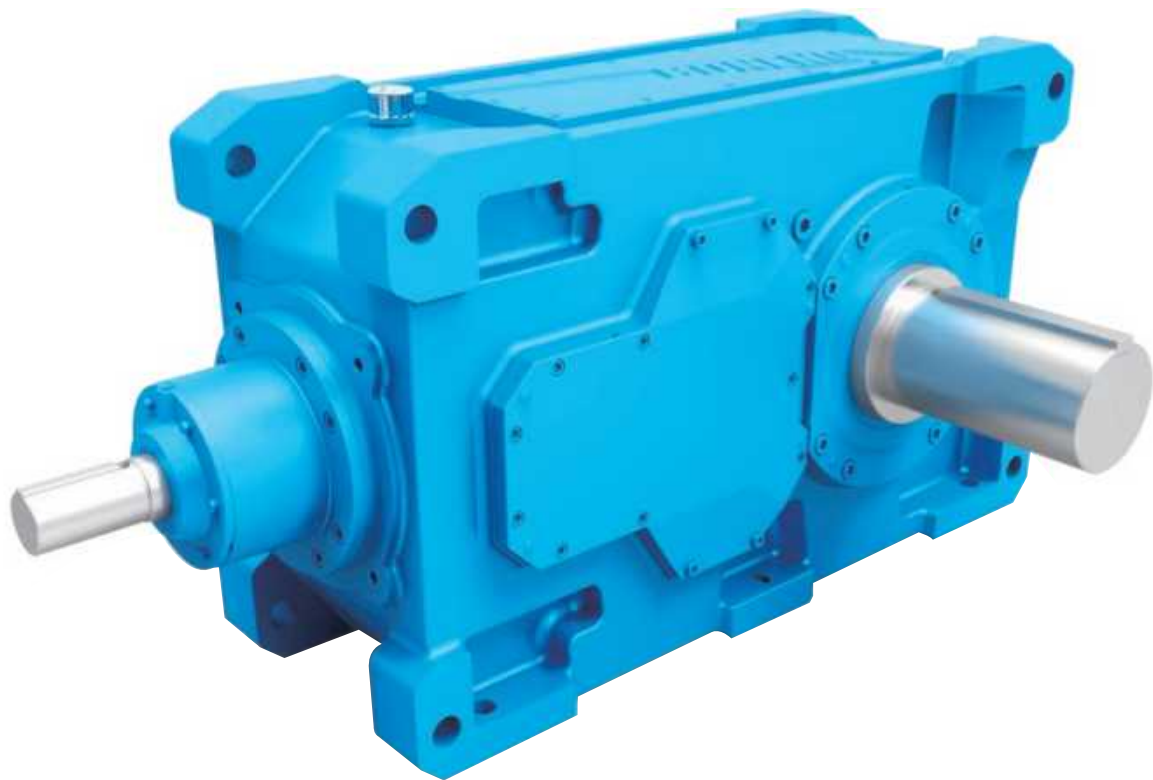
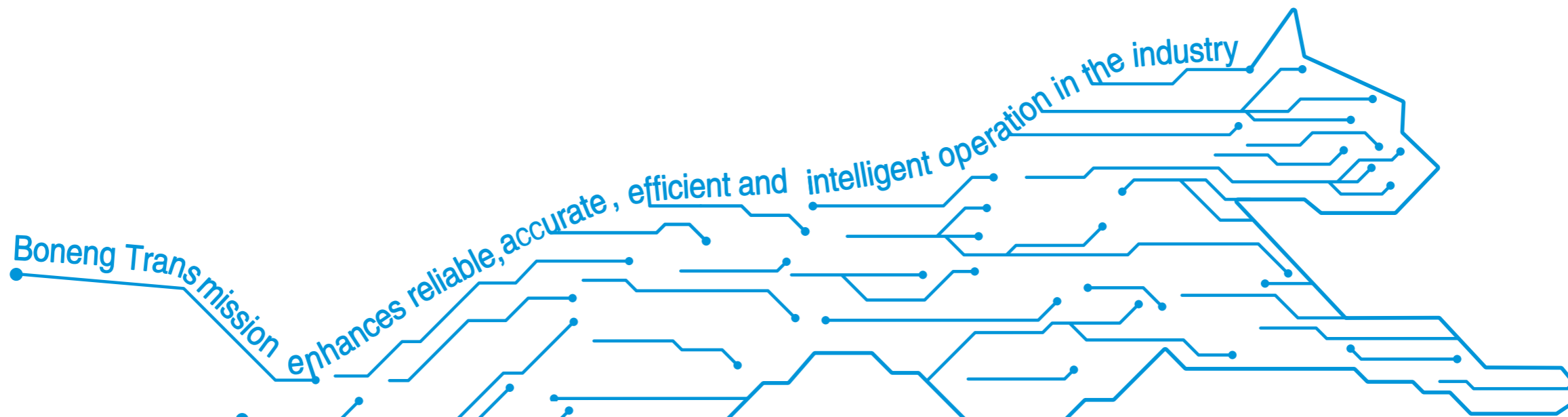


BONENG



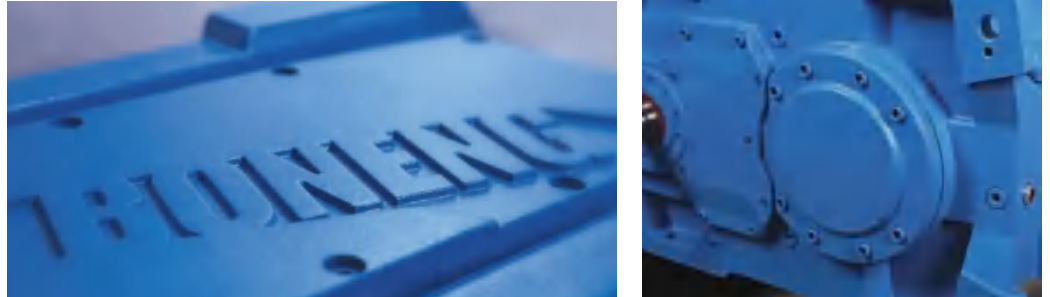
**H Helical Gearbox & B
Bevel-helical Gearbox Sizes 13-18** Modified date 07/2021
Selection Sample C05.0028-EN

Boneng Transmission



Controller/ Drive/ Motor/ Gearmotor/ Gearbox

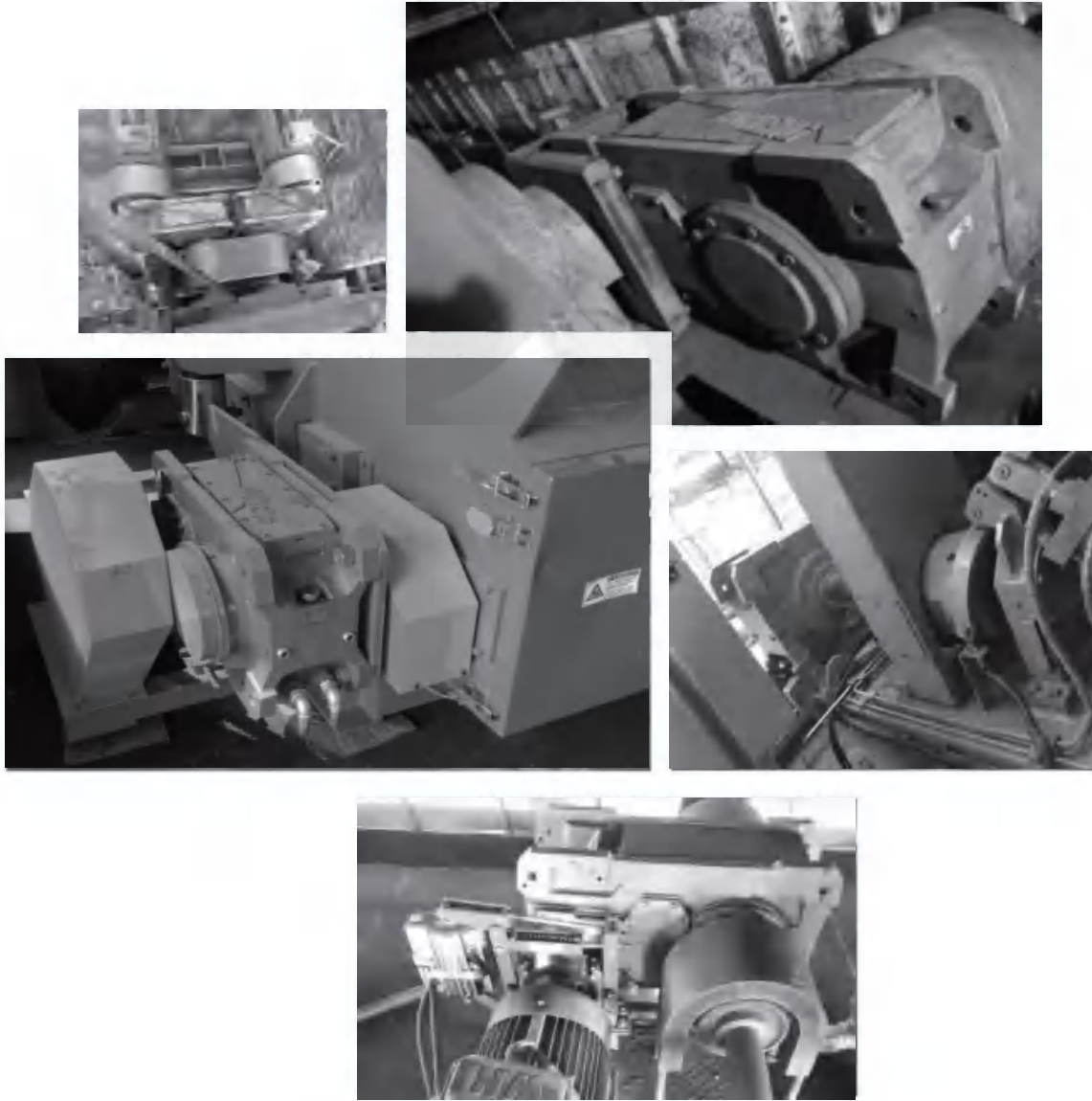
BONENG H Helical Gearbox & B Bevel-helical Gearbox



On the basis of summarizing gearbox design and manufacturing experiences in the past twenty years, analyzing and absorbing advanced technology of international heavy duty gearbox production, Boneng transmission makes innovative development, pushing forward the new type H&B heavy duty gearbox to better satisfy customer requirements.

Compared with internationally advanced gearbox and the original H&B industrial gearbox of Boneng, the new type H&B heavy duty gearbox have the following characteristics:

- ◆ Unique modular design, general applications of components are maximized, which is convenient for international production. Storage quantity is small, supplement circle is short.
- ◆ Unique modular design, allocation exchange degree of functional attachments flexibly satisfy various kinds of required structures, arrangement form and different working situations of customer equipment.
- ◆ Transmission shaft is in line layout, under the same volume, transmission central distance is larger, bearing capacity is larger.
- ◆ Wheel pair meshing contact ratio increases, transmission is more stable, noise is lower.
- ◆ The appearance design shows world-wide product design idea of Boneng Transmission, it owns intellectual property rights.
- ◆ Frame type load-carrying structure design, the whole structure is stronger, footing is more fastened.
- ◆ Improved cooling fan and cooling coil design can effectively reduce the temperature during gearbox running.
- ◆ Output shaft sealing applies double oil sealing, the sealing is more reliable, the applications are wider.



For coal, electric power, petroleum, metallurgy, cement, shipping, port, hoisting and conveying industries, the high-quality and long lifespan new type gearbox of Boneng Transmission can satisfy your requirements.

Note:

- ◆ The structure scheme, appearance diagram and other attached diagrams in sample are examples, there is no strict proportion requirement. (The unmarked dimension units are mm).
- ◆ The marked weight is average value, it has no constraint force.

You must conform to the following instructions:

- ◆ To prevent accidents, all the rotation parts are added with protective covers according to the safety regulations of the nation and region.
- ◆ Before debugging, you should carefully read instruction book.
- ◆ Gearbox is on running—permission status when delivered, you should add lubrication oil before putting it into running.
- ◆ The marked oil quantity in sample is only reference value, actual oil filling quantity should be the same with the mark on oil immersion lens.
- ◆ Lubrication oil viscosity should be selected according to working situation and application environment temperature of gearmotor.
- ◆ You can only apply lubrication oil of internationally famous brand.

Product Function Mark



Oil glass



Breather



Oil filler

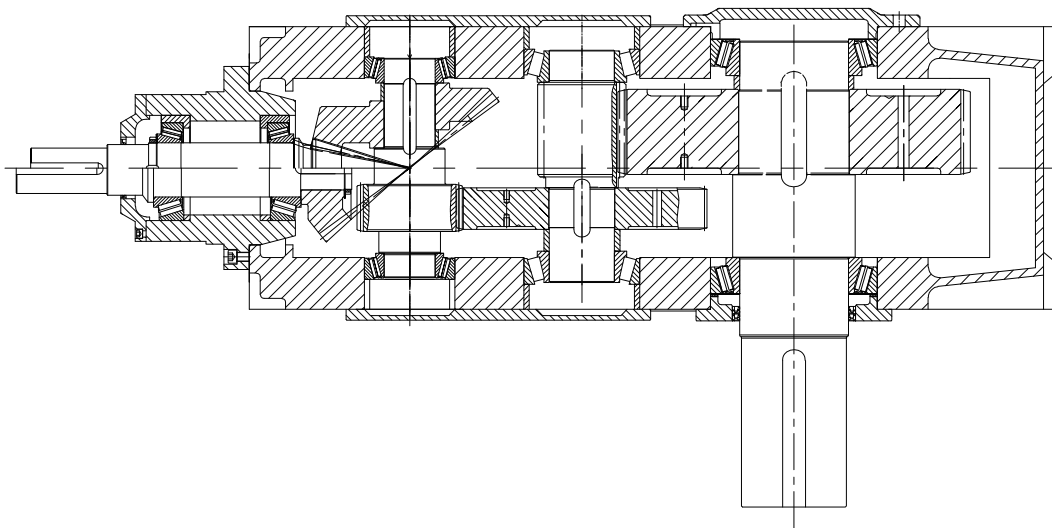
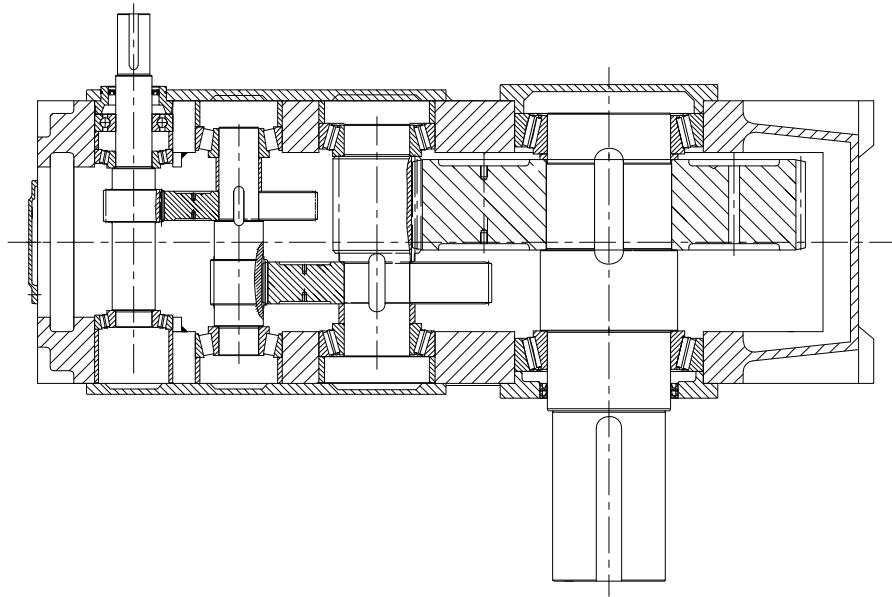


Oil drain

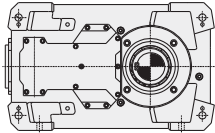
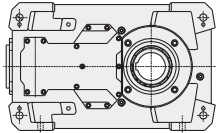
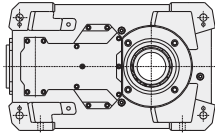
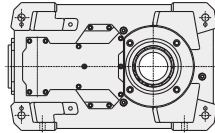
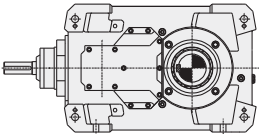
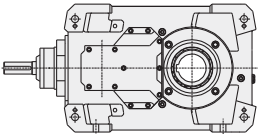
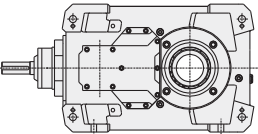
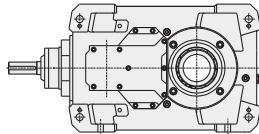
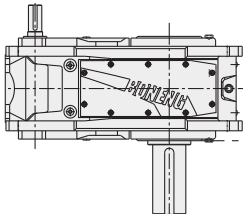
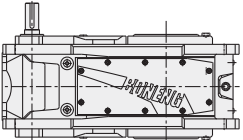
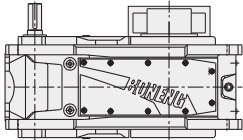
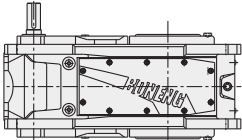
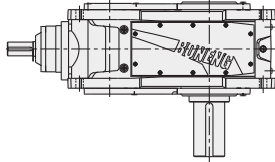
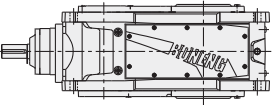
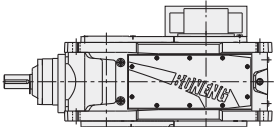
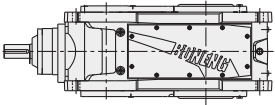
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1. Structure scheme:



2. Mounting positions:

| Horizontal mounting | | | | |
|--------------------------|---|---|--|---|
| | Solid shaft | Hollow shaft | Hollow shaft with shrink disk | Hollow shaft with involute spline |
| H series iN=3. 15-450 |  H...HS |  H...HH |  H...HD |  H...HK |
| B series iN=6. 3-400 |  B...HS |  B...HH |  B...HD |  B...HK |
| Vertical mounting | | | | |
| | Solid shaft | Hollow shaft | Hollow shaft with shrink disk | Hollow shaft with involute spline |
| H series iN=3. 15-450 |  H...VS |  H...VH |  H...VD |  H...VK |
| B series iN=6. 3-400 |  B...VS |  B...VH |  B...VD |  B...VK |

3.Selection:

| Serial | Definition | Symbol | Parameter calculation | | | | | | |
|--------|--|--|--|---|-------|------|------|--------|------|
| 1 | Driven equipment factor | f_1 | Refer to page5 f_1 table | | | | | | |
| 2 | Prime mover factor | f_2 | Prime mover factor | | f_2 | | | | |
| | | | Motor, hydraulic motor, turbine | | 1.0 | | | | |
| | | | 4-6 Cylinder piston engine, cyclic variation 1:100 to 1: 200 | | 1.25 | | | | |
| | | | 1-3 Cylinder piston engine, cyclic variation 1:100 | | 1.5 | | | | |
| 3 | Gear unit safety factor | SF | Refer to page4 sf table | | | | | | |
| 4 | Relation between input and output shafts | H、B | Parallel shaft select H series, right angle, select B series | | | | | | |
| 5 | Transmission efficiency of gear unit | η | 2-stage:96%, 3-stage:94%, 4-stage:92% | | | | | | |
| 6 | Input speed | n_1 | $\leq 1800r/min$ For higher speed, please consult us. | | | | | | |
| 7 | Determination of ratio | i | $i = n_1/n_2$ | | | | | | |
| 8 | Confirm gear unit input power with torque or power needed by driven equipment. | P_1 | $P_1 = T_2 \cdot n_1 / (9550 \cdot i \cdot \eta)$ 或 $P_1 = P_2 / \eta$ | | | | | | |
| 9 | According to calculation, check transmission capacity table to determine gear unit size | T_2N 、 P_1N | $T_2N \geq T_2 \cdot f_1 \cdot f_2 \cdot SF$ 或 $P_1N \geq P_1 \cdot f_1 \cdot f_2 \cdot SF$ If it doesn't satisfy conditions: $3.33 \cdot P_1 \geq P_1N$, Please consult us. | | | | | | |
| 10 | Peak torque verification * | T_A | $P_1N \geq T_A \cdot n_1 \cdot f_3 / 9550$ | Load peaks per hour | | | | | |
| | | | | f_3 | | 1-5 | 6-30 | 31-100 | >100 |
| | | | | Single direction loading | 0.5 | 0.65 | 0.7 | 0.85 | |
| | | Alternate loading | | 0.7 | 0.95 | 1.10 | 1.25 | | |
| 11 | After selecting connection mounting and accessories, check allowable strength of the shaft | Fr_1/Fr_2 Fa_1/Fa_2 | Radial load need to be checked when radial load imposed by belt pulley, chain sprocket and gear are represent. (See page 32) | | | | | | |
| 12 | Determine lubrication method, select lubrication oil | Horizontal mounting | | Vertical mounting | | | | | |
| | | Lubrication methods for selection: 1) Splash lubrication 2) Dip-in lubrication 3) Forced lubrication Shaft end pump lubrication Motor oil pump lubrication Oil station lubrication | | Lubrication methods for selection: 1) Dip-in lubrication 2) Forced lubrication Shaft end pump lubrication Motor oil pump lubrication Oil station lubrication | | | | | |
| 13 | Determine cooling method | | 1) If it satisfies the following condition, the gear unit will not be equipped with auxiliary cooling device. $P_1 \leq P_{GA} \times f_4 \times f_8$ 2) If it satisfies the following condition, the gear unit will be equipped with cooling fan. $P_1 \leq P_{GB} \times f_4 \times f_8$ 3) If it satisfies the following condition, the gearbox will be equipped with cooling coil. $P_1 \leq P_{GC} \times f_5 \times f_8$ 4) If it satisfies the following condition, the gear unit will be equipped with water-oil cooler. $P_1 \leq P_{GD} \times f_5 \times f_8$ 5) Gear unit can be equipped with other cooling devices: air-oil cooler, water-oil cooler, users can equip petrol station by themselves to provide circulated cooling oil. (Refer to page 4 for f_4 , f_5 , f_8). | | | | | | |
| 14 | Determine each item according to type designation | | Refer to page 4. | | | | | | |

