        |
|      | 2720     | (3648) | 3060     | (4103) | 3910       | (5243) |
|      | 2592     | (3476) | 2916     | (3910) | 3726       | (4997) |
|      | 2208     | (2961) | 2484     | (3331) | 3174       | (4256) |
| 1450 | 1600 rpm |        | 1800 rpm |        | 2300 rpm * |        |
|      | 2400     | (3218) | 2700     | (3621) | 3450       | (4626) |
|      | 2323     | (3115) | 2614     | (3505) | 3340       | (4478) |
|      | 2171     | (2912) | 2443     | (3276) | 3121       | (4185) |
|      | 2056     | (2757) | 2313     | (3102) | 2956       | (3963) |



## Medium Duty

Reduction ratios: bold = standard,  
italics and additional ratios on request

kW/rpm

| WLS 1930 indicated max. rpm on request |              |              |              |  |      |
|----------------------------------------|--------------|--------------|--------------|--|------|
| <i>1,410</i>                           | <i>2,032</i> | <i>2,458</i> | <i>2,952</i> |  | 1,85 |
| <b>3,368</b>                           |              |              |              |  | 1,70 |
| <i>3,864</i>                           |              |              |              |  | 1,48 |

| kg   | kW       | (BHP)  | kW       | (BHP)  | kW         | (BHP)  |
|------|----------|--------|----------|--------|------------|--------|
| 1550 | 1600 rpm |        | 1800 rpm |        | 2300 rpm * |        |
|      | 2960     | (3969) | 3330     | (4466) | 4255       | (5706) |
|      | 2720     | (3648) | 3060     | (4103) | 3910       | (5243) |
|      | 2374     | (3184) | 2671     | (3582) | 3413       | (4577) |



## Medium Duty

Reduction ratios: bold = standard,  
italics and additional ratios on request

kW/rpm

| VLJ 430      |              |              |              |              |  | kW/rpm |
|--------------|--------------|--------------|--------------|--------------|--|--------|
| <b>1,306</b> | <b>2,037</b> | <b>2,458</b> |              |              |  |        |
| <b>2,905</b> |              |              |              |              |  | 0,52   |
|              |              |              |              |              |  | 0,40   |
| VLJ 730/1    |              |              |              |              |  | kW/rpm |
| <i>1,539</i> | <i>2,036</i> | <b>2,542</b> |              |              |  |        |
| <b>3,048</b> |              |              |              |              |  | 0,75   |
|              |              |              |              |              |  | 0,71   |
| VLJ 930/1    |              |              |              |              |  | kW/rpm |
| <b>1,186</b> | <i>1,525</i> | <b>1,725</b> | <b>1,849</b> | <i>2,032</i> |  |        |
| <b>2,357</b> | <i>2,482</i> |              |              |              |  | 1,10   |
| <i>3,044</i> |              |              |              |              |  | 1,05   |
|              |              |              |              |              |  | 0,89   |

| kg  | kW       | (BHP)  | kW       | (BHP)  | kW         | (BHP)  |
|-----|----------|--------|----------|--------|------------|--------|
| 360 | 1600 rpm |        | 1800 rpm |        | 2200 rpm * |        |
|     | 832      | (1116) | 936      | (1255) | 1144       | (1534) |
|     | 640      | (858)  | 720      | (966)  | 880        | (1180) |
| 560 | 1600 rpm |        | 1800 rpm |        | 2200 rpm * |        |
|     | 1200     | (1609) | 1350     | (1810) | 1650       | (2213) |
|     | 1136     | (1523) | 1278     | (1714) | 1562       | (2095) |
| 740 | 1600 rpm |        | 1800 rpm |        | 2200 rpm * |        |
|     | 1760     | (2360) | 1980     | (2655) | 2420       | (3245) |
|     | 1680     | (2253) | 1890     | (2534) | 2310       | (3098) |
|     | 1424     | (1910) | 1602     | (2148) | 1958       | (2626) |



# Light Duty

Reduction ratios: bold = standard,  
italics and additional ratios on request

kW/rpm

| WAF 164L |       |       |  |      |
|----------|-------|-------|--|------|
| 3,964    | 4,560 | 5,043 |  | 0,24 |
| 5,950    |       |       |  | 0,22 |
| WAF 164  |       |       |  |      |
| 3,964    | 4,560 | 5,043 |  | 0,24 |
| 5,950    |       |       |  | 0,22 |
| WAF 244L |       |       |  |      |
| 2,037    | 2,538 |       |  | 0,29 |
| 2,957    |       |       |  | 0,28 |
| 3,522    |       |       |  | 0,26 |
| 3,952    |       |       |  | 0,24 |
| WAF 244  |       |       |  |      |
| 2,037    | 2,538 |       |  | 0,29 |
| 2,957    |       |       |  | 0,28 |
| 3,522    |       |       |  | 0,26 |
| 3,478    |       |       |  | 0,26 |
| 3,952    |       |       |  | 0,24 |
| WAF 264L |       |       |  |      |
| 3,519    | 4,083 | 4,500 |  | 0,29 |
| 5,050    |       |       |  | 0,28 |
| 5,476    |       |       |  | 0,27 |
| 5,800    |       |       |  | 0,25 |
| WAF 264  |       |       |  |      |
| 3,519    | 4,083 | 4,500 |  | 0,29 |
| 5,050    |       |       |  | 0,28 |
| 5,476    |       |       |  | 0,27 |
| 5,800    |       |       |  | 0,25 |
| WAF 274L |       |       |  |      |
| 6,115    | 6,400 |       |  | 0,29 |
| 7,043    |       |       |  | 0,28 |
| 7,409    |       |       |  | 0,26 |



| kg  | kW       | (BHP) | kW       | (BHP) | kW         | (BHP) |
|-----|----------|-------|----------|-------|------------|-------|
| 525 | 1600 rpm |       | 1800 rpm |       | 2100 rpm * |       |
|     | 384      | (515) | 432      | (579) | 504        | (676) |
|     | 352      | (472) | 396      | (531) | 462        | (620) |
| 525 | 1600 rpm |       | 1800 rpm |       | 2100 rpm * |       |
|     | 384      | (515) | 432      | (579) | 504        | (676) |
|     | 352      | (472) | 396      | (531) | 462        | (620) |
| 455 | 1600 rpm |       | 1800 rpm |       | 2100 rpm * |       |
|     | 464      | (622) | 522      | (700) | 609        | (817) |
|     | 448      | (601) | 504      | (676) | 588        | (789) |
|     | 416      | (558) | 468      | (628) | 546        | (732) |
|     | 384      | (515) | 432      | (579) | 504        | (676) |
| 455 | 1600 rpm |       | 1800 rpm |       | 2100 rpm * |       |
|     | 469      | (629) | 527      | (707) | 615        | (825) |
|     | 448      | (601) | 504      | (676) | 588        | (789) |
|     | 416      | (558) | 468      | (628) | 546        | (732) |
|     | 411      | (551) | 463      | (620) | 540        | (724) |
|     | 384      | (515) | 432      | (579) | 504        | (676) |
| 700 | 1600 rpm |       | 1800 rpm |       | 2100 rpm * |       |
|     | 464      | (622) | 522      | (700) | 609        | (817) |
|     | 448      | (601) | 504      | (676) | 588        | (789) |
|     | 432      | (579) | 486      | (652) | 567        | (760) |
|     | 400      | (536) | 450      | (603) | 525        | (704) |
| 700 | 1600 rpm |       | 1800 rpm |       | 2100 rpm * |       |
|     | 469      | (629) | 527      | (707) | 615        | (825) |
|     | 448      | (601) | 504      | (676) | 588        | (789) |
|     | 432      | (579) | 486      | (652) | 567        | (760) |
|     | 400      | (536) | 450      | (603) | 525        | (704) |
| 725 | 1600 rpm |       | 1800 rpm |       | 2100 rpm * |       |
|     | 464      | (622) | 522      | (700) | 609        | (817) |
|     | 448      | (601) | 504      | (676) | 588        | (789) |
|     | 416      | (558) | 468      | (628) | 546        | (732) |



# Light Duty

Reduction ratios: bold = standard,  
italics and additional ratios on request

kW/rpm

| WAF 274      |              |              |              |              |      |
|--------------|--------------|--------------|--------------|--------------|------|
| 6,115        | <b>6,400</b> |              |              |              | 0,29 |
| <b>7,043</b> |              |              |              |              | 0,28 |
| <b>7,409</b> |              |              |              |              | 0,26 |
| WAF 344L     |              |              |              |              |      |
| <b>1,972</b> | <b>2,452</b> | <b>2,963</b> |              |              | 0,37 |
| <b>3,571</b> |              |              |              |              | 0,34 |
| <b>4,053</b> |              |              |              |              | 0,32 |
| WAF 344      |              |              |              |              |      |
| <b>1,972</b> | <b>2,452</b> | <b>2,963</b> |              |              | 0,37 |
| <b>3,280</b> | <b>3,571</b> |              |              |              | 0,34 |
| <b>4,053</b> |              |              |              |              | 0,32 |
| WAF 364L     |              |              |              |              |      |
| <b>3,485</b> | <b>3,933</b> | <b>4,481</b> | <b>4,920</b> | <b>5,435</b> | 0,37 |
| <b>6,048</b> |              |              |              |              | 0,36 |
| WAF 364      |              |              |              |              |      |
| <b>3,485</b> | <b>3,933</b> | <b>4,481</b> | <b>4,920</b> | <b>5,435</b> | 0,37 |
| <b>6,048</b> |              |              |              |              | 0,36 |
| WAF 374L     |              |              |              |              |      |
| <b>6,120</b> | <b>6,417</b> | <b>7,091</b> |              |              | 0,37 |
| <b>7,476</b> |              |              |              |              | 0,34 |
| WAF 374      |              |              |              |              |      |
| <b>6,120</b> | <b>6,417</b> | <b>6,739</b> | <b>7,091</b> |              | 0,37 |
| <b>7,476</b> |              |              |              |              | 0,34 |
| WAF 444L     |              |              |              |              |      |
| <b>2,962</b> |              |              |              |              | 0,46 |
| <b>3,522</b> |              |              |              |              | 0,44 |
| <b>3,952</b> |              |              |              |              | 0,41 |
| WAF 444      |              |              |              |              |      |
| <b>2,962</b> |              |              |              |              | 0,47 |
| <b>3,522</b> |              |              |              |              | 0,44 |
| <b>3,952</b> |              |              |              |              | 0,41 |

| kg   | kW       | (BHP)  | kW       | (BHP)  | kW         | (BHP)  |
|------|----------|--------|----------|--------|------------|--------|
| 725  | 1600 rpm |        | 1800 rpm |        | 2100 rpm * |        |
|      | 469      | (629)  | 527      | (707)  | 615        | (825)  |
|      | 448      | (601)  | 504      | (676)  | 588        | (789)  |
|      | 416      | (558)  | 468      | (628)  | 546        | (732)  |
| 730  | 1600 rpm |        | 1800 rpm |        | 2100 rpm * |        |
|      | 592      | (794)  | 666      | (893)  | 777        | (1042) |
|      | 544      | (730)  | 612      | (821)  | 714        | (957)  |
|      | 512      | (687)  | 576      | (772)  | 672        | (901)  |
| 730  | 1600 rpm |        | 1800 rpm |        | 2100 rpm * |        |
|      | 592      | (794)  | 666      | (893)  | 777        | (1042) |
|      | 544      | (730)  | 612      | (821)  | 714        | (957)  |
|      | 512      | (687)  | 576      | (772)  | 672        | (901)  |
| 810  | 1600 rpm |        | 1800 rpm |        | 2100 rpm * |        |
|      | 592      | (794)  | 666      | (893)  | 777        | (1042) |
|      | 576      | (772)  | 648      | (869)  | 756        | (1014) |
| 810  | 1600 rpm |        | 1800 rpm |        | 2100 rpm * |        |
|      | 592      | (794)  | 666      | (893)  | 777        | (1042) |
|      | 576      | (772)  | 648      | (869)  | 756        | (1014) |
| 1200 | 1600 rpm |        | 1800 rpm |        | 2100 rpm * |        |
|      | 592      | (794)  | 666      | (893)  | 777        | (1042) |
|      | 544      | (730)  | 612      | (821)  | 714        | (957)  |
| 1200 | 1600 rpm |        | 1800 rpm |        | 2100 rpm * |        |
|      | 592      | (794)  | 666      | (893)  | 777        | (1042) |
|      | 544      | (730)  | 612      | (821)  | 714        | (957)  |
| 760  | 1600 rpm |        | 1800 rpm |        | 2100 rpm * |        |
|      | 736      | (987)  | 828      | (1110) | 966        | (1295) |
|      | 704      | (944)  | 792      | (1062) | 924        | (1239) |
|      | 656      | (880)  | 738      | (990)  | 861        | (1155) |
| 760  | 1600 rpm |        | 1800 rpm |        | 2100 rpm * |        |
|      | 752      | (1008) | 846      | (1134) | 987        | (1324) |
|      | 704      | (944)  | 792      | (1062) | 924        | (1239) |
|      | 656      | (880)  | 738      | (990)  | 861        | (1155) |



## Light Duty

Reduction ratios: bold = standard,  
italics and additional ratios on request

kW/rpm

| WAF 464L |       |       |       |       |      |
|----------|-------|-------|-------|-------|------|
| 4,000    | 4,577 | 5,042 | 5,591 | 5,905 | 0,46 |
| WAF 464  |       |       |       |       |      |
| 4,000    | 4,577 | 5,042 | 5,591 |       | 0,47 |
| 5,905    |       |       |       |       | 0,46 |
| WAF 474L |       |       |       |       |      |
| 6,120    | 6,417 | 7,091 | 7,476 |       | 0,46 |
| WAF 474  |       |       |       |       |      |
| 6,120    | 6,417 | 7,091 |       |       | 0,47 |
| 7,476    |       |       |       |       | 0,46 |
| WAF 563L |       |       |       |       |      |
| 4,545    | 5,050 | 5,421 | 5,947 |       | 0,57 |
| WAF 563  |       |       |       |       |      |
| 4,545    | 5,050 | 5,421 |       |       | 0,59 |
| 5,947    |       |       |       |       | 0,58 |

| kg   | kW              | (BHP)  | kW              | (BHP)  | kW                | (BHP)  |
|------|-----------------|--------|-----------------|--------|-------------------|--------|
| 940  | <b>1600 rpm</b> |        | <b>1800 rpm</b> |        | <b>2100 rpm *</b> |        |
|      | 736             | (987)  | 828             | (1110) | 966               | (1295) |
| 940  | <b>1600 rpm</b> |        | <b>1800 rpm</b> |        | <b>2100 rpm *</b> |        |
|      | 752             | (1008) | 846             | (1134) | 987               | (1324) |
|      | 736             | (987)  | 828             | (1110) | 966               | (1295) |
| 1830 | <b>1600 rpm</b> |        | <b>1800 rpm</b> |        | <b>2100 rpm *</b> |        |
|      | 736             | (987)  | 828             | (1110) | 966               | (1295) |
| 1830 | <b>1600 rpm</b> |        | <b>1800 rpm</b> |        | <b>2100 rpm *</b> |        |
|      | 752             | (1008) | 846             | (1134) | 987               | (1324) |
|      | 736             | (987)  | 828             | (1110) | 966               | (1295) |
| 1445 | <b>1600 rpm</b> |        | <b>1800 rpm</b> |        | <b>2100 rpm *</b> |        |
|      | 912             | (1223) | 1026            | (1376) | 1197              | (1605) |
| 1445 | <b>1600 rpm</b> |        | <b>1800 rpm</b> |        | <b>2100 rpm *</b> |        |
|      | 944             | (1266) | 1062            | (1424) | 1239              | (1661) |
|      | 928             | (1244) | 1044            | (1400) | 1218              | (1633) |



# Light Duty

Reduction ratios: bold = standard,  
italics and additional ratios on request

kW/rpm

| WVS 234/1    |              |              |              |       |      |
|--------------|--------------|--------------|--------------|-------|------|
| 1,179        | 1,500        | <b>2,036</b> | 2,542        |       | 0,27 |
| 2,864        |              |              |              |       | 0,25 |
| WVS 334      |              |              |              |       |      |
| <b>1,122</b> | <b>1,485</b> | <b>2,037</b> | <b>2,407</b> |       | 0,36 |
| <b>2,538</b> |              |              |              |       | 0,35 |
| <b>2,956</b> |              |              |              |       | 0,32 |
| <b>3,522</b> |              |              |              |       | 0,29 |
| WVS 430/1    |              |              |              |       |      |
| <b>1,485</b> | <b>2,037</b> | <b>2,458</b> |              |       | 0,58 |
| <b>2,773</b> | <b>2,905</b> |              |              |       | 0,50 |
| <b>3,286</b> | <b>3,316</b> |              |              |       | 0,45 |
| <b>3,550</b> |              |              |              |       | 0,42 |
| WVS 730/1L   |              |              |              |       |      |
| <b>2,036</b> | <b>2,542</b> | <b>3,048</b> |              |       | 0,70 |
| <b>3,542</b> |              |              |              |       | 0,67 |
| <b>3,954</b> |              |              |              |       | 0,60 |
| WVS 730/1    |              |              |              |       |      |
| <b>2,036</b> | <b>2,269</b> | <b>2,542</b> |              |       | 0,92 |
| <b>3,048</b> |              |              |              |       | 0,87 |
| <b>3,542</b> |              |              |              |       | 0,67 |
| <b>3,954</b> |              |              |              |       | 0,60 |
| WVS 930/1L   |              |              |              |       |      |
| 1,525        | 2,032        | 2,482        | 3,044        |       | 1,00 |
| 3,954        |              |              |              |       | 0,83 |
| WVS 930/1    |              |              |              |       |      |
| 1,525        | 2,032        | 2,482        |              |       | 1,28 |
| 3,044        |              |              |              |       | 1,22 |
| 3,954        |              |              |              |       | 0,83 |
| WVS 1130L    |              |              |              |       |      |
| 1,512        | 2,029        | 2,433        | 2,962        | 3,478 | 1,60 |
| 3,905        |              |              |              |       | 1,30 |

| kg   | kW       | (BHP)  | kW       | (BHP)  | kW         | (BHP)  |
|------|----------|--------|----------|--------|------------|--------|
| 295  | 1800 rpm |        | 2100 rpm |        | 2600 rpm * |        |
|      | 486      | (652)  | 567      | (760)  | 702        | (941)  |
|      | 450      | (603)  | 525      | (704)  | 650        | (872)  |
| 340  | 1800 rpm |        | 2100 rpm |        | 2600 rpm * |        |
|      | 648      | (869)  | 756      | (1014) | 936        | (1255) |
|      | 630      | (845)  | 735      | (986)  | 910        | (1220) |
|      | 576      | (772)  | 672      | (901)  | 832        | (1116) |
|      | 522      | (700)  | 609      | (817)  | 754        | (1011) |
| 490  | 1800 rpm |        | 2100 rpm |        | 2600 rpm * |        |
|      | 1044     | (1400) | 1218     | (1633) | 1508       | (2022) |
|      | 900      | (1207) | 1050     | (1408) | 1300       | (1743) |
|      | 810      | (1086) | 945      | (1267) | 1170       | (1569) |
|      | 756      | (1014) | 882      | (1183) | 1092       | (1464) |
| 725  | 1800 rpm |        | 2100 rpm |        | 2500 rpm * |        |
|      | 1260     | (1690) | 1470     | (1971) | 1750       | (2347) |
|      | 1206     | (1617) | 1407     | (1887) | 1675       | (2246) |
|      | 1080     | (1448) | 1260     | (1690) | 1500       | (2011) |
| 725  | 1800 rpm |        | 2100 rpm |        | 2500 rpm * |        |
|      | 1656     | (2221) | 1932     | (2591) | 2300       | (3084) |
|      | 1566     | (2100) | 1827     | (2450) | 2175       | (2917) |
|      | 1206     | (1617) | 1407     | (1887) | 1675       | (2246) |
|      | 1080     | (1448) | 1260     | (1690) | 1500       | (2011) |
| 950  | 1800 rpm |        | 2100 rpm |        | 2500 rpm * |        |
|      | 1800     | (2414) | 2100     | (2816) | 2500       | (3352) |
|      | 1494     | (2003) | 1743     | (2337) | 2075       | (2783) |
| 950  | 1800 rpm |        | 2100 rpm |        | 2500 rpm * |        |
|      | 2304     | (3090) | 2688     | (3605) | 3200       | (4291) |
|      | 2196     | (2945) | 2562     | (3436) | 3050       | (4090) |
|      | 1494     | (2003) | 1743     | (2337) | 2075       | (2783) |
| 1600 | 1800 rpm |        | 1950 rpm |        | 2300 rpm * |        |
|      | 2880     | (3862) | 3120     | (4184) | 3680       | (4935) |
|      | 2340     | (3138) | 2535     | (3399) | 2990       | (4010) |