* Peak torque: maximum loading torque means the maximum torque caused by starting, braking or maximum pulse loading. (Under common working conditions, peak torque is the maximum torque may occur when a machine starts or brakes)

| Gearbox safety factor | | SF |
|--|--|------------------------|
| For ordinary equipment, only single machine stops production when gear unit fails. easy to replace spare parts and minor loss occurred. | | $1.0 \leq SF \leq 1.3$ |
| For important equipment, the production line or the whole plant will stop production, when gear unit fails, great loss occurred, stopping accident loss is large. | | $1.3 < SF \leq 1.5$ |
| High reliability requirement, it may cause heavy production stop accident, when gear unit fails, causing large economic loss and even may cause human life accident. | | $1.5 < SF$ |

| Thermal factor | | f4 | | | | |
|---------------------------------------|--------------------------|------|------|------|------|--|
| Gear unit without cooling or with fan | | | | | | |
| Ambient temperature | Operating cycle per hour | | | | | |
| | 100 | 80 | 60 | 40 | 20 | |
| 10 °C | 1.11 | 1.31 | 1.60 | 2.14 | 3.64 | |
| 20 °C | 1.00 | 1.18 | 1.44 | 1.93 | 3.28 | |
| 30 °C | 0.88 | 1.04 | 1.27 | 1.70 | 2.89 | |
| 40 °C | 0.75 | 0.89 | 1.08 | 1.45 | 2.46 | |
| 50 °C | 0.63 | 0.74 | 0.91 | 1.22 | 2.07 | |

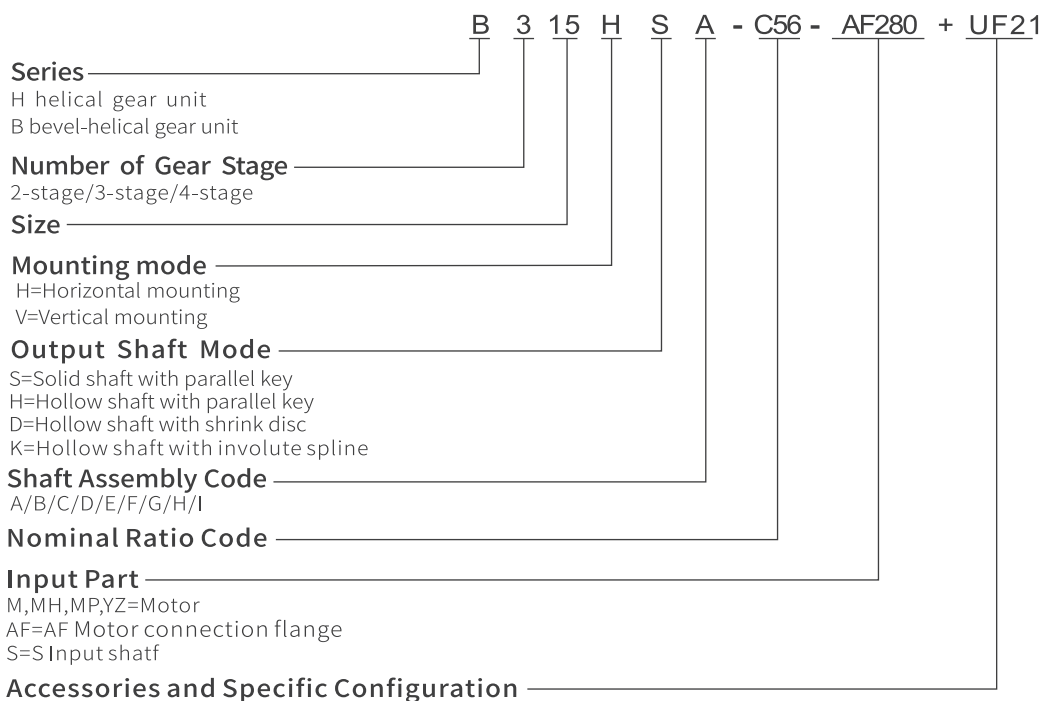
| Thermal factor | | f5 | | | | |
|--|--------------------------|------|------|------|------|--|
| Gearbox with cooling coil or with cooling coil and fan | | | | | | |
| Ambient temperature | Operating cycle per hour | | | | | |
| | 100 | 80 | 60 | 40 | 20 | |
| 10 °C | 1.05 | 1.23 | 1.50 | 2.03 | 3.41 | |
| 20 °C | 1.00 | 1.17 | 1.43 | 1.93 | 3.25 | |
| 30 °C | 0.93 | 1.09 | 1.33 | 1.79 | 3.02 | |
| 40 °C | 0.87 | 1.02 | 1.24 | 1.68 | 2.83 | |
| 50 °C | 0.81 | 0.95 | 1.16 | 1.56 | 2.63 | |

⚠ Note: Operating cycle ED: $ED = \frac{tf}{tf+tr} \cdot 100\%$
 tf: Working time with loading; tr: Stop time.

| Vertical mounted gear unit oil supply factor. For horizontally mounted gear unit f8=1.0 When forced lubrication applied, f8=1.05 | | | | | | f8 |
|---|--------------------|----------------------------------|------------------|-------------------|---------------------------|----|
| Gear unit type | Oil supply method | Without auxiliary cooling device | With cooling fan | With cooling coil | With fan and cooling coil | |
| H2..V, H3..V H4..V | Dip-in lubrication | 0.95 | * | 0.95 | * | |
| | Forced lubrication | 1.15 | * | 1.05 | * | |
| B2..V, B3..V B4..V | Dip-in lubrication | 0.95 | 0.95 | 0.95 | 0.95 | |
| | Forced lubrication | 1.15 | 1.10 | 1.10 | 1.10 | |

* Please consult us.

Type designation:



4 Service factor:

| Driven equipment factor | | | | | | | f1 |
|---------------------------------------|--------------------------------------|--------|------|---|---|--------|------|
| Driven equipment | Daily operating time with load(hour) | | | Driven equipment | Daily operating time with load(hour) | | |
| | ≤ 2 | > 2-10 | > 10 | | ≤ 2 | > 2-10 | > 10 |
| Sewage treatment | | | | Conveying machine | | | |
| Concentrator(Central Transmission) | - | - | 1.2 | Bucket conveyor | - | 1.4 | 1.5 |
| Compressed filter | 1.0 | 1.3 | 1.5 | Winch | 1.4 | 1.6 | 1.6 |
| Flocculator | 0.8 | 1.0 | 1.3 | Hoist | - | 1.5 | 1.8 |
| Aerator | - | 1.8 | 2.0 | Belt conveyor≤150kW | 1.0 | 1.2 | 1.3 |
| Collector | 1.0 | 1.2 | 1.3 | Belt conveyor≥150kW | 1.1 | 1.3 | 1.4 |
| Vertical,rotary group | | | | Elevators for goods* | - | 1.2 | 1.5 |
| Blended collector | 1.0 | 1.3 | 1.5 | Elevators for customers* | - | 1.5 | 1.8 |
| Concentrator | - | 1.1 | 1.3 | Scraper conveyor | - | 1.2 | 1.5 |
| Screw pump | - | 1.3 | 1.5 | Automatic ladder | 1.0 | 1.2 | 1.4 |
| Water wheel machine | - | - | 2.0 | Rail traveling mechanism | - | 1.5 | - |
| Pump | | | | Various frequency device | - | 1.8 | 2.0 |
| Centrifugal pump | 1.0 | 1.2 | 1.3 | Reciprocating compressor | - | 1.8 | 1.9 |
| Volume-down pump | | | | Hoisting mechanism** | | | |
| 1 Piston | 1.3 | 1.4 | 1.8 | Rotary mechanism* | - | 1.4 | 1.8 |
| >1 Piston | 1.2 | 1.4 | 1.5 | Pitching mechanism | - | 1.1 | 1.4 |
| Dredge | | | | Traveling mechanism | - | 1.6 | 2.0 |
| Bucket conveyor | - | 1.6 | 1.6 | Lifting mechanism | - | 1.1 | 1.4 |
| Unloading device | - | 1.3 | 1.5 | Jibcrane | - | 1.2 | 1.6 |
| Caterpillar travelling mechanism | 1.2 | 1.6 | 1.8 | Cooling tower | | | |
| Bucket digger | | | | Cooling tower fan | - | - | 2.0 |
| Be used for picking up | - | 1.7 | 1.7 | Fan (Shaft flow and centrifugal type) | - | 1.4 | 1.5 |
| Be used for rough materials | - | 2.2 | 2.2 | Food industry | | | |
| Chopper | - | 2.2 | 2.2 | Sugar production | - | - | 1.7 |
| Traveling mechanism* | - | 1.4 | 1.8 | Sugar-cane cutter* | - | - | 1.7 |
| Plate blender | - | 1.0 | 1.0 | Sugar crane mill | - | - | 1.7 |
| Chemical industry | | | | Beet sugar production | - | - | 1.2 |
| Extruder | - | - | 1.6 | Beet masher | - | - | 1.4 |
| Paste mixer | - | 1.8 | 1.8 | Squeeze machine, mechanical refrigerator, | - | - | 1.4 |
| Rubber calendar | - | 1.5 | 1.5 | Cooking machine | - | - | 1.5 |
| Cooling cylinder | - | 1.3 | 1.4 | Beet cleaner | - | - | 1.5 |
| Material mixer, be used for | | | | Beet chopper | | | |
| Uniform medium | 1.0 | 1.3 | 1.4 | Paper-making machinery | | | |
| Non-uniform medium | 1.4 | 1.6 | 1.7 | Various kinds*** | - | 1.8 | 2.0 |
| Blender, be used for | | | | Pulper driving device | Supply goods according to customer requirements | | |
| Uniform density medium | 1.0 | 1.3 | 1.5 | Centrifugal compressor | - | 1.4 | 1.5 |
| Un-uniformed medium | 1.2 | 1.4 | 1.6 | Rope way cable car | | | |
| Un-uniformed gas absorption | 1.4 | 1.6 | 1.8 | Delivery ropeway | - | 1.3 | 1.4 |
| Oven | 1.0 | 1.3 | 1.5 | Cableway of shuttle system | - | 1.6 | 1.8 |
| Centrifugal machine | 1.0 | 1.2 | 1.3 | T rod elevator | - | 1.3 | 1.4 |
| Metal processing equipment | | | | Continuous cableway | - | 1.4 | 1.6 |
| Plate turnover | 1.0 | 1.0 | 1.2 | Cement industry | | | |
| Steel pushing device | 1.0 | 1.2 | 1.2 | Concrete blender | - | 1.5 | 1.5 |
| Winding machine | - | 1.6 | 1.6 | Crusher** | - | 1.2 | 1.4 |
| Cooling bed transverse frame | - | 1.5 | 1.5 | Rotary kiln | - | - | 2.0 |
| Roller leveler | - | 1.6 | 1.6 | Tube mill | - | - | 2.0 |
| Roller path | | | | Powder concentrator | - | 1.6 | 1.6 |
| Continuous | - | 1.5 | 1.5 | Roller press | - | - | 2.0 |
| Interval | - | 2.0 | 2.0 | | | | |
| Reversing mill | - | 1.8 | 1.8 | | | | |
| Cutter | - | 1.5 | 1.5 | | | | |
| Continuous* | 1.0 | 1.0 | 1.0 | | | | |
| Crank type* | - | 1.4 | 1.4 | | | | |
| Continuous casting driving device | - | 1.4 | 1.4 | | | | |
| Rolling mill | - | 2.5 | 2.5 | | | | |
| Reversing cogging mill | - | 2.5 | 2.5 | | | | |
| Reversing plate slab mill | - | 1.8 | 1.8 | | | | |
| Reversing wire mill | - | 2.0 | 2.0 | | | | |
| Reversing thin plate mill | - | 1.8 | 1.8 | | | | |
| Reversing middle thickness plate mill | 0.9 | 1.0 | - | | | | |
| Roll gap adjusting and driving device | | | | | | | |

| Driven equipment factor | | | | | | | f ₁ | | | |
|---------------------------------|------------------------------------|--------|------|--|------------------------------------|-------|----------------|--|--|--|
| Driven equipment | Daily running time with load(hour) | | | Driven equipment | Daily running time with load(hour) | | | | | |
| | ≤ 2 | > 2-10 | > 10 | | ≤ 2 | >2-10 | > 10 | | | |
| Wood industry | | | | Plastics industry | | | | | | |
| Barking machine | | | | Miller, compound grinding, | 1.25 | 1.25 | 1.25 | | | |
| Feed drive | 1.25 | 1.25 | 1.50 | Coating, film, | | | | | | |
| Main drive | 1.75 | 1.75 | 1.75 | Conveying pipe, Pulling rod, thin type | 1.25 | 1.25 | 1.50 | | | |
| Conveyor | | | | Pipe type, Pile drawer | | | | | | |
| Burner, repeating saw, | 1.25 | 1.25 | 1.50 | Continuous mixer, Calender, | 1.50 | 1.50 | 1.50 | | | |
| Rotary tower, transit transport | 1.50 | 1.50 | 1.50 | Blow film, to plasticizing | | | | | | |
| Main loading, heavy loading | 1.50 | 1.50 | 1.50 | Batch mixer | 1.75 | 1.75 | 1.75 | | | |
| Main original wood, land base | 1.75 | 1.75 | 2.00 | | | | | | | |
| Conveying chain | | | | Rubber industry | | | | | | |
| Floor | 1.50 | 1.50 | 1.50 | Continuous strong inner mixer, Mix roller, | | | | | | |
| Green-wood | 1.50 | 1.50 | 1.75 | Batch feeding mixer (except for double sticks) | 1.50 | 1.50 | 1.50 | | | |
| Cutting Chain | | | | Refiner, calender | | | | | | |
| Saw transmission, traction | 1.50 | 1.50 | 1.75 | Double roller clamp feeding and mixed miller | | | | | | |
| Peeling barrel | 1.75 | 1.75 | 2.00 | Batch strong inner mixer, | 1.25 | 1.25 | 1.50 | | | |
| Feed drive | | | | Double stick single groove grain stick | | | | | | |
| Edging, wood trimmer, | 1.25 | 1.25 | 1.50 | Miller heater, double sticks | | | | | | |
| Planer feed, assorting table, , | | | | Batch feeding mixer | 1.75 | 1.75 | 1.75 | | | |
| Automatic incline lifting | | | | Grinder, Crusher heater, double | | | | | | |
| Multi-shaft feed, raw wood | 1.75 | 1.75 | 1.75 | Rolls, Batch charing grinder | | | | | | |
| Transportation and rotation | | | | Wave roll crusher | 2.00 | 2.00 | 2.00 | | | |
| Transportation | | | | | | | | | | |
| Charging tray, | | | | Generator and exciter | 1.00 | 1.00 | 1.25 | | | |
| Plywood lathe drive, | 1.50 | 1.50 | 1.75 | Hammer crusher | 1.75 | 1.75 | 2.00 | | | |
| Conveying chain, Lifting | | | | Sand miller | 1.25 | 1.25 | 1.50 | | | |

Note: 1. Determine required power P₂ of the driven equipment;

*) Determine rated power according to maximum torque

**) The actual service factor should be selected according to accurate loading classification, for specific information, please consult us.

***) It is necessary to check thermal capacity.

2. The factors are experience value. The premise of using these factors is that the above mechanical equipment should conform to common design regulation and loading conditions. If there is special situation, please consult us.

3. For machines that are not listed in this table, please consult us.

5. Key to symbols:

| Symbols | Instruction | Unit |
|---------------|--|-------|
| i | Actual ratio | / |
| i_N | Nominal ratio | |
| i_{ex} | Exact ratio | |
| T_2 | Output torque | N · m |
| T_{2N} | Reted output torque | |
| T_A | Max.Torque occurring on input shaft, e.g.Peak operating,starting or braking torque | |
| $T_{n2atmax}$ | Nominal output torque at highest speed | |
| $T_{n2atmin}$ | Nominal output torque at lowest speed | |
| P_{1N} | Rated input power | kW |
| P_{GA} | Nominal thermal capacity of gearbox without auxiliary cooling equipmengt | |
| P_{GB} | Nominal thermal capacity gearbox with cooling fan | |
| P_{GC} | Nominal thermal capacity of gearbox with cooling coil | |
| P_{GD} | Normal thermal capacity of gearbox with water-oil cooler | |
| P_1 | Input power | |
| P_2 | Required power of driven machine | |
| f_1 | Driven machine factor | / |
| f_2 | Prime mover factor | |
| f_3 | Peak load factor | |
| f_4 | Thermal factor(Without auxiliary cooling,or witho fan cooling) | |
| f_5 | Thermal factor(with water-oil cooler) | |
| f_8 | Oil supply factor for vertical gearbox | |
| S_F | Safety factor of gearbox | |
| n_1 | Input speed | r/min |
| n_2 | Output speed | |
| n_{2N} | Nominal output speed | |
| η | Efficiency | / |
| f | Motor frequency | Hz |
| U_m | Motor voltage | V |
| ED | Operating cycle per hour | % |

6 Selection example

Known conditions:

Prime mover:

Motor power: 185kW

Motor speed: $n_1=1450\text{r/min}$

Maximum starting torque: $T_A=1850\text{N.m}$

(This value is usually provided by the users. If not, normal torque $\times 1.6$ preails)

Driven equipment (working machine):

Type: Belt conveyor

Speed: $n_2=26\text{r/min}$

Required power: $P_2=155\text{kW}$

Duty: 12 hours/day

Starts per hour: 7

Operating cycle per hour: 100%

Ambient temperature: 40°C

Place of installation: Outdoor mounting

Altitude: 500m

Gear box:

Bevel-helical gear unit, horizontal mounting, with parallel key

solid shaft output

Shaft arrangement form C

Output shaft direction of rotation: run clockwise to output shaft

With backstop (accessory code UB11)

Selection procedure:

1. Calculation of ratio:

$$i = n_1/n_2 = 1450/26 = 55.8 \quad iN = C56$$

2. Determine rated power of gear box

$$P_1 = P_2 / \eta = 155 / (94\%) = 165\text{kW}$$

$$P_{1N} \geq P_1 \cdot f_1 \cdot f_2 \cdot SF = 165 \times 1.4 \times 1 \times 1.4 = 323\text{kW}$$

Refer to transmission capacity table B3, select size 14 $P_{1N} = 340\text{kW}$

$$3.33 \cdot P_1 = 3.33 \times 165 = 549\text{kW} \geq P_{1N} \quad \text{Satisfy requirements}$$

3. Peak torque verification

$$P_{1N} \geq T_A \cdot n_1 \cdot f_3 / 9550 = 1850 \times 1450 \times 0.65 / 9550 = 183\text{kW}$$

$$P_{1N} = 340\text{kW} \geq 183\text{kW} \quad \text{Satisfy requirements}$$

4. Verify thermal capacity:

$$P_{GA} \cdot f_4 \cdot f_8 = 135 \times 0.75 \times 1 = 101\text{kW} \leq P_1 = 165\text{kW}$$

Thermal capacity not sufficient

$$P_{GB} \cdot f_4 \cdot f_8 = 330 \times 0.75 \times 1 = 248\text{kW} \geq P_1 = 165\text{kW}$$

Thermal capacity is sufficient

When gear unit with cooling fan, thermal capacity is sufficient.