## Light Duty

Reduction ratios: bold = standard,  
italics and additional ratios on request

kW/rpm

### WVS 1130

*1,512*   *2,029*   *2,433*   *2,962*   1,85

*3,478*   1,70

*3,905*   1,55

### WVS 1540

**2,952**   **3,368**   1,50

*3,947*   1,45

*4,350*   1,36

*4,632*   1,29

### WVS 1930

*1,410*   *2,032*   *2,458*   *2,952*   1,85

*3,368*   1,70

*3,864*   1,48

### WVS 2230

*1,513*   *2,025*   *2,414*   *2,630*   *2,920*   2,45

### WVS 2240

*3,039*   *3,375*   *3,565*   *3,818*   2,45

*4,130*   2,10



| kg   | kW       | (BHP)  | kW       | (BHP)  | kW         | (BHP)  |
|------|----------|--------|----------|--------|------------|--------|
| 1600 | 1800 rpm |        | 1950 rpm |        | 2300 rpm * |        |
|      | 3330     | (4466) | 3608     | (4838) | 4255       | (5706) |
|      | 3060     | (4103) | 3315     | (4445) | 3910       | (5243) |
|      | 2790     | (3741) | 3022     | (4053) | 3565       | (4781) |
| 1450 | 1800 rpm |        | 1950 rpm |        | 2300 rpm * |        |
|      | 2700     | (3621) | 2925     | (3922) | 3450       | (4626) |
|      | 2614     | (3505) | 2831     | (3797) | 3340       | (4478) |
|      | 2443     | (3276) | 2646     | (3548) | 3121       | (4185) |
|      | 2313     | (3102) | 2506     | (3360) | 2956       | (3963) |
| 1550 | 1800 rpm |        | 1950 rpm |        | 2300 rpm * |        |
|      | 3330     | (4466) | 3608     | (4838) | 4255       | (5706) |
|      | 3060     | (4103) | 3315     | (4445) | 3910       | (5243) |
|      | 2671     | (3582) | 2894     | (3881) | 3413       | (4577) |
| 2150 | 1800 rpm |        | 1950 rpm |        | 2100 rpm * |        |
|      | 4410     | (5914) | 4778     | (6407) | 5145       | (6899) |
| 2185 | 1800 rpm |        | 1950 rpm |        | 2100 rpm * |        |
|      | 4410     | (5914) | 4778     | (6407) | 5145       | (6899) |
|      | 3780     | (5069) | 4095     | (5491) | 4410       | (5914) |



## Light Duty

Reduction ratios: bold = standard,  
italics and additional ratios on request

kW/rpm

| AF 264 |       |       |       |       | kW/rpm |
|--------|-------|-------|-------|-------|--------|
| 3,519  | 4,083 | 4,500 |       |       |        |
| 5,050  |       |       |       |       |        |
| 5,476  |       |       |       |       |        |
| 5,800  |       |       |       |       |        |
| AF 344 |       |       |       |       | kW/rpm |
| 1,972  | 2,452 | 2,963 |       |       |        |
| 3,280  | 3,571 |       |       |       |        |
| 4,053  |       |       |       |       |        |
| AF 364 |       |       |       |       | kW/rpm |
| 3,485  | 3,933 | 4,481 | 4,920 | 5,435 |        |
| 6,048  |       |       |       |       |        |

| kg  | kW       | (BHP) | kW       | (BHP) | kW         | (BHP)  |
|-----|----------|-------|----------|-------|------------|--------|
| 670 | 1600 rpm |       | 1800 rpm |       | 2100 rpm * |        |
|     | 469      | (629) | 527      | (707) | 615        | (825)  |
|     | 448      | (601) | 504      | (676) | 588        | (789)  |
|     | 432      | (579) | 486      | (652) | 567        | (760)  |
|     | 400      | (536) | 450      | (603) | 525        | (704)  |
| 700 | 1600 rpm |       | 1800 rpm |       | 2100 rpm * |        |
|     | 592      | (794) | 666      | (893) | 777        | (1042) |
|     | 544      | (730) | 612      | (821) | 714        | (957)  |
|     | 512      | (687) | 576      | (772) | 672        | (901)  |
| 770 | 1600 rpm |       | 1800 rpm |       | 2100 rpm * |        |
|     | 592      | (794) | 666      | (893) | 777        | (1042) |
|     | 576      | (772) | 648      | (869) | 756        | (1014) |



# Light Duty

Reduction ratios: bold = standard,  
italics and additional ratios on request

kW/rpm

| WLS 234/1 indicated max. rpm on request |              |              |       |  |      |
|-----------------------------------------|--------------|--------------|-------|--|------|
| 1,179                                   | 1,500        | <b>2,036</b> | 2,542 |  | 0,27 |
| 2,864                                   |              |              |       |  | 0,25 |
| WLS 334 indicated max. rpm on request   |              |              |       |  |      |
| 1,122                                   | <b>1,485</b> | 2,037        | 2,407 |  | 0,36 |
| 2,538                                   |              |              |       |  | 0,35 |
| 2,956                                   |              |              |       |  | 0,32 |
| 3,522                                   |              |              |       |  | 0,29 |
| WLS 430/1 indicated max. rpm on request |              |              |       |  |      |
| <b>1,485</b>                            | <b>2,037</b> | <b>2,458</b> |       |  | 0,58 |
| 2,773                                   | 2,905        |              |       |  | 0,50 |
| 3,286                                   | 3,316        |              |       |  | 0,45 |
| 3,550                                   |              |              |       |  | 0,42 |
| WLS 730/1 indicated max. rpm on request |              |              |       |  |      |
| <b>2,036</b>                            | <b>2,269</b> | <b>2,542</b> |       |  | 0,92 |
| 3,048                                   |              |              |       |  | 0,87 |
| <b>3,542</b>                            |              |              |       |  | 0,67 |
| <b>3,954</b>                            |              |              |       |  | 0,60 |
| WLS 930/1 indicated max. rpm on request |              |              |       |  |      |
| 1,525                                   | 2,032        | 2,482        |       |  | 1,28 |
| 3,044                                   |              |              |       |  | 1,22 |
| 3,954                                   |              |              |       |  | 0,83 |
| WLS 1130 indicated max. rpm on request  |              |              |       |  |      |
| 1,512                                   | 2,029        | 2,433        | 2,962 |  | 1,85 |
| 3,478                                   |              |              |       |  | 1,70 |
| 3,905                                   |              |              |       |  | 1,55 |
| WLS 1540 indicated max. rpm on request  |              |              |       |  |      |
| 2,952                                   | 3,368        |              |       |  | 1,50 |
| 3,947                                   |              |              |       |  | 1,45 |
| 4,350                                   |              |              |       |  | 1,36 |
| 4,632                                   |              |              |       |  | 1,29 |

| kg   | kW       | (BHP)  | kW       | (BHP)  | kW         | (BHP)  |
|------|----------|--------|----------|--------|------------|--------|
| 295  | 1800 rpm |        | 2100 rpm |        | 2600 rpm * |        |
|      | 486      | (652)  | 567      | (760)  | 702        | (941)  |
|      | 450      | (603)  | 525      | (704)  | 650        | (872)  |
| 340  | 1800 rpm |        | 2100 rpm |        | 2600 rpm * |        |
|      | 648      | (869)  | 756      | (1014) | 936        | (1255) |
|      | 630      | (845)  | 735      | (986)  | 910        | (1220) |
|      | 576      | (772)  | 672      | (901)  | 832        | (1116) |
|      | 522      | (700)  | 609      | (817)  | 754        | (1011) |
| 490  | 1800 rpm |        | 2100 rpm |        | 2600 rpm * |        |
|      | 1044     | (1400) | 1218     | (1633) | 1508       | (2022) |
|      | 900      | (1207) | 1050     | (1408) | 1300       | (1743) |
|      | 810      | (1086) | 945      | (1267) | 1170       | (1569) |
|      | 756      | (1014) | 882      | (1183) | 1092       | (1464) |
| 725  | 1800 rpm |        | 2100 rpm |        | 2500 rpm * |        |
|      | 1656     | (2221) | 1932     | (2591) | 2300       | (3084) |
|      | 1566     | (2100) | 1827     | (2450) | 2175       | (2917) |
|      | 1206     | (1617) | 1407     | (1887) | 1675       | (2246) |
|      | 1080     | (1448) | 1260     | (1690) | 1500       | (2011) |
| 950  | 1800 rpm |        | 2100 rpm |        | 2500 rpm * |        |
|      | 2304     | (3090) | 2688     | (3605) | 3200       | (4291) |
|      | 2196     | (2945) | 2562     | (3436) | 3050       | (4090) |
|      | 1494     | (2003) | 1743     | (2337) | 2075       | (2783) |
| 1600 | 1800 rpm |        | 1950 rpm |        | 2300 rpm * |        |
|      | 3330     | (4466) | 3608     | (4838) | 4255       | (5706) |
|      | 3060     | (4103) | 3315     | (4445) | 3910       | (5243) |
|      | 2790     | (3741) | 3022     | (4053) | 3565       | (4781) |
| 1450 | 1800 rpm |        | 1950 rpm |        | 2300 rpm * |        |
|      | 2700     | (3621) | 2925     | (3922) | 3450       | (4626) |
|      | 2614     | (3505) | 2831     | (3797) | 3340       | (4478) |
|      | 2443     | (3276) | 2646     | (3548) | 3121       | (4185) |
|      | 2313     | (3102) | 2506     | (3360) | 2956       | (3963) |



## Light Duty

Reduction ratios: bold = standard,  
italics and additional ratios on request

kW/rpm

| WLS 1930     |              |              |              |  | indicated max. rpm on request |
|--------------|--------------|--------------|--------------|--|-------------------------------|
| <i>1,410</i> | <i>2,032</i> | <i>2,458</i> | <i>2,952</i> |  | 1,85                          |
| <i>3,368</i> |              |              |              |  | 1,70                          |
| <i>3,864</i> |              |              |              |  | 1,48                          |

| kg   | kW       | (BHP)  | kW       | (BHP)  | kW         | (BHP)  |
|------|----------|--------|----------|--------|------------|--------|
| 1550 | 1800 rpm |        | 1950 rpm |        | 2300 rpm * |        |
|      | 3330     | (4466) | 3608     | (4838) | 4255       | (5706) |
|      | 3060     | (4103) | 3315     | (4445) | 3910       | (5243) |
|      | 2671     | (3582) | 2894     | (3881) | 3413       | (4577) |



## Light Duty

Reduction ratios: bold = standard,  
italics and additional ratios on request

kW/rpm

| VLJ 730/1    |              |              |              |              | kW/rpm |
|--------------|--------------|--------------|--------------|--------------|--------|
| <i>1,539</i> | <i>2,036</i> | <b>2,542</b> |              |              |        |
| <b>3,048</b> |              |              |              |              | 0,84   |
| VLJ 930/1    |              |              |              |              | kW/rpm |
| <b>1,186</b> | <i>1,525</i> | <b>1,725</b> | <b>1,849</b> | <i>2,032</i> |        |
| <b>2,357</b> | <i>2,482</i> |              |              |              | 1,22   |
| <i>3,044</i> |              |              |              |              | 1,05   |



| kg  | kW       | (BHP)  | kW       | (BHP)  | kW         | (BHP)  |
|-----|----------|--------|----------|--------|------------|--------|
| 560 | 1800 rpm |        | 2100 rpm |        | 2500 rpm * |        |
|     | 1656     | (2221) | 1932     | (2591) | 2300       | (3084) |
|     | 1512     | (2028) | 1764     | (2366) | 2100       | (2816) |
| 740 | 1800 rpm |        | 2100 rpm |        | 2500 rpm * |        |
|     | 2268     | (3041) | 2646     | (3548) | 3150       | (4224) |
|     | 2196     | (2945) | 2562     | (3436) | 3050       | (4090) |
|     | 1890     | (2534) | 2205     | (2957) | 2625       | (3520) |



# Pleasure Duty

Reduction ratios: bold = standard,  
italics and additional ratios on request

kW/rpm

| WAF 164L     |              |              |              |      |
|--------------|--------------|--------------|--------------|------|
| <b>3,964</b> | <b>4,560</b> | <b>5,043</b> |              | 0,25 |
| <b>5,950</b> |              |              |              | 0,23 |
| WAF 164      |              |              |              |      |
| <b>3,964</b> | <b>4,560</b> | <b>5,043</b> |              | 0,25 |
| <b>5,950</b> |              |              |              | 0,23 |
| WAF 244L     |              |              |              |      |
| <b>2,037</b> | <b>2,538</b> | <b>2,957</b> |              | 0,29 |
| <b>3,522</b> |              |              |              | 0,27 |
| <b>3,952</b> |              |              |              | 0,25 |
| WAF 244      |              |              |              |      |
| <b>2,037</b> | <b>2,538</b> |              |              | 0,29 |
| <b>2,957</b> |              |              |              | 0,29 |
| <b>3,522</b> |              |              |              | 0,27 |
| <b>3,478</b> |              |              |              | 0,26 |
| <b>3,952</b> |              |              |              | 0,25 |
| WAF 264L     |              |              |              |      |
| <b>3,519</b> | <b>4,083</b> | <b>4,500</b> | <b>5,050</b> | 0,29 |
| <b>5,476</b> |              |              |              | 0,28 |
| <b>5,800</b> |              |              |              | 0,26 |
| WAF 264      |              |              |              |      |
| <b>3,519</b> | <b>4,083</b> | <b>4,500</b> |              | 0,29 |
| <b>5,050</b> |              |              |              | 0,29 |
| <b>5,476</b> |              |              |              | 0,28 |
| <b>5,800</b> |              |              |              | 0,26 |
| WAF 274L     |              |              |              |      |
| <b>6,115</b> | <b>6,400</b> | <b>7,043</b> |              | 0,29 |
| <b>7,409</b> |              |              |              | 0,27 |
| WAF 274      |              |              |              |      |
| <b>6,115</b> | <b>6,400</b> | <b>7,043</b> |              | 0,29 |
| <b>7,409</b> |              |              |              | 0,27 |

| kg  | kW       | (BHP) | kW       | (BHP) | kW         | (BHP) |
|-----|----------|-------|----------|-------|------------|-------|
| 525 | 1900 rpm |       | 2100 rpm |       | 2300 rpm * |       |
|     | 475      | (637) | 525      | (704) | 575        | (771) |
|     | 437      | (586) | 483      | (648) | 529        | (709) |
| 525 | 1900 rpm |       | 2100 rpm |       | 2300 rpm * |       |
|     | 475      | (637) | 525      | (704) | 575        | (771) |
|     | 437      | (586) | 483      | (648) | 529        | (709) |
| 455 | 1900 rpm |       | 2100 rpm |       | 2300 rpm * |       |
|     | 551      | (739) | 609      | (817) | 667        | (894) |
|     | 513      | (688) | 567      | (760) | 621        | (833) |
|     | 475      | (637) | 525      | (704) | 575        | (771) |
| 455 | 1900 rpm |       | 2100 rpm |       | 2300 rpm * |       |
|     | 557      | (747) | 615      | (825) | 674        | (904) |
|     | 551      | (739) | 609      | (817) | 667        | (894) |
|     | 513      | (688) | 567      | (760) | 621        | (833) |
|     | 488      | (655) | 540      | (724) | 591        | (793) |
|     | 475      | (637) | 525      | (704) | 575        | (771) |
| 700 | 1900 rpm |       | 2100 rpm |       | 2300 rpm * |       |
|     | 551      | (739) | 609      | (817) | 667        | (894) |
|     | 532      | (713) | 588      | (789) | 644        | (864) |
|     | 494      | (662) | 546      | (732) | 598        | (802) |
| 700 | 1900 rpm |       | 2100 rpm |       | 2300 rpm * |       |
|     | 557      | (747) | 615      | (825) | 674        | (904) |
|     | 551      | (739) | 609      | (817) | 667        | (894) |
|     | 532      | (713) | 588      | (789) | 644        | (864) |
|     | 494      | (662) | 546      | (732) | 598        | (802) |
| 725 | 1900 rpm |       | 2100 rpm |       | 2300 rpm * |       |
|     | 551      | (739) | 609      | (817) | 667        | (894) |
|     | 513      | (688) | 567      | (760) | 621        | (833) |
| 725 | 1900 rpm |       | 2100 rpm |       | 2300 rpm * |       |
|     | 557      | (747) | 615      | (825) | 674        | (904) |
|     | 513      | (688) | 567      | (760) | 621        | (833) |



# Pleasure Duty

Reduction ratios: bold = standard,  
italics and additional ratios on request

kW/rpm

| WAF 344L |       |       |       |       |      |
|----------|-------|-------|-------|-------|------|
| 1,972    | 2,452 | 2,963 |       |       | 0,38 |
| 3,571    |       |       |       |       | 0,33 |
| 4,053    |       |       |       |       | 0,31 |
| WAF 344  |       |       |       |       |      |
| 1,972    | 2,452 | 2,963 |       |       | 0,38 |
| 3,280    | 3,571 |       |       |       | 0,35 |
| 4,053    |       |       |       |       | 0,33 |
| WAF 364L |       |       |       |       |      |
| 3,485    | 3,933 | 4,481 | 4,920 | 5,435 | 0,38 |
| 6,048    |       |       |       |       | 0,37 |
| WAF 364  |       |       |       |       |      |
| 3,485    | 3,933 | 4,481 | 4,920 | 5,435 | 0,38 |
| 6,048    |       |       |       |       | 0,37 |
| WAF 374L |       |       |       |       |      |
| 6,120    | 6,417 | 7,091 |       |       | 0,38 |
| 7,476    |       |       |       |       | 0,35 |
| WAF 374  |       |       |       |       |      |
| 6,120    | 6,417 | 6,739 | 7,091 |       | 0,38 |
| 7,476    |       |       |       |       | 0,35 |
| WAF 444L |       |       |       |       |      |
| 2,962    | 3,522 |       |       |       | 0,46 |
| 3,952    |       |       |       |       | 0,42 |
| WAF 444  |       |       |       |       |      |
| 2,962    | 3,522 |       |       |       | 0,48 |
| 3,952    |       |       |       |       | 0,42 |
| WAF 464L |       |       |       |       |      |
| 4,000    | 4,577 | 5,042 | 5,591 | 5,905 | 0,46 |
| WAF 464  |       |       |       |       |      |
| 4,000    | 4,577 | 5,042 | 5,591 |       | 0,48 |
| 5,905    |       |       |       |       | 0,47 |
| WAF 474L |       |       |       |       |      |
| 6,120    | 6,417 | 7,091 | 7,476 |       | 0,46 |

| kg   | kW       | (BHP)  | kW       | (BHP)  | kW         | (BHP)  |
|------|----------|--------|----------|--------|------------|--------|
| 730  | 1900 rpm |        | 2100 rpm |        | 2300 rpm * |        |
|      | 722      | (968)  | 798      | (1070) | 874        | (1172) |
|      | 627      | (841)  | 693      | (929)  | 759        | (1018) |
|      | 589      | (790)  | 651      | (873)  | 713        | (956)  |
| 730  | 1900 rpm |        | 2100 rpm |        | 2300 rpm * |        |
|      | 722      | (968)  | 798      | (1070) | 874        | (1172) |
|      | 665      | (892)  | 735      | (986)  | 805        | (1080) |
|      | 627      | (841)  | 693      | (929)  | 759        | (1018) |
| 810  | 1900 rpm |        | 2100 rpm |        | 2300 rpm * |        |
|      | 722      | (968)  | 798      | (1070) | 874        | (1172) |
|      | 703      | (943)  | 777      | (1042) | 851        | (1141) |
| 810  | 1900 rpm |        | 2100 rpm |        | 2300 rpm * |        |
|      | 722      | (968)  | 798      | (1070) | 874        | (1172) |
|      | 703      | (943)  | 777      | (1042) | 851        | (1141) |
| 1200 | 1900 rpm |        | 2100 rpm |        | 2300 rpm * |        |
|      | 722      | (968)  | 798      | (1070) | 874        | (1172) |
|      | 665      | (892)  | 735      | (986)  | 805        | (1080) |
| 1200 | 1900 rpm |        | 2100 rpm |        | 2300 rpm * |        |
|      | 722      | (968)  | 798      | (1070) | 874        | (1172) |
|      | 665      | (892)  | 735      | (986)  | 805        | (1080) |
| 760  | 1900 rpm |        | 2100 rpm |        | 2300 rpm * |        |
|      | 874      | (1172) | 966      | (1295) | 1058       | (1419) |
|      | 798      | (1070) | 882      | (1183) | 966        | (1295) |
| 760  | 1900 rpm |        | 2100 rpm |        | 2300 rpm * |        |
|      | 912      | (1223) | 1008     | (1352) | 1104       | (1480) |
|      | 798      | (1070) | 882      | (1183) | 966        | (1295) |
| 940  | 1900 rpm |        | 2100 rpm |        | 2300 rpm * |        |
|      | 874      | (1172) | 966      | (1295) | 1058       | (1419) |
| 940  | 1900 rpm |        | 2100 rpm |        | 2300 rpm * |        |
|      | 912      | (1223) | 1008     | (1352) | 1104       | (1480) |
|      | 893      | (1198) | 987      | (1324) | 1081       | (1450) |
| 1830 | 1900 rpm |        | 2100 rpm |        | 2300 rpm * |        |
|      | 874      | (1172) | 966      | (1295) | 1058       | (1419) |

\* max. input speed



## Pleasure Duty

Reduction ratios: bold = standard,  
italics and additional ratios on request

kW/rpm

| WAF 474      |              |              |              |  | kW/rpm |
|--------------|--------------|--------------|--------------|--|--------|
| <b>6,120</b> | <b>6,417</b> | <b>7,091</b> |              |  |        |
| <b>7,476</b> |              |              |              |  |        |
| WAF 563L     |              |              |              |  | kW/rpm |
| <b>4,545</b> | <b>5,050</b> | <b>5,421</b> | <b>5,947</b> |  |        |
|              |              |              |              |  |        |
| WAF 563      |              |              |              |  | kW/rpm |
| <b>4,545</b> | <b>5,050</b> | <b>5,421</b> | <b>5,947</b> |  |        |
|              |              |              |              |  |        |

| kg   | kW              | (BHP)  | kW              | (BHP)  | kW                | (BHP)  |
|------|-----------------|--------|-----------------|--------|-------------------|--------|
| 1830 | <b>1900 rpm</b> |        | <b>2100 rpm</b> |        | <b>2300 rpm *</b> |        |
|      | 912             | (1223) | 1008            | (1352) | 1104              | (1480) |
|      | 893             | (1198) | 987             | (1324) | 1081              | (1450) |
| 1445 | <b>1900 rpm</b> |        | <b>2100 rpm</b> |        | <b>2300 rpm *</b> |        |
|      | 1083            | (1452) | 1197            | (1605) | 1311              | (1758) |
| 1445 | <b>1900 rpm</b> |        | <b>2100 rpm</b> |        | <b>2300 rpm *</b> |        |
|      | 1216            | (1631) | 1344            | (1802) | 1472              | (1974) |



# Pleasure Duty

Reduction ratios: bold = standard,  
italics and additional ratios on request

kW/rpm

| WVS 234/1    |              |              |              |              |      |
|--------------|--------------|--------------|--------------|--------------|------|
| 1,179        | 1,500        | <b>2,036</b> | 2,542        |              | 0,29 |
| 2,864        |              |              |              |              | 0,26 |
| WVS 334      |              |              |              |              |      |
| <b>1,122</b> | <b>1,485</b> | <b>2,037</b> | <b>2,407</b> | <b>2,538</b> | 0,47 |
| <b>2,956</b> |              |              |              |              | 0,38 |
| <b>3,522</b> |              |              |              |              | 0,32 |
| WVS 430/1    |              |              |              |              |      |
| <b>1,485</b> | <b>2,037</b> | <b>2,458</b> |              |              | 0,60 |
| <b>2,773</b> | <b>2,905</b> |              |              |              | 0,52 |
| <b>3,286</b> | <b>3,316</b> |              |              |              | 0,45 |
| 3,550        |              |              |              |              | 0,42 |
| WVS 730/1L   |              |              |              |              |      |
| <b>2,036</b> | <b>2,542</b> | <b>3,048</b> |              |              | 0,70 |
| <b>3,542</b> |              |              |              |              | 0,67 |
| <b>3,954</b> |              |              |              |              | 0,60 |
| WVS 730/1    |              |              |              |              |      |
| <b>2,036</b> | <b>2,269</b> | <b>2,542</b> | <b>3,048</b> |              | 0,95 |
| <b>3,542</b> |              |              |              |              | 0,67 |
| <b>3,954</b> |              |              |              |              | 0,60 |
| WVS 930/1L   |              |              |              |              |      |
| 1,525        | 2,032        | 2,482        | 3,044        |              | 1,00 |
| 3,954        |              |              |              |              | 0,83 |
| WVS 930/1    |              |              |              |              |      |
| 1,525        | 2,032        | 2,482        |              |              | 1,34 |
| 3,044        |              |              |              |              | 1,22 |
| 3,954        |              |              |              |              | 0,83 |
| WVS 1130L    |              |              |              |              |      |
| 1,512        | 2,029        | 2,433        | 2,962        | 3,478        | 1,60 |
| 3,905        |              |              |              |              | 1,30 |
| WVS 1130     |              |              |              |              |      |
| 1,512        | 2,029        | 2,433        |              |              | 1,90 |



| kg   | kW       | (BHP)  | kW       | (BHP)  | kW         | (BHP)  |
|------|----------|--------|----------|--------|------------|--------|
| 295  | 2100 rpm |        | 2300 rpm |        | 2600 rpm * |        |
|      | 615      | (825)  | 674      | (904)  | 762        | (1022) |
|      | 544      | (729)  | 596      | (799)  | 673        | (903)  |
| 340  | 2100 rpm |        | 2300 rpm |        | 2600 rpm * |        |
|      | 987      | (1324) | 1081     | (1450) | 1222       | (1639) |
|      | 802      | (1076) | 879      | (1178) | 993        | (1332) |
|      | 672      | (901)  | 736      | (987)  | 832        | (1116) |
| 490  | 2100 rpm |        | 2300 rpm |        | 2600 rpm * |        |
|      | 1260     | (1690) | 1380     | (1851) | 1560       | (2092) |
|      | 1092     | (1464) | 1196     | (1604) | 1352       | (1813) |
|      | 945      | (1267) | 1035     | (1388) | 1170       | (1569) |
|      | 882      | (1183) | 966      | (1295) | 1092       | (1464) |
| 725  | 2100 rpm |        | 2300 rpm |        | 2500 rpm * |        |
|      | 1470     | (1971) | 1610     | (2159) | 1750       | (2347) |
|      | 1407     | (1887) | 1541     | (2066) | 1675       | (2246) |
|      | 1260     | (1690) | 1380     | (1851) | 1500       | (2011) |
| 725  | 2100 rpm |        | 2300 rpm |        | 2500 rpm * |        |
|      | 1995     | (2675) | 2185     | (2930) | 2375       | (3185) |
|      | 1407     | (1887) | 1541     | (2066) | 1675       | (2246) |
|      | 1260     | (1690) | 1380     | (1851) | 1500       | (2011) |
| 950  | 2100 rpm |        | 2300 rpm |        | 2500 rpm * |        |
|      | 2100     | (2816) | 2300     | (3084) | 2500       | (3352) |
|      | 1743     | (2337) | 1909     | (2560) | 2075       | (2783) |
| 950  | 2100 rpm |        | 2300 rpm |        | 2500 rpm * |        |
|      | 2814     | (3774) | 3082     | (4133) | 3350       | (4492) |
|      | 2562     | (3436) | 2806     | (3763) | 3050       | (4090) |
|      | 1743     | (2337) | 1909     | (2560) | 2075       | (2783) |
| 1600 | 1800 rpm |        | 1950 rpm |        | 2300 rpm * |        |
|      | 2880     | (3862) | 3120     | (4184) | 3680       | (4935) |
|      | 2340     | (3138) | 2535     | (3399) | 2990       | (4010) |
| 1600 | 1800 rpm |        | 1950 rpm |        | 2300 rpm * |        |
|      | 3420     | (4586) | 3705     | (4968) | 4370       | (5860) |



## Pleasure Duty

Reduction ratios: bold = standard,  
italics and additional ratios on request

kW/rpm

| WVS 1130 |       |       |       |       |  | kW/rpm |
|----------|-------|-------|-------|-------|--|--------|
| 2,962    |       |       |       |       |  |        |
| 3,478    |       |       |       |       |  |        |
| 3,905    |       |       |       |       |  |        |
| WVS 2230 |       |       |       |       |  | kW/rpm |
| 1,513    | 2,025 | 2,414 | 2,630 | 2,920 |  |        |
| WVS 2240 |       |       |       |       |  | kW/rpm |
| 3,039    | 3,375 | 3,565 | 3,818 |       |  |        |
| 4,130    |       |       |       |       |  |        |

| kg   | kW       | (BHP)  | kW       | (BHP)  | kW         | (BHP)  |
|------|----------|--------|----------|--------|------------|--------|
| 1600 | 1800 rpm |        | 1950 rpm |        | 2300 rpm * |        |
|      | 3330     | (4466) | 3608     | (4838) | 4255       | (5706) |
|      | 3060     | (4103) | 3315     | (4445) | 3910       | (5243) |
|      | 2790     | (3741) | 3022     | (4053) | 3565       | (4781) |
| 2150 | 1800 rpm |        | 1950 rpm |        | 2100 rpm * |        |
|      | 4518     | (6059) | 4894     | (6564) | 5271       | (7068) |
| 2185 | 1800 rpm |        | 1950 rpm |        | 2100 rpm * |        |
|      | 4518     | (6059) | 4894     | (6564) | 5271       | (7068) |
|      | 3960     | (5310) | 4290     | (5753) | 4620       | (6195) |



## Pleasure Duty

Reduction ratios: bold = standard,  
italics and additional ratios on request

kW/rpm

| AF 264 |       |       |       |       | kW/rpm |
|--------|-------|-------|-------|-------|--------|
| 3,519  | 4,083 | 4,500 |       |       |        |
| 5,050  |       |       |       |       |        |
| 5,476  |       |       |       |       |        |
| 5,800  |       |       |       |       |        |
| AF 344 |       |       |       |       | kW/rpm |
| 1,972  | 2,452 | 2,963 |       |       |        |
| 3,280  | 3,571 |       |       |       |        |
| 4,053  |       |       |       |       |        |
| AF 364 |       |       |       |       | kW/rpm |
| 3,485  | 3,933 | 4,481 | 4,920 | 5,435 |        |
| 6,048  |       |       |       |       | 0,37   |

| kg  | kW       | (BHP) | kW       | (BHP)  | kW         | (BHP)  |
|-----|----------|-------|----------|--------|------------|--------|
| 670 | 1900 rpm |       | 2100 rpm |        | 2300 rpm * |        |
|     | 557      | (747) | 615      | (825)  | 674        | (904)  |
|     | 551      | (739) | 609      | (817)  | 667        | (894)  |
|     | 532      | (713) | 588      | (789)  | 644        | (864)  |
|     | 494      | (662) | 546      | (732)  | 598        | (802)  |
| 700 | 1900 rpm |       | 2100 rpm |        | 2300 rpm * |        |
|     | 722      | (968) | 798      | (1070) | 874        | (1172) |
|     | 665      | (892) | 735      | (986)  | 805        | (1080) |
|     | 627      | (841) | 693      | (929)  | 759        | (1018) |
| 770 | 1900 rpm |       | 2100 rpm |        | 2300 rpm * |        |
|     | 722      | (968) | 798      | (1070) | 874        | (1172) |
|     | 703      | (943) | 777      | (1042) | 851        | (1141) |



# Pleasure Duty

Reduction ratios: bold = standard,  
italics and additional ratios on request

kW/rpm

| WLS 234/1 indicated max. rpm on request |              |              |       |       |      |
|-----------------------------------------|--------------|--------------|-------|-------|------|
| 1,179                                   | 1,500        | <b>2,036</b> | 2,542 |       | 0,29 |
| 2,864                                   |              |              |       |       | 0,26 |
| WLS 334 indicated max. rpm on request   |              |              |       |       |      |
| 1,122                                   | <b>1,485</b> | 2,037        | 2,407 | 2,538 | 0,47 |
| 2,956                                   |              |              |       |       | 0,38 |
| 3,522                                   |              |              |       |       | 0,32 |
| WLS 430/1 indicated max. rpm on request |              |              |       |       |      |
| <b>1,485</b>                            | <b>2,037</b> | <b>2,458</b> |       |       | 0,60 |
| 2,773                                   | 2,905        |              |       |       | 0,52 |
| 3,286                                   | 3,316        |              |       |       | 0,45 |
| 3,550                                   |              |              |       |       | 0,42 |
| WLS 730/1 indicated max. rpm on request |              |              |       |       |      |
| <b>2,036</b>                            | <b>2,269</b> | <b>2,542</b> | 3,048 |       | 0,95 |
| <b>3,542</b>                            |              |              |       |       | 0,67 |
| <b>3,954</b>                            |              |              |       |       | 0,60 |
| WLS 930/1 indicated max. rpm on request |              |              |       |       |      |
| 1,525                                   | 2,032        | 2,482        |       |       | 1,34 |
| 3,044                                   |              |              |       |       | 1,22 |
| 3,954                                   |              |              |       |       | 0,83 |
| WLS 1130 indicated max. rpm on request  |              |              |       |       |      |
| 1,512                                   | 2,029        | 2,433        |       |       | 1,90 |
| 2,962                                   |              |              |       |       | 1,85 |
| 3,478                                   |              |              |       |       | 1,70 |
| 3,905                                   |              |              |       |       | 1,55 |

| kg   | kW       | (BHP)  | kW       | (BHP)  | kW         | (BHP)  |
|------|----------|--------|----------|--------|------------|--------|
| 295  | 2100 rpm |        | 2300 rpm |        | 2600 rpm * |        |
|      | 615      | (825)  | 674      | (904)  | 762        | (1022) |
|      | 544      | (729)  | 596      | (799)  | 673        | (903)  |
| 340  | 2100 rpm |        | 2300 rpm |        | 2600 rpm * |        |
|      | 987      | (1324) | 1081     | (1450) | 1222       | (1639) |
|      | 802      | (1076) | 879      | (1178) | 993        | (1332) |
|      | 672      | (901)  | 736      | (987)  | 832        | (1116) |
| 490  | 2100 rpm |        | 2300 rpm |        | 2600 rpm * |        |
|      | 1260     | (1690) | 1380     | (1851) | 1560       | (2092) |
|      | 1092     | (1464) | 1196     | (1604) | 1352       | (1813) |
|      | 945      | (1267) | 1035     | (1388) | 1170       | (1569) |
|      | 882      | (1183) | 966      | (1295) | 1092       | (1464) |
| 725  | 2100 rpm |        | 2300 rpm |        | 2500 rpm * |        |
|      | 1995     | (2675) | 2185     | (2930) | 2375       | (3185) |
|      | 1407     | (1887) | 1541     | (2066) | 1675       | (2246) |
|      | 1260     | (1690) | 1380     | (1851) | 1500       | (2011) |
| 950  | 2100 rpm |        | 2300 rpm |        | 2500 rpm * |        |
|      | 2814     | (3774) | 3082     | (4133) | 3350       | (4492) |
|      | 2562     | (3436) | 2806     | (3763) | 3050       | (4090) |
|      | 1743     | (2337) | 1909     | (2560) | 2075       | (2783) |
| 1600 | 1800 rpm |        | 1950 rpm |        | 2300 rpm * |        |
|      | 3420     | (4586) | 3705     | (4968) | 4370       | (5860) |
|      | 3330     | (4466) | 3608     | (4838) | 4255       | (5706) |
|      | 3060     | (4103) | 3315     | (4445) | 3910       | (5243) |
|      | 2790     | (3741) | 3022     | (4053) | 3565       | (4781) |



# Pleasure Duty

Reduction ratios: bold = standard,  
italics and additional ratios on request

kW/rpm

| VLJ 730/1    |              |              |              |              | kW/rpm |
|--------------|--------------|--------------|--------------|--------------|--------|
| <i>1,539</i> | <i>2,036</i> | <b>2,542</b> | <b>3,048</b> |              |        |
| VLJ 930/1    |              |              |              |              | kW/rpm |
| <b>1,186</b> | <i>1,525</i> | <b>1,725</b> | <b>1,849</b> | <i>2,032</i> |        |
| <b>2,357</b> | <i>2,482</i> |              |              |              | 1,29   |
| <i>3,044</i> |              |              |              |              | 1,22   |



| kg  | kW              | (BHP)  | kW              | (BHP)  | kW                | (BHP)  |
|-----|-----------------|--------|-----------------|--------|-------------------|--------|
| 560 | <b>1800 rpm</b> |        | <b>2100 rpm</b> |        | <b>2500 rpm *</b> |        |
|     | 1710            | (2293) | 1995            | (2675) | 2375              | (3185) |
| 740 | <b>1800 rpm</b> |        | <b>2100 rpm</b> |        | <b>2500 rpm *</b> |        |
|     | 2322            | (3114) | 2709            | (3633) | 3225              | (4325) |
|     | 2196            | (2945) | 2562            | (3436) | 3050              | (4090) |



# Main Dimensions

## WAF

Reverse-reduction gearbox for propulsion with fixed pitch propeller

- Vertical offset
- optional SAE housing

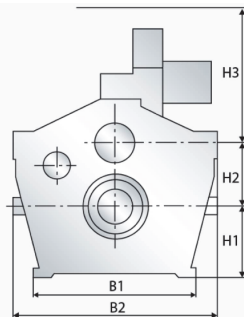
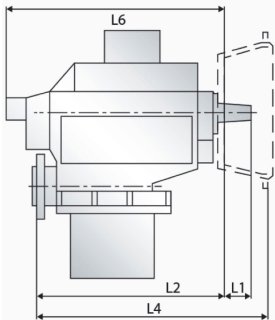
| Size | B1  | B2  | H1  | H2  | H3  | H4 | D1 | D2  |
|------|-----|-----|-----|-----|-----|----|----|-----|
| 164  | 505 | 660 | 315 | 290 | 370 | -  | 55 | 285 |
| 244  | 530 | 640 | 240 | 215 | 355 | -  | 55 | 240 |
| 264  | 540 | 670 | 345 | 315 | 365 | -  | 55 | 285 |
| 274  | 700 | 830 | 420 | 380 | 365 | -  | 55 | 325 |
| 344  | 570 | 720 | 265 | 250 | 395 | -  | 60 | 285 |
| 364  | 580 | 750 | 380 | 345 | 415 | -  | 60 | 325 |
| 374  | 800 | 930 | 460 | 410 | 430 | -  | 60 | 325 |
| 444  | 495 | 740 | 285 | 270 | 505 | -  | 75 | 300 |
| 464  | 575 | 800 | 400 | 375 | 510 | -  | 75 | 325 |

## WAF

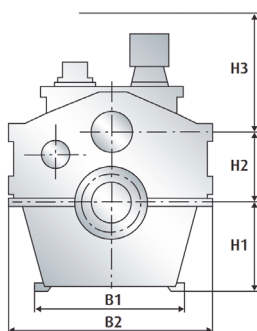
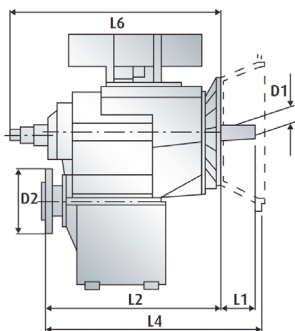
Reverse-reduction gearbox for propulsion with fixed pitch propeller

- Vertical offset
- optional SAE housing

| Size | B1  | B2  | H1  | H2  | H3  | H4 | D1 | D2  |
|------|-----|-----|-----|-----|-----|----|----|-----|
| 543  | 530 | 840 | 380 | 310 | 540 | -  | 75 | 325 |
| 563  | 570 | 920 | 475 | 410 | 550 | -  | 75 | 350 |



|    |     | SAE 1 SAE 0 SAE 00 |     |    |     |      |
|----|-----|--------------------|-----|----|-----|------|
| L1 | L2  | L4                 | L4  | L4 | L6  | kg   |
| 70 | 595 | 658                | 658 | -  | 685 | 525  |
| 70 | 560 | 627                | 627 | -  | 685 | 455  |
| 70 | 595 | 658                | 658 | -  | 685 | 700  |
| 70 | 600 | 666                | 666 | -  | 690 | 725  |
| 80 | 645 | 750                | 750 | -  | 740 | 730  |
| 80 | 665 | 773                | 773 | -  | 755 | 810  |
| 80 | 670 | 773                | 773 | -  | 860 | 1200 |
| 97 | 720 | 820                | 820 | -  | 810 | 760  |
| 97 | 725 | 822                | 822 | -  | 810 | 940  |



|    |     | SAE 1 SAE 0 SAE 00 |     |     |      |      |
|----|-----|--------------------|-----|-----|------|------|
| L1 | L2  | L4                 | L4  | L4  | L6   | kg   |
| 97 | 775 | -                  | 895 | 911 | 935  | 1040 |
| 97 | 820 | -                  | 941 | 957 | 1060 | 1445 |