Fan accessory code is UF 21

5. Determine gear unit type: B314HSC-C56+UF21+UB11

7 Transmission Capacity table:

H2(iN=3.15-20):

| Code | iN | n ₁ (r/min) | n _{2N} (r/min) | H213 | | | H214 | | | H215 | | |
|------|------|---------------------------|----------------------------|---------------------------|-----------------|-------------------------|---------------------------|-----------------|-------------------------|---------------------------|-----------------|-------------------------|
| | | | | T _{2N} (kN·m) | i _{ex} | P _{1N} (kW) | T _{2N} (kN·m) | i _{ex} | P _{1N} (kW) | T _{2N} (kN·m) | i _{ex} | P _{1N} (kW) |
| B32 | 3.15 | 1740 | 552.4 | | | | 80 | 3.061 | 4762 | | | |
| | | 1450 | 460.3 | | | | | | 3968 | | | |
| | | 1150 | 365.1 | | | | | | 3147 | | | |
| | | 960 | 304.8 | | | | | | 2627 | | | |
| B36 | 3.55 | 1740 | 490.1 | | | | 90 | 3.429 | 4782 | | | |
| | | 1450 | 408.5 | | | | | | 3985 | | | |
| | | 1150 | 323.9 | | | | | | 3161 | | | |
| | | 960 | 270.4 | | | | | | 2638 | | | |
| B40 | 4 | 1740 | 435.0 | | | | 100 | 3.929 | 4637 | | | |
| | | 1450 | 362.5 | | | | | | 3864 | | | |
| | | 1150 | 287.5 | | | | | | 3065 | | | |
| | | 960 | 240.0 | | | | | | 2559 | | | |
| B45 | 4.5 | 1740 | 386.7 | | | | 100 | 4.387 | 4153 | | | |
| | | 1450 | 322.2 | | | | | | 3461 | | | |
| | | 1150 | 255.6 | | | | | | 2745 | | | |
| | | 960 | 213.3 | | | | | | 2291 | | | |
| B50 | 5 | 1740 | 348.0 | | | | 90 | 4.916 | 3336 | | | |
| | | 1450 | 290.0 | | | | | | 2780 | | | |
| | | 1150 | 230.0 | | | | | | 2205 | | | |
| | | 960 | 192.0 | | | | | | 1840 | | | |
| B56 | 5.6 | 1740 | 310.7 | | | | 90 | 5.558 | 2950 | | | |
| | | 1450 | 258.9 | | | | | | 2459 | | | |
| | | 1150 | 205.4 | | | | | | 1950 | | | |
| | | 960 | 171.4 | | | | | | 1628 | | | |
| B63 | 6.3 | 1740 | 276.2 | 86 | 5.878 | 2666 | 117 | 5.882 | 3624 | 143 | 6.000 | 4342* |
| | | 1450 | 230.2 | | | 2221 | | | 3020 | | | 3619 |
| | | 1150 | 182.5 | | | 1762 | | | 2395 | | | 2870 |
| | | 960 | 152.4 | | | 1471 | | | 1999 | | | 2396 |
| B71 | 7.1 | 1740 | 245.1 | 86 | 6.583 | 2380 | 117 | 6.588 | 3236 | 143 | 7.022 | 3711* |
| | | 1450 | 204.2 | | | 1983 | | | 2696 | | | 3092 |
| | | 1150 | 162.0 | | | 1573 | | | 2139 | | | 2452 |
| | | 960 | 135.2 | | | 1313 | | | 1785 | | | 2047 |
| B80 | 8 | 1740 | 217.5 | 86 | 7.543 | 2077 | 117 | 7.549 | 2824 | 143 | 8.000 | 3257* |
| | | 1450 | 181.3 | | | 1731 | | | 2353 | | | 2714 |
| | | 1150 | 143.8 | | | 1373 | | | 1866 | | | 2152 |
| | | 960 | 120.0 | | | 1146 | | | 1558 | | | 1797 |
| B90 | 9 | 1740 | 193.3 | 86 | 8.423 | 1860 | 117 | 8.429 | 2529 | 143 | 8.742 | 2980* |
| | | 1450 | 161.1 | | | 1550 | | | 2108 | | | 2484 |
| | | 1150 | 127.8 | | | 1230 | | | 1671 | | | 1970 |
| | | 960 | 106.7 | | | 1026 | | | 1395 | | | 1644 |
| C10 | 10 | 1740 | 174.0 | 86 | 9.439 | 1660 | 117 | 9.446 | 2257 | 143 | 9.882 | 2636* |
| | | 1450 | 145.0 | | | 1383 | | | 1881 | | | 2197 |
| | | 1150 | 115.0 | | | 1097 | | | 1491 | | | 1742 |
| | | 960 | 96.0 | | | 916 | | | 1245 | | | 1455 |
| C11 | 11.2 | 1740 | 155.4 | 86 | 10.671 | 1468 | 117 | 10.679 | 1996 | 143 | 10.900 | 2390* |
| | | 1450 | 129.5 | | | 1224 | | | 1663 | | | 1992 |
| | | 1150 | 102.7 | | | 970 | | | 1319 | | | 1580 |
| | | 960 | 85.7 | | | 810 | | | 1101 | | | 1319 |
| C13 | 12.5 | 1740 | 139.2 | 86 | 11.918 | 1315 | 117 | 11.927 | 1787 | 143 | 12.208 | 2134* |
| | | 1450 | 116.0 | | | 1096 | | | 1489 | | | 1779 |
| | | 1150 | 92.0 | | | 869 | | | 1181 | | | 1411 |
| | | 960 | 76.8 | | | 725 | | | 986 | | | 1178 |
| C14 | 14 | 1740 | 124.3 | 86 | 13.621 | 1150 | 117 | 13.631 | 1564 | 143 | 13.708 | 1901* |
| | | 1450 | 103.6 | | | 959 | | | 1303 | | | 1584 |
| | | 1150 | 82.1 | | | 760 | | | 1034 | | | 1256 |
| | | 960 | 68.6 | | | 635 | | | 863 | | | 1049 |
| C16 | 16 | 1740 | 108.8 | 86 | 15.762 | 994 | 117 | 15.774 | 1351 | 143 | 15.164 | 1718* |
| | | 1450 | 90.6 | | | 828 | | | 1126 | | | 1432 |
| | | 1150 | 71.9 | | | 657 | | | 893 | | | 1136 |
| | | 960 | 60.0 | | | 548 | | | 746 | | | 948 |
| C18 | 18 | 1740 | 96.7 | 86 | 17.487 | 896 | 117 | 17.500 | 1218 | 143 | 17.209 | 1514* |
| | | 1450 | 80.6 | | | 747 | | | 1015 | | | 1262 |
| | | 1150 | 63.9 | | | 592 | | | 805 | | | 1001 |
| | | 960 | 53.3 | | | 494 | | | 672 | | | 835 |
| C20 | 20 | 1740 | 87.0 | 86 | 19.526 | 802 | 117 | 19.540 | 1091 | | | |
| | | 1450 | 72.5 | | | 669 | | | 909 | | | |
| | | 1150 | 57.5 | | | 530 | | | 721 | | | |
| | | 960 | 48.0 | | | 443 | | | 602 | | | |

Note: Forced lubrication required on horizontal gearbox.
* On request.

| H216 | | | H217 | | | H218 | | | n _{2N} (r/min) | n ₁ (r/min) | i _N | Code |
|---------------------------|-----------------|-------------------------|---------------------------|-----------------|-------------------------|---------------------------|-----------------|-------------------------|----------------------------|---------------------------|----------------|------|
| T _{2N} (kN·m) | i _{ex} | P _{1N} (kW) | T _{2N} (kN·m) | i _{ex} | P _{1N} (kW) | T _{2N} (kN·m) | i _{ex} | P _{1N} (kW) | | | | |
| 125 | 3.148 | 7235 | | | | | | | 552.4 | 1740 | 3.15 | B32 |
| | | 6029 | | | | | | | 460.3 | 1450 | | |
| | | 4782 | | | | | | | 365.1 | 1150 | | |
| | | 3992 | | | | | | | 304.8 | 960 | | |
| 144 | 3.684 | 7122 | | | | 172 | 3.474 | 9021 | 490.1 | 1740 | 3.55 | B36 |
| | | 5935 | | | | | | 7517 | 408.5 | 1450 | | |
| | | 4707 | | | | | | 5962 | 323.9 | 1150 | | |
| | | 3929 | | | | | | 4977 | 270.4 | 960 | | |
| 130 | 4.198 | 5642 | | | | 195 | 4.055 | 8762 | 435.0 | 1740 | 4 | B40 |
| | | 4702 | | | | | | 7301 | 362.5 | 1450 | | |
| | | 3729 | | | | | | 5791 | 287.5 | 1150 | | |
| | | 3113 | | | | | | 4834 | 240.0 | 960 | | |
| 130 | 4.587 | 5164 | | | | 190 | 4.628 | 7480 | 386.7 | 1740 | 4.5 | B45 |
| | | 4303 | | | | | | 6233 | 322.2 | 1450 | | |
| | | 3413 | | | | | | 4944 | 255.6 | 1150 | | |
| | | 2849 | | | | | | 4127 | 213.3 | 960 | | |
| 135 | 5.185 | 4744 | | | | 177 | 5.251 | 6142 | 348.0 | 1740 | 5 | B50 |
| | | 3953 | | | | | | 5118 | 290.0 | 1450 | | |
| | | 3135 | | | | | | 4059 | 230.0 | 1150 | | |
| | | 2617 | | | | | | 3388 | 192.0 | 960 | | |
| 130 | 5.719 | 4142 | 215 | 5.462 | | 177 | 5.726 | 5632 | 310.7 | 1740 | 5.6 | B56 |
| | | 3451 | | | 5977 | | | 258.9 | 1450 | | | |
| | | 2737 | | | 4740 | | | 205.4 | 1150 | | | |
| | | 2285 | | | 3957 | | | 171.4 | 960 | | | |
| 176 | 5.996 | 5348* | 215 | 6.374 | | 255 | 6.305 | | 276.2 | 1740 | 6.3 | B63 |
| | | 4457 | | | 5121 | | | 230.2 | 1450 | | | |
| | | 3535 | | | 4062 | | | 182.5 | 1150 | | | |
| | | 2951 | | | 3391 | | | 152.4 | 960 | | | |
| 176 | 7.016 | 4570* | 215 | 7.276 | | 255 | 7.359 | | 245.1 | 1740 | 7.1 | B71 |
| | | 3809 | | | 4486 | | | 204.2 | 1450 | | | |
| | | 3021 | | | 3558 | | | 162.0 | 1150 | | | |
| | | 2522 | | | 2970 | | | 135.2 | 960 | | | |
| 176 | 7.994 | 4011* | 215 | 8.255 | | 255 | 8.400 | | 217.5 | 1740 | 8 | B80 |
| | | 3343 | | | 3954 | | | 181.3 | 1450 | | | |
| | | 2651 | | | 3136 | | | 143.8 | 1150 | | | |
| | | 2213 | | | 2618 | | | 120.0 | 960 | | | |
| 176 | 8.736 | 3671* | 215 | 9.003 | | 255 | 9.530 | 4875* | 193.3 | 1740 | 9 | B90 |
| | | 3059 | | | 3626 | | | 161.1 | 1450 | | | |
| | | 2426 | | | 2876 | | | 127.8 | 1150 | | | |
| | | 2025 | | | 2401 | | | 106.7 | 960 | | | |
| 176 | 9.875 | 3247* | 215 | 10.119 | | 255 | 10.393 | 4470* | 174.0 | 1740 | 10 | C10 |
| | | 2706 | | | 3226 | | | 145.0 | 1450 | | | |
| | | 2146 | | | 2559 | | | 115.0 | 1150 | | | |
| | | 1792 | | | 2136 | | | 96.0 | 960 | | | |
| 176 | 10.892 | 2944* | 215 | 11.101 | | 255 | 11.681 | 3977* | 155.4 | 1740 | 11.2 | C11 |
| | | 2454 | | | 2941 | | | 129.5 | 1450 | | | |
| | | 1946 | | | 2332 | | | 102.7 | 1150 | | | |
| | | 1624 | | | 1947 | | | 85.7 | 960 | | | |
| 176 | 12.199 | 2629* | 215 | 12.392 | | 255 | 12.816 | 3625* | 139.2 | 1740 | 12.5 | C13 |
| | | 2191 | | | 2634 | | | 116.0 | 1450 | | | |
| | | 1737 | | | 2089 | | | 92.0 | 1150 | | | |
| | | 1450 | | | 1744 | | | 76.8 | 960 | | | |
| 176 | 13.698 | 2341* | 215 | 13.875 | | 255 | 14.306 | 3248* | 124.3 | 1740 | 14 | C14 |
| | | 1951 | | | 2353 | | | 103.6 | 1450 | | | |
| | | 1547 | | | 1866 | | | 82.1 | 1150 | | | |
| | | 1292 | | | 1558 | | | 68.6 | 960 | | | |
| 176 | 15.153 | 2116* | 215 | 15.285 | | 255 | 16.017 | 2901* | 108.8 | 1740 | 16 | C16 |
| | | 1764 | | | 2136 | | | 90.6 | 1450 | | | |
| | | 1399 | | | 1694 | | | 71.9 | 1150 | | | |
| | | 1168 | | | 1414 | | | 60.0 | 960 | | | |
| 176 | 17.196 | 1865* | 215 | 17.253 | | 255 | 17.646 | 2633* | 96.7 | 1740 | 18 | C18 |
| | | 1554 | | | 1892 | | | 80.6 | 1450 | | | |
| | | 1232 | | | 1501 | | | 63.9 | 1150 | | | |
| | | 1029 | | | 1253 | | | 53.3 | 960 | | | |
| | | | | | | 255 | 19.917 | 2333* | 87.0 | 1740 | 20 | C20 |
| | | | | | | | | 1944 | 72.5 | 1450 | | |
| | | | | | | | | 1542 | 57.5 | 1150 | | |
| | | | | | | | | 1287 | 48.0 | 960 | | |

Note: Forced lubrication required on horizontal gearbox.
* On request.

H3(iN=14-112):

| Code | iN | n ₁ (r/min) | n _{2N} (r/min) | H313 | | | H314 | | | H315 | | | | | | |
|------|------|---------------------------|----------------------------|---------------|--------|-------------|---------------|--------|-------------|---------------|---------|-------------|-----|------|------|-----|
| | | | | T2N (kN·m) | iex | P1N (kW) | T2N (kN·m) | iex | P1N (kW) | T2N (kN·m) | iex | P1N (kW) | | | | |
| C14 | 14 | 1740 | 124.3 | | | | | | | | | | | | | |
| | | 1450 | 103.6 | | | | | | | | | | | | | |
| | | 1150 | 82.1 | | | | | | | | | | | | | |
| | | 960 | 68.6 | | | | | | | | | | | | | |
| C16 | 16 | 1740 | 108.8 | 88 | 14.974 | 1071 | 120 | 14.985 | 1459 | 153 | 15.047 | 1853 | | | | |
| | | 1450 | 90.6 | | | | | | | | | | 892 | 1216 | 1544 | |
| | | 1150 | 71.9 | | | | | | | | | | 708 | 964 | 1224 | |
| | | 960 | 60.0 | | | | | | | | | | 591 | 805 | 1022 | |
| C18 | 18 | 1740 | 96.7 | 88 | 16.884 | 950 | 120 | 16.897 | 1294 | 153 | 17.091 | 1631 | | | | |
| | | 1450 | 80.6 | | | | | | | | | | 791 | 1078 | 1359 | |
| | | 1150 | 63.9 | | | | | | | | | | 628 | 855 | 1078 | |
| | | 960 | 53.3 | | | | | | | | | | 524 | 714 | 900 | |
| C20 | 20 | 1740 | 87.0 | 88 | 19.502 | 822 | 120 | 19.517 | 1120 | 153 | 19.466 | 1432 | | | | |
| | | 1450 | 72.5 | | | | | | | | | | 685 | 934 | 1193 | |
| | | 1150 | 57.5 | | | | | | | | | | 543 | 740 | 946 | |
| | | 960 | 48.0 | | | | | | | | | | 454 | 618 | 790 | |
| C22 | 22.4 | 1740 | 77.7 | 88 | 22.247 | 721 | 120 | 22.264 | 982 | 153 | 21.285 | 1310 | | | | |
| | | 1450 | 64.7 | | | | | | | | | | 601 | 818 | 1091 | |
| | | 1150 | 51.3 | | | | | | | | | | 476 | 649 | 866 | |
| | | 960 | 42.9 | | | | | | | | | | 398 | 542 | 723 | |
| C25 | 25 | 1740 | 69.6 | 88 | 23.836 | 673 | 120 | 23.854 | 917 | 153 | 23.737 | 1174 | | | | |
| | | 1450 | 58.0 | | | | | | | | | | 561 | 764 | 979 | |
| | | 1150 | 46.0 | | | | | | | | | | 445 | 606 | 776 | |
| | | 960 | 38.4 | | | | | | | | | | 371 | 506 | 648 | |
| C28 | 28 | 1740 | 62.1 | 88 | 27.606 | 581 | 120 | 27.626 | 791 | 153 | 27.005 | 1032 | | | | |
| | | 1450 | 51.8 | | | | | | | | | | 484 | 660 | 860 | |
| | | 1150 | 41.1 | | | | | | | | | | 384 | 523 | 682 | |
| | | 960 | 34.3 | | | | | | | | | | 320 | 437 | 570 | |
| C32 | 31.5 | 1740 | 55.2 | 88 | 31.127 | 515 | 120 | 31.150 | 702 | 153 | 30.553 | 912 | | | | |
| | | 1450 | 46.0 | | | | | | | | | | 429 | 585 | 760 | |
| | | 1150 | 36.5 | | | | | | | | | | 340 | 464 | 603 | |
| | | 960 | 30.5 | | | | | | | | | | 284 | 387 | 503 | |
| C36 | 35.5 | 1740 | 49.0 | 88 | 35.954 | 446 | 120 | 35.981 | 608 | 153 | 34.800 | 801 | | | | |
| | | 1450 | 40.8 | | | | | | | | | | 372 | 506 | 668 | |
| | | 1150 | 32.4 | | | | | | | | | | 295 | 402 | 529 | |
| | | 960 | 27.0 | | | | | | | | | | 246 | 335 | 442 | |
| C40 | 40 | 1740 | 43.5 | 88 | 41.014 | 391 | 120 | 41.045 | 533 | 153 | 38.051 | 733 | | | | |
| | | 1450 | 36.3 | | | | | | | | | | 326 | 444 | 611 | |
| | | 1150 | 28.8 | | | | | | | | | | 258 | 352 | 484 | |
| | | 960 | 24.0 | | | | | | | | | | 216 | 294 | 404 | |
| C45 | 45 | 1740 | 38.7 | 88 | 43.944 | 365 | 120 | 43.976 | 497 | 153 | 42.435 | 657 | | | | |
| | | 1450 | 32.2 | | | | | | | | | | 304 | 414 | 547 | |
| | | 1150 | 25.6 | | | | | | | | | | 241 | 329 | 434 | |
| | | 960 | 21.3 | | | | | | | | | | 201 | 274 | 362 | |
| C50 | 50 | 1740 | 34.8 | 88 | 47.488 | 338 | 120 | 47.523 | 460 | 153 | 48.276 | 577 | | | | |
| | | 1450 | 29.0 | | | | | | | | | | 281 | 383 | 481 | |
| | | 1150 | 23.0 | | | | | | | | | | 223 | 304 | 382 | |
| | | 960 | 19.2 | | | | | | | | | | 186 | 254 | 319 | |
| C56 | 56 | 1740 | 31.1 | 88 | 54.930 | 292 | 120 | 54.971 | 398 | 153 | 54.559 | 511 | | | | |
| | | 1450 | 25.9 | | | | | | | | | | 243 | 331 | 426 | |
| | | 1150 | 20.5 | | | | | | | | | | 193 | 263 | 338 | |
| | | 960 | 17.1 | | | | | | | | | | 161 | 219 | 282 | |
| C63 | 63 | 1740 | 27.6 | 88 | 61.370 | 261 | 120 | 61.415 | 356 | 153 | 62.655 | 445 | | | | |
| | | 1450 | 23.0 | | | | | | | | | | 218 | 297 | 371 | |
| | | 1150 | 18.3 | | | | | | | | | | 173 | 235 | 294 | |
| | | 960 | 15.2 | | | | | | | | | | 144 | 196 | 245 | |
| C71 | 71 | 1740 | 24.5 | 88 | 69.171 | 232 | 120 | 69.222 | 316 | 153 | 71.706 | 389 | | | | |
| | | 1450 | 20.4 | | | | | | | | | | 193 | 263 | 324 | |
| | | 1150 | 16.2 | | | | | | | | | | 153 | 209 | 257 | |
| | | 960 | 13.5 | | | | | | | | | | 128 | 174 | 214 | |
| C80 | 80 | 1740 | 21.8 | 88 | 76.462 | 210 | 120 | 76.519 | 286 | 153 | 79.016 | 353 | | | | |
| | | 1450 | 18.1 | | | | | | | | | | 175 | 238 | 294 | |
| | | 1150 | 14.4 | | | | | | | | | | 139 | 189 | 233 | |
| | | 960 | 12.0 | | | | | | | | | | 116 | 158 | 195 | |
| C90 | 90 | 1740 | 19.3 | 88 | 85.977 | 186 | 120 | 86.041 | 254 | 153 | 88.911 | 314 | | | | |
| | | 1450 | 16.1 | | | | | | | | | | 155 | 212 | 261 | |
| | | 1150 | 12.8 | | | | | | | | | | 123 | 168 | 207 | |
| | | 960 | 10.7 | | | | | | | | | | 103 | 140 | 173 | |
| D10 | 100 | 1740 | 17.4 | 88 | 95.211 | 168 | 120 | 95.282 | 229 | 153 | 97.769 | 285 | | | | |
| | | 1450 | 14.5 | | | | | | | | | | 140 | 191 | 238 | |
| | | 1150 | 11.5 | | | | | | | | | | 111 | 152 | 188 | |
| | | 960 | 9.6 | | | | | | | | | | 93 | 127 | 157 | |
| D11 | 112 | 1740 | 15.5 | | | | | | | 153 | 109.118 | 255 | | | | |
| | | 1450 | 12.9 | | | | | | | | | | | | | 213 |
| | | 1150 | 10.3 | | | | | | | | | | | | | 169 |
| | | 960 | 8.6 | | | | | | | | | | | | | 141 |