# Main Dimensions

## WAF

Reverse-reduction gearbox for propulsion with fixed pitch propeller

- Vertical offset
- optional SAE housing

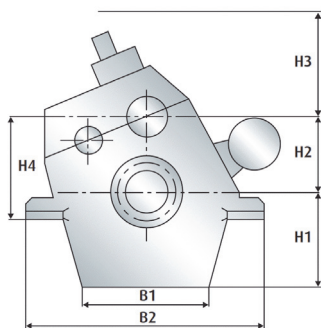
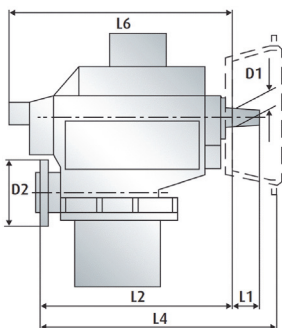
| Size       | B1  | B2   | H1  | H2  | H3  | H4  | D1 | D2  |
|------------|-----|------|-----|-----|-----|-----|----|-----|
| <b>474</b> | 760 | 1310 | 510 | 460 | 330 | 600 | 75 | 350 |
| <b>573</b> | 690 | 1360 | 575 | 505 | 500 | 645 | 75 | 375 |
| <b>665</b> | 430 | 1160 | 490 | 430 | 540 | 560 | 85 | 420 |
| <b>675</b> | 650 | 1480 | 610 | 550 | 540 | 680 | 85 | 420 |
| <b>743</b> | 610 | 1160 | 490 | 380 | 550 | 510 | 92 | 350 |
| <b>763</b> | 680 | 1300 | 530 | 490 | 550 | 630 | 92 | 375 |
| <b>773</b> | 790 | 1670 | 680 | 620 | 550 | 760 | 92 | 420 |

## WVS/WLS

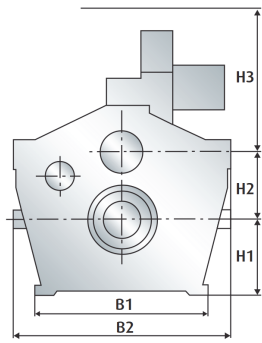
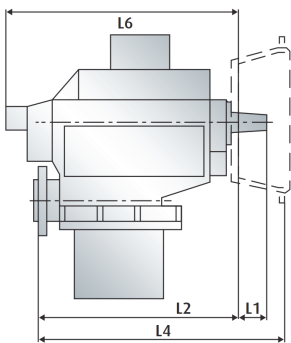
Reverse-reduction gearbox for propulsion with fixed pitch propeller / Reduction gearbox for propulsion with controllable pitch propeller

- Vertical offset
- optional SAE housing

| Size         | B1  | B2  | H1  | H2  | H3  | H4 | D1 | D2  |
|--------------|-----|-----|-----|-----|-----|----|----|-----|
| <b>234/1</b> | 475 | 640 | 200 | 200 | 420 | -  | 55 | 220 |
| <b>334</b>   | 530 | 720 | 240 | 215 | 420 | -  | 62 | 180 |
| <b>430/1</b> | 400 | 730 | 260 | 235 | 390 | -  | 75 | 220 |



|     |     | SAE 1 SAE 0 SAE 00 |      |      | L6   | kg   |
|-----|-----|--------------------|------|------|------|------|
| L1  | L2  | L4                 | L4   | L4   |      |      |
| 97  | 745 | -                  | 844  | -    | 810  | 1830 |
| 97  | 835 | -                  | 955  | 971  | 980  | 2365 |
| 101 | 881 | -                  | 1042 | 1042 | 1200 | 1950 |
| 101 | 892 | -                  | 1053 | 1053 | 1200 | 2600 |
| 107 | 933 | -                  | -    | 1158 | 1190 | 1800 |
| 107 | 934 | -                  | -    | 1159 | 1190 | 2300 |
| 107 | 951 | -                  | -    | -    | 1190 | 3200 |



|     |     | SAE 1 SAE 0 SAE 00 |     |    | L6  | kg  |
|-----|-----|--------------------|-----|----|-----|-----|
| L1  | L2  | L4                 | L4  | L4 |     |     |
| 69  | 483 | 64                 | -   | -  | 680 | 295 |
| 100 | 564 | 109                | 109 | -  | 700 | 340 |
| -   | 675 | 60                 | 102 | -  | 840 | 490 |



## Main Dimensions

### LAF

Reduction gearbox for propulsion with controllable pitch propeller

- Vertical offset
- optional SAE housing

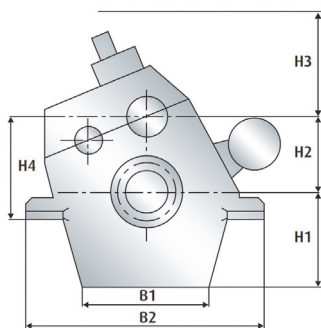
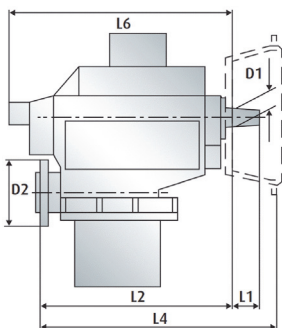
| Size       | B1  | B2   | H1  | H2  | H3  | H4  | D1 | D2  |
|------------|-----|------|-----|-----|-----|-----|----|-----|
| <b>665</b> | 430 | 1160 | 490 | 430 | 540 | 560 | 85 | 420 |
| <b>675</b> | 650 | 1480 | 610 | 550 | 540 | 680 | 85 | 420 |
| <b>743</b> | 610 | 1160 | 490 | 380 | 550 | 510 | 92 | 350 |
| <b>763</b> | 680 | 1300 | 530 | 490 | 550 | 630 | 92 | 375 |
| <b>773</b> | 790 | 1670 | 680 | 620 | 550 | 760 | 92 | 420 |

### WAF

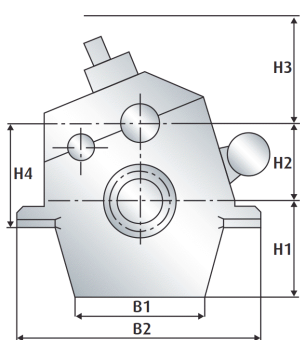
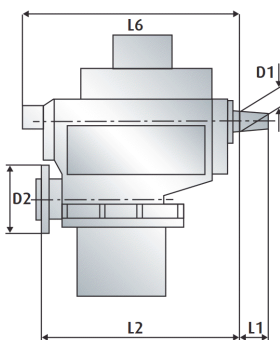
Reverse-reduction gearbox for propulsion with fixed pitch propeller

- Vertical offset

| Size        | B1   | B2   | H1  | H2  | H3  | H4  |
|-------------|------|------|-----|-----|-----|-----|
| <b>843</b>  | 680  | 1300 | 530 | 425 | 550 | 565 |
| <b>863</b>  | 705  | 1400 | 590 | 540 | 550 | 690 |
| <b>873</b>  | 860  | 1650 | 750 | 670 | 550 | 710 |
| <b>1143</b> | 705  | 1400 | 590 | 450 | 650 | 600 |
| <b>1163</b> | 855  | 1520 | 660 | 590 | 650 | 750 |
| <b>1173</b> | 1000 | 1800 | 810 | 730 | 880 | 890 |
| <b>1543</b> | 855  | 1520 | 660 | 490 | 650 | 650 |



|     |     | SAE 1 SAE 0 SAE 00 |      |      | L6   | kg   |
|-----|-----|--------------------|------|------|------|------|
| L1  | L2  | L4                 | L4   | L4   |      |      |
| 101 | 881 | -                  | 1042 | 1042 | 1200 | 1800 |
| 101 | 892 | -                  | 1053 | 1053 | 1200 | 2450 |
| 107 | 933 | -                  | -    | 1158 | 1190 | 1600 |
| 107 | 934 | -                  | -    | 1159 | 1190 | 2100 |
| 107 | 951 | -                  | -    | -    | 1190 | 3000 |



| D1  | D2  | L1  | L2   | L6   | kg   |
|-----|-----|-----|------|------|------|
| 107 | 375 | 142 | 970  | 1280 | 2300 |
| 107 | 420 | 142 | 1000 | 1280 | 3100 |
| 107 | 480 | 142 | 1030 | 1280 | 4100 |
| 107 | 420 | 142 | 1053 | 1368 | 2750 |
| 107 | 480 | 142 | 1085 | 1368 | 3600 |
| 107 | 550 | 142 | 1008 | 1400 | 5000 |
| 117 | 480 | 154 | 1133 | 1413 | 3400 |



# Main Dimensions

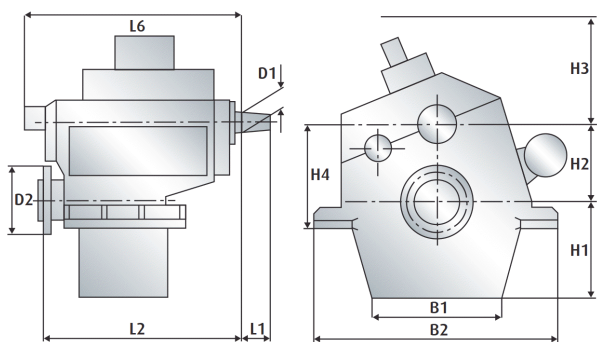
## WAF

Reverse-reduction gearbox for propulsion with fixed pitch propeller

- Vertical offset

| Size        | B1   | B2   | H1   | H2   | H3   | H4   |
|-------------|------|------|------|------|------|------|
| <b>1563</b> | 925  | 1620 | 675  | 630  | 650  | 790  |
| <b>1943</b> | 925  | 1620 | 675  | 485  | 600  | 645  |
| <b>1963</b> | 970  | 1680 | 720  | 675  | 600  | 845  |
| <b>1973</b> | 1000 | 2210 | 865  | 820  | 700  | 970  |
| <b>2346</b> | 730  | 1550 | 630  | 560  | 600  | 720  |
| <b>2355</b> | 920  | 1780 | 730  | 660  | 600  | 820  |
| <b>2365</b> | 1050 | 2120 | 770  | 760  | 600  | 920  |
| <b>2375</b> | 900  | 2120 | 875  | 865  | 700  | 1085 |
| <b>3445</b> | 790  | 1660 | 660  | 600  | 560  | 760  |
| <b>3455</b> | 930  | 1880 | 770  | 710  | 700  | 870  |
| <b>3465</b> | 930  | 2100 | 850  | 815  | 700  | 975  |
| <b>3475</b> | 1150 | 2380 | 970  | 925  | 700  | 1095 |
| <b>4545</b> | 930  | 1880 | 770  | 650  | 600  | 810  |
| <b>4555</b> | 960  | 1980 | 810  | 765  | 600  | 935  |
| <b>4566</b> | 1240 | 2400 | 935  | 885  | 730  | 1065 |
| <b>4575</b> | 1480 | 2750 | 1055 | 1010 | 730  | 1190 |
| <b>5645</b> | 1100 | 1980 | 810  | 690  | 700  | 860  |
| <b>5655</b> | 1275 | 2240 | 870  | 815  | 700  | 995  |
| <b>5666</b> | 1395 | 2420 | 980  | 935  | 700  | 1135 |
| <b>5675</b> | 1600 | 2700 | 1110 | 1055 | 700  | 1255 |
| <b>6745</b> | 1275 | 2240 | 870  | 735  | 950  | 915  |
| <b>6755</b> | 1280 | 2280 | 930  | 880  | 950  | 1080 |
| <b>6766</b> | 1500 | 2450 | 1040 | 1000 | 1000 | 1260 |
| <b>7740</b> | 1280 | 2280 | 930  | 800  | 900  | 1000 |
| <b>7750</b> | 1300 | 2300 | 910  | 900  | 900  | 1100 |
| <b>7760</b> | 1500 | 2450 | 1040 | 1050 | 1000 | 1310 |





| D1  | D2  | L1  | L2   | L6   | kg    |
|-----|-----|-----|------|------|-------|
| 117 | 550 | 154 | 1163 | 1413 | 4460  |
| 127 | 550 | 162 | 1261 | 1556 | 4460  |
| 127 | 600 | 162 | 1281 | 1556 | 5540  |
| 127 | 650 | 162 | 1347 | 1700 | 8500  |
| 162 | 550 | 200 | 1475 | 1800 | 6000  |
| 162 | 600 | 200 | 1470 | 1800 | 7000  |
| 162 | 600 | 200 | 1470 | 1800 | 8000  |
| 162 | 650 | 200 | 1480 | 1800 | 10000 |
| 167 | 600 | 200 | 1540 | 1870 | 7100  |
| 167 | 650 | 200 | 1550 | 1870 | 8500  |
| 167 | 650 | 200 | 1550 | 1870 | 10400 |
| 167 | 670 | 200 | 1570 | 1870 | 11500 |
| 187 | 650 | 235 | 1630 | 1970 | 8900  |
| 187 | 670 | 235 | 1655 | 1970 | 10500 |
| 187 | 710 | 235 | 1695 | 2050 | 12600 |
| 187 | 710 | 235 | 1695 | 2050 | 14100 |
| 195 | 670 | 250 | 1725 | 2090 | 11600 |
| 195 | 710 | 250 | 1765 | 2090 | 13200 |
| 195 | 750 | 250 | 1870 | 2090 | 16000 |
| 195 | 800 | 250 | 1710 | 2090 | 18000 |
| 217 | 710 | 265 | 1870 | 2220 | 15000 |
| 217 | 750 | 265 | 1875 | 2220 | 17000 |
| 217 | 800 | 265 | 1915 | 2220 | 18000 |
| 217 | 750 | 305 | 1985 | 2390 | 17000 |
| 217 | 800 | 305 | 2030 | 2390 | 19000 |
| 217 | 900 | 305 | 2110 | 2390 | 20500 |



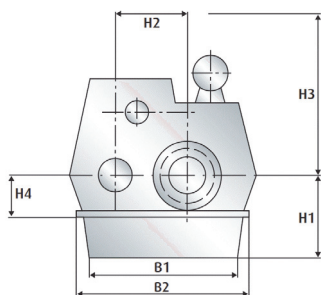
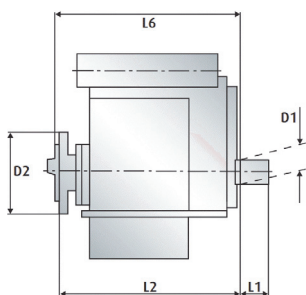
# Main Dimensions

## WAF

Reverse-reduction gearbox for propulsion with fixed pitch propeller

- Horizontal offset

| Size        | B1   | B2   | H1  | H2  | H3   | H4  |
|-------------|------|------|-----|-----|------|-----|
| <b>2346</b> | 1160 | 1980 | 600 | 560 | 1250 | 160 |
| <b>2355</b> | 1000 | 2180 | 680 | 660 | 1250 | 160 |
| <b>2365</b> | 1481 | 2100 | 770 | 760 | 1290 | 350 |
| <b>3445</b> | 1240 | 2060 | 660 | 600 | 1150 | 160 |
| <b>3455</b> | 1550 | 2430 | 770 | 710 | 1200 | 160 |
| <b>4545</b> | 1450 | 1950 | 710 | 650 | 1350 | 160 |
| <b>4555</b> | 1600 | 2470 | 820 | 765 | 1300 | 170 |
| <b>5666</b> | 1545 | 2050 | 740 | 690 | 1350 | 400 |
| <b>6745</b> | 1550 | 2150 | 780 | 735 | 1350 | 445 |
| <b>6755</b> | 1810 | 2590 | 920 | 880 | 1380 | 445 |



| D1  | D2  | L1  | L2   | L6   | kg    |
|-----|-----|-----|------|------|-------|
| 162 | 550 | 198 | 1485 | 1800 | 7200  |
| 162 | 600 | 198 | 1470 | 1800 | 7500  |
| 162 | 600 | 198 | 1470 | 1800 | 9400  |
| 167 | 600 | 198 | 1540 | 1880 | 8200  |
| 167 | 650 | 198 | 1550 | 1880 | 9800  |
| 187 | 650 | 237 | 1630 | 1970 | 10500 |
| 187 | 670 | 237 | 1655 | 1970 | 11800 |
| 197 | 670 | 251 | 1725 | 2080 | 13000 |
| 217 | 710 | 263 | 1875 | 2210 | 15200 |
| 217 | 750 | 263 | 1875 | 2210 | 17600 |



## Main Dimensions

### WVS

Reverse-reduction gearbox for propulsion with fixed pitch propeller

- Vertical offset

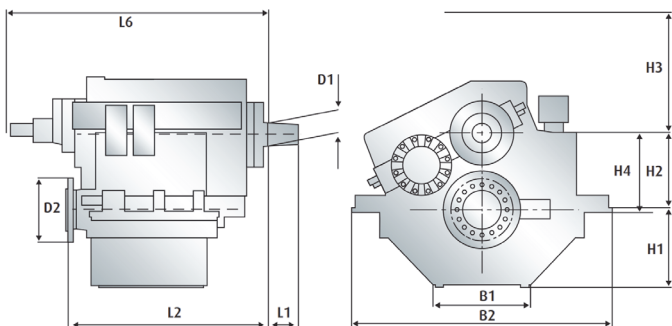
| Size         | B1  | B2   | H1  | H2  | H3  | H4  |
|--------------|-----|------|-----|-----|-----|-----|
| <b>730/1</b> | 650 | 1036 | 323 | 310 | 540 | 340 |
| <b>930/1</b> | 750 | 1166 | 348 | 340 | 560 | 385 |
| <b>1130</b>  | 700 | 1350 | 435 | 425 | 650 | 440 |
| <b>1540</b>  | 650 | 1300 | 390 | 390 | 700 | 405 |
| <b>1930</b>  | 500 | 1340 | 400 | 390 | 650 | 405 |
| <b>2230</b>  | 700 | 1500 | 500 | 460 | 550 | 475 |
| <b>2240</b>  | 700 | 1500 | 500 | 460 | 550 | 475 |

### LAF

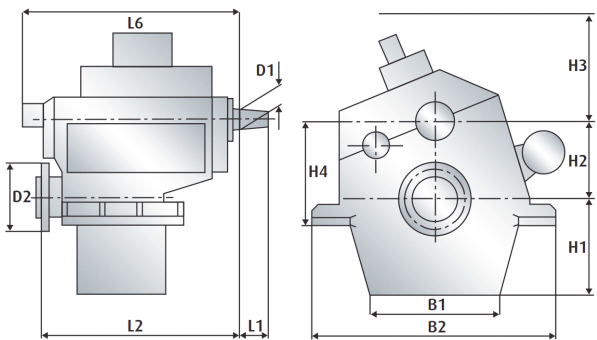
Reduction gearbox for propulsion with controllable pitch propeller

- Vertical offset

| Size        | B1   | B2   | H1  | H2  | H3  | H4  |
|-------------|------|------|-----|-----|-----|-----|
| <b>843</b>  | 680  | 1300 | 530 | 425 | 550 | 565 |
| <b>863</b>  | 705  | 1400 | 590 | 540 | 550 | 690 |
| <b>873</b>  | 860  | 1650 | 750 | 670 | 550 | 710 |
| <b>1143</b> | 705  | 1400 | 590 | 450 | 650 | 600 |
| <b>1163</b> | 855  | 1520 | 660 | 590 | 650 | 750 |
| <b>1173</b> | 1000 | 1800 | 810 | 730 | 880 | 890 |



| D1  | D2  | L1  | L2   | L6   | kg   |
|-----|-----|-----|------|------|------|
| 92  | 260 | 110 | 795  | 965  | 725  |
| 102 | 280 | 120 | 845  | 1024 | 950  |
| 117 | 350 | 157 | 1085 | 1255 | 1600 |
| 107 | 330 | 142 | 952  | 1375 | 1450 |
| 117 | 330 | 154 | 1032 | 1300 | 1550 |
| 127 | 350 | 162 | 1180 | 1480 | 2150 |
| 127 | 390 | 162 | 1180 | 1480 | 2185 |



| D1  | D2  | L1  | L2   | L6   | kg   |
|-----|-----|-----|------|------|------|
| 107 | 375 | 142 | 970  | 1280 | 2640 |
| 107 | 420 | 142 | 1000 | 1280 | 2850 |
| 107 | 480 | 142 | 1030 | 1280 | 3850 |
| 107 | 420 | 142 | 1053 | 1368 | 2450 |
| 107 | 480 | 142 | 1085 | 1368 | 3300 |
| 107 | 550 | 142 | 1008 | 1400 | 4600 |



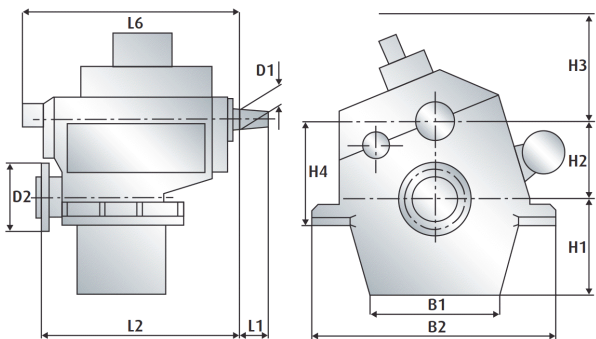
# Main Dimensions

## LAF

Reduction gearbox for propulsion with controllable pitch propeller

- Vertical offset

| Size        | B1   | B2   | H1   | H2   | H3  | H4   |
|-------------|------|------|------|------|-----|------|
| <b>1543</b> | 855  | 1520 | 660  | 490  | 650 | 650  |
| <b>1563</b> | 925  | 1620 | 675  | 630  | 650 | 790  |
| <b>1943</b> | 925  | 1620 | 675  | 485  | 600 | 645  |
| <b>1963</b> | 970  | 1680 | 720  | 675  | 600 | 845  |
| <b>1973</b> | 1000 | 2210 | 865  | 820  | 700 | 970  |
| <b>2355</b> | 920  | 1780 | 730  | 660  | 600 | 820  |
| <b>3445</b> | 790  | 1660 | 660  | 600  | 560 | 760  |
| <b>3455</b> | 930  | 1880 | 770  | 710  | 700 | 870  |
| <b>3465</b> | 930  | 2100 | 850  | 815  | 700 | 975  |
| <b>3475</b> | 1150 | 2380 | 970  | 925  | 700 | 1095 |
| <b>4545</b> | 930  | 1880 | 770  | 650  | 750 | 810  |
| <b>4555</b> | 960  | 1980 | 810  | 765  | 750 | 935  |
| <b>4566</b> | 1240 | 2400 | 935  | 885  | 750 | 1065 |
| <b>4575</b> | 1480 | 2750 | 1055 | 1010 | 750 | 1190 |



| D1  | D2  | L1  | L2   | L6   | kg    |
|-----|-----|-----|------|------|-------|
| 117 | 480 | 154 | 1133 | 1413 | 3000  |
| 117 | 550 | 154 | 1163 | 1413 | 4000  |
| 127 | 550 | 162 | 1261 | 1556 | 4060  |
| 127 | 600 | 162 | 1281 | 1556 | 4940  |
| 127 | 650 | 162 | 1347 | 1700 | 7580  |
| 162 | 600 | 200 | 1470 | 1800 | 6300  |
| 167 | 600 | 200 | 1540 | 1870 | 6400  |
| 167 | 650 | 200 | 1550 | 1870 | 7800  |
| 167 | 650 | 200 | 1550 | 1870 | 9700  |
| 167 | 670 | 200 | 1570 | 1870 | 10800 |
| 187 | 650 | 235 | 1630 | 1970 | 8000  |
| 187 | 670 | 235 | 1655 | 1970 | 9500  |
| 187 | 710 | 235 | 1695 | 2050 | 11100 |
| 187 | 710 | 235 | 1695 | 2050 | 13100 |



## Main Dimensions

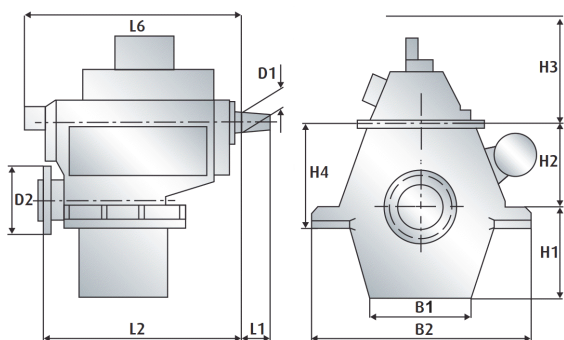
### LAF

Reduction gearbox for propulsion with controllable pitch propeller

- Vertical offset

| Size        | B1   | B2   | H1   | H2   | H3  | H4   |
|-------------|------|------|------|------|-----|------|
| <b>2346</b> | 730  | 1550 | 630  | 560  | 600 | 720  |
| <b>2365</b> | 1050 | 2120 | 770  | 760  | 600 | 920  |
| <b>2375</b> | 900  | 2120 | 875  | 865  | 700 | 1085 |
| <b>5645</b> | 1100 | 1980 | 810  | 690  | 900 | 860  |
| <b>5655</b> | 1275 | 2240 | 870  | 815  | 900 | 995  |
| <b>5666</b> | 1395 | 2420 | 980  | 935  | 900 | 1135 |
| <b>5675</b> | 1600 | 2700 | 1110 | 1055 | 900 | 1255 |
| <b>6745</b> | 1275 | 2240 | 870  | 735  | 900 | 915  |
| <b>6755</b> | 1280 | 2280 | 930  | 880  | 900 | 1080 |
| <b>6766</b> | 1500 | 2450 | 1040 | 1000 | 900 | 1260 |
| <b>7740</b> | 1280 | 2280 | 930  | 800  | 900 | 1000 |
| <b>7750</b> | 1300 | 2300 | 910  | 900  | 900 | 1100 |
| <b>7760</b> | 1500 | 2450 | 1040 | 1050 | 900 | 1310 |





| D1  | D2  | L1  | L2   | L6   | kg    |
|-----|-----|-----|------|------|-------|
| 162 | 550 | 200 | 1475 | 1800 | 5200  |
| 162 | 600 | 200 | 1470 | 1800 | 7000  |
| 162 | 650 | 200 | 1480 | 1800 | 9200  |
| 195 | 670 | 250 | 1725 | 2090 | 9000  |
| 195 | 710 | 250 | 1765 | 2090 | 11800 |
| 195 | 750 | 250 | 1870 | 2090 | 13800 |
| 195 | 800 | 250 | 1710 | 2090 | 17000 |
| 217 | 710 | 265 | 1870 | 2220 | 12000 |
| 217 | 750 | 265 | 1875 | 2220 | 13800 |
| 217 | 800 | 265 | 1915 | 2220 | 17000 |
| 217 | 750 | 305 | 1985 | 2390 | 15500 |
| 217 | 800 | 305 | 2030 | 2390 | 16500 |
| 217 | 900 | 305 | 2110 | 2390 | 17500 |



## Main Dimensions

### LAF

Reduction gearbox for propulsion with controllable pitch propeller

- Horizontal offset

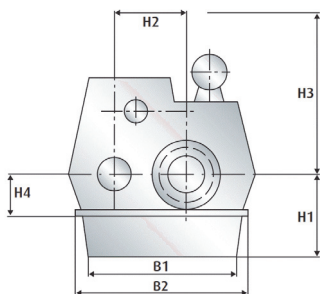
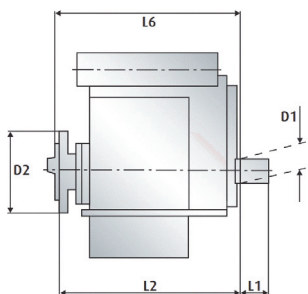
| Size        | B1   | B2   | H1  | H2  | H3   | H4  |
|-------------|------|------|-----|-----|------|-----|
| <b>2346</b> | 1160 | 1980 | 600 | 560 | 1250 | 160 |
| <b>2355</b> | 1000 | 2180 | 680 | 660 | 1250 | 160 |
| <b>2365</b> | 1481 | 2100 | 770 | 760 | 1290 | 350 |
| <b>3445</b> | 1240 | 2060 | 660 | 600 | 1150 | 160 |
| <b>3455</b> | 1550 | 2430 | 770 | 710 | 1200 | 160 |
| <b>4545</b> | 1450 | 1950 | 710 | 650 | 1350 | 160 |
| <b>4555</b> | 1600 | 2470 | 820 | 765 | 1300 | 170 |
| <b>5666</b> | 1545 | 2050 | 740 | 690 | 1350 | 400 |
| <b>6745</b> | 1550 | 2150 | 780 | 735 | 1350 | 445 |
| <b>6755</b> | 1810 | 2590 | 920 | 880 | 1380 | 445 |

### WLS

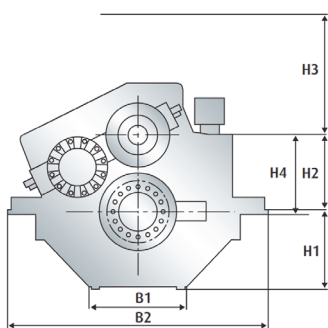
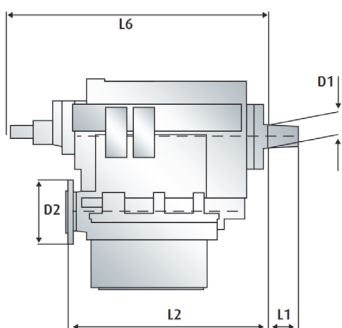
Reduction gearbox for propulsion with controllable pitch propeller

- Vertical offset

| Size         | B1  | B2   | H1  | H2  | H3  | H4  |
|--------------|-----|------|-----|-----|-----|-----|
| <b>730/1</b> | 650 | 1036 | 323 | 310 | 540 | 340 |
| <b>930/1</b> | 750 | 1166 | 348 | 340 | 560 | 385 |
| <b>1130</b>  | 700 | 1350 | 435 | 425 | 650 | 440 |



| D1  | D2  | L1  | L2   | L6   | kg    |
|-----|-----|-----|------|------|-------|
| 162 | 550 | 198 | 1485 | 1800 | 6500  |
| 162 | 600 | 198 | 1470 | 1800 | 6800  |
| 162 | 600 | 198 | 1470 | 1800 | 8600  |
| 167 | 600 | 198 | 1540 | 1880 | 7500  |
| 167 | 650 | 198 | 1550 | 1880 | 9100  |
| 187 | 650 | 237 | 1630 | 1970 | 9600  |
| 187 | 670 | 237 | 1655 | 1970 | 10800 |
| 197 | 670 | 251 | 1725 | 2080 | 12500 |
| 217 | 710 | 263 | 1875 | 2210 | 14200 |
| 217 | 750 | 263 | 1875 | 2210 | 16600 |



| D1  | D2  | L1  | L2   | L6   | kg   |
|-----|-----|-----|------|------|------|
| 92  | 260 | 110 | 795  | 965  | 575  |
| 102 | 280 | 120 | 845  | 1024 | 750  |
| 117 | 350 | 157 | 1085 | 1255 | 1320 |



# Main Dimensions

## WLS

Reduction gearbox for propulsion with controllable pitch propeller

- Vertical offset

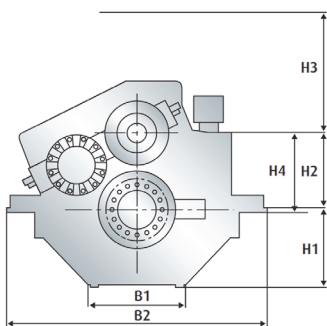
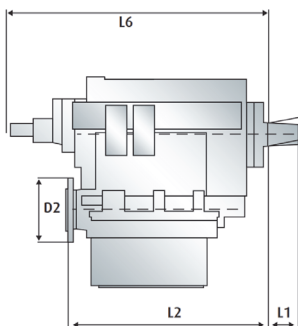
| Size        | B1  | B2   | H1  | H2  | H3  | H4  |
|-------------|-----|------|-----|-----|-----|-----|
| <b>1540</b> | 650 | 1300 | 390 | 390 | 700 | 405 |
| <b>1930</b> | 500 | 1340 | 400 | 390 | 650 | 405 |
| <b>2230</b> | 700 | 1500 | 500 | 460 | 550 | 475 |
| <b>2240</b> | 700 | 1500 | 500 | 460 | 550 | 475 |

## VA

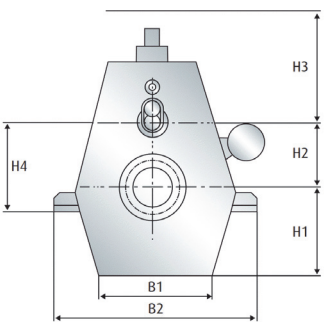
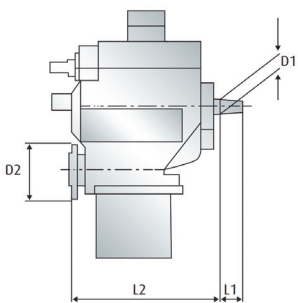
Reduction gearbox without clutch for propulsion with controllable pitch propeller

- Vertical offset

| Size        | B1   | B2   | H1  | H2  | H3   | H4   |
|-------------|------|------|-----|-----|------|------|
| <b>2451</b> | 1090 | 1650 | 660 | 600 | 890  | 820  |
| <b>2741</b> | 800  | 1650 | 720 | 560 | 840  | 760  |
| <b>3451</b> | 1100 | 2000 | 860 | 720 | 860  | 940  |
| <b>3462</b> | 1720 | 2150 | 900 | 820 | 1080 | 1040 |
| <b>3541</b> | 1000 | 1780 | 760 | 630 | 840  | 850  |
| <b>4851</b> | 1230 | 2250 | 900 | 820 | 970  | 1040 |
| <b>4855</b> | 1220 | 2000 | 880 | 850 | 970  | 1130 |



| D1  | D2  | L1  | L2   | L6   | kg   |
|-----|-----|-----|------|------|------|
| 107 | 330 | 142 | 952  | 1375 | 1136 |
| 117 | 330 | 154 | 1032 | 1300 | 1214 |
| 127 | 350 | 162 | 1180 | 1480 | 1750 |
| 127 | 390 | 162 | 1180 | 1480 | 1830 |



| D1  | D2  | L1  | L2   | L6 | kg    |
|-----|-----|-----|------|----|-------|
| 157 | 600 | 183 | 1487 | -  | 5100  |
| 187 | 600 | 237 | 1407 | -  | 5500  |
| 187 | 650 | 237 | 1450 | -  | 8700  |
| 187 | 650 | 237 | 1666 | -  | 10200 |
| 197 | 650 | 251 | 1485 | -  | 7600  |
| 197 | 750 | 263 | 1566 | -  | 12000 |
| 217 | 750 | 306 | 1626 | -  | 12500 |



# Main Dimensions

## VA

Reduction gearbox without clutch for propulsion with controllable pitch propeller

- Horizontal offset

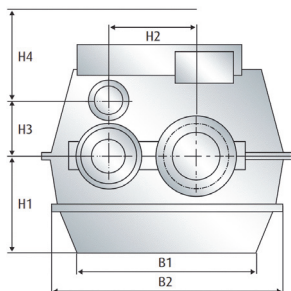
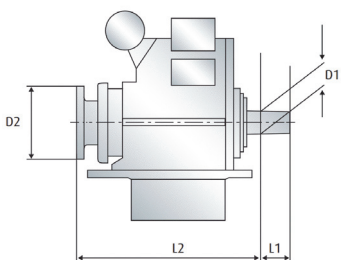
| Size        | B1   | B2   | H1  | H2  | H3  | H4   |
|-------------|------|------|-----|-----|-----|------|
| <b>2451</b> | 1535 | 1935 | 650 | 560 | 430 | 650  |
| <b>3451</b> | 1470 | 1890 | 810 | 720 | 455 | 940  |
| <b>3541</b> | 1340 | 1850 | 760 | 630 | 472 | 828  |
| <b>4855</b> | 2050 | 2460 | 880 | 900 | 500 | 1300 |

## SVA

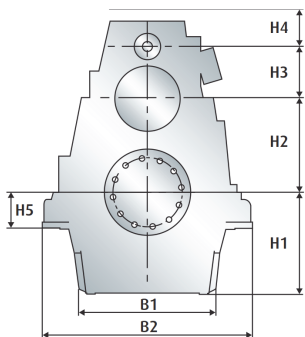
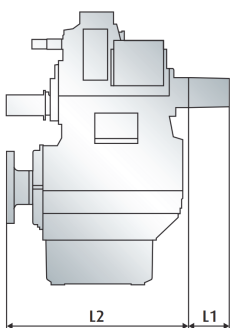
Reduction gearbox with slide bearings for propulsion with controllable pitch propeller

- Vertical offset

| Size        | B1   | B2   | H1   | H2   | H3  | H4  |
|-------------|------|------|------|------|-----|-----|
| <b>630</b>  | 1000 | 1810 | 790  | 630  | 455 | 550 |
| <b>750</b>  | 1198 | 1870 | 870  | 750  | 500 | 550 |
| <b>800</b>  | 1198 | 1870 | 870  | 800  | 500 | 550 |
| <b>850</b>  | 1410 | 2240 | 1020 | 850  | 500 | 620 |
| <b>900</b>  | 1410 | 2240 | 1020 | 900  | 570 | 750 |
| <b>950</b>  | 1730 | 2340 | 1060 | 950  | 570 | 600 |
| <b>1000</b> | 1630 | 2440 | 1100 | 1000 | 570 | 650 |
| <b>1050</b> | 1730 | 2550 | 1100 | 1050 | 570 | 650 |
| <b>1120</b> | 1730 | 2560 | 1150 | 1120 | 650 | 730 |



| D1  | D2  | L1  | L2   | L6 | kg    |
|-----|-----|-----|------|----|-------|
| 220 | 770 | 250 | 1700 | -  | 5100  |
| 187 | 650 | 237 | 1747 | -  | 8700  |
| 220 | 650 | 251 | 1600 | -  | 7600  |
| 190 | 690 | 266 | 1934 | -  | 12500 |



| D1 | D2 | L1 | L2   | L6 | kg    |
|----|----|----|------|----|-------|
| -  | -  | -  | 1550 | -  | 7700  |
| -  | -  | -  | 1663 | -  | 8900  |
| -  | -  | -  | 1850 | -  | 10500 |
| -  | -  | -  | 1977 | -  | 16000 |
| -  | -  | -  | 2066 | -  | 17000 |
| -  | -  | -  | 2250 | -  | 17500 |
| -  | -  | -  | 2180 | -  | 19500 |
| -  | -  | -  | 2180 | -  | 21000 |
| -  | -  | -  | 2300 | -  | 22500 |



# Main Dimensions

## SVA

Reduction gearbox with slide bearings for propulsion with controllable pitch propeller

- Vertical offset

| Size        | B1   | B2   | H1   | H2   | H3  | H4  |
|-------------|------|------|------|------|-----|-----|
| <b>1200</b> | 2112 | 3100 | 1245 | 1200 | 650 | 750 |
| <b>1250</b> | 1725 | 3100 | 1400 | 1250 | 650 | 490 |

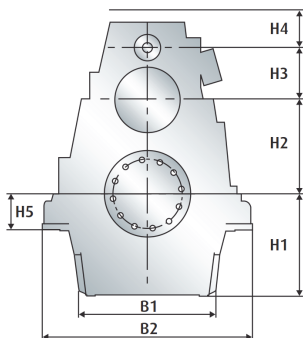
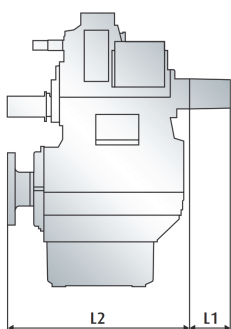
## DLG

Twin input/single output reduction gearbox with hydraulically operated clutches

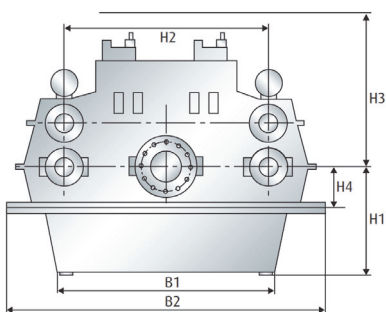
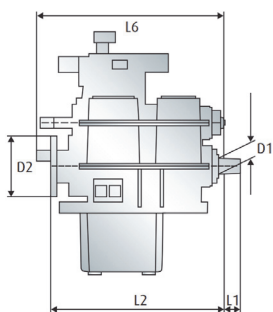
- Horizontal offset
- Quoted power for size orientation only

| Size        | B1   | B2   | H1   | H2   | H3   | H4  |
|-------------|------|------|------|------|------|-----|
| <b>1113</b> | 2040 | 3050 | 1000 | 2000 | 1255 | 350 |
| <b>1116</b> | 1900 | 3000 | 1000 | 2000 | 1350 | 350 |
| <b>1120</b> | 1400 | 2400 | 815  | 1600 | 1200 | 380 |
| <b>1513</b> | 2040 | 3050 | 1000 | 2000 | 1250 | 350 |
| <b>1516</b> | 2400 | 3330 | 750  | 2250 | 1800 | 400 |
| <b>1525</b> | 2200 | 3250 | 1090 | 2200 | 1550 | 380 |
| <b>1913</b> | 2100 | 2780 | 1000 | 2000 | 1650 | 400 |
| <b>1916</b> | 2880 | 3400 | 1150 | 2500 | 1800 | 360 |
| <b>1925</b> | 2700 | 3500 | 1310 | 2500 | 1800 | 460 |
| <b>1931</b> | 2700 | 3900 | 1210 | 2300 | 1640 | 540 |
| <b>2316</b> | 2000 | 2800 | 1030 | 2300 | 1580 | 390 |





| D1 | D2 | L1 | L2   | L6 | kg    |
|----|----|----|------|----|-------|
| -  | -  | -  | 2260 | -  | 31000 |
| -  | -  | -  | 2504 | -  | 34000 |



| D1  | D2  | L1  | L2   | L6   | kg    | kW/rpm      |
|-----|-----|-----|------|------|-------|-------------|
| 107 | 620 | 142 | 1240 | 1430 | 9500  | <b>3,26</b> |
| 107 | 560 | 142 | 1450 | 1640 | 12000 | <b>3,26</b> |
| 107 | 650 | 142 | 1235 | 1450 | 8400  | <b>3,26</b> |
| 117 | 510 | 154 | 1510 | 1730 | 9500  | <b>4,08</b> |
| 117 | 600 | 154 | 1398 | 1650 | 13500 | <b>4,08</b> |
| 117 | 650 | 154 | 1480 | 1720 | 13800 | <b>4,08</b> |
| 127 | 550 | 162 | 1440 | 1750 | 10500 | <b>4,40</b> |
| 127 | 600 | 162 | 1450 | 1750 | 15000 | <b>4,40</b> |
| 127 | 670 | 162 | 1440 | 1750 | 16000 | <b>4,40</b> |
| 127 | 710 | 162 | 1735 | 2000 | 22500 | <b>4,40</b> |
| 162 | 600 | 198 | 1620 | 2000 | 19000 | <b>4,90</b> |