| H316 | | | H317 | | | H318 | | | n _{2N} (r/min) | n ₁ (r/min) | iN | Code | |
|---------------|---------|-------------|---------------|--------|-------------|---------------|---------|-------------|----------------------------|---------------------------|------|------|------|
| T2N (kN·m) | ieX | P1N (kW) | T2N (kN·m) | ieX | P1N (kW) | T2N (kN·m) | ieX | P1N (kW) | | | | | |
| | | | 220 | 13.683 | 2929 | | | | 124.3 | 1740 | 14 | C14 | |
| | | | | | 2441 | | | | | 103.6 | | | 1450 |
| | | | | | 1936 | | | | | 82.1 | | | 1150 |
| | | | | | 1616 | | | | | 68.6 | | | 960 |
| 190 | 15.035 | 2302 | 220 | 15.542 | 2579 | 265 | 15.796 | 3057 | 108.8 | 1740 | 16 | C16 | |
| | | 1919 | | | 2149 | | | 2547 | 90.6 | 1450 | | | |
| | | 1522 | | | 1705 | | | 2020 | 71.9 | 1150 | | | |
| | | 1270 | | | 1423 | | | 1686 | 60.0 | 960 | | | |
| 190 | 17.078 | 2027 | 220 | 17.702 | 2264 | 265 | 17.942 | 2691 | 96.7 | 1740 | 18 | C18 | |
| | | 1689 | | | 1887 | | | 2243 | 80.6 | 1450 | | | |
| | | 1340 | | | 1497 | | | 1779 | 63.9 | 1150 | | | |
| | | 1118 | | | 1249 | | | 1485 | 53.3 | 960 | | | |
| 190 | 19.452 | 1780 | 220 | 19.356 | 2071 | 265 | 20.436 | 2363 | 87.0 | 1740 | 20 | C20 | |
| | | 1483 | | | 1726 | | | 1969 | 72.5 | 1450 | | | |
| | | 1176 | | | 1369 | | | 1562 | 57.5 | 1150 | | | |
| | | 982 | | | 1143 | | | 1304 | 48.0 | 960 | | | |
| 190 | 21.269 | 1628 | 220 | 21.586 | 1857 | 265 | 22.345 | 2161 | 77.7 | 1740 | 22.4 | C22 | |
| | | 1356 | | | 1547 | | | 1801 | 64.7 | 1450 | | | |
| | | 1076 | | | 1227 | | | 1428 | 51.3 | 1150 | | | |
| | | 898 | | | 1025 | | | 1192 | 42.9 | 960 | | | |
| 190 | 23.719 | 1459 | 220 | 24.557 | 1632 | 265 | 24.919 | 1938 | 69.6 | 1740 | 25 | C25 | |
| | | 1216 | | | 1360 | | | 1615 | 58.0 | 1450 | | | |
| | | 965 | | | 1079 | | | 1281 | 46.0 | 1150 | | | |
| | | 805 | | | 901 | | | 1069 | 38.4 | 960 | | | |
| 190 | 26.985 | 1283 | 220 | 27.650 | 1450 | 265 | 28.350 | 1703 | 62.1 | 1740 | 28 | C28 | |
| | | 1069 | | | 1208 | | | 1419 | 51.8 | 1450 | | | |
| | | 848 | | | 958 | | | 1126 | 41.1 | 1150 | | | |
| | | 708 | | | 800 | | | 940 | 34.3 | 960 | | | |
| 190 | 30.530 | 1134 | 220 | 31.493 | 1273 | 265 | 31.920 | 1513 | 55.2 | 1740 | 31.5 | C32 | |
| | | 945 | | | 1061 | | | 1261 | 46.0 | 1450 | | | |
| | | 749 | | | 841 | | | 1000 | 36.5 | 1150 | | | |
| | | 626 | | | 702 | | | 835 | 30.5 | 960 | | | |
| 190 | 34.774 | 996 | 220 | 34.436 | 1164 | 265 | 36.357 | 1328 | 49.0 | 1740 | 35.5 | C36 | |
| | | 830 | | | 970 | | | 1107 | 40.8 | 1450 | | | |
| | | 658 | | | 769 | | | 878 | 32.4 | 1150 | | | |
| | | 549 | | | 642 | | | 733 | 27.0 | 960 | | | |
| 190 | 38.023 | 910 | 220 | 38.403 | 1044 | 265 | 39.754 | 1215 | 43.5 | 1740 | 40 | C40 | |
| | | 759 | | | 870 | | | 1012 | 36.3 | 1450 | | | |
| | | 602 | | | 690 | | | 803 | 28.8 | 1150 | | | |
| | | 502 | | | 576 | | | 670 | 24.0 | 960 | | | |
| 190 | 42.403 | 816 | 220 | 43.689 | 917 | 265 | 44.333 | 1089 | 38.7 | 1740 | 45 | C45 | |
| | | 680 | | | 765 | | | 908 | 32.2 | 1450 | | | |
| | | 540 | | | 606 | | | 720 | 25.6 | 1150 | | | |
| | | 450 | | | 506 | | | 601 | 21.3 | 960 | | | |
| 190 | 48.240 | 718 | 220 | 49.375 | 812 | 265 | 50.436 | 957 | 34.8 | 1740 | 50 | C50 | |
| | | 598 | | | 677 | | | 798 | 29.0 | 1450 | | | |
| | | 474 | | | 537 | | | 633 | 23.0 | 1150 | | | |
| | | 396 | | | 448 | | | 528 | 19.2 | 960 | | | |
| 190 | 54.518 | 635 | 220 | 56.702 | 707 | 265 | 57.000 | 847 | 31.1 | 1740 | 56 | C56 | |
| | | 529 | | | 589 | | | 706 | 25.9 | 1450 | | | |
| | | 420 | | | 467 | | | 560 | 20.5 | 1150 | | | |
| | | 350 | | | 390 | | | 467 | 17.1 | 960 | | | |
| 190 | 62.608 | 553 | 220 | 64.893 | 618 | 265 | 65.458 | 738 | 27.6 | 1740 | 63 | C63 | |
| | | 461 | | | 515 | | | 615 | 23.0 | 1450 | | | |
| | | 365 | | | 408 | | | 488 | 18.3 | 1150 | | | |
| | | 305 | | | 341 | | | 407 | 15.2 | 960 | | | |
| 190 | 71.653 | 483 | 220 | 71.509 | 561 | 265 | 74.914 | 645 | 24.5 | 1740 | 71 | C71 | |
| | | 403 | | | 467 | | | 537 | 20.4 | 1450 | | | |
| | | 319 | | | 370 | | | 426 | 16.2 | 1150 | | | |
| | | 267 | | | 309 | | | 356 | 13.5 | 960 | | | |
| 190 | 78.957 | 438 | 220 | 80.463 | 498 | 265 | 82.552 | 585 | 21.8 | 1740 | 80 | C80 | |
| | | 365 | | | 415 | | | 487 | 18.1 | 1450 | | | |
| | | 290 | | | 329 | | | 387 | 14.4 | 1150 | | | |
| | | 242 | | | 275 | | | 323 | 12.0 | 960 | | | |
| 190 | 88.845 | 390 | 220 | 88.480 | 453 | 265 | 92.889 | 520 | 19.3 | 1740 | 90 | C90 | |
| | | 325 | | | 378 | | | 433 | 16.1 | 1450 | | | |
| | | 258 | | | 299 | | | 344 | 12.8 | 1150 | | | |
| | | 215 | | | 250 | | | 287 | 10.7 | 960 | | | |
| 190 | 97.697 | 354 | 220 | 98.750 | 406 | 265 | 102.144 | 473 | 17.4 | 1740 | 100 | D10 | |
| | | 295 | | | 338 | | | 394 | 14.5 | 1450 | | | |
| | | 234 | | | 268 | | | 312 | 11.5 | 1150 | | | |
| | | 195 | | | 224 | | | 261 | 9.6 | 960 | | | |
| 190 | 109.036 | 317 | | | | 265 | 114.000 | 424 | 15.5 | 1740 | 112 | D11 | |
| | | 265 | | | | | | 353 | 12.9 | 1450 | | | |
| | | 210 | | | | | | 280 | 10.3 | 1150 | | | |
| | | 175 | | | | | | 234 | 8.6 | 960 | | | |

H4(iN=63-450):

| Code | iN | n ₁ (r/min) | n _{2N} (r/min) | H413 | | | H414 | | | H415 | | | | | |
|------|-----|---------------------------|----------------------------|---------------|-----------------|-------------|---------------|-----------------|-------------|---------------|-----------------|-------------|-----|-----|-----|
| | | | | T2N (kN·m) | ie _x | P1N (kW) | T2N (kN·m) | ie _x | P1N (kW) | T2N (kN·m) | ie _x | P1N (kW) | | | |
| C63 | 63 | 1740 | 27.6 | | | | | | | | | | | | |
| | | 1450 | 23.0 | | | | | | | | | | | | |
| | | 1150 | 18.3 | | | | | | | | | | | | |
| | | 960 | 15.2 | | | | | | | | | | | | |
| C71 | 71 | 1740 | 24.5 | 91 | 67.606 | 245 | 125 | 67.656 | 337 | 153 | 67.549 | 413 | | | |
| | | 1450 | 20.4 | | | | | | | | | | 204 | 281 | 344 |
| | | 1150 | 16.2 | | | | | | | | | | 162 | 222 | 273 |
| | | 960 | 13.5 | | | | | | | | | | 135 | 186 | 228 |
| C80 | 80 | 1740 | 21.8 | 91 | 75.714 | 219 | 125 | 75.770 | 301 | 153 | 75.543 | 369 | | | |
| | | 1450 | 18.1 | | | | | | | | | | 182 | 250 | 308 |
| | | 1150 | 14.4 | | | | | | | | | | 145 | 199 | 244 |
| | | 960 | 12.0 | | | | | | | | | | 121 | 166 | 204 |
| C90 | 90 | 1740 | 19.3 | 91 | 89.261 | 186 | 125 | 89.327 | 255 | 153 | 84.050 | 332 | | | |
| | | 1450 | 16.1 | | | | | | | | | | 155 | 212 | 276 |
| | | 1150 | 12.8 | | | | | | | | | | 123 | 169 | 219 |
| | | 960 | 10.7 | | | | | | | | | | 102 | 141 | 183 |
| D10 | 100 | 1740 | 17.4 | 91 | 96.850 | 171 | 125 | 96.922 | 235 | 153 | 94.676 | 294 | | | |
| | | 1450 | 14.5 | | | | | | | | | | 143 | 196 | 245 |
| | | 1150 | 11.5 | | | | | | | | | | 113 | 155 | 195 |
| | | 960 | 9.6 | | | | | | | | | | 94 | 130 | 162 |
| D11 | 112 | 1740 | 15.5 | 91 | 113.091 | 147 | 125 | 113.175 | 201 | 153 | 109.118 | 255 | | | |
| | | 1450 | 12.9 | | | | | | | | | | 122 | 168 | 213 |
| | | 1150 | 10.3 | | | | | | | | | | 97 | 133 | 169 |
| | | 960 | 8.6 | | | | | | | | | | 81 | 111 | 141 |
| D13 | 125 | 1740 | 13.9 | 91 | 125.308 | 132 | 125 | 125.402 | 182 | 153 | 120.406 | 232 | | | |
| | | 1450 | 11.6 | | | | | | | | | | 110 | 151 | 193 |
| | | 1150 | 9.2 | | | | | | | | | | 87 | 120 | 153 |
| | | 960 | 7.7 | | | | | | | | | | 73 | 100 | 128 |
| D14 | 140 | 1740 | 12.4 | 91 | 131.237 | 126 | 125 | 131.335 | 173 | 153 | 141.544 | 197 | | | |
| | | 1450 | 10.4 | | | | | | | | | | 105 | 145 | 164 |
| | | 1150 | 8.2 | | | | | | | | | | 83 | 115 | 130 |
| | | 960 | 6.9 | | | | | | | | | | 70 | 96 | 109 |
| D16 | 160 | 1740 | 10.9 | 91 | 154.719 | 107 | 125 | 154.834 | 147 | 153 | 157.483 | 177 | | | |
| | | 1450 | 9.1 | | | | | | | | | | 89 | 123 | 148 |
| | | 1150 | 7.2 | | | | | | | | | | 71 | 97 | 117 |
| | | 960 | 6.0 | | | | | | | | | | 59 | 81 | 98 |
| D18 | 180 | 1740 | 9.7 | 91 | 167.873 | 99 | 125 | 167.998 | 136 | 153 | 177.392 | 157 | | | |
| | | 1450 | 8.1 | | | | | | | | | | 82 | 113 | 131 |
| | | 1150 | 6.4 | | | | | | | | | | 65 | 90 | 104 |
| | | 960 | 5.3 | | | | | | | | | | 54 | 75 | 87 |
| D20 | 200 | 1740 | 8.7 | 91 | 196.024 | 85 | 125 | 196.170 | 116 | 153 | 204.452 | 136 | | | |
| | | 1450 | 7.3 | | | | | | | | | | 70 | 97 | 114 |
| | | 1150 | 5.8 | | | | | | | | | | 56 | 77 | 90 |
| | | 960 | 4.8 | | | | | | | | | | 47 | 64 | 75 |
| D22 | 224 | 1740 | 7.8 | 91 | 217.201 | 76 | 125 | 217.363 | 105 | 153 | 225.602 | 124 | | | |
| | | 1450 | 6.5 | | | | | | | | | | 64 | 87 | 103 |
| | | 1150 | 5.1 | | | | | | | | | | 50 | 69 | 82 |
| | | 960 | 4.3 | | | | | | | | | | 42 | 58 | 68 |
| D25 | 250 | 1740 | 7.0 | 91 | 230.350 | 72 | 125 | 230.522 | 99 | 153 | 249.886 | 112 | | | |
| | | 1450 | 5.8 | | | | | | | | | | 60 | 82 | 93 |
| | | 1150 | 4.6 | | | | | | | | | | 48 | 65 | 74 |
| | | 960 | 3.8 | | | | | | | | | | 40 | 55 | 62 |
| D28 | 280 | 1740 | 6.2 | 91 | 261.832 | 63 | 125 | 262.026 | 87 | 153 | 278.055 | 100 | | | |
| | | 1450 | 5.2 | | | | | | | | | | 53 | 72 | 84 |
| | | 1150 | 4.1 | | | | | | | | | | 42 | 57 | 66 |
| | | 960 | 3.4 | | | | | | | | | | 35 | 48 | 55 |
| D32 | 315 | 1740 | 5.5 | 91 | 325.306 | 51 | 125 | 325.548 | 70 | 153 | 315.567 | 88 | | | |
| | | 1450 | 4.6 | | | | | | | | | | 42 | 58 | 74 |
| | | 1150 | 3.7 | | | | | | | | | | 34 | 46 | 58 |
| | | 960 | 3.0 | | | | | | | | | | 28 | 39 | 49 |
| D36 | 355 | 1740 | 4.9 | 91 | 380.846 | 44 | 125 | 381.129 | 60 | 153 | 350.489 | 80 | | | |
| | | 1450 | 4.1 | | | | | | | | | | 36 | 50 | 66 |
| | | 1150 | 3.2 | | | | | | | | | | 29 | 39 | 53 |
| | | 960 | 2.7 | | | | | | | | | | 24 | 33 | 44 |
| D40 | 400 | 1740 | 4.4 | 91 | 409.409 | 40 | 125 | 409.714 | 56 | 153 | 398.143 | 70 | | | |
| | | 1450 | 3.6 | | | | | | | | | | 34 | 46 | 58 |
| | | 1150 | 2.9 | | | | | | | | | | 27 | 37 | 46 |
| | | 960 | 2.4 | | | | | | | | | | 22 | 31 | 39 |
| D45 | 450 | 1740 | 3.9 | 91 | 460.189 | 36 | 125 | 460.531 | 49 | 153 | 457.010 | 61 | | | |
| | | 1450 | 3.2 | | | | | | | | | | 30 | 41 | 51 |
| | | 1150 | 2.6 | | | | | | | | | | 24 | 33 | 40 |
| | | 960 | 2.1 | | | | | | | | | | 20 | 27 | 34 |