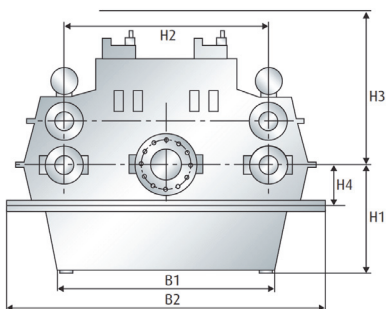
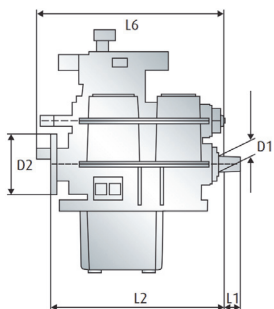
# Main Dimensions

## DLG

Twin input/single output reduction gearbox with hydraulically operated clutches

- Horizontal offset
- Quoted power for size orientation only

| Size          | B1   | B2   | H1   | H2   | H3   | H4  |
|---------------|------|------|------|------|------|-----|
| <b>3325</b>   | 2250 | 3060 | 1250 | 2500 | 1500 | 440 |
| <b>3331</b>   | 2080 | 3060 | 1250 | 2500 | 1500 | 440 |
| <b>4431</b>   | 2700 | 3200 | 1260 | 2500 | 1750 | 450 |
| <b>4447</b>   | 2800 | 3900 | 1300 | 2500 | 1730 | 500 |
| <b>5520</b>   | 2800 | 3580 | 1250 | 2500 | 1800 | 500 |
| <b>5539</b>   | 2100 | 3460 | 1315 | 2800 | 1700 | 640 |
| <b>5547</b>   | 2800 | 3580 | 1250 | 2500 | 1800 | 640 |
| <b>5573</b>   | 3300 | 4180 | 1410 | 2800 | 2050 | 800 |
| <b>6673</b>   | 2900 | 4250 | 1400 | 2800 | 1850 | 675 |
| <b>7747</b>   | 3300 | 4300 | 1250 | 2800 | 1770 | 550 |
| <b>7773</b>   | 3200 | 4300 | 1250 | 2800 | 1800 | 550 |
| <b>8890</b>   | 3250 | 4100 | 1425 | 2800 | 1750 | 500 |
| <b>9990</b>   | 3000 | 5220 | 1550 | 3400 | 2050 | 750 |
| <b>110131</b> | 3000 | 5450 | 1550 | 3400 | 2050 | 750 |



| D1  | D2  | L1  | L2   | L6   | kg    | kW/rpm       |
|-----|-----|-----|------|------|-------|--------------|
| 167 | 770 | 198 | 1715 | 1920 | 19000 | <b>6,50</b>  |
| 167 | 915 | 198 | 1765 | 1900 | 20000 | <b>6,50</b>  |
| 187 | 710 | 237 | 1920 | 2210 | 24000 | <b>7,60</b>  |
| 187 | 820 | 237 | 2090 | 2300 | 26000 | <b>7,60</b>  |
| 197 | 650 | 251 | 1870 | 2115 | 28000 | <b>10,00</b> |
| 197 | 705 | 251 | 1995 | 2115 | 31000 | <b>10,00</b> |
| 197 | 800 | 251 | 2030 | 2400 | 28000 | <b>10,00</b> |
| 197 | 860 | 251 | 2300 | 2400 | 32000 | <b>10,00</b> |
| 217 | 860 | 263 | 2540 | 2350 | 37000 | <b>12,00</b> |
| 217 | 737 | 306 | 2255 | 2560 | 31000 | <b>15,74</b> |
| 217 | 750 | 306 | 2255 | 2560 | 31500 | <b>15,74</b> |
| 247 | 900 | 321 | 2370 | 2700 | 42000 | <b>20,00</b> |
| 247 | 900 | 321 | 2800 | 3000 | 51000 | <b>27,00</b> |
| 315 | 950 | 405 | 2435 | 3600 | 61000 | <b>44,00</b> |



# Main Dimensions

## RDG

Reduction gearbox without clutch for dredging pump

- Vertical offset

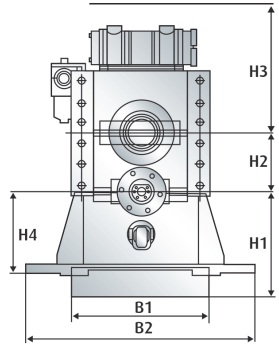
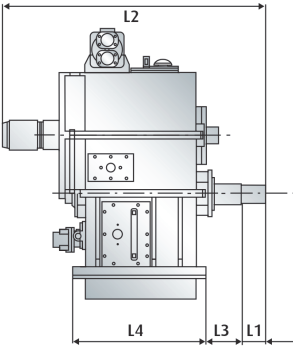
| Size       | B1   | B2   | B3 | H1  | H2  | H3  | H4  |
|------------|------|------|----|-----|-----|-----|-----|
| <b>355</b> | 700  | 1060 | -  | 410 | 355 | 600 | 150 |
| <b>400</b> | 900  | 1300 | -  | 460 | 400 | 600 | 150 |
| <b>500</b> | 1000 | 1500 | -  | 510 | 500 | 600 | 160 |

## RDGL

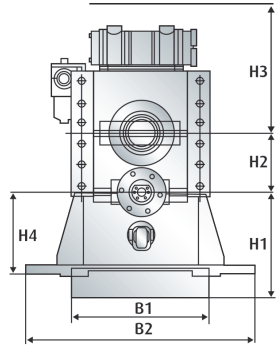
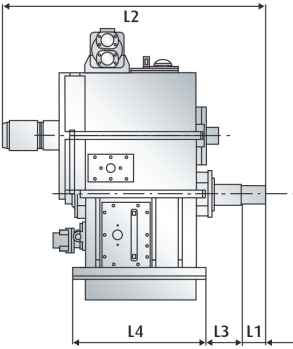
Reduction gearbox with clutch for dredging pump

- Vertical offset

| Size       | B1   | B2   | B3 | H1  | H2  | H3  | H4  |
|------------|------|------|----|-----|-----|-----|-----|
| <b>200</b> | 400  | 720  | -  | 360 | 200 | 440 | 230 |
| <b>250</b> | 600  | 1000 | -  | 460 | 250 | 550 | 350 |
| <b>320</b> | 800  | 1150 | -  | 560 | 320 | 830 | 350 |
| <b>355</b> | 700  | 1060 | -  | 410 | 355 | 650 | 150 |
| <b>600</b> | 1200 | 1800 | -  | 660 | 600 | 800 | 200 |
| <b>800</b> | 1610 | 2200 | -  | 740 | 800 | 850 | 160 |



| D1 | D2 | L1  | L2   | L3 | kg   |
|----|----|-----|------|----|------|
| -  | -  | 135 | 975  | 7  | 1300 |
| -  | -  | 107 | 1022 | 11 | 2000 |
| -  | -  | 107 | 1062 | 51 | 2450 |



| D1 | D2 | L1  | L2   | L3  | kg   |
|----|----|-----|------|-----|------|
| -  | -  | 90  | 970  | 168 | 550  |
| -  | -  | 105 | 1177 | 160 | 1000 |
| -  | -  | 125 | 1435 | 173 | 1650 |
| -  | -  | 135 | 1335 | 347 | 1800 |
| -  | -  | 175 | 1625 | 401 | 4500 |
| -  | -  | 162 | 1462 | 300 | 7000 |



# Main Dimensions

## VLJ

Reduction gear for water jet propulsion

- Vertical offset

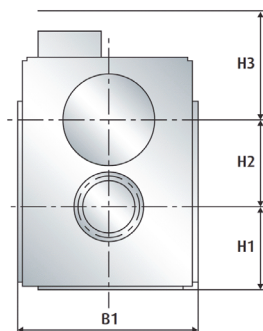
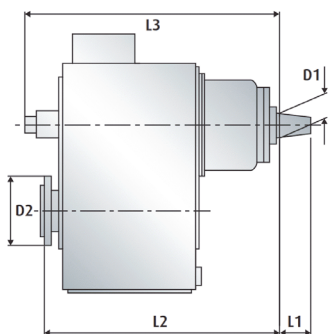
| Size         | B1  | B2 | B3 | H1  | H2  | H3  | H4 |
|--------------|-----|----|----|-----|-----|-----|----|
| <b>430</b>   | 540 | -  | -  | 270 | 235 | 185 | -  |
| <b>730/1</b> | 640 | -  | -  | 325 | 310 | 480 | -  |
| <b>930/1</b> | 720 | -  | -  | 350 | 340 | 500 | -  |
| <b>1130</b>  | 850 | -  | -  | 425 | 425 | 570 | -  |
| <b>1930</b>  | 800 | -  | -  | 400 | 390 | 700 | -  |
| <b>2230</b>  | 920 | -  | -  | 460 | 460 | 600 | -  |

## VLJ

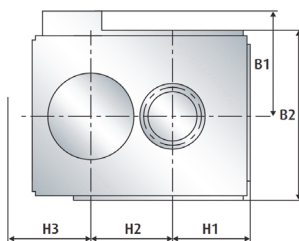
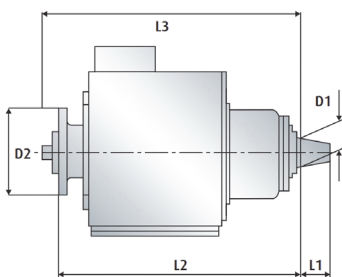
Reduction gear for water jet propulsion

- Horizontal offset

| Size         | B1  | B2  | B3 | H1  | H2  | H3  | H4 |
|--------------|-----|-----|----|-----|-----|-----|----|
| <b>430</b>   | 540 | 550 | -  | 270 | 235 | 185 | -  |
| <b>730/1</b> | 600 | 640 | -  | 325 | 310 | 220 | -  |
| <b>930/1</b> | 680 | 720 | -  | 350 | 340 | 240 | -  |
| <b>1130</b>  | 720 | 850 | -  | 425 | 425 | 270 | -  |
| <b>1930</b>  | 800 | 830 | -  | 400 | 390 | 280 | -  |
| <b>2230</b>  | 760 | 920 | -  | 460 | 460 | 300 | -  |



| D1  | D2  | L1  | L2   | L3   | kg   |
|-----|-----|-----|------|------|------|
| 75  | 220 | 97  | 686  | 952  | 360  |
| 92  | 260 | 110 | 795  | 1000 | 560  |
| 102 | 280 | 120 | 870  | 1125 | 740  |
| 117 | 350 | 154 | 1095 | 1240 | 1300 |
| 117 | 330 | 154 | 1032 | 1300 | 1150 |
| 127 | 390 | 162 | 1150 | 1300 | 1600 |



| D1  | D2  | L1  | L2   | L3   | kg   |
|-----|-----|-----|------|------|------|
| 75  | 220 | 97  | 686  | 952  | 360  |
| 92  | 260 | 110 | 795  | 1000 | 560  |
| 102 | 280 | 120 | 870  | 1125 | 740  |
| 117 | 350 | 154 | 1095 | 1240 | 1300 |
| 117 | 330 | 154 | 1032 | 1300 | 1150 |
| 127 | 390 | 162 | 1150 | 1300 | 1600 |



# Main Dimensions

## VLJ

Reduction gear for water jet propulsion

- Horizontal offset

| Size        | B1   | B2   | B3  | H1  | H2  | H3   | H4  |
|-------------|------|------|-----|-----|-----|------|-----|
| <b>4431</b> | 1050 | 1750 | 660 | 550 | 560 | 800  | 180 |
| <b>6831</b> | 1170 | 1690 | 600 | 565 | 600 | 900  | 180 |
| <b>6841</b> | 1005 | 1945 | 735 | 640 | 650 | 1000 | 55  |
| <b>7531</b> | 1310 | 1850 | 680 | 600 | 630 | 990  | 180 |
| <b>7541</b> | 1320 | 1975 | 745 | 640 | 665 | 1000 | 60  |

## Hybrid System WAF

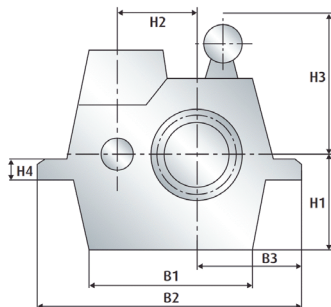
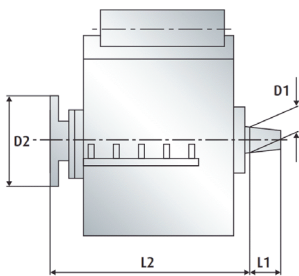
Reverse-reduction gearbox for propulsion with fixed pitch propeller

- Vertical offset

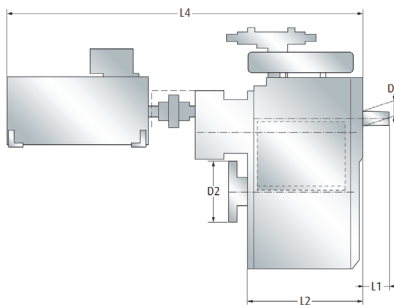
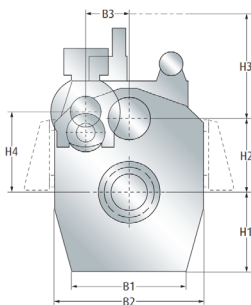
1) standard gearbox weight 2) weight with E-motor

| Size       | Motor<br>ekW       | B1  | B2  | B3  | D1 | D2  | D3 |
|------------|--------------------|-----|-----|-----|----|-----|----|
| <b>344</b> | <b>HS06</b><br>60  | 570 | 720 | 201 | 60 | 285 | -  |
| <b>344</b> | <b>HS10</b><br>100 | 570 | 720 | 201 | 60 | 285 | -  |





| D1  | D2  | L1  | L2   | L3 | kg   |
|-----|-----|-----|------|----|------|
| 187 | 550 | 237 | 1600 | -  | 3500 |
| 187 | 600 | 237 | 1500 | -  | 3600 |
| 187 | 650 | 237 | 1635 | -  | 4500 |
| 197 | 650 | 251 | 1700 | -  | 4300 |
| 197 | 650 | 251 | 1700 | -  | 4600 |



| H1  | H2  | H3  | H4   | H5 | H6    | H7    |
|-----|-----|-----|------|----|-------|-------|
| L1  | L2  | L3  | L4   |    | kg 1) | kg 2) |
| 265 | 250 | 590 | 249  | -  | -     | -     |
| 80  | 644 | -   | 1492 |    | -     | 1160  |
| 265 | 250 | 590 | 249  | -  | -     | -     |
| 80  | 644 | -   | 1712 |    | -     | 1280  |



# Main Dimensions

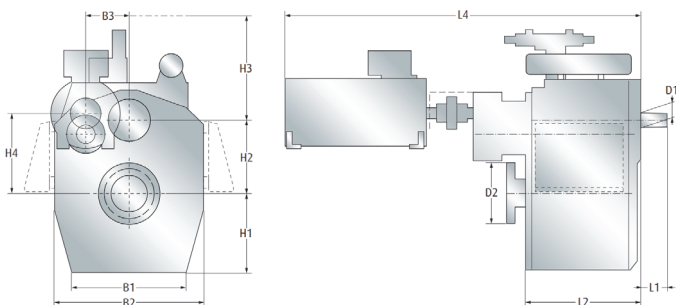
## Hybrid System WAF

Reverse-reduction gearbox for propulsion with fixed pitch propeller

- Vertical offset

1) standard gearbox weight 2) weight with E-motor

| Size | Motor<br>ekW | B1  | B2   | B3  | D1 | D2  | D3 |
|------|--------------|-----|------|-----|----|-----|----|
| 364  | HS06<br>60   | 580 | 750  | 213 | 60 | 325 | -  |
| 364  | HS10<br>100  | 580 | 750  | 213 | 60 | 325 | -  |
| 374  | HS06<br>60   | 800 | 930  | 216 | 60 | 325 | -  |
| 374  | HS10<br>100  | 800 | 930  | 216 | 60 | 325 | -  |
| 444  | HS06<br>60   | 493 | 804  | 208 | 75 | 300 | -  |
| 444  | HS10<br>100  | 493 | 804  | 208 | 75 | 300 | -  |
| 464  | HS06<br>60   | 575 | 800  | 219 | 75 | 325 | -  |
| 464  | HS10<br>100  | 575 | 800  | 219 | 75 | 325 | -  |
| 474  | HS06<br>60   | 760 | 1040 | 223 | 75 | 350 | -  |
| 474  | HS10<br>100  | 760 | 1040 | 223 | 75 | 350 | -  |
| 543  | HS06<br>60   | 535 | 840  | 229 | 75 | 325 | -  |



| H1  | H2  | H3  | H4   | H5 | H6    | H7    |
|-----|-----|-----|------|----|-------|-------|
| L1  | L2  | L3  | L4   |    | kg 1) | kg 2) |
| 380 | 345 | 590 | 372  | -  | -     | -     |
| 80  | 667 | -   | 1509 |    | -     | 1310  |
| 380 | 345 | 590 | 372  | -  | -     | -     |
| 80  | 667 | -   | 1729 |    | -     | 1430  |
| 460 | 410 | 590 | 448  | -  | -     | -     |
| 80  | 667 | -   | 1509 |    | -     | 1570  |
| 460 | 410 | 590 | 448  | -  | -     | -     |
| 80  | 667 | -   | 1729 |    | -     | 1690  |
| 285 | 270 | 670 | 272  | -  | -     | -     |
| 97  | 721 | -   | 1630 |    | -     | 1240  |
| 285 | 270 | 670 | 272  | -  | -     | -     |
| 97  | 721 | -   | 1850 |    | -     | 1360  |
| 400 | 375 | 670 | 405  | -  | -     | -     |
| 97  | 723 | -   | 1630 |    | -     | 1435  |
| 400 | 375 | 670 | 405  | -  | -     | -     |
| 97  | 723 | -   | 1850 |    | -     | 1550  |
| 510 | 460 | 580 | 503  | -  | -     | -     |
| 97  | 745 | -   | 1630 |    | -     | 1910  |
| 510 | 460 | 580 | 503  | -  | -     | -     |
| 97  | 745 | -   | 1850 |    | -     | 2030  |
| 380 | 310 | 735 | 309  | -  | -     | -     |
| 97  | 776 | -   | 1748 |    | -     | 1560  |



# Main Dimensions

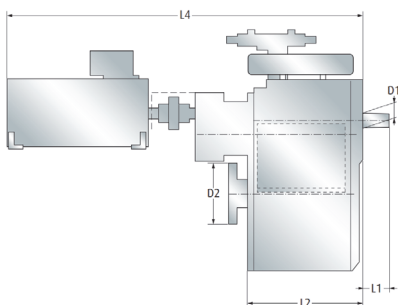
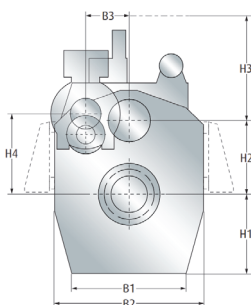
## Hybrid System WAF

Reverse-reduction gearbox for propulsion with fixed pitch propeller

- Vertical offset

1) standard gearbox weight 2) weight with E-motor

| Size | Motor<br>ekW | B1  | B2   | B3  | D1 | D2  | D3 |
|------|--------------|-----|------|-----|----|-----|----|
| 543  | HS10<br>100  | 535 | 840  | 229 | 75 | 325 | -  |
| 563  | HS06<br>60   | 570 | 920  | 238 | 75 | 350 | -  |
| 563  | HS10<br>100  | 570 | 920  | 238 | 75 | 350 | -  |
| 573  | HS06<br>60   | 690 | 1080 | 242 | 75 | 375 | -  |
| 573  | HS10<br>100  | 690 | 1080 | 242 | 75 | 375 | -  |



| H1  | H2  | H3  | H4   | H5 | H6    | H7    |
|-----|-----|-----|------|----|-------|-------|
| L1  | L2  | L3  | L4   |    | kg 1) | kg 2) |
| 380 | 310 | 735 | 309  | -  | -     | -     |
| 97  | 776 | -   | 1968 |    | -     | 1680  |
| 475 | 410 | 700 | 434  | -  | -     | -     |
| 97  | 822 | -   | 1748 |    | -     | 1850  |
| 475 | 410 | 700 | 434  | -  | -     | -     |
| 97  | 822 | -   | 1968 |    | -     | 1970  |
| 575 | 505 | 590 | 543  | -  | -     | -     |
| 97  | 836 | -   | 1748 |    | -     | 2350  |
| 575 | 505 | 590 | 543  | -  | -     | -     |
| 97  | 836 | -   | 1968 |    | -     | 2470  |



# Main Dimensions

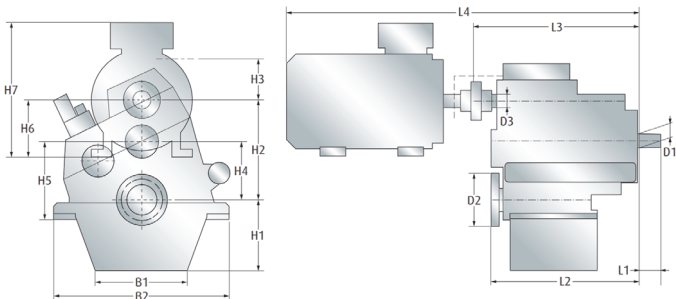
## Hybrid System WAF

Reverse-reduction gearbox for propulsion with fixed pitch propeller

- Vertical offset

1) standard gearbox weight 2) weight with E-motor

| Size | Motor<br>ekW | B1  | B2   | B3 | D1 | D2  | D3  |
|------|--------------|-----|------|----|----|-----|-----|
| 665  | HS20<br>200  | 430 | 1160 | -  | 85 | 420 | 80  |
| 665  | HS31<br>315  | 430 | 1160 | -  | 85 | 420 | 80  |
| 665  | HS40<br>400  | 430 | 1160 | -  | 85 | 420 | 80  |
| 675  | HS20<br>200  | 650 | 1480 | -  | 85 | 420 | 80  |
| 675  | HS31<br>315  | 650 | 1480 | -  | 85 | 420 | 80  |
| 675  | HS40<br>400  | 650 | 1480 | -  | 85 | 420 | 80  |
| 743  | HS20<br>200  | 610 | 1160 | -  | 92 | 350 | 100 |
| 743  | HS31<br>315  | 610 | 1160 | -  | 92 | 350 | 100 |
| 743  | HS40<br>400  | 610 | 1160 | -  | 92 | 350 | 100 |
| 743  | HS50<br>500  | 610 | 1160 | -  | 92 | 350 | 100 |
| 743  | HS63<br>630  | 610 | 1160 | -  | 92 | 350 | 100 |



| H1  | H2   | H3   | H4   | H5  | H6    | H7    |
|-----|------|------|------|-----|-------|-------|
| L1  | L2   | L3   | L4   |     | kg 1) | kg 2) |
| 490 | 680  | 250  | 430  | 560 | 315   | 765   |
| 101 | 979  | 1085 | 2390 |     | 2400  | 3600  |
| 490 | 680  | 250  | 430  | 560 | 315   | 800   |
| 101 | 979  | 1085 | 2555 |     | 2400  | 4050  |
| 490 | 680  | 250  | 430  | 560 | 355   | 990   |
| 101 | 979  | 1085 | 2680 |     | 2400  | 4500  |
| 610 | 800  | 250  | 550  | 680 | 315   | 765   |
| 101 | 990  | 1085 | 2390 |     | 3000  | 4200  |
| 610 | 800  | 250  | 550  | 680 | 315   | 800   |
| 101 | 990  | 1085 | 2555 |     | 3000  | 4650  |
| 610 | 800  | 250  | 550  | 680 | 355   | 990   |
| 101 | 990  | 1085 | 2680 |     | 3000  | 5100  |
| 490 | 680  | 300  | 380  | 510 | 315   | 765   |
| 107 | 1046 | 1186 | 2490 |     | 2300  | 3500  |
| 490 | 680  | 300  | 380  | 510 | 315   | 800   |
| 107 | 1046 | 1186 | 2655 |     | 2300  | 3950  |
| 490 | 680  | 300  | 380  | 510 | 355   | 990   |
| 107 | 1046 | 1186 | 2785 |     | 2300  | 4400  |
| 490 | 680  | 300  | 380  | 510 | 355   | 940   |
| 107 | 1046 | 1186 | 2895 |     | 2300  | 4870  |
| 490 | 680  | 300  | 380  | 510 | 400   | 970   |
| 107 | 1046 | 1186 | 3125 |     | 2300  | 5610  |



# Main Dimensions

## Hybrid System WAF

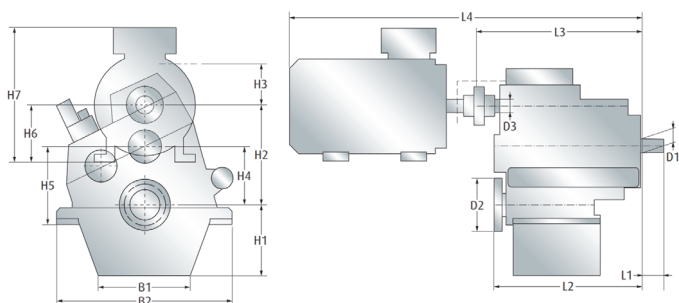
Reverse-reduction gearbox for propulsion with fixed pitch propeller

- Vertical offset

1) standard gearbox weight 2) weight with E-motor

| Size | Motor<br>ekW | B1  | B2   | B3 | D1  | D2  | D3  |
|------|--------------|-----|------|----|-----|-----|-----|
| 763  | HS20<br>200  | 680 | 1300 | -  | 92  | 375 | 100 |
| 763  | HS31<br>315  | 680 | 1300 | -  | 92  | 375 | 100 |
| 763  | HS40<br>400  | 680 | 1300 | -  | 92  | 375 | 100 |
| 763  | HS50<br>500  | 680 | 1300 | -  | 92  | 375 | 100 |
| 763  | HS63<br>630  | 680 | 1300 | -  | 92  | 375 | 100 |
| 773  | HS20<br>200  | 790 | 1670 | -  | 92  | 420 | 100 |
| 773  | HS31<br>315  | 790 | 1670 | -  | 92  | 420 | 100 |
| 773  | HS40<br>400  | 790 | 1670 | -  | 92  | 420 | 100 |
| 773  | HS50<br>500  | 790 | 1670 | -  | 92  | 420 | 100 |
| 773  | HS63<br>630  | 790 | 1670 | -  | 92  | 420 | 100 |
| 843  | HS20<br>200  | 680 | 1300 | -  | 107 | 375 | 100 |





| H1  | H2   | H3   | H4   | H5  | H6    | H7    |
|-----|------|------|------|-----|-------|-------|
| L1  | L2   | L3   | L4   |     | kg 1) | kg 2) |
| 530 | 790  | 300  | 490  | 630 | 315   | 765   |
| 107 | 1047 | 1187 | 2490 |     | 2800  | 4000  |
| 530 | 790  | 300  | 490  | 630 | 315   | 800   |
| 107 | 1047 | 1187 | 2655 |     | 2800  | 4450  |
| 530 | 790  | 300  | 490  | 630 | 355   | 990   |
| 107 | 1047 | 1187 | 2785 |     | 2800  | 4900  |
| 530 | 790  | 300  | 490  | 630 | 355   | 940   |
| 107 | 1047 | 1187 | 2893 |     | 2800  | 5370  |
| 530 | 790  | 300  | 490  | 630 | 400   | 970   |
| 107 | 1047 | 1187 | 3125 |     | 2800  | 6110  |
| 680 | 920  | 300  | 620  | 760 | 315   | 765   |
| 107 | 1064 | 1204 | 2510 |     | 3700  | 4900  |
| 680 | 920  | 300  | 620  | 760 | 315   | 800   |
| 107 | 1064 | 1204 | 2670 |     | 3700  | 5350  |
| 680 | 920  | 300  | 620  | 760 | 355   | 990   |
| 107 | 1064 | 1204 | 2800 |     | 3700  | 5800  |
| 680 | 920  | 300  | 620  | 760 | 355   | 940   |
| 107 | 1064 | 1204 | 2910 |     | 3700  | 6270  |
| 680 | 920  | 300  | 620  | 760 | 400   | 970   |
| 107 | 1064 | 1204 | 3140 |     | 3700  | 7010  |
| 530 | 725  | 350  | 425  | 565 | 315   | 765   |
| 142 | 1090 | 1224 | 2530 |     | 2900  | 4100  |



# Main Dimensions

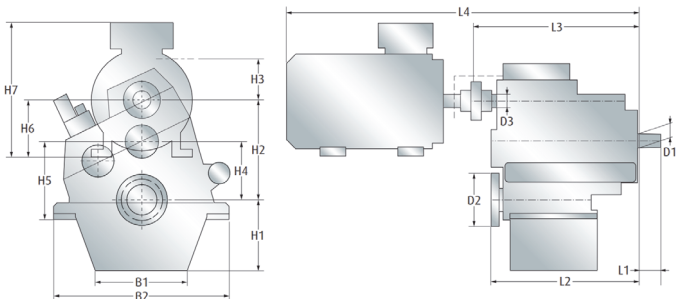
## Hybrid System WAF

Reverse-reduction gearbox for propulsion with fixed pitch propeller

- Vertical offset

1) standard gearbox weight 2) weight with E-motor

| Size | Motor<br>ekW | B1  | B2   | B3 | D1  | D2  | D3  |
|------|--------------|-----|------|----|-----|-----|-----|
| 843  | HS31<br>315  | 680 | 1300 | -  | 107 | 375 | 100 |
| 843  | HS40<br>400  | 680 | 1300 | -  | 107 | 375 | 100 |
| 843  | HS50<br>500  | 680 | 1300 | -  | 107 | 375 | 100 |
| 843  | HS63<br>630  | 680 | 1300 | -  | 107 | 375 | 100 |
| 863  | HS20<br>200  | 705 | 1400 | -  | 107 | 420 | 100 |
| 863  | HS31<br>315  | 705 | 1400 | -  | 107 | 420 | 100 |
| 863  | HS40<br>400  | 705 | 1400 | -  | 107 | 420 | 100 |
| 863  | HS50<br>500  | 705 | 1400 | -  | 107 | 420 | 100 |
| 863  | HS63<br>630  | 705 | 1400 | -  | 107 | 420 | 100 |
| 873  | HS20<br>200  | 860 | 1650 | -  | 107 | 480 | 100 |
| 873  | HS31<br>315  | 860 | 1650 | -  | 107 | 480 | 100 |



| H1  | H2   | H3   | H4   | H5  | H6    | H7    |
|-----|------|------|------|-----|-------|-------|
| L1  | L2   | L3   | L4   |     | kg 1) | kg 2) |
| 530 | 725  | 350  | 425  | 565 | 315   | 800   |
| 142 | 1090 | 1224 | 2690 |     | 2900  | 4550  |
| 530 | 725  | 350  | 425  | 565 | 355   | 990   |
| 142 | 1090 | 1224 | 2820 |     | 2900  | 5000  |
| 530 | 725  | 350  | 425  | 565 | 355   | 940   |
| 142 | 1090 | 1224 | 2930 |     | 2900  | 5470  |
| 530 | 725  | 350  | 425  | 565 | 400   | 970   |
| 142 | 1090 | 1224 | 3160 |     | 2900  | 6210  |
| 590 | 840  | 350  | 540  | 690 | 315   | 765   |
| 142 | 1120 | 1254 | 2560 |     | 3600  | 4800  |
| 590 | 840  | 350  | 540  | 690 | 315   | 800   |
| 142 | 1120 | 1254 | 2720 |     | 3600  | 5250  |
| 590 | 840  | 350  | 540  | 690 | 355   | 990   |
| 142 | 1120 | 1254 | 2850 |     | 3600  | 5700  |
| 590 | 840  | 350  | 540  | 690 | 355   | 940   |
| 142 | 1120 | 1254 | 2960 |     | 3600  | 6170  |
| 590 | 840  | 350  | 540  | 690 | 400   | 970   |
| 142 | 1120 | 1254 | 3190 |     | 3600  | 6910  |
| 750 | 970  | 350  | 670  | 710 | 315   | 765   |
| 142 | 1150 | 1284 | 2590 |     | 4600  | 5800  |
| 750 | 970  | 350  | 670  | 710 | 315   | 800   |
| 142 | 1150 | 1284 | 2750 |     | 4600  | 6250  |



# Main Dimensions

## Hybrid System WAF

Reverse-reduction gearbox for propulsion with fixed pitch propeller

- Vertical offset

1) standard gearbox weight 2) weight with E-motor

| Size | Motor<br>ekW | B1  | B2   | B3 | D1  | D2  | D3  |
|------|--------------|-----|------|----|-----|-----|-----|
| 873  | HS40<br>400  | 860 | 1650 | -  | 107 | 480 | 100 |
| 873  | HS50<br>500  | 860 | 1650 | -  | 107 | 480 | 100 |
| 873  | HS63<br>630  | 860 | 1650 | -  | 107 | 480 | 100 |

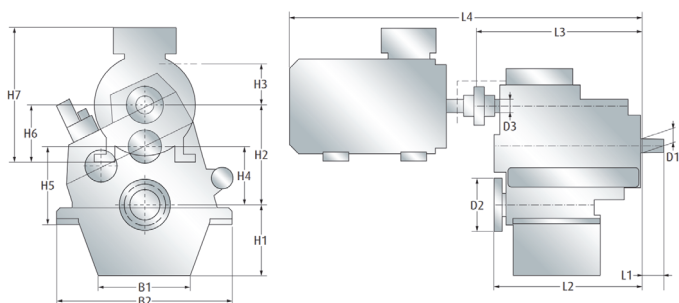
## Hybrid System WVS

Reverse-reduction gearbox for propulsion with fixed pitch propeller

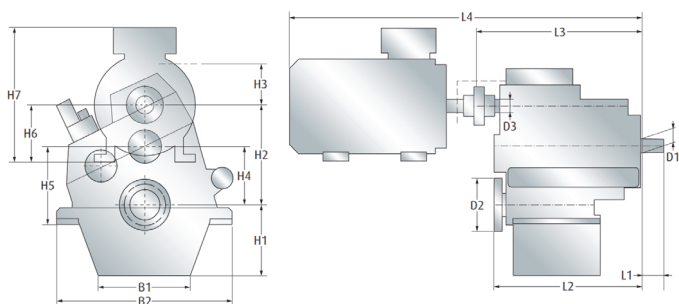
- Vertical offset

1) standard gearbox weight 2) weight with E-motor

| Size | Motor<br>ekW | B1  | B2   | B3 | D1 | D2  | D3 |
|------|--------------|-----|------|----|----|-----|----|
| 730  | HS20<br>200  | 650 | 1036 | -  | 92 | 260 | 80 |



| H1  | H2   | H3   | H4   | H5  | H6    | H7    |
|-----|------|------|------|-----|-------|-------|
| L1  | L2   | L3   | L4   |     | kg 1) | kg 2) |
| 750 | 970  | 350  | 670  | 710 | 355   | 990   |
| 142 | 1150 | 1284 | 2880 |     | 4600  | 6700  |
| 750 | 970  | 350  | 670  | 710 | 355   | 940   |
| 142 | 1150 | 1284 | 2990 |     | 4600  | 7170  |
| 750 | 970  | 350  | 670  | 710 | 400   | 970   |
| 142 | 1150 | 1284 | 3220 |     | 4600  | 7910  |



| H1  | H2  | H3   | H4   | H5  | H6    | H7    |
|-----|-----|------|------|-----|-------|-------|
| L1  | L2  | L3   | L4   |     | kg 1) | kg 2) |
| 373 | 560 | 250  | 310  | 340 | 315   | 765   |
| 110 | 893 | 1075 | 2380 |     | 1000  | 2200  |



# Main Dimensions

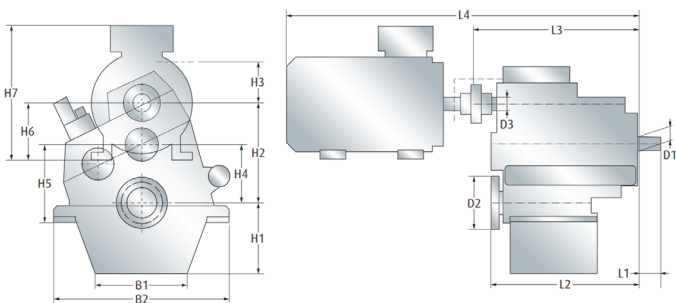
## Hybrid System WVS

Reverse-reduction gearbox for propulsion with fixed pitch propeller

- Vertical offset

1) standard gearbox weight 2) weight with E-motor

| Size | Motor<br>ekW | B1  | B2   | B3 | D1  | D2  | D3  |
|------|--------------|-----|------|----|-----|-----|-----|
| 730  | HS31<br>315  | 650 | 1036 | -  | 92  | 260 | 80  |
| 730  | HS40<br>400  | 650 | 1036 | -  | 92  | 260 | 80  |
| 930  | HS20<br>200  | 750 | 1166 | -  | 102 | 280 | 100 |
| 930  | HS31<br>315  | 750 | 1166 | -  | 102 | 280 | 100 |
| 930  | HS40<br>400  | 750 | 1166 | -  | 102 | 280 | 100 |
| 930  | HS50<br>500  | 750 | 1166 | -  | 102 | 280 | 100 |
| 930  | HS63<br>630  | 750 | 1166 | -  | 102 | 280 | 100 |
| 1540 | HS20<br>200  | 650 | 1300 | -  | 107 | 330 | 100 |
| 1540 | HS31<br>315  | 650 | 1300 | -  | 107 | 330 | 100 |
| 1540 | HS40<br>400  | 650 | 1300 | -  | 107 | 330 | 100 |
| 1540 | HS50<br>500  | 650 | 1300 | -  | 107 | 330 | 100 |
| 1540 | HS63<br>630  | 650 | 1300 | -  | 107 | 330 | 100 |



| H1  | H2   | H3   | H4   | H5  | H6    | H7    |
|-----|------|------|------|-----|-------|-------|
| L1  | L2   | L3   | L4   |     | kg 1) | kg 2) |
| 373 | 560  | 250  | 310  | 340 | 315   | 800   |
| 110 | 893  | 1075 | 2545 |     | 1000  | 2650  |
| 373 | 560  | 250  | 310  | 340 | 355   | 990   |
| 110 | 893  | 1075 | 2670 |     | 1000  | 3100  |
| 398 | 620  | 250  | 340  | 385 | 315   | 765   |
| 120 | 961  | 1152 | 2455 |     | 1300  | 2500  |
| 398 | 620  | 250  | 340  | 385 | 315   | 800   |
| 120 | 961  | 1152 | 2620 |     | 1300  | 2950  |
| 398 | 620  | 250  | 340  | 385 | 355   | 990   |
| 120 | 961  | 1152 | 2750 |     | 1300  | 3400  |
| 398 | 620  | 250  | 340  | 385 | 355   | 940   |
| 120 | 961  | 1152 | 2860 |     | 1300  | 3870  |
| 398 | 620  | 250  | 340  | 385 | 400   | 970   |
| 120 | 961  | 1152 | 3090 |     | 1300  | 4610  |
| 440 | 690  | 300  | 390  | 405 | 315   | 765   |
| 142 | 1065 | 1179 | 2485 |     | 1800  | 3000  |
| 440 | 690  | 300  | 390  | 405 | 315   | 800   |
| 142 | 1065 | 1179 | 2645 |     | 1800  | 3450  |
| 440 | 690  | 300  | 390  | 405 | 355   | 990   |
| 142 | 1065 | 1179 | 2775 |     | 1800  | 3900  |
| 440 | 690  | 300  | 390  | 405 | 355   | 940   |
| 142 | 1065 | 1179 | 2885 |     | 1800  | 4370  |
| 440 | 690  | 300  | 390  | 405 | 400   | 970   |
| 142 | 1065 | 1179 | 3115 |     | 1800  | 5110  |

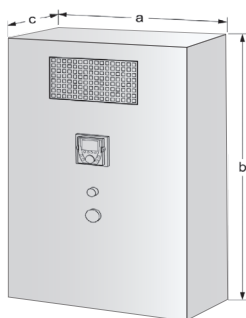


# Main Dimensions

## Frequency Converter

| Hybrid System |              | Converter 1 (PTI/Booster) |         |         |              |
|---------------|--------------|---------------------------|---------|---------|--------------|
| Type          | Motor<br>ekW | a<br>mm                   | b<br>mm | c<br>mm | Weight<br>kg |
| HS06          | 60           | 555                       | 1000    | 325     | 100          |
| HS10          | 100          | 600                       | 1600    | 500     | 190          |
| HS20          | 200          | 600                       | 1800    | 500     | 260          |
| HS31          | 315          | 1000                      | 2000    | 600     | 420          |
| HS40          | 400          | 1200                      | 2050    | 600     | 800          |
| HS50          | 500          | 1200                      | 2050    | 600     | 830          |
| HS63          | 630          | 1600                      | 2050    | 600     | 1100         |





### Converter 2 (PTO/PTI/Booster)

| a<br>mm | b<br>mm | c<br>mm | Weight<br>kg |
|---------|---------|---------|--------------|
| 555     | 1800    | 600     | 180          |
| 600     | 1800    | 600     | 320          |
| 600     | 1800    | 600     | 470          |
| 1000    | 2050    | 600     | 840          |
| 1200    | 2050    | 600     | 1400         |
| 1200    | 2050    | 600     | 1500         |
| 1600    | 2050    | 600     | 1750         |



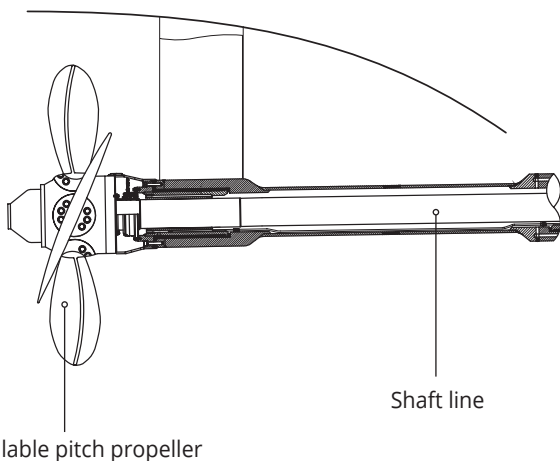
# Marine Propulsion Packages

## Based on REINTJES Gearboxes

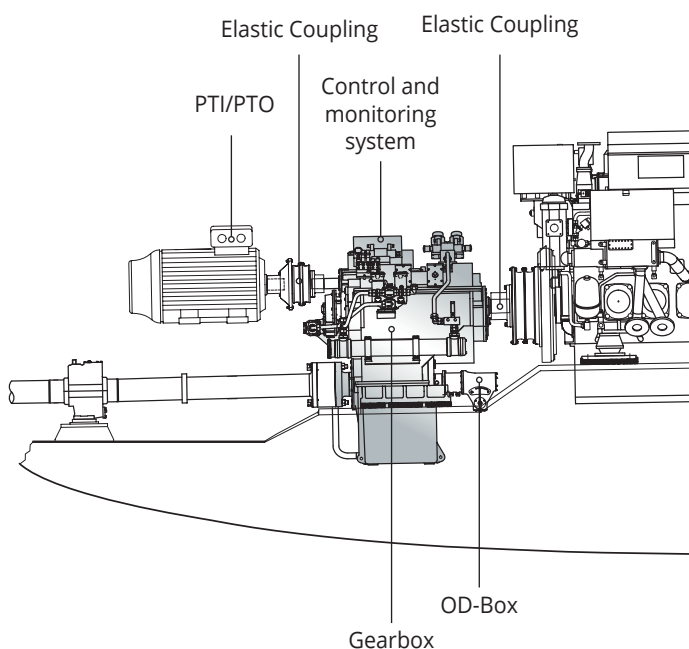
can consist of multiple features like

- Propeller
- Shafts (incl. tail shaft and intermediate shaft)
- Shafting arrangement and calculations
- Couplings
- PTI / PTO
- Hybrid Package  
(incl. electric motor and frequency converter)
- Control system
- Monitoring system
- Powertrain consultancy
- and more

## CPP



REINTJES offers various packages independently from other suppliers. The expertise developed by REINTJES in more than 100 years of experience in marine Powertrain Solutions and the strong network within marine industry enable REINTJES to find the best package solution for your demand. Please contact our sales team for your customised marine package.