| H416 | | | H417 | | | H418 | | | n _{2N} (r/min) | n ₁ (r/min) | iN | Code | |
|---------------|-----------------|-------------|---------------|-----------------|-------------|---------------|-----------------|-------------|----------------------------|---------------------------|-----|------|------|
| T2N (kN·m) | ie _x | P1N (kW) | T2N (kN·m) | ie _x | P1N (kW) | T2N (kN·m) | ie _x | P1N (kW) | | | | | |
| | | | 220 | 61.131 | 656 | | | | 27.6 | 1740 | 63 | C63 | |
| | | | | | 546 | | | | | 23.0 | | | 1450 |
| | | | | | 433 | | | | | 18.3 | | | 1150 |
| | | | | | 362 | | | | | 15.2 | | | 960 |
| 190 | 67.499 | 513 | 220 | 68.365 | 586 | 265 | 70.571 | 684 | 24.5 | 1740 | 71 | C71 | |
| | | 427 | | | 489 | | | 570 | 20.4 | 1450 | | | |
| | | 339 | | | 388 | | | 452 | 16.2 | 1150 | | | |
| | | 283 | | | 323 | | | 377 | 13.5 | 960 | | | |
| 190 | 75.487 | 459 | 220 | 76.064 | 527 | 265 | 78.923 | 612 | 21.8 | 1740 | 80 | C80 | |
| | | 382 | | | 439 | | | 510 | 18.1 | 1450 | | | |
| | | 303 | | | 348 | | | 404 | 14.4 | 1150 | | | |
| | | 253 | | | 291 | | | 338 | 12.0 | 960 | | | |
| 190 | 83.988 | 412 | 220 | 85.680 | 468 | 265 | 87.811 | 550 | 19.3 | 1740 | 90 | C90 | |
| | | 343 | | | 390 | | | 458 | 16.1 | 1450 | | | |
| | | 272 | | | 309 | | | 363 | 12.8 | 1150 | | | |
| | | 227 | | | 258 | | | 303 | 10.7 | 960 | | | |
| 190 | 94.605 | 366 | 220 | 98.750 | 406 | 265 | 98.912 | 488 | 17.4 | 1740 | 100 | D10 | |
| | | 305 | | | 338 | | | 407 | 14.5 | 1450 | | | |
| | | 242 | | | 268 | | | 323 | 11.5 | 1150 | | | |
| | | 202 | | | 224 | | | 269 | 9.6 | 960 | | | |
| 190 | 109.036 | 317 | 220 | 108.966 | 368 | 265 | 114.000 | 424 | 15.5 | 1740 | 112 | D11 | |
| | | 265 | | | 307 | | | 353 | 12.9 | 1450 | | | |
| | | 210 | | | 243 | | | 280 | 10.3 | 1150 | | | |
| | | 175 | | | 203 | | | 234 | 8.6 | 960 | | | |
| 190 | 120.316 | 288 | 220 | 128.095 | 313 | 265 | 125.793 | 384 | 13.9 | 1740 | 125 | D13 | |
| | | 240 | | | 261 | | | 320 | 11.6 | 1450 | | | |
| | | 190 | | | 207 | | | 254 | 9.2 | 1150 | | | |
| | | 159 | | | 173 | | | 212 | 7.7 | 960 | | | |
| 190 | 141.438 | 245 | 220 | 142.520 | 281 | 265 | 147.877 | 327 | 12.4 | 1740 | 140 | D14 | |
| | | 204 | | | 234 | | | 272 | 10.4 | 1450 | | | |
| | | 162 | | | 186 | | | 216 | 8.2 | 1150 | | | |
| | | 135 | | | 155 | | | 180 | 6.9 | 960 | | | |
| 190 | 157.366 | 220 | 220 | 160.538 | 250 | 265 | 164.530 | 293 | 10.9 | 1740 | 160 | D16 | |
| | | 183 | | | 208 | | | 245 | 9.1 | 1450 | | | |
| | | 145 | | | 165 | | | 194 | 7.2 | 1150 | | | |
| | | 121 | | | 138 | | | 162 | 6.0 | 960 | | | |
| 190 | 177.260 | 195 | 220 | 185.026 | 217 | 265 | 185.329 | 261 | 9.7 | 1740 | 180 | D18 | |
| | | 163 | | | 181 | | | 217 | 8.1 | 1450 | | | |
| | | 129 | | | 143 | | | 172 | 6.4 | 1150 | | | |
| | | 108 | | | 120 | | | 144 | 5.3 | 960 | | | |
| 190 | 204.300 | 169 | 220 | 204.167 | 196 | 265 | 213.600 | 226 | 8.7 | 1740 | 200 | D20 | |
| | | 141 | | | 164 | | | 188 | 7.3 | 1450 | | | |
| | | 112 | | | 130 | | | 149 | 5.8 | 1150 | | | |
| | | 93 | | | 108 | | | 125 | 4.8 | 960 | | | |
| 190 | 225.434 | 154 | 220 | 226.143 | 177 | 265 | 235.697 | 205 | 7.8 | 1740 | 224 | D22 | |
| | | 128 | | | 148 | | | 171 | 6.5 | 1450 | | | |
| | | 101 | | | 117 | | | 135 | 5.1 | 1150 | | | |
| | | 85 | | | 98 | | | 113 | 4.3 | 960 | | | |
| 190 | 249.700 | 139 | 220 | 251.636 | 159 | 265 | 261.067 | 185 | 7.0 | 1740 | 250 | D25 | |
| | | 116 | | | 133 | | | 154 | 5.8 | 1450 | | | |
| | | 92 | | | 105 | | | 122 | 4.6 | 1150 | | | |
| | | 76 | | | 88 | | | 102 | 3.8 | 960 | | | |
| 190 | 277.848 | 125 | 220 | 285.584 | 140 | 265 | 290.496 | 166 | 6.2 | 1740 | 280 | D28 | |
| | | 104 | | | 117 | | | 139 | 5.2 | 1450 | | | |
| | | 82 | | | 93 | | | 110 | 4.1 | 1150 | | | |
| | | 69 | | | 77 | | | 92 | 3.4 | 960 | | | |
| 190 | 315.332 | 110 | 220 | 317.188 | 126 | 265 | 329.687 | 146 | 5.5 | 1740 | 315 | D32 | |
| | | 91 | | | 105 | | | 122 | 4.6 | 1450 | | | |
| | | 73 | | | 84 | | | 97 | 3.7 | 1150 | | | |
| | | 61 | | | 70 | | | 81 | 3.0 | 960 | | | |
| 190 | 350.228 | 99 | 220 | 360.314 | 111 | 265 | 366.171 | 132 | 4.9 | 1740 | 355 | D36 | |
| | | 82 | | | 93 | | | 110 | 4.1 | 1450 | | | |
| | | 65 | | | 74 | | | 87 | 3.2 | 1150 | | | |
| | | 55 | | | 61 | | | 73 | 2.7 | 960 | | | |
| 190 | 397.847 | 87 | 220 | 413.588 | 97 | 265 | 415.958 | 116 | 4.4 | 1740 | 400 | D40 | |
| | | 73 | | | 81 | | | 97 | 3.6 | 1450 | | | |
| | | 58 | | | 64 | | | 77 | 2.9 | 1150 | | | |
| | | 48 | | | 53 | | | 64 | 2.4 | 960 | | | |
| 190 | 456.670 | 76 | 220 | | 97 | 265 | 477.459 | 101 | 3.9 | 1740 | 450 | D45 | |
| | | 63 | | | 84 | | | 84 | 3.2 | 1450 | | | |
| | | 50 | | | 67 | | | 67 | 2.6 | 1150 | | | |
| | | 42 | | | 56 | | | 56 | 2.1 | 960 | | | |

B2(iN=6.3-14):

| Code | iN | n ₁ (r/min) | n _{2N} (r/min) | B213 | | | B214 | | | B215 | | |
|------|------|---------------------------|----------------------------|---------------------------|-----------------|-------------------------|---------------------------|-----------------|-------------------------|---------------------------|-----------------|-------------------------|
| | | | | T _{2N} (kN·m) | i _{ex} | P _{1N} (kW) | T _{2N} (kN·m) | i _{ex} | P _{1N} (kW) | T _{2N} (kN·m) | i _{ex} | P _{1N} (kW) |
| B63 | 6.3 | 1740 | 276.2 | 76 | 6.172 | 2244* | 96 | 6.176 | 2832* | 130 | 6.176 | 3835* |
| | | 1450 | 230.2 | | | 1870 | | | 2360 | | | 3196* |
| | | 1150 | 182.5 | | | 1483 | | | 1872 | | | 2535* |
| | | 960 | 152.4 | | | 1238 | | | 1562 | | | 2116 |
| B71 | 7.1 | 1740 | 245.1 | 76 | 6.957 | 1990* | 96 | 6.963 | 2512* | 132 | 6.963 | 3454* |
| | | 1450 | 204.2 | | | 1659 | | | 2093 | | | 2879* |
| | | 1150 | 162.0 | | | 1315 | | | 1660 | | | 2283* |
| | | 960 | 135.2 | | | 1098 | | | 1386 | | | 1906 |
| B80 | 8 | 1740 | 217.5 | 82 | 8.056 | 1855* | 104 | 8.062 | 2350* | 132 | 8.062 | 2983* |
| | | 1450 | 181.3 | | | 1545 | | | 1959 | | | 2486 |
| | | 1150 | 143.8 | | | 1226 | | | 1553 | | | 1972 |
| | | 960 | 120.0 | | | 1023 | | | 1297 | | | 1646 |
| B90 | 9 | 1740 | 193.3 | 82 | 8.713 | 1715* | 104 | 8.720 | 2173* | 132 | 8.720 | 2758* |
| | | 1450 | 161.1 | | | 1429 | | | 1811 | | | 2298 |
| | | 1150 | 127.8 | | | 1133 | | | 1436 | | | 1823 |
| | | 960 | 106.7 | | | 946 | | | 1199 | | | 1522 |
| C10 | 10 | 1740 | 174.0 | 82 | 10.204 | 1464* | 109 | 10.212 | 1945* | 132 | 10.212 | 2355* |
| | | 1450 | 145.0 | | | 1220 | | | 1621 | | | 1963 |
| | | 1150 | 115.0 | | | 968 | | | 1285 | | | 1557 |
| | | 960 | 96.0 | | | 808 | | | 1073 | | | 1299 |
| C11 | 11.2 | 1740 | 155.4 | 82 | 10.863 | 1375* | 111 | 10.871 | 1860* | 132 | 10.871 | 2212* |
| | | 1450 | 129.5 | | | 1146 | | | 1550 | | | 1844 |
| | | 1150 | 102.7 | | | 909 | | | 1230 | | | 1462 |
| | | 960 | 85.7 | | | 759 | | | 1026 | | | 1221 |
| C13 | 12.5 | 1740 | 139.2 | 82 | 12.534 | 1192* | 111 | 12.543 | 1612* | 132 | 12.543 | 1917* |
| | | 1450 | 116.0 | | | 993 | | | 1344 | | | 1598 |
| | | 1150 | 92.0 | | | 788 | | | 1066 | | | 1267 |
| | | 960 | 76.8 | | | 658 | | | 890 | | | 1058 |
| C14 | 14 | 1740 | 124.3 | 82 | 13.578 | 1100* | 111 | 13.588 | 1488* | 132 | 13.588 | 1770* |
| | | 1450 | 103.6 | | | 917 | | | 1240 | | | 1475 |
| | | 1150 | 82.1 | | | 727 | | | 984 | | | 1170 |
| | | 960 | 68.6 | | | 607 | | | 821 | | | 977 |

Note: Forced lubrication required on horizontal gearbox.
* On request.

| B216 | | | B217 | | | B218 | | | n_{2N} (r/min) | n_1 (r/min) | i_N | Code | |
|--------------------|----------|------------------|--------------------|----------|------------------|--------------------|----------|------------------|---------------------|------------------|-------|------|------|
| T_{2N} (kN·m) | i_{ex} | P_{1N} (kW) | T_{2N} (kN·m) | i_{ex} | P_{1N} (kW) | T_{2N} (kN·m) | i_{ex} | P_{1N} (kW) | | | | | |
| 160 | 6.172 | 4723* | 215 | 6.184 | 5278* | | | | 276.2 | 1740 | 6.3 | B63 | |
| | | 3936* | | | | | | | 230.2 | 1450 | | | |
| | | 3122* | | | | | | | 182.5 | 1150 | | | |
| | | 2606 | | | | | | | 152.4 | 960 | | | |
| 160 | 6.957 | 4190* | 215 | 7.161 | 4559* | 253 | 7.139 | | 245.1 | 1740 | 7.1 | B71 | |
| | | 3492* | | | 3616* | | | | 204.2 | 1450 | | | |
| | | 2769* | | | 3018 | | | | 4267* | 162.0 | | | 1150 |
| | | 2312 | | | 3562* | | | | 135.2 | 960 | | | |
| 163 | 8.056 | 3687* | 215 | 7.745 | 5058* | 253 | 8.267 | | 217.5 | 1740 | 8 | B80 | |
| | | 3072* | | | 4215* | | | | 4647* | 181.3 | | | 1450 |
| | | 2437* | | | 3343* | | | | 3685* | 143.8 | | | 1150 |
| | | 2034 | | | 2790 | | | | 3077 | 120.0 | | | 960 |
| 163 | 8.713 | 3408* | 215 | 9.070 | 4319* | 253 | 8.941 | | 5156* | 193.3 | 9 | B90 | |
| | | 2840 | | | 3599* | | | | 4296* | 161.1 | | | 1450 |
| | | 2253 | | | 2854* | | | | 3407* | 127.8 | | | 1150 |
| | | 1881 | | | 2383 | | | | 2844 | 106.7 | | | 960 |
| 163 | 10.204 | 2910* | 215 | 9.948 | 3938* | 253 | 10.471 | | 4402* | 174.0 | 10 | C10 | |
| | | 2425 | | | 3281* | | | | 3669* | 145.0 | | | 1450 |
| | | 1924 | | | 2602* | | | | 2910* | 115.0 | | | 1150 |
| | | 1606 | | | 2173 | | | | 2429 | 96.0 | | | 960 |
| 163 | 10.863 | 2734* | 215 | 11.141 | 3516* | 253 | 11.484 | | 4014* | 155.4 | 11.2 | C11 | |
| | | 2278 | | | 2930* | | | | 3345* | 129.5 | | | 1450 |
| | | 1807 | | | 2324* | | | | 2653* | 102.7 | | | 1150 |
| | | 1508 | | | 1940 | | | | 2215 | 85.7 | | | 960 |
| 163 | 12.534 | 2369* | 215 | 12.069 | 3246* | 253 | 12.862 | | 3584* | 139.2 | 12.5 | C13 | |
| | | 1975 | | | 2705* | | | | 2987* | 116.0 | | | 1450 |
| | | 1566 | | | 2145* | | | | 2369* | 92.0 | | | 1150 |
| | | 1307 | | | 1791 | | | | 1977 | 76.8 | | | 960 |
| 163 | 13.578 | 2187* | 215 | 13.606 | 2879* | 253 | 13.933 | | 3308* | 124.3 | 14 | C14 | |
| | | 1823 | | | 2399 | | | | 2757* | 103.6 | | | 1450 |
| | | 1446 | | | 1903 | | | | 2187* | 82.1 | | | 1150 |
| | | 1207 | | | 1589 | | | | 1825 | 68.6 | | | 960 |

Note: Forced lubrication required on horizontal gearbox.
* On request.

B3 (iN=16-90)

| Code | iN | n ₁ (r/min) | n _{2N} (r/min) | B313 | | | B314 | | | B315 | | |
|------|------|---------------------------|----------------------------|---------------|--------|-------------|---------------|--------|-------------|---------------|--------|-------------|
| | | | | T2N (kN·m) | iex | P1N (kW) | T2N (kN·m) | iex | P1N (kW) | T2N (kN·m) | iex | P1N (kW) |
| C16 | 16 | 1740 | 108.8 | 91 | 14.898 | 1113 | 112 | 14.909 | 1369 | 148 | 15.260 | 1767* |
| | | 1450 | 90.6 | | | 927 | | | 1141 | | | 1473 |
| | | 1150 | 71.9 | | | 736 | | | 905 | | | 1168 |
| | | 960 | 60.0 | | | 614 | | | 755 | | | 975 |
| C18 | 18 | 1740 | 96.7 | 91 | 16.794 | 987 | 112 | 16.806 | 1214 | 148 | 17.202 | 1568* |
| | | 1450 | 80.6 | | | 823 | | | 1012 | | | 1306 |
| | | 1150 | 63.9 | | | 653 | | | 802 | | | 1036 |
| | | 960 | 53.3 | | | 545 | | | 670 | | | 865 |
| C20 | 20 | 1740 | 87.0 | 91 | 19.445 | 853 | 119 | 19.460 | 1114 | 153 | 19.918 | 1400* |
| | | 1450 | 72.5 | | | 711 | | | 928 | | | 1166 |
| | | 1150 | 57.5 | | | 564 | | | 736 | | | 925 |
| | | 960 | 48.0 | | | 470 | | | 615 | | | 772 |
| C22 | 22.4 | 1740 | 77.7 | 91 | 21.032 | 788 | 119 | 21.048 | 1030 | 153 | 21.543 | 1294* |
| | | 1450 | 64.7 | | | 657 | | | 858 | | | 1078 |
| | | 1150 | 51.3 | | | 521 | | | 681 | | | 855 |
| | | 960 | 42.9 | | | 435 | | | 568 | | | 714 |
| C25 | 25 | 1740 | 69.6 | 91 | 23.836 | 696 | 125 | 23.854 | 955 | 153 | 24.415 | 1142* |
| | | 1450 | 58.0 | | | 580 | | | 796 | | | 951 |
| | | 1150 | 46.0 | | | 460 | | | 631 | | | 755 |
| | | 960 | 38.4 | | | 384 | | | 527 | | | 630 |
| C28 | 28 | 1740 | 62.1 | 91 | 27.465 | 604 | 125 | 27.485 | 829 | 153 | 27.279 | 1022* |
| | | 1450 | 51.8 | | | 503 | | | 691 | | | 852 |
| | | 1150 | 41.1 | | | 399 | | | 548 | | | 675 |
| | | 960 | 34.3 | | | 333 | | | 457 | | | 564 |
| C32 | 31.5 | 1740 | 55.2 | 91 | 30.960 | 536 | 125 | 30.983 | 735 | 153 | 30.751 | 907* |
| | | 1450 | 46.0 | | | 446 | | | 613 | | | 755 |
| | | 1150 | 36.5 | | | 354 | | | 486 | | | 599 |
| | | 960 | 30.5 | | | 295 | | | 406 | | | 500 |
| C36 | 35.5 | 1740 | 49.0 | 91 | 35.849 | 463 | 125 | 35.876 | 635 | 153 | 35.607 | 783* |
| | | 1450 | 40.8 | | | 385 | | | 529 | | | 652 |
| | | 1150 | 32.4 | | | 306 | | | 420 | | | 517 |
| | | 960 | 27.0 | | | 255 | | | 350 | | | 432 |
| C40 | 40 | 1740 | 43.5 | 91 | 38.774 | 428 | 125 | 38.803 | 587 | 153 | 38.512 | 724* |
| | | 1450 | 36.3 | | | 356 | | | 489 | | | 603 |
| | | 1150 | 28.8 | | | 283 | | | 388 | | | 478 |
| | | 960 | 24.0 | | | 236 | | | 324 | | | 399 |
| C45 | 45 | 1740 | 38.7 | 91 | 43.944 | 377 | 125 | 43.976 | 518 | 153 | 43.647 | 639* |
| | | 1450 | 32.2 | | | 314 | | | 432 | | | 532 |
| | | 1150 | 25.6 | | | 249 | | | 342 | | | 422 |
| | | 960 | 21.3 | | | 208 | | | 286 | | | 352 |
| C50 | 50 | 1740 | 34.8 | 91 | 48.338 | 343 | 125 | 48.374 | 471 | 153 | 48.012 | 581 |
| | | 1450 | 29.0 | | | 286 | | | 392 | | | 484 |
| | | 1150 | 23.0 | | | 227 | | | 311 | | | 384 |
| | | 960 | 19.2 | | | 189 | | | 260 | | | 320 |
| C56 | 56 | 1740 | 31.1 | 91 | 55.775 | 297 | 125 | 55.816 | 408 | 153 | 55.398 | 503 |
| | | 1450 | 25.9 | | | 248 | | | 340 | | | 419 |
| | | 1150 | 20.5 | | | 196 | | | 270 | | | 333 |
| | | 960 | 17.1 | | | 164 | | | 225 | | | 278 |
| C63 | 63 | 1740 | 27.6 | 91 | 60.423 | 274 | 125 | 60.468 | 377 | 153 | 60.015 | 464 |
| | | 1450 | 23.0 | | | 229 | | | 314 | | | 387 |
| | | 1150 | 18.3 | | | 181 | | | 249 | | | 307 |
| | | 960 | 15.2 | | | 151 | | | 208 | | | 256 |
| C71 | 71 | 1740 | 24.5 | 91 | 68.113 | 243 | 125 | 68.164 | 334 | 153 | 67.653 | 412 |
| | | 1450 | 20.4 | | | 203 | | | 278 | | | 343 |
| | | 1150 | 16.2 | | | 161 | | | 221 | | | 272 |
| | | 960 | 13.5 | | | 134 | | | 184 | | | 227 |
| C80 | 80 | 1740 | 21.8 | 91 | 78.122 | 212 | 125 | 78.180 | 291 | 153 | 77.595 | 359 |
| | | 1450 | 18.1 | | | 177 | | | 243 | | | 299 |
| | | 1150 | 14.4 | | | 140 | | | 193 | | | 237 |
| | | 960 | 12.0 | | | 117 | | | 161 | | | 198 |
| C90 | 90 | 1740 | 19.3 | 91 | 85.141 | 195 | 125 | 85.204 | 267 | 153 | 84.566 | 330 |
| | | 1450 | 16.1 | | | 162 | | | 223 | | | 275 |
| | | 1150 | 12.8 | | | 129 | | | 177 | | | 218 |
| | | 960 | 10.7 | | | 107 | | | 147 | | | 182 |

Note: Forced lubricati on required on horizontal gearbox.
* On request.

| B316 | | | B317 | | | B318 | | | n _{2N} (r/min) | n ₁ (r/min) | iN | Code |
|---------------|--------|-------------|---------------|--------|-------------|---------------|--------|-------------|----------------------------|---------------------------|------|------|
| T2N (kN·m) | iex | P1N (kW) | T2N (kN·m) | iex | P1N (kW) | T2N (kN·m) | iex | P1N (kW) | | | | |
| 183 | 15.248 | 2187* | 220 | 15.643 | 2562* | 253 | 16.020 | 2877* | 108.8 | 1740 | 16 | C16 |
| | | 1822 | | | 2135 | | | 2398 | 90.6 | 1450 | | |
| | | 1445 | | | 1694 | | | 1902 | 71.9 | 1150 | | |
| | | 1206 | | | 1414 | | | 1588 | 60.0 | 960 | | |
| 183 | 17.189 | 1940* | 220 | 18.113 | 2213* | 265 | 18.058 | 2674* | 96.7 | 1740 | 18 | C18 |
| | | 1616 | | | 1844 | | | 2228 | 80.6 | 1450 | | |
| | | 1282 | | | 1463 | | | 1767 | 63.9 | 1150 | | |
| | | 1070 | | | 1221 | | | 1475 | 53.3 | 960 | | |
| 183 | 19.903 | 1675* | 220 | 19.591 | 2046* | 265 | 20.910 | 2309* | 87.0 | 1740 | 20 | C20 |
| | | 1396 | | | 1705 | | | 1924 | 72.5 | 1450 | | |
| | | 1107 | | | 1352 | | | 1526 | 57.5 | 1150 | | |
| | | 924 | | | 1129 | | | 1274 | 48.0 | 960 | | |
| 190 | 21.527 | 1608* | 220 | 22.943 | 1747* | 265 | 22.616 | 2135* | 77.7 | 1740 | 22.4 | C22 |
| | | 1340 | | | 1456 | | | 1779 | 64.7 | 1450 | | |
| | | 1063 | | | 1155 | | | 1411 | 51.3 | 1150 | | |
| | | 887 | | | 964 | | | 1178 | 42.9 | 960 | | |
| 190 | 24.397 | 1419* | 220 | 24.688 | 1624* | 265 | 26.486 | 1823* | 69.6 | 1740 | 25 | C25 |
| | | 1182 | | | 1353 | | | 1519 | 58.0 | 1450 | | |
| | | 938 | | | 1073 | | | 1205 | 46.0 | 1150 | | |
| | | 783 | | | 896 | | | 1006 | 38.4 | 960 | | |
| 190 | 27.259 | 1270* | 220 | 27.830 | 1440* | 265 | 28.500 | 1694* | 62.1 | 1740 | 28 | C28 |
| | | 1058 | | | 1200 | | | 1412 | 51.8 | 1450 | | |
| | | 839 | | | 952 | | | 1120 | 41.1 | 1150 | | |
| | | 701 | | | 795 | | | 935 | 34.3 | 960 | | |
| 190 | 30.728 | 1127* | 220 | 32.224 | 1244* | 265 | 32.127 | 1503* | 55.2 | 1740 | 31.5 | C32 |
| | | 939 | | | 1037 | | | 1252 | 46.0 | 1450 | | |
| | | 745 | | | 822 | | | 993 | 36.5 | 1150 | | |
| | | 622 | | | 686 | | | 829 | 30.5 | 960 | | |
| 190 | 35.580 | 973* | 220 | 34.853 | 1150* | 265 | 37.200 | 1298* | 49.0 | 1740 | 35.5 | C36 |
| | | 811 | | | 958 | | | 1082 | 40.8 | 1450 | | |
| | | 643 | | | 760 | | | 858 | 32.4 | 1150 | | |
| | | 537 | | | 635 | | | 716 | 27.0 | 960 | | |
| 190 | 38.483 | 900* | 220 | 40.817 | 982* | 265 | 40.235 | 1200* | 43.5 | 1740 | 40 | C40 |
| | | 750 | | | 818 | | | 1000 | 36.3 | 1450 | | |
| | | 595 | | | 649 | | | 793 | 28.8 | 1150 | | |
| | | 496 | | | 542 | | | 662 | 24.0 | 960 | | |
| 190 | 43.615 | 794* | 220 | 43.450 | 923* | 265 | 47.120 | 1025* | 38.7 | 1740 | 45 | C45 |
| | | 661 | | | 769 | | | 854 | 32.2 | 1450 | | |
| | | 525 | | | 610 | | | 677 | 25.6 | 1150 | | |
| | | 438 | | | 509 | | | 565 | 21.3 | 960 | | |
| 190 | 47.976 | 722* | 220 | 50.135 | 800* | 265 | 50.160 | 963* | 34.8 | 1740 | 50 | C50 |
| | | 601 | | | 666 | | | 802 | 29.0 | 1450 | | |
| | | 477 | | | 528 | | | 636 | 23.0 | 1150 | | |
| | | 398 | | | 441 | | | 531 | 19.2 | 960 | | |
| 190 | 55.357 | 625 | 220 | 54.313 | 738* | 265 | 57.877 | 834* | 31.1 | 1740 | 56 | C56 |
| | | 521 | | | 615 | | | 695 | 25.9 | 1450 | | |
| | | 413 | | | 488 | | | 551 | 20.5 | 1150 | | |
| | | 345 | | | 407 | | | 460 | 17.1 | 960 | | |
| 190 | 59.970 | 577 | 220 | 61.225 | 655* | 265 | 62.700 | 770* | 27.6 | 1740 | 63 | C63 |
| | | 481 | | | 546 | | | 642 | 23.0 | 1450 | | |
| | | 382 | | | 433 | | | 509 | 18.3 | 1150 | | |
| | | 318 | | | 361 | | | 425 | 15.2 | 960 | | |
| 190 | 67.603 | 512 | 220 | 70.222 | 571* | 265 | 70.680 | 683* | 24.5 | 1740 | 71 | C71 |
| | | 427 | | | 476 | | | 569 | 20.4 | 1450 | | |
| | | 338 | | | 377 | | | 451 | 16.2 | 1150 | | |
| | | 283 | | | 315 | | | 377 | 13.5 | 960 | | |
| 190 | 77.537 | 446 | 220 | 76.531 | 524* | 265 | 81.067 | 596* | 21.8 | 1740 | 80 | C80 |
| | | 372 | | | 436 | | | 496 | 18.1 | 1450 | | |
| | | 295 | | | 346 | | | 394 | 14.4 | 1150 | | |
| | | 246 | | | 289 | | | 329 | 12.0 | 960 | | |
| 190 | 84.503 | 410 | 220 | | | 265 | 88.350 | 546* | 19.3 | 1740 | 90 | C90 |
| | | 341 | | | | | | 455 | 16.1 | 1450 | | |
| | | 271 | | | | | | 361 | 12.8 | 1150 | | |
| | | 226 | | | | | | 302 | 10.7 | 960 | | |

Note: Forced lubrication required on horizontal gearbox.
* On request.

B4(iN=90-400) :

| Code | iN | n ₁ (r/min) | n _{2N} (r/min) | B413 | | | B414 | | | B415 | | | |
|------|-----|---------------------------|----------------------------|---------------------------|-----------------|-------------------------|---------------------------|-----------------|-------------------------|---------------------------|-----------------|-------------------------|-----|
| | | | | T _{2N} (kN·m) | i _{ex} | P _{1N} (kW) | T _{2N} (kN·m) | i _{ex} | P _{1N} (kW) | T _{2N} (kN·m) | i _{ex} | P _{1N} (kW) | |
| C90 | 90 | 1740 | 19.3 | | | | | | | | | | |
| | | 1450 | 16.1 | | | | | | | | | | |
| | | 1150 | 12.8 | | | | | | | | | | |
| | | 960 | 10.7 | | | | | | | | | | |
| D10 | 100 | 1740 | 17.4 | 91 | 96.935 | | 125 | 97.007 | | 153 | 96.280 | | 171 |
| | | 1450 | 14.5 | | | | | | | | | | 143 |
| | | 1150 | 11.5 | | | | | | | | | | 113 |
| | | 960 | 9.6 | | | | | | | | | | 94 |
| D11 | 112 | 1740 | 15.5 | 91 | 109.859 | | 125 | 109.941 | | 153 | 109.118 | | 151 |
| | | 1450 | 12.9 | | | | | | | | | | 126 |
| | | 1150 | 10.3 | | | | | | | | | | 100 |
| | | 960 | 8.6 | | | | | | | | | | 83 |
| D13 | 125 | 1740 | 13.9 | 91 | 119.014 | | 125 | 119.103 | | 153 | 127.783 | | 139 |
| | | 1450 | 11.6 | | | | | | | | | | 116 |
| | | 1150 | 9.2 | | | | | | | | | | 92 |
| | | 960 | 7.7 | | | | | | | | | | 77 |
| D14 | 140 | 1740 | 12.4 | 91 | 134.162 | | 125 | 134.261 | | 153 | 144.046 | | 124 |
| | | 1450 | 10.4 | | | | | | | | | | 103 |
| | | 1150 | 8.2 | | | | | | | | | | 82 |
| | | 960 | 6.9 | | | | | | | | | | 68 |
| D16 | 160 | 1740 | 10.9 | 91 | 155.345 | | 125 | 155.461 | | 153 | 166.790 | | 107 |
| | | 1450 | 9.1 | | | | | | | | | | 89 |
| | | 1150 | 7.2 | | | | | | | | | | 71 |
| | | 960 | 6.0 | | | | | | | | | | 59 |
| D18 | 180 | 1740 | 9.7 | 91 | 168.020 | | 125 | 168.145 | | 153 | 180.399 | | 99 |
| | | 1450 | 8.1 | | | | | | | | | | 82 |
| | | 1150 | 6.4 | | | | | | | | | | 65 |
| | | 960 | 5.3 | | | | | | | | | | 54 |
| D20 | 200 | 1740 | 8.7 | 91 | 190.423 | | 125 | 190.565 | | 153 | 204.452 | | 87 |
| | | 1450 | 7.3 | | | | | | | | | | 73 |
| | | 1150 | 5.8 | | | | | | | | | | 58 |
| | | 960 | 4.8 | | | | | | | | | | 48 |
| D22 | 224 | 1740 | 7.8 | 91 | 209.465 | | 125 | 209.621 | | 153 | 224.897 | | 79 |
| | | 1450 | 6.5 | | | | | | | | | | 66 |
| | | 1150 | 5.1 | | | | | | | | | | 52 |
| | | 960 | 4.3 | | | | | | | | | | 44 |
| D25 | 250 | 1740 | 7.0 | 91 | 241.691 | | 125 | 241.871 | | 153 | 259.497 | | 69 |
| | | 1450 | 5.8 | | | | | | | | | | 57 |
| | | 1150 | 4.6 | | | | | | | | | | 45 |
| | | 960 | 3.8 | | | | | | | | | | 38 |
| D28 | 280 | 1740 | 6.2 | 91 | 261.832 | | 125 | 262.026 | | 153 | 281.122 | | 63 |
| | | 1450 | 5.2 | | | | | | | | | | 53 |
| | | 1150 | 4.1 | | | | | | | | | | 42 |
| | | 960 | 3.4 | | | | | | | | | | 35 |
| D32 | 315 | 1740 | 5.5 | 91 | 295.156 | | 125 | 295.375 | | 153 | 316.901 | | 56 |
| | | 1450 | 4.6 | | | | | | | | | | 47 |
| | | 1150 | 3.7 | | | | | | | | | | 37 |
| | | 960 | 3.0 | | | | | | | | | | 31 |
| D36 | 355 | 1740 | 4.9 | 91 | 338.530 | | 125 | 338.782 | | 153 | 363.470 | | 49 |
| | | 1450 | 4.1 | | | | | | | | | | 41 |
| | | 1150 | 3.2 | | | | | | | | | | 32 |
| | | 960 | 2.7 | | | | | | | | | | 27 |
| D40 | 400 | 1740 | 4.4 | 91 | 368.944 | | 125 | 369.219 | | 153 | 396.126 | | 45 |
| | | 1450 | 3.6 | | | | | | | | | | 37 |
| | | 1150 | 2.9 | | | | | | | | | | 30 |
| | | 960 | 2.4 | | | | | | | | | | 25 |

| B416 | | | B417 | | | B418 | | | n_{2N} (r/min) | n_1 (r/min) | i_N | Code |
|--------------------|----------|------------------|--------------------|----------|------------------|--------------------|----------|------------------|---------------------|------------------|-------|------|
| T_{2N} (kN·m) | i_{ex} | P_{1N} (kW) | T_{2N} (kN·m) | i_{ex} | P_{1N} (kW) | T_{2N} (kN·m) | i_{ex} | P_{1N} (kW) | | | | |
| | | | 220 | 87.132 | 460 | | | | 19.3 | 1740 | 90 | C90 |
| | | | | | 383 | | | | 16.1 | 1450 | | |
| | | | | | 304 | | | | 12.8 | 1150 | | |
| | | | | | 254 | | | | 10.7 | 960 | | |
| 190 | 96.209 | 360 | 220 | 98.750 | 406 | 265 | 100.588 | | 17.4 | 1740 | 100 | D10 |
| | | 300 | | | 338 | | | | 14.5 | 1450 | | |
| | | 238 | | | 268 | | | | 11.5 | 1150 | | |
| | | 199 | | | 224 | | | | 9.6 | 960 | | |
| 190 | 109.036 | 317 | 220 | 115.641 | 347 | 265 | 114.000 | | 15.5 | 1740 | 112 | D11 |
| | | 265 | | | 289 | | | | 12.9 | 1450 | | |
| | | 210 | | | 229 | | | | 10.3 | 1150 | | |
| | | 175 | | | 191 | | | | 8.6 | 960 | | |
| 190 | 127.687 | 271 | 220 | 130.359 | 307 | 265 | 133.500 | | 13.9 | 1740 | 125 | D13 |
| | | 226 | | | 256 | | | | 11.6 | 1450 | | |
| | | 179 | | | 203 | | | | 9.2 | 1150 | | |
| | | 150 | | | 170 | | | | 7.7 | 960 | | |
| 190 | 143.939 | 241 | 220 | 150.943 | 266 | 265 | 150.491 | | 12.4 | 1740 | 140 | D14 |
| | | 200 | | | 221 | | | | 10.4 | 1450 | | |
| | | 159 | | | 176 | | | | 8.2 | 1150 | | |
| | | 133 | | | 147 | | | | 6.9 | 960 | | |
| 190 | 166.666 | 208 | 220 | 163.259 | 246 | 265 | 174.253 | | 10.9 | 1740 | 160 | D16 |
| | | 173 | | | 205 | | | | 9.1 | 1450 | | |
| | | 137 | | | 162 | | | | 7.2 | 1150 | | |
| | | 115 | | | 135 | | | | 6.0 | 960 | | |
| 190 | 180.265 | 192 | 220 | 185.026 | 217 | 265 | 188.471 | | 9.7 | 1740 | 180 | D18 |
| | | 160 | | | 181 | | | | 8.1 | 1450 | | |
| | | 127 | | | 143 | | | | 6.4 | 1150 | | |
| | | 106 | | | 120 | | | | 5.3 | 960 | | |
| 190 | 204.300 | 169 | 220 | 203.529 | 197 | 265 | 213.600 | | 8.7 | 1740 | 200 | D20 |
| | | 141 | | | 164 | | | | 7.3 | 1450 | | |
| | | 112 | | | 130 | | | | 5.8 | 1150 | | |
| | | 93 | | | 109 | | | | 4.8 | 960 | | |
| 190 | 224.730 | 154 | 220 | 234.841 | 171 | 265 | 234.960 | | 7.8 | 1740 | 224 | D22 |
| | | 128 | | | 142 | | | | 6.5 | 1450 | | |
| | | 102 | | | 113 | | | | 5.1 | 1150 | | |
| | | 85 | | | 94 | | | | 4.3 | 960 | | |
| 190 | 259.304 | 134 | 220 | 254.411 | 158 | 265 | 271.108 | | 7.0 | 1740 | 250 | D25 |
| | | 111 | | | 131 | | | | 5.8 | 1450 | | |
| | | 88 | | | 104 | | | | 4.6 | 1150 | | |
| | | 74 | | | 87 | | | | 3.8 | 960 | | |
| 190 | 280.912 | 123 | 220 | 286.791 | 140 | 265 | 293.700 | | 6.2 | 1740 | 280 | D28 |
| | | 103 | | | 116 | | | | 5.2 | 1450 | | |
| | | 81 | | | 92 | | | | 4.1 | 1150 | | |
| | | 68 | | | 77 | | | | 3.4 | 960 | | |
| 190 | 316.665 | 109 | 220 | 328.936 | 122 | 265 | 331.080 | | 5.5 | 1740 | 315 | D32 |
| | | 91 | | | 102 | | | | 4.6 | 1450 | | |
| | | 72 | | | 81 | | | | 3.7 | 1150 | | |
| | | 60 | | | 67 | | | | 3.0 | 960 | | |
| 190 | 363.200 | 95 | 220 | 358.488 | 112 | 265 | 379.733 | | 4.9 | 1740 | 355 | D36 |
| | | 79 | | | 93 | | | | 4.1 | 1450 | | |
| | | 63 | | | 74 | | | | 3.2 | 1150 | | |
| | | 53 | | | 62 | | | | 2.7 | 960 | | |
| 190 | 395.831 | 87 | | | | 265 | 413.850 | | 4.4 | 1740 | 400 | D40 |
| | | 73 | | | | | | | 3.6 | 1450 | | |
| | | 58 | | | | | | | 2.9 | 1150 | | |
| | | 48 | | | | | | | 2.4 | 960 | | |

8 Rated thermal capacity(kW)

H2 (kW)

| Code | iN | | H213 | | | | H214 | | | | H215 | | | |
|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | 960 | 1150 | 1450 | 1740 | 960 | 1150 | 1450 | 1740 | 960 | 1150 | 1450 | 1740 |
| B32 | 3.15 | PGA | | | | | * | * | * | * | | | | |
| | | PGB | | | | | 687 | * | * | * | | | | |
| | | PGC | | | | | 1516 | 1420 | 1571 | 1577 | | | | |
| | | PGD | | | | | 1990 | 1992 | 2275 | 2376 | | | | |
| B36 | 3.55 | PGA | | | | | * | * | * | * | | | | |
| | | PGB | | | | | 606 | * | * | * | | | | |
| | | PGC | | | | | 1469 | 1421 | 1529 | 1520 | | | | |
| | | PGD | | | | | 1933 | 1981 | 2206 | 2292 | | | | |
| B40 | 4 | PGA | | | | | * | * | * | * | | | | |
| | | PGB | | | | | 608 | * | * | * | | | | |
| | | PGC | | | | | 1400 | 1384 | 1458 | 1541 | | | | |
| | | PGD | | | | | 1861 | 1939 | 2106 | 2320 | | | | |
| B45 | 4.5 | PGA | | | | | * | * | * | * | | | | |
| | | PGB | | | | | 698 | * | * | * | | | | |
| | | PGC | | | | | 1336 | 1339 | 1464 | 1430 | | | | |
| | | PGD | | | | | 1778 | 1873 | 2113 | 2156 | | | | |
| B50 | 5 | PGA | | | | | * | * | * | * | | | | |
| | | PGB | | | | | 678 | * | * | * | | | | |
| | | PGC | | | | | 1255 | 1273 | 1350 | 1352 | | | | |
| | | PGD | | | | | 1681 | 1784 | 1951 | 2038 | | | | |
| B56 | 5.6 | PGA | | | | | * | * | * | * | | | | |
| | | PGB | | | | | 691 | * | * | * | | | | |
| | | PGC | | | | | 1244 | 1274 | 1268 | 1208 | | | | |
| | | PGD | | | | | 1670 | 1787 | 1831 | 1823 | | | | |
| B63 | 6.3 | PGA | * | * | * | * | * | * | * | * | * | * | * | * |
| | | PGB | 579 | 415 | 442 | * | 632 | 486 | 523 | 376 | 563 | * | * | * |
| | | PGC | 961 | 806 | 958 | 882 | 1031 | 960 | 928 | 942 | 1147 | 954 | 1014 | 822 |
| | | PGD | 1553 | 1515 | 1793 | 1678 | 1690 | 1695 | 1736 | 1825 | 1782 | 1628 | 1824 | 1562 |
| B71 | 7.1 | PGA | * | * | * | * | * | * | * | * | * | * | * | * |
| | | PGB | 558 | 452 | 493 | 357 | 650 | 520 | 551 | 386 | 591 | 344 | 338 | * |
| | | PGC | 930 | 860 | 954 | 902 | 1021 | 952 | 1002 | 1008 | 1114 | 957 | 1031 | 882 |
| | | PGD | 1510 | 1497 | 1728 | 1710 | 1678 | 1682 | 1827 | 1906 | 1746 | 1636 | 1851 | 1666 |
| B80 | 8 | PGA | * | * | * | * | * | * | * | * | * | * | * | * |
| | | PGB | 591 | 484 | 537 | 436 | 656 | 526 | 580 | 453 | 613 | 407 | 422 | * |
| | | PGC | 888 | 838 | 937 | 907 | 1010 | 946 | 1055 | 1013 | 1078 | 957 | 1045 | 935 |
| | | PGD | 1455 | 1465 | 1700 | 1722 | 1658 | 1660 | 1923 | 1931 | 1696 | 1629 | 1860 | 1749 |
| B90 | 9 | PGA | 166 | * | * | * | 180 | * | * | * | * | * | * | * |
| | | PGB | 594 | 529 | 600 | 547 | 672 | 589 | 666 | 595 | 635 | 495 | 541 | 402 |
| | | PGC | 844 | 821 | 927 | 928 | 979 | 947 | 1068 | 1062 | 3434 | 959 | 1066 | 1012 |
| | | PGD | 1395 | 1436 | 1679 | 1755 | 1611 | 1651 | 1927 | 2003 | 1644 | 1635 | 1889 | 1877 |
| C10 | 10 | PGA | 178 | * | * | * | 199 | * | * | * | 170 | * | * | * |
| | | PGB | 587 | 549 | 631 | 611 | 673 | 624 | 715 | 683 | 640 | 545 | 612 | 526 |
| | | PGC | 799 | 793 | 902 | 922 | 934 | 922 | 1047 | 1065 | 979 | 938 | 1053 | 1035 |
| | | PGD | 1326 | 1386 | 1628 | 1736 | 1551 | 1616 | 1896 | 2013 | 1571 | 1598 | 1861 | 1913 |
| C11 | 11.2 | PGA | 192 | * | * | * | 210 | * | * | * | 185 | * | * | * |
| | | PGB | 601 | 582 | 674 | 675 | 665 | 638 | 738 | 733 | 632 | 569 | 648 | 600 |
| | | PGC | 789 | 794 | 908 | 940 | 890 | 893 | 1019 | 1051 | 918 | 898 | 1015 | 1021 |
| | | PGD | 1319 | 1393 | 1642 | 1775 | 1482 | 1561 | 1838 | 1980 | 1485 | 1535 | 1796 | 1886 |
| C13 | 12.5 | PGA | 192 | 142 | * | * | 214 | * | * | * | 200 | * | * | * |
| | | PGB | 572 | 567 | 660 | 677 | 648 | 638 | 742 | 756 | 637 | 596 | 685 | 662 |
| | | PGC | 725 | 737 | 845 | 884 | 837 | 849 | 972 | 1014 | 902 | 894 | 1018 | 1038 |
| | | PGD | 1212 | 1289 | 1523 | 1662 | 1401 | 1487 | 1755 | 1910 | 1459 | 1524 | 1790 | 1908 |
| C14 | 14 | PGA | 191 | 152 | * | * | 226 | 176 | * | * | 204 | * | * | * |
| | | PGB | 547 | 553 | 647 | 676 | 659 | 663 | 774 | 805 | 614 | 593 | 686 | 686 |
| | | PGC | 672 | 690 | 793 | 836 | 830 | 850 | 976 | 1027 | 839 | 844 | 964 | 997 |
| | | PGD | 1131 | 1211 | 1434 | 1578 | 1392 | 1489 | 1761 | 1933 | 1365 | 1440 | 1697 | 1832 |
| C16 | 16 | PGA | 180 | 150 | 136 | * | 224 | 184 | 164 | * | 214 | 157 | * | * |
| | | PGB | 501 | 514 | 603 | 639 | 626 | 640 | 751 | 792 | 617 | 610 | 710 | 727 |
| | | PGC | 595 | 615 | 710 | 753 | 758 | 782 | 900 | 954 | 822 | 834 | 957 | 999 |
| | | PGD | 1007 | 1085 | 1286 | 1424 | 1276 | 1372 | 1626 | 1797 | 1341 | 1426 | 1684 | 1836 |
| C18 | 18 | PGA | 186 | 162 | 154 | * | 220 | 190 | 178 | * | 211 | 167 | 145 | * |
| | | PGB | 506 | 528 | 621 | 667 | 598 | 621 | 731 | 782 | 583 | 590 | 690 | 722 |
| | | PGC | 598 | 622 | 719 | 768 | 705 | 732 | 846 | 902 | 758 | 778 | 895 | 944 |
| | | PGD | 1009 | 1093 | 1297 | 1446 | 1186 | 1286 | 1526 | 1698 | 1244 | 1333 | 1578 | 1736 |
| C20 | 20 | PGA | | | | | 203 | 179 | 172 | 133 | | | | |
| | | PGB | | | | | 543 | 569 | 670 | 722 | | | | |
| | | PGC | | | | | 624 | 651 | 753 | 806 | | | | |
| | | PGD | | | | | 1056 | 1145 | 1360 | 1519 | | | | |