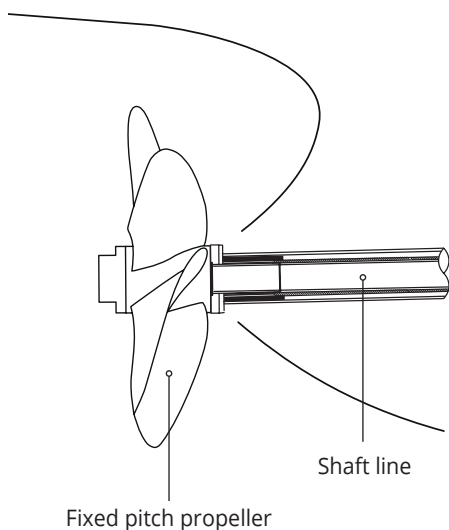
# Marine Propulsion Packages

## Based on REINTJES Gearboxes

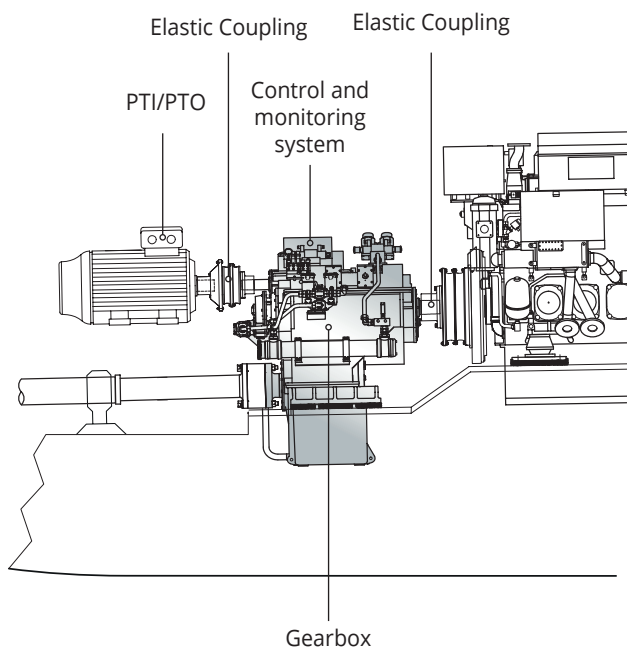
can consist of multiple features like

- Propeller
- Shafts (incl. tail shaft and intermediate shaft)
- Shafting arrangement and calculations
- Couplings
- PTI / PTO
- Hybrid Package  
(incl. electric motor and frequency converter)
- Control system
- Monitoring system
- Powertrain consultancy
- and more

## FPP



REINTJES offers various packages independently from other suppliers. The expertise developed by REINTJES in more than 100 years of experience in marine Powertrain Solutions and the strong network within marine industry enable REINTJES to find the best package solution for your demand. Please contact our sales team for your customised marine package.

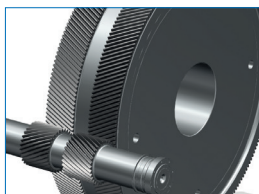
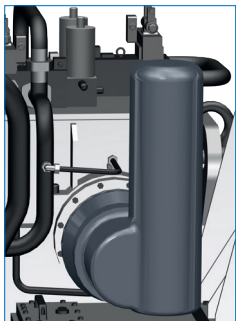




# Navy Applications

## A LAF Gear with Naval Features\* (Example)

\*Available on request for other gears

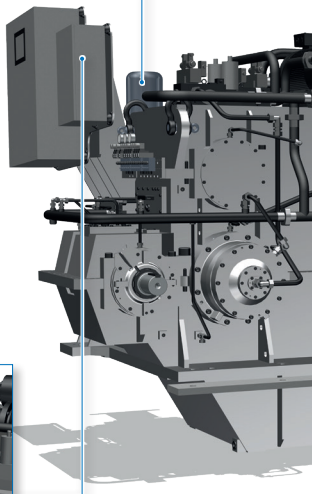
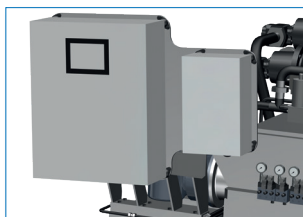


### Double Helical Tothing

### Turn Drive

The turn drive allows turning the propeller shaft even when the main engine is standing still, e.g. for maintenance work.

- Operation with a control panel and with a remote control
- Current status can be monitored and visualised with the LOP

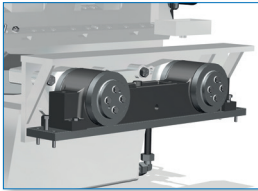


### Local Operating Panel (LOP)

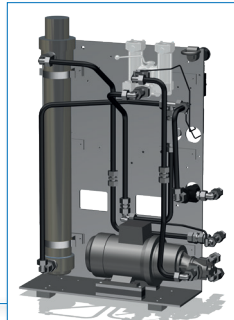
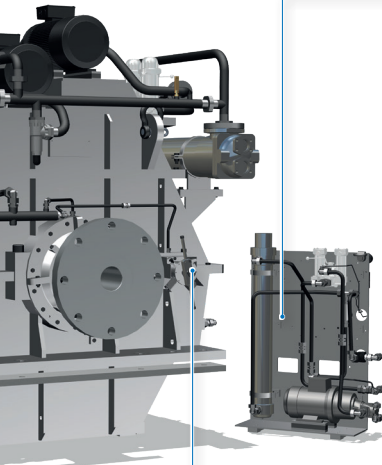
The LOP can be used for various purposes including:

- Control of the clutch(es)
- Control of electric oil pumps
- Monitoring alarms, operating conditions, and values such as pressure, speed etc.
- Operation of special equipment such as turn drive, shaft locking device, and oil pre-heater

The LOP control cabinet comes with a TFT display with a customised menu structure.



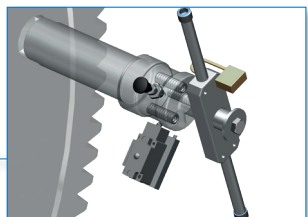
## Resilient Mounting of Gearbox and Accessories



## Oil Pre-Heater

The oil pre-heater heats up the oil to a temperature of  $> 25^{\circ}\text{C}$ .

- Manual and automatic operation are both possible
- Current status can be monitored and visualised with the LOP



## De-Humidifier

Drying of incoming air

- Oil level in gear decrease
- Moist air will be sucked in
- Valves opens at 5 mbar
- Incoming air will be dried
- Silica gel changes color from orange to green
- Incoming air will be cleaned

## Shaft Locking Device

With the shaft locking device the propeller shaft can be mechanically locked and therefore be secured in its position.

- Spring-loaded
- Easy-to-operate
- Current status can be monitored and visualised with the LOP



# Type Classification

## REINTJES Product Portfolio

### ■ WAF

**W**endeuntersetzungsgetriebe  
(reverse reduction gearbox)

**A**chsversetzt  
(shafts offset)

An**E**lanschführung  
(version with flange)

### ■ WGF

**W**endeuntersetzungs**G**etriebe aus  
WAF (reverse reduction gearbox  
derived from WAF)

Vorsatzstufe ange**E**lanscht  
(flange-connected housing for two-  
step gearbox)

### ■ WGV

**W**endeuntersetzungsgetriebe  
(reverse reduction gearbox)

**G**leichachsig  
(co-axial shaft arrangement)  
Zwischenwellen **V**ersetzt  
(intermediate shafts offset)

### ■ WVS

**W**endeuntersetzungsgetriebe  
(reverse reduction gearbox)

Achs**V**ersetzt  
(shafts offset)  
für **S**chnelle Schiffe  
(for fast vessels)

### ■ WVSA

**WVS** in Down-**A**ngle-Ausführung  
(WVS in down angle design)

### ■ ZWAF

**Z**weigang-**W**endeuntersetzungs-  
getriebe  
(two-speed reverse reduction  
gearbox)

**A**chsversetzt  
(shafts offset)  
An**E**lanschführung  
(version with flange)

### ■ ZWVS

**Z**weigang-Wendeuntersetzungsget-  
riebe aus **WVS**  
(two-speed reverse reduction gear-  
box derived from WVS)

### ■ ZWVSA

**Z**weigang-Wendeuntersetzungsget-  
riebe aus **WVSA**  
(two-speed reverse reduction gear-  
box derived from WVSA)

### ■ ZSVAL

**Z**weigang-Untersetzungsgetriebe  
(two-speed reduction gearbox)

**S**lide bearings  
(slide bearings)  
**V**erstellpropeller  
(for controllable pitch propeller)

**A**chsversetzt  
(shafts offset)  
mit **L**amellenkupplung  
(with disc clutch)

### ■ AF

**A**chsversetzt  
(shafts offset)  
An**E**lanschführung  
(version with flange)

### ■ LAF

Untersetzungsgetriebe  
mit **L**amellenkupplung  
(reduction gearbox with disc clutch)

**A**chsversetzt  
(shaft offset)  
An**E**lanschführung  
(version with flange)

### ■ LGF

Untersetzungsgetriebe mit  
**L**amellenkupplung  
(reduction gearbox with disc clutch)  
ähnlich **WGF**  
(like WGF)

Vorsatzstufe ange**E**lanscht  
(flange-connected housing for two-  
step gearboxes)

### ■ WLS

Untersetzungsgetriebe aus **WVS**  
(reduction gearbox derived from  
WVS)  
mit **L**amellenkupplung (with disc  
clutch)

### ■ VLJ

Achs**V**ersetztes Untersetzungsget-  
riebe  
(reduction gearbox with offset  
shafts)  
mit **L**amellenkupplung  
(with disc clutch)  
für Water**J**et  
(for water-jet)



## ■ VA

Untersetzungsgetriebe für Verstellpropeller  
(reduction gearbox for controllable pitch propeller)

Achsversetzt  
(shafts offset)

## ■ SVA

Untersetzungsgetriebe mit „Slide bearings“  
(reduction gearbox with slide bearings)

Verstellpropeller  
(for controllable pitch propeller)

Achsversetzt  
(shafts offset)

## ■ SVAL

Untersetzungsgetriebe mit „Slide bearings“  
(reduction gearbox with slide bearings)

Verstellpropeller  
(for controllable pitch propeller)

Achsversetzt  
(shafts offset)

mit Lamellenkupplung  
(with disc clutch)

## ■ DLG

Doppeluntersetzungsgetriebe  
(twin input/single output reduction gearbox)

mit Lamellenkupplung  
(with disc clutch)

Gleiche Höhe  
(same height of the input shafts)

## ■ DLGF

Doppeluntersetzungsgetriebe  
(twin input/single output reduction gearbox)

mit Lamellenkupplung  
(with disc clutch)

Gleiche Höhe  
(same height of the input shafts)

AnFlanschausführung (version with flange)

## ■ DUG

DoppelUntersetzungsgetriebe  
(twin input/single output reduction gearbox)

Horizontal, gleiche Höhe  
(horizontal, equal height)

## ■ DVLJ

Doppeluntersetzungsgetriebe  
(twin input/single output reduction gearbox)

AchsVersetzt  
(shafts offset)

mit Lamellenkupplung  
(with disc clutch)

für WaterJet  
(for water-jet)

## ■ RDG

REINTJES Dredging Gearbox  
(REINTJES Dredging Gearbox)

## ■ RDGL

REINTJES Dredging Gearbox  
(REINTJES Dredging Gearbox)

mit Lamellenkupplung  
(with disc clutch)

## Abbreviations used after the Type designation

### ■ L

Limited torque version of gearbox type

### ■ DL

Diagonal Left offset of input shaft in view of output shaft

### ■ DR

Diagonal Right offset of input shaft in view of output shaft

### ■ HL

Horizontal Left offset of input shaft in view of output shaft

### ■ HR

Horizontal Right offset of input shaft in view of output shaft

### ■ U

U – Drive, input and output on the same side

### ■ HSnn

Hybrid System, gearbox with electrical motor of 10 x nn kW



# Contact

## Headquarters

### Germany, RoW



#### **REINTJES GmbH**

Hameln

Tel.: +49 5151 1040

Fax: +49 5151 104300

info@reintjes-gears.de

## Europe

### Belgium



#### **REINTJES Benelux BVBA**

Antwerp

Tel.: +32 3541 9233

Fax: +32 3541 0212

info@reintjes.be

### Denmark



#### **Bech Engineering A/S**

Horsens Tel.: +45 7625 8600

Fax: +45 7625 8601

cgn@bechgruppen.dk



#### **MarineShaft A/S**

Hirshals

Tel.: +45 96 56 02 02

+45 96 56 02 03

info@marineshaft.com

### France



#### **REINTJES France SARL**

Saint Denis les Sens

Tel.: +33 386 651 921

contact@reintjes.fr

### Germany



#### **REINTJES GmbH**

Branch Office Hamburg

Tel.: +49 40 500 994 43

reintjes.hamburg@

reintjes-gears.de



#### **Promarin GmbH**

Erftstadt

Tel.: +49 2235 7993 0

Fax: +49 2235 7993 33

info@promarin.de

### Greece



#### **INTERTRADE PCO.**

Drapetsona (Piraeus)

Tel.: +30 210 461 0745

Fax: +30 210 462 4635

info@intertradepco.com

### UK, Ireland, Iceland



#### **REINTJES UK Limited**

REINTJES Benelux BVBA

Branch Office

Long Bennigton, Lincs

Tel.: +44 333 006 2424

chris.britner@reintjes.co.uk

## Italy



### **Realizzazioni Tecniche Navalmeccaniche Srl**

Borgonovo Val Tidone (PC)

Tel.: +39 0523 86 96 11

Fax: +39 0523 86 10 77

info@retenav.it

## Spain, Portugal, Morocco (North Africa)



### **REINTJES España, S.A.U.**

Madrid

Tel.: + 34 91 657 2311

Fax: +34 91 657 2314

oscar.alvarez@reintjes.es

## Sweden



### **Parmab Drivelement AB**

Teknikervägen 15

149 45 Nynaeshamn

Tel.: +46 8 5201 7545

info@padr.se

## Eurasia

### Turkey



### **REINTJES Eurasia Makina**

**San. ve tic. A.S.**

Istanbul

Tel.: +90 216 693 1900

Fax: +90 216 693 1910

ahmet.muslum@reintjes.com.tr

## Middle East

### UAE



### **REINTJES Middle East L.L.C.**

Dubai (UAE)

Tel.: +971 4 360 4814

Fax: +971 4 360 4815

reintjes@reintjesmiddleeast.com

## India

### Mumbai



### **REINTJES Middle East L.L.C.**

Branch Office

Mumbai

Tel.: +91 2227 8103 17

Fax: +91 2227 8103 18

reintjes@reintjesmiddleeast.com

## North & Central America

Canada, Central America,  
United States of America,  
West Indies



### **Karl Senner, LLC.**

New Orleans, LA

Tel.: +1 504 469 4000

Fax: +1 504 464 7528

sales@karlsenner.com



## Contact

Cuba, Guam, Mexico,  
British Virgin Islands



**Karl Senner, LLC.**

New Orleans, LA

Tel.: +1 504 469 4000

Fax: +1 504 464 7528

sales@karlsenner.com

### South America

Brazil (Rio de Janeiro)



**REINTJES Engrenagens e  
Sistemas do Brasil Ltda.**

Rio de Janeiro

Tel.: +55 21 2524 6393

andre.galvao@reintjes.com.br

Brazil (Manaus)



**REINTJES Engrenagens e  
Sistemas do Brasil Ltda.**

Representative Office

Manaus

Tel.: +55 92 3085 2300

alessandro.passos@reintjes.com.br

Argentina, Chile, Paraguay,  
Uruguay



**REINTJES España, S.A.U.**

Branch Office

Asunción

Tel.: +59 59 917 877 69

marcelo.escondeur@reintjes.com.py

Bolivia, Colombia, Ecuador,  
Peru, Venezuela



**REINTJES España, S.A.U.**

Representative Office

Lima

Tel.: +51 96 44 60 231

miguel.fortunice@reintjes.pe

### China

China, Hong Kong



**REINTJES (Shanghai) Co. Ltd**

Shanghai

Tel.: +86 21 52399 227/228

Fax: +86 21 52399225

info@reintjes.com.cn

### South East Asia

Indonesia, Philippines,  
Malaysia, Singapore,  
Thailand, Vietnam



**REINTJES Asia Pacific Pte Ltd**

Singapore

Tel.: +65 6562 8818

Fax: +65 6562 8819

rap@reintjes.com.sg

#### Singapore



**Trans-Matic Pte Ltd**

Singapore

Tel.: +65 6268 1842

Fax: +65 6264 7703

transmatic@trans.com.sg

## North Asia

South Korea, Japan, Taiwan



**REINTJES Asia Pacific Pte Ltd**

Singapore

Tel.: +65 6562 8818

Fax: +65 6562 8819

rap@reintjes.com.sg

## South Africa

South Africa



**REINTJES Middle East L.L.C.**

Dubai (UAE)

Tel.: +971 4 360 4814

Fax: +971 4 360 4815

reintjes@reintjesmiddleeast.com

## Oceania

Australia



**Sydney Head Office**

**Antelope Engineering Pty Ltd**

Unit 9, 12-18 Clarendon Street

Artarmon NSW, 2064

Australia

Tel.: +61 2 9437 5300

antelope@antelope.com.au

Nigeria, Ghana, Namibia,

Angola



**REINTJES Middle East L.L.C.**

Dubai (UAE)

Tel.: +971 4 360 4814

Fax: +971 4 360 4815

reintjes@reintjesmiddleeast.com

New Zealand



**Antelope Engineering (NZ)  
Ltd.**

P.O Box 116

Waitati 9069

Dunedin

New Zealand

Tel.: +64 3 482 2505

info@antelopenz.co.nz

**Declaration:**



REINTJES



Sales



Service

For full listing of global sales and service locations, please scan the QR code on the back.



REINTJES GmbH  
Eugen-Reintjes-Straße 7  
31785 Hameln  
Germany  
Phone +49 5151 104-0  
Fax +49 5151 104-300  
E-mail [info@reintjes-gears.de](mailto:info@reintjes-gears.de)  
[www.reintjes-gears.com](http://www.reintjes-gears.com)



**Service Hotline: + 49 5151 104-104**