*On request.

| H216 | | | | H217 | | | | H218 | | | | iN | Code | |
|------|------|------|------|------|------|------|------|------|------|------|------|-----|------|-----|
| 960 | 1150 | 1450 | 1740 | 960 | 1150 | 1450 | 1740 | 960 | 1150 | 1450 | 1740 | | | |
| * | * | * | * | | | | | | | | | PGA | 3.15 | B32 |
| 764 | * | * | * | | | | | | | | | PGB | | |
| 1768 | 1245 | 1375 | 1104 | | | | | | | | | PGC | | |
| 2215 | 1724 | 1951 | 1715 | | | | | | | | | PGD | | |
| * | * | * | * | | | | | * | * | * | * | PGA | 3.55 | B36 |
| 707 | * | * | * | | | | | 947 | * | * | * | PGB | | |
| 1738 | 1281 | 1436 | 1189 | | | | | 1994 | 1502 | 1528 | 1582 | PGC | | |
| 2172 | 1754 | 2068 | 1808 | | | | | 2629 | 2145 | 2280 | 2479 | PGD | | |
| * | * | * | * | | | | | * | * | * | * | PGA | 4 | B40 |
| 744 | * | * | * | | | | | 996 | * | * | * | PGB | | |
| 1688 | 1289 | 1465 | 1282 | | | | | 1933 | 1517 | 1567 | 1711 | PGC | | |
| 2126 | 1765 | 2101 | 1933 | | | | | 2572 | 2163 | 2325 | 2660 | PGD | | |
| * | * | * | * | | | | | * | * | * | * | PGA | 4.5 | B45 |
| 736 | * | * | * | | | | | 1016 | * | * | * | PGB | | |
| 1639 | 1316 | 1525 | 1426 | | | | | 1864 | 1503 | 1568 | 1770 | PGC | | |
| 2083 | 1796 | 2167 | 2123 | | | | | 2484 | 2134 | 2309 | 2726 | PGD | | |
| * | * | * | * | | | | | * | * | * | * | PGA | 5 | B50 |
| 702 | * | * | * | | | | | 1013 | * | * | * | PGB | | |
| 1564 | 1297 | 1521 | 1480 | | | | | 1764 | 1451 | 1525 | 1758 | PGC | | |
| 2009 | 1776 | 2160 | 2199 | | | | | 2358 | 2057 | 2237 | 2696 | PGD | | |
| * | * | * | * | * | * | * | * | * | * | * | * | PGA | 5.6 | B56 |
| 703 | * | * | * | 844 | * | * | * | 1032 | * | * | * | PGB | | |
| 1484 | 1260 | 1489 | 1485 | 1603 | 1361 | 1609 | 1604 | 1717 | 1438 | 1520 | 1785 | PGC | | |
| 1913 | 1720 | 2104 | 2193 | 2066 | 1857 | 2273 | 2369 | 2305 | 2038 | 2225 | 2730 | PGD | | |
| * | * | * | * | * | * | * | * | * | * | * | * | PGA | 6.3 | B63 |
| 553 | * | * | * | 625 | * | * | * | 633 | * | * | * | PGB | | |
| 1178 | 949 | 1000 | 803 | 1389 | 1088 | 1128 | 816 | 1381 | 1062 | 1106 | 642 | PGC | | |
| 1846 | 1642 | 1774 | 1559 | 2240 | 1954 | 2151 | 1661 | 2248 | 1940 | 1823 | 1568 | PGD | | |
| * | * | * | * | * | * | * | * | * | * | * | * | PGA | 7.1 | B71 |
| 589 | * | * | * | 683 | * | * | * | 659 | * | * | * | PGB | | |
| 1158 | 976 | 1044 | 865 | 1351 | 1104 | 1166 | 918 | 1390 | 1106 | 1154 | 864 | PGC | | |
| 1810 | 1670 | 1880 | 1644 | 2186 | 1971 | 2199 | 1832 | 2260 | 1997 | 2009 | 1759 | PGD | | |
| * | * | * | * | * | * | * | * | * | * | * | * | PGA | 8 | B80 |
| 620 | 386 | 390 | * | 733 | * | * | * | 719 | * | * | * | PGB | | |
| 1126 | 982 | 1066 | 932 | 1319 | 1122 | 1206 | 1015 | 1354 | 1127 | 1200 | 975 | PGC | | |
| 1772 | 1681 | 1910 | 1757 | 2154 | 2003 | 2261 | 2006 | 2203 | 2015 | 2260 | 1941 | PGD | | |
| * | * | * | * | * | * | * | * | * | * | * | * | PGA | 9 | B90 |
| 655 | 490 | 530 | 363 | 786 | 552 | 584 | * | 789 | 523 | 542 | * | PGB | | |
| 1093 | 1002 | 1109 | 1037 | 1289 | 1160 | 1274 | 1164 | 1330 | 1178 | 1286 | 1150 | PGC | | |
| 1736 | 1710 | 1970 | 1930 | 2120 | 2059 | 2360 | 2262 | 2191 | 2103 | 2400 | 2254 | PGD | | |
| 168 | * | * | * | * | * | * | * | * | * | * | * | PGA | 10 | C10 |
| 668 | 554 | 617 | 510 | 812 | 645 | 710 | 547 | 830 | 635 | 691 | 495 | PGB | | |
| 1042 | 988 | 1106 | 1076 | 1267 | 1157 | 1289 | 1233 | 1289 | 1190 | 1319 | 1244 | PGC | | |
| 1674 | 1691 | 1964 | 1999 | 2053 | 2051 | 2374 | 2387 | 2143 | 2121 | 2447 | 2418 | PGD | | |
| 189 | * | * | * | 195 | * | * | * | 190 | * | * | * | PGA | 11.2 | C11 |
| 669 | 591 | 669 | 604 | 815 | 698 | 784 | 679 | 847 | 705 | 787 | 655 | PGB | | |
| 990 | 960 | 1083 | 1080 | 1174 | 1126 | 1266 | 1246 | 1242 | 1179 | 1321 | 1287 | PGC | | |
| 1594 | 1638 | 1913 | 1994 | 1958 | 1994 | 2323 | 2393 | 2070 | 2092 | 2431 | 2478 | PGD | | |
| 200 | * | * | * | 221 | * | * | * | 213 | * | * | * | PGA | 12.5 | C13 |
| 656 | 604 | 691 | 656 | 833 | 748 | 851 | 786 | 844 | 742 | 840 | 754 | PGB | | |
| 931 | 918 | 1042 | 1057 | 1144 | 1117 | 1263 | 1268 | 1176 | 1138 | 1284 | 1278 | PGC | | |
| 1506 | 1566 | 1836 | 1945 | 1914 | 1976 | 2311 | 2426 | 1965 | 2017 | 2355 | 2451 | PGD | | |
| 214 | * | * | * | 233 | * | * | * | 239 | * | * | * | PGA | 14 | C14 |
| 659 | 629 | 726 | 717 | 814 | 761 | 875 | 846 | 860 | 792 | 906 | 861 | PGB | | |
| 910 | 910 | 1038 | 1069 | 1071 | 1062 | 1209 | 1234 | 1145 | 1128 | 1280 | 1298 | PGC | | |
| 1482 | 1557 | 1832 | 1969 | 1802 | 1883 | 2211 | 2358 | 1921 | 1998 | 2342 | 2482 | PGD | | |
| 216 | * | * | * | 238 | * | * | * | 248 | * | * | * | PGA | 16 | C16 |
| 634 | 620 | 721 | 731 | 782 | 754 | 873 | 872 | 837 | 797 | 919 | 905 | PGB | | |
| 847 | 857 | 981 | 1020 | 996 | 1001 | 1143 | 1182 | 1073 | 1073 | 1222 | 1257 | PGC | | |
| 1381 | 1463 | 1726 | 1875 | 1680 | 1772 | 2088 | 2253 | 1810 | 1901 | 2236 | 2401 | PGD | | |
| 228 | 176 | * | * | 248 | 184 | * | * | 169 | * | * | * | PGA | 18 | C18 |
| 638 | 640 | 748 | 777 | 768 | 762 | 888 | 912 | 805 | 790 | 919 | 934 | PGB | | |
| 830 | 849 | 975 | 1026 | 951 | 968 | 1110 | 1161 | 994 | 1008 | 1154 | 1202 | PGC | | |
| 1359 | 1453 | 1718 | 1885 | 1606 | 1710 | 2020 | 2206 | 1689 | 1792 | 2114 | 2299 | PGD | | |
| | | | | | | | | 258 | 196 | * | * | PGA | 20 | C20 |
| | | | | | | | | 787 | 785 | 915 | 944 | PGB | | |
| | | | | | | | | 945 | 963 | 1106 | 1159 | PGC | | |
| | | | | | | | | 1602 | 1708 | 2019 | 2209 | PGD | | |

*On request.

H3 (kW)

| Code | iN | | H313 | | | | H314 | | | | H315 | | | |
|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | 960 | 1150 | 1450 | 1740 | 960 | 1150 | 1450 | 1740 | 960 | 1150 | 1450 | 1740 |
| C14 | 14 | PGA | | | | | | | | | | | | |
| | | PGB | | | | | | | | | | | | |
| | | PGC | | | | | | | | | | | | |
| | | PGD | | | | | | | | | | | | |
| C16 | 16 | PGA | 218 | 185 | 188 | 120 | 235 | 212 | 183 | * | 264 | 201 | 185 | * |
| | | PGB | 337 | 352 | 385 | 350 | 374 | 339 | 396 | 371 | 465 | 421 | 470 | 420 |
| | | PGC | 500 | 539 | 595 | 629 | 570 | 588 | 680 | 721 | 801 | 846 | 945 | 962 |
| | | PGD | 724 | 806 | 903 | 975 | 835 | 874 | 996 | 1082 | 1163 | 1174 | 1368 | 1402 |
| C18 | 18 | PGA | 210 | 185 | 181 | 128 | 230 | 209 | 185 | * | 263 | 205 | 187 | * |
| | | PGB | 324 | 336 | 370 | 354 | 366 | 337 | 394 | 374 | 452 | 411 | 467 | 427 |
| | | PGC | 480 | 506 | 572 | 602 | 556 | 569 | 659 | 702 | 770 | 810 | 908 | 957 |
| | | PGD | 696 | 743 | 868 | 926 | 803 | 843 | 971 | 1058 | 1128 | 1158 | 1325 | 1393 |
| C20 | 20 | PGA | 198 | 173 | 171 | 137 | 228 | 206 | 186 | 137 | 260 | 208 | 192 | * |
| | | PGB | 306 | 310 | 349 | 360 | 358 | 335 | 391 | 376 | 443 | 403 | 452 | 438 |
| | | PGC | 453 | 486 | 540 | 581 | 531 | 554 | 633 | 674 | 748 | 774 | 880 | 914 |
| | | PGD | 657 | 721 | 819 | 903 | 775 | 812 | 945 | 1024 | 1096 | 1103 | 1293 | 1362 |
| C22 | 22.4 | PGA | 196 | 173 | 169 | 141 | 224 | 204 | 188 | 146 | 258 | 209 | 193 | * |
| | | PGB | 303 | 295 | 346 | 352 | 346 | 328 | 385 | 380 | 432 | 393 | 463 | 446 |
| | | PGC | 449 | 464 | 534 | 570 | 506 | 532 | 612 | 654 | 722 | 730 | 840 | 882 |
| | | PGD | 650 | 681 | 811 | 881 | 741 | 779 | 908 | 998 | 1043 | 1059 | 1267 | 1350 |
| C25 | 25 | PGA | 191 | 170 | 137 | 140 | 219 | 203 | 190 | 155 | 253 | 207 | 192 | * |
| | | PGB | 294 | 288 | 338 | 345 | 337 | 326 | 382 | 387 | 420 | 385 | 456 | 439 |
| | | PGC | 426 | 442 | 509 | 543 | 485 | 506 | 586 | 627 | 680 | 690 | 794 | 834 |
| | | PGD | 617 | 647 | 771 | 839 | 709 | 748 | 884 | 962 | 986 | 1004 | 1201 | 1282 |
| C28 | 28 | PGA | 186 | 170 | 169 | 148 | 214 | 193 | 191 | 165 | 254 | 216 | 206 | * |
| | | PGB | 286 | 285 | 334 | 346 | 327 | 324 | 380 | 392 | 417 | 394 | 463 | 460 |
| | | PGC | 400 | 417 | 480 | 515 | 469 | 487 | 561 | 601 | 656 | 671 | 773 | 818 |
| | | PGD | 583 | 617 | 734 | 803 | 680 | 718 | 854 | 932 | 957 | 987 | 1179 | 1269 |
| C32 | 31.5 | PGA | 184 | 171 | 173 | 157 | 211 | 194 | 196 | 176 | 252 | 222 | 217 | 179 |
| | | PGB | 279 | 283 | 332 | 348 | 319 | 322 | 377 | 394 | 411 | 399 | 468 | 475 |
| | | PGC | 384 | 402 | 464 | 500 | 445 | 465 | 536 | 577 | 626 | 646 | 744 | 794 |
| | | PGD | 560 | 598 | 710 | 781 | 647 | 690 | 819 | 900 | 917 | 959 | 1143 | 1240 |
| C36 | 35.5 | PGA | 180 | 171 | 175 | 164 | 206 | 194 | 198 | 184 | 244 | 222 | 222 | 194 |
| | | PGB | 271 | 280 | 328 | 348 | 311 | 320 | 374 | 369 | 395 | 393 | 461 | 477 |
| | | PGC | 365 | 385 | 444 | 481 | 418 | 440 | 507 | 549 | 580 | 604 | 696 | 746 |
| | | PGD | 534 | 576 | 683 | 755 | 612 | 658 | 781 | 862 | 854 | 905 | 1075 | 1176 |
| C40 | 40 | PGA | 174 | 167 | 172 | 164 | 201 | 192 | 197 | 186 | 237 | 219 | 221 | 199 |
| | | PGB | 261 | 272 | 318 | 339 | 302 | 313 | 366 | 390 | 380 | 383 | 449 | 469 |
| | | PGC | 345 | 364 | 420 | 456 | 399 | 422 | 486 | 527 | 546 | 571 | 658 | 710 |
| | | PGD | 506 | 547 | 649 | 719 | 586 | 633 | 750 | 831 | 809 | 862 | 1024 | 1124 |
| C45 | 45 | PGA | 167 | 161 | 166 | 159 | 194 | 186 | 192 | 183 | 237 | 220 | 223 | 203 |
| | | PGB | 250 | 261 | 306 | 327 | 291 | 303 | 355 | 379 | 378 | 384 | 450 | 472 |
| | | PGC | 324 | 343 | 396 | 430 | 380 | 402 | 463 | 502 | 535 | 561 | 647 | 698 |
| | | PGD | 475 | 516 | 611 | 678 | 557 | 603 | 714 | 792 | 793 | 847 | 1006 | 1107 |
| C50 | 50 | PGA | 166 | 164 | 171 | 170 | 190 | 187 | 195 | 193 | 241 | 232 | 240 | 231 |
| | | PGB | 245 | 262 | 306 | 332 | 283 | 301 | 352 | 381 | 378 | 395 | 462 | 495 |
| | | PGC | 315 | 337 | 388 | 424 | 358 | 382 | 441 | 481 | 530 | 561 | 647 | 703 |
| | | PGD | 465 | 510 | 603 | 673 | 529 | 580 | 686 | 766 | 785 | 852 | 1009 | 1120 |
| C56 | 56 | PGA | 161 | 161 | 170 | 171 | 183 | 183 | 192 | 194 | 232 | 228 | 239 | 236 |
| | | PGB | 238 | 257 | 300 | 329 | 271 | 292 | 341 | 373 | 361 | 384 | 449 | 487 |
| | | PGC | 298 | 320 | 369 | 404 | 337 | 361 | 417 | 456 | 494 | 526 | 607 | 663 |
| | | PGD | 441 | 486 | 574 | 644 | 499 | 550 | 650 | 728 | 735 | 805 | 952 | 1063 |
| C63 | 63 | PGA | 154 | 156 | 166 | 170 | 180 | 182 | 194 | 198 | 222 | 222 | 235 | 238 |
| | | PGB | 226 | 247 | 288 | 317 | 265 | 289 | 338 | 372 | 343 | 371 | 434 | 475 |
| | | PGC | 278 | 299 | 346 | 379 | 328 | 353 | 408 | 448 | 456 | 489 | 565 | 619 |
| | | PGD | 411 | 456 | 538 | 606 | 486 | 540 | 637 | 716 | 681 | 753 | 889 | 998 |
| C71 | 71 | PGA | 150 | 152 | 162 | 166 | 174 | 177 | 188 | 193 | 216 | 217 | 230 | 234 |
| | | PGB | 219 | 239 | 279 | 308 | 255 | 279 | 325 | 359 | 333 | 361 | 422 | 463 |
| | | PGC | 265 | 286 | 330 | 362 | 311 | 335 | 387 | 426 | 438 | 471 | 544 | 597 |
| | | PGD | 393 | 436 | 515 | 580 | 461 | 512 | 605 | 681 | 655 | 725 | 857 | 962 |
| C80 | 80 | PGA | 145 | 148 | 158 | 162 | 165 | 167 | 178 | 183 | 208 | 210 | 223 | 228 |
| | | PGB | 213 | 233 | 272 | 300 | 241 | 264 | 308 | 340 | 320 | 348 | 406 | 447 |
| | | PGC | 255 | 275 | 318 | 350 | 289 | 311 | 359 | 395 | 414 | 445 | 514 | 564 |
| | | PGD | 378 | 420 | 496 | 559 | 429 | 478 | 564 | 635 | 620 | 688 | 812 | 912 |
| C90 | 90 | PGA | 136 | 138 | 148 | 152 | 160 | 163 | 173 | 179 | 196 | 199 | 211 | 217 |
| | | PGB | 199 | 218 | 255 | 282 | 233 | 256 | 298 | 330 | 301 | 328 | 383 | 422 |
| | | PGC | 234 | 253 | 292 | 331 | 276 | 298 | 344 | 378 | 383 | 412 | 476 | 523 |
| | | PGD | 348 | 388 | 458 | 516 | 409 | 455 | 537 | 605 | 573 | 637 | 752 | 846 |
| D10 | 100 | PGA | 128 | 131 | 140 | 143 | 156 | 160 | 171 | 178 | 188 | 190 | 202 | 208 |
| | | PGB | 193 | 210 | 248 | 276 | 227 | 251 | 293 | 325 | 290 | 318 | 374 | 401 |
| | | PGC | 212 | 246 | 286 | 304 | 266 | 287 | 332 | 366 | 368 | 380 | 436 | 482 |
| | | PGD | 327 | 367 | 436 | 462 | 394 | 441 | 520 | 587 | 543 | 600 | 702 | 806 |
| D11 | 112 | PGA | | | | | | | | | 176 | 188 | 191 | 197 |
| | | PGB | | | | | | | | | 281 | 309 | 360 | 390 |
| | | PGC | | | | | | | | | 348 | 352 | 402 | 439 |
| | | PGD | | | | | | | | | 512 | 561 | 653 | 749 |

*On request.

| H316 | | | | H317 | | | | H318 | | | | iN | Code | |
|------|------|------|------|------|------|------|------|------|------|------|------|-----|------|-----|
| 960 | 1150 | 1450 | 1740 | 960 | 1150 | 1450 | 1740 | 960 | 1150 | 1450 | 1740 | | | |
| | | | | 278 | 220 | * | * | | | | | PGA | 14 | C14 |
| | | | | 463 | 407 | 479 | 435 | | | | | PGB | | |
| | | | | 874 | 883 | 949 | 986 | | | | | PGC | | |
| | | | | 1223 | 1231 | 1402 | 1423 | | | | | PGD | | |
| 271 | 201 | 176 | * | 276 | 218 | * | * | 271 | 170 | * | * | PGA | 16 | C16 |
| 462 | 376 | 439 | 389 | 459 | 396 | 471 | 433 | 486 | 348 | 419 | 308 | PGB | | |
| 821 | 827 | 929 | 999 | 838 | 840 | 907 | 958 | 797 | 850 | 902 | 930 | PGC | | |
| 1221 | 1163 | 1392 | 1457 | 1174 | 1185 | 1362 | 1372 | 1179 | 1165 | 1354 | 1360 | PGD | | |
| 270 | 204 | 178 | * | 273 | 215 | * | * | 274 | 179 | * | * | PGA | 18 | C18 |
| 459 | 381 | 443 | 401 | 456 | 390 | 460 | 426 | 481 | 354 | 426 | 335 | PGB | | |
| 793 | 791 | 902 | 972 | 797 | 802 | 886 | 930 | 776 | 819 | 880 | 909 | PGC | | |
| 1189 | 1140 | 1365 | 1426 | 1123 | 1136 | 1306 | 1310 | 1136 | 1126 | 1314 | 1331 | PGD | | |
| 269 | 208 | 181 | * | 271 | 207 | * | * | 275 | 188 | * | * | PGA | 20 | C20 |
| 456 | 385 | 455 | 412 | 450 | 387 | 458 | 420 | 470 | 362 | 432 | 362 | PGB | | |
| 767 | 778 | 877 | 942 | 757 | 762 | 855 | 887 | 766 | 786 | 860 | 890 | PGC | | |
| 1148 | 1119 | 1325 | 1402 | 1058 | 1063 | 1250 | 1263 | 1106 | 1085 | 1296 | 1315 | PGD | | |
| 268 | 210 | 183 | * | 270 | 206 | 180 | * | 280 | 197 | * | * | PGA | 22.4 | C22 |
| 451 | 390 | 461 | 429 | 440 | 382 | 450 | 416 | 460 | 377 | 440 | 390 | PGB | | |
| 746 | 756 | 864 | 914 | 722 | 721 | 828 | 861 | 748 | 752 | 847 | 870 | PGC | | |
| 1096 | 1098 | 1296 | 1385 | 1029 | 1023 | 1228 | 1290 | 1077 | 1040 | 1257 | 1296 | PGD | | |
| 265 | 212 | 193 | * | 263 | 203 | 180 | * | 276 | 207 | * | * | PGA | 25 | C25 |
| 443 | 399 | 470 | 448 | 427 | 375 | 442 | 411 | 451 | 386 | 455 | 414 | PGB | | |
| 730 | 737 | 847 | 888 | 681 | 682 | 783 | 816 | 725 | 720 | 828 | 858 | PGC | | |
| 1055 | 1066 | 1277 | 1356 | 972 | 970 | 1164 | 1226 | 1033 | 1021 | 1227 | 1285 | PGD | | |
| 264 | 221 | 207 | * | 265 | 215 | 198 | * | 274 | 217 | 196 | * | PGA | 28 | C28 |
| 434 | 404 | 475 | 466 | 425 | 387 | 455 | 439 | 441 | 394 | 464 | 439 | PGB | | |
| 688 | 700 | 806 | 851 | 655 | 662 | 762 | 801 | 683 | 687 | 790 | 826 | PGC | | |
| 999 | 1024 | 1224 | 1312 | 942 | 956 | 1145 | 1219 | 981 | 987 | 1182 | 1252 | PGD | | |
| 265 | 230 | 222 | 178 | 263 | 223 | 212 | * | 276 | 230 | 216 | * | PGA | 31.5 | C32 |
| 432 | 415 | 487 | 490 | 418 | 394 | 463 | 459 | 440 | 408 | 480 | 470 | PGB | | |
| 663 | 682 | 785 | 834 | 628 | 642 | 739 | 782 | 661 | 672 | 774 | 816 | PGC | | |
| 969 | 1008 | 1202 | 1300 | 906 | 935 | 1116 | 1200 | 952 | 975 | 1165 | 1248 | PGD | | |
| 264 | 237 | 235 | 201 | 255 | 226 | 221 | 184 | 274 | 239 | 232 | 187 | PGA | 35.5 | C36 |
| 425 | 420 | 493 | 507 | 401 | 391 | 459 | 467 | 433 | 417 | 489 | 493 | PGB | | |
| 634 | 658 | 758 | 812 | 580 | 599 | 690 | 736 | 631 | 650 | 748 | 796 | PGC | | |
| 934 | 984 | 1171 | 1278 | 844 | 884 | 1052 | 1144 | 916 | 954 | 1137 | 1231 | PGD | | |
| 253 | 231 | 232 | 205 | 247 | 223 | 221 | 190 | 264 | 235 | 231 | 194 | PGA | 40 | C40 |
| 406 | 406 | 476 | 495 | 387 | 383 | 449 | 462 | 412 | 404 | 474 | 484 | PGB | | |
| 587 | 612 | 706 | 758 | 548 | 570 | 656 | 702 | 584 | 605 | 697 | 744 | PGC | | |
| 867 | 921 | 1094 | 1199 | 799 | 843 | 1003 | 1095 | 853 | 895 | 1066 | 1160 | PGD | | |
| 245 | 226 | 227 | 204 | 246 | 224 | 224 | 196 | 254 | 229 | 227 | 194 | PGA | 45 | C45 |
| 390 | 393 | 460 | 481 | 383 | 382 | 448 | 464 | 397 | 392 | 460 | 473 | PGB | | |
| 554 | 579 | 668 | 718 | 536 | 558 | 643 | 690 | 551 | 572 | 658 | 706 | PGC | | |
| 817 | 871 | 1034 | 1135 | 782 | 828 | 985 | 1077 | 804 | 848 | 1009 | 1101 | PGD | | |
| 149 | 239 | 246 | 234 | 248 | 236 | 242 | 228 | 259 | 245 | 250 | 233 | PGA | 50 | C50 |
| 393 | 410 | 479 | 512 | 381 | 394 | 462 | 491 | 399 | 410 | 480 | 508 | PGB | | |
| 542 | 574 | 662 | 718 | 524 | 553 | 638 | 691 | 537 | 566 | 652 | 705 | PGC | | |
| 805 | 872 | 1033 | 1146 | 771 | 832 | 987 | 1092 | 793 | 853 | 1012 | 1117 | PGD | | |
| 250 | 245 | 256 | 252 | 240 | 234 | 243 | 237 | 258 | 250 | 260 | 252 | PGA | 56 | C56 |
| 390 | 414 | 484 | 523 | 367 | 387 | 453 | 488 | 394 | 414 | 485 | 521 | PGB | | |
| 535 | 570 | 658 | 718 | 491 | 522 | 602 | 656 | 528 | 560 | 646 | 703 | PGC | | |
| 795 | 869 | 1028 | 1147 | 723 | 789 | 934 | 1040 | 777 | 846 | 1001 | 1114 | PGD | | |
| 242 | 242 | 255 | 258 | 230 | 229 | 241 | 243 | 250 | 249 | 262 | 262 | PGA | 63 | C63 |
| 375 | 405 | 473 | 517 | 349 | 375 | 439 | 479 | 378 | 406 | 474 | 517 | PGB | | |
| 498 | 534 | 616 | 675 | 454 | 486 | 560 | 614 | 493 | 527 | 608 | 666 | PGC | | |
| 746 | 824 | 973 | 1091 | 672 | 741 | 876 | 981 | 730 | 804 | 950 | 1064 | PGD | | |
| 229 | 230 | 243 | 247 | 221 | 222 | 234 | 237 | 237 | 236 | 249 | 251 | PGA | 71 | C71 |
| 353 | 382 | 447 | 490 | 334 | 361 | 422 | 462 | 357 | 385 | 450 | 492 | PGB | | |
| 462 | 496 | 572 | 628 | 434 | 465 | 537 | 588 | 457 | 489 | 565 | 618 | PGC | | |
| 690 | 764 | 902 | 1012 | 644 | 712 | 841 | 943 | 676 | 746 | 881 | 987 | PGD | | |
| 222 | 224 | 237 | 242 | 213 | 214 | 227 | 230 | 228 | 228 | 241 | 244 | PGA | 80 | C80 |
| 342 | 371 | 434 | 476 | 321 | 348 | 406 | 446 | 343 | 371 | 433 | 475 | PGB | | |
| 444 | 477 | 550 | 605 | 410 | 440 | 508 | 557 | 437 | 469 | 541 | 594 | PGC | | |
| 663 | 735 | 868 | 975 | 608 | 673 | 795 | 892 | 648 | 716 | 846 | 949 | PGD | | |
| 215 | 217 | 234 | 236 | 201 | 203 | 215 | 219 | 219 | 220 | 233 | 237 | PGA | 90 | C90 |
| 328 | 358 | 418 | 460 | 302 | 329 | 384 | 422 | 329 | 357 | 417 | 458 | PGB | | |
| 419 | 450 | 521 | 572 | 379 | 407 | 470 | 516 | 413 | 444 | 512 | 562 | PGC | | |
| 628 | 697 | 823 | 925 | 564 | 625 | 738 | 829 | 614 | 680 | 803 | 902 | PGD | | |
| 203 | 207 | 221 | 229 | 192 | 194 | 205 | 210 | 208 | 212 | 226 | 233 | PGA | 100 | D10 |
| 310 | 340 | 397 | 440 | 293 | 309 | 375 | 400 | 310 | 340 | 397 | 439 | PGB | | |
| 387 | 418 | 483 | 532 | 360 | 378 | 443 | 481 | 382 | 412 | 476 | 524 | PGC | | |
| 581 | 648 | 764 | 862 | 524 | 584 | 688 | 759 | 569 | 634 | 748 | 843 | PGD | | |
| 192 | 197 | 211 | 218 | | | | | 197 | 202 | 215 | 228 | PGA | 112 | D11 |
| 297 | 332 | 385 | 412 | | | | | 296 | 330 | 378 | 419 | PGB | | |
| 378 | 402 | 454 | 492 | | | | | 367 | 380 | 452 | 490 | PGC | | |
| 542 | 608 | 664 | 793 | | | | | 539 | 600 | 699 | 798 | PGD | | |

*On request.

H4 (kW)

| Code | iN | | H413 | | | | H414 | | | | H415 | | | |
|------|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | 960 | 1150 | 1450 | 1740 | 960 | 1150 | 1450 | 1740 | 960 | 1150 | 1450 | 1740 |
| C63 | 63 | PGA | | | | | | | | | | | | |
| C71 | 71 | PGA | 130 | 133 | 136 | 144 | 147 | 151 | 162 | 173 | 180 | 187 | 196 | 199 |
| C80 | 80 | PGA | 127 | 130 | 134 | 141 | 143 | 148 | 158 | 169 | 174 | 180 | 191 | 193 |
| C90 | 90 | PGA | 123 | 126 | 133 | 138 | 139 | 144 | 154 | 162 | 168 | 175 | 183 | 187 |
| D10 | 100 | PGA | 120 | 121 | 130 | 134 | 136 | 141 | 149 | 158 | 161 | 160 | 172 | 174 |
| D11 | 112 | PGA | 117 | 120 | 129 | 133 | 132 | 136 | 146 | 153 | 154 | 156 | 167 | 141 |
| D13 | 125 | PGA | 114 | 117 | 126 | 131 | 128 | 132 | 142 | 147 | 149 | 152 | 163 | 168 |
| D14 | 140 | PGA | 110 | 114 | 123 | 128 | 125 | 129 | 139 | 145 | 144 | 148 | 158 | 165 |
| D16 | 160 | PGA | 104 | 108 | 116 | 122 | 121 | 126 | 135 | 142 | 138 | 143 | 153 | 160 |
| D18 | 180 | PGA | 100 | 105 | 113 | 119 | 118 | 123 | 132 | 139 | 136 | 142 | 152 | 160 |
| D20 | 200 | PGA | 98.2 | 103 | 110 | 116 | 111 | 117 | 126 | 133 | 132 | 139 | 149 | 157 |
| D22 | 224 | PGA | 93.7 | 98.8 | 106 | 112 | 107 | 113 | 121 | 128 | 123 | 130 | 140 | 148 |
| D25 | 250 | PGA | 89.1 | 94 | 100 | 106 | 104 | 110 | 118 | 125 | 117 | 123 | 132 | 140 |
| D28 | 280 | PGA | 86.3 | 91.1 | 97.7 | 103 | 99.1 | 104 | 112 | 118 | 113 | 120 | 128 | 136 |
| D32 | 315 | PGA | 82.8 | 87.3 | 93.7 | 99.1 | 95.5 | 100 | 108 | 114 | 108 | 114 | 122 | 129 |
| D36 | 355 | PGA | 78.9 | 83.3 | 89.4 | 94.6 | 91.9 | 96.9 | 104 | 110 | 106 | 112 | 120 | 127 |
| D40 | 400 | PGA | 75.6 | 80.9 | 86 | 90.1 | 88.3 | 93.2 | 100 | 105 | 103 | 104 | 116 | 123 |
| D45 | 450 | PGA | 72.9 | 78.8 | 82.3 | 88.2 | 84.2 | 88.8 | 95.3 | 100 | 97.7 | 102 | 111 | 117 |

| Code | iN | | H416 | | | | H417 | | | | H418 | | | |
|------|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | 960 | 1150 | 1450 | 1740 | 960 | 1150 | 1450 | 1740 | 960 | 1150 | 1450 | 1740 |
| C63 | 63 | PGA | | | | | 206 | 210 | 215 | 218 | | | | |
| C71 | 71 | PGA | 193 | 200 | 210 | 215 | 199 | 203 | 210 | 213 | 211 | 214 | 225 | 228 |
| C80 | 80 | PGA | 187 | 193 | 204 | 206 | 193 | 195 | 202 | 205 | 206 | 210 | 221 | 223 |
| C90 | 90 | PGA | 180 | 187 | 196 | 203 | 185 | 190 | 195 | 197 | 199 | 204 | 213 | 215 |
| D10 | 100 | PGA | 171 | 175 | 186 | 192 | 180 | 178 | 190 | 191 | 191 | 193 | 205 | 209 |
| D11 | 112 | PGA | 166 | 167 | 179 | 183 | 173 | 173 | 186 | 189 | 185 | 185 | 198 | 201 |
| D13 | 125 | PGA | 160 | 162 | 174 | 179 | 167 | 169 | 181 | 186 | 177 | 179 | 192 | 197 |
| D14 | 140 | PGA | 153 | 158 | 169 | 175 | 161 | 164 | 176 | 183 | 171 | 175 | 188 | 194 |
| D16 | 160 | PGA | 148 | 153 | 164 | 171 | 154 | 159 | 171 | 178 | 165 | 170 | 182 | 190 |
| D18 | 180 | PGA | 142 | 148 | 159 | 167 | 151 | 157 | 169 | 177 | 158 | 165 | 177 | 185 |
| D20 | 200 | PGA | 139 | 146 | 157 | 165 | 146 | 153 | 164 | 173 | 156 | 163 | 175 | 184 |
| D22 | 224 | PGA | 136 | 144 | 154 | 163 | 136 | 144 | 154 | 163 | 151 | 159 | 170 | 180 |
| D25 | 250 | PGA | 126 | 133 | 143 | 151 | 130 | 137 | 147 | 155 | 141 | 148 | 159 | 168 |
| D28 | 280 | PGA | 120 | 126 | 135 | 143 | 126 | 133 | 143 | 151 | 133 | 141 | 151 | 160 |
| D32 | 315 | PGA | 116 | 122 | 131 | 139 | 121 | 127 | 136 | 144 | 130 | 137 | 147 | 155 |
| D36 | 355 | PGA | 111 | 118 | 126 | 134 | 118 | 124 | 133 | 141 | 124 | 131 | 141 | 149 |
| D40 | 400 | PGA | 109 | 115 | 123 | 130 | 115 | 120 | 129 | 136 | 121 | 128 | 138 | 146 |
| D45 | 450 | PGA | 102 | 109 | 116 | 123 | | | | | 116 | 125 | 130 | 139 |

B2 (kW)

| Code | iN | | B213 | | | | B214 | | | | B215 | | | |
|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | 960 | 1150 | 1450 | 1740 | 960 | 1150 | 1450 | 1740 | 960 | 1150 | 1450 | 1740 |
| B63 | 6.3 | PGA | * | * | * | * | * | * | * | * | * | * | * | * |
| | | PGB | 906 | 996 | 1036 | 1028 | 1129 | 1241 | 1290 | 1274 | 1302 | 1422 | 1478 | 1406 |
| | | PGC | 1132 | 1245 | 1295 | 1285 | 1411 | 1551 | 1613 | 1592 | 1627 | 1778 | 1847 | 1758 |
| | | PGD | 1574 | 1740 | 1839 | 1894 | 1954 | 2150 | 2267 | 2322 | 2168 | 2311 | 2393 | 2342 |
| B71 | 7.1 | PGA | 128 | * | * | * | 150 | * | * | * | * | * | * | * |
| | | PGB | 637 | 683 | 676 | 616 | 768 | 817 | 804 | 721 | 756 | 762 | 720 | 563 |
| | | PGC | 878 | 969 | 1009 | 1020 | 1082 | 1193 | 1242 | 1251 | 1206 | 1324 | 1378 | 1350 |
| | | PGD | 1541 | 1733 | 1848 | 1946 | 1895 | 2124 | 2261 | 2371 | 2028 | 2218 | 2331 | 2367 |
| B80 | 8 | PGA | 131 | * | * | * | 154 | * | * | * | * | * | * | * |
| | | PGB | 588 | 643 | 646 | 616 | 705 | 767 | 768 | 723 | 705 | 735 | 713 | 609 |
| | | PGC | 782 | 865 | 901 | 922 | 948 | 1047 | 1091 | 1113 | 1085 | 1194 | 1242 | 1239 |
| | | PGD | 1375 | 1562 | 1674 | 1785 | 1663 | 1884 | 2016 | 2143 | 1830 | 2032 | 2152 | 2230 |
| B90 | 9 | PGA | 135 | 111 | * | * | 164 | * | * | * | 144 | * | * | * |
| | | PGB | 565 | 630 | 640 | 630 | 699 | 775 | 785 | 766 | 684 | 732 | 724 | 658 |
| | | PGC | 731 | 810 | 844 | 872 | 922 | 1020 | 1063 | 1095 | 1026 | 1132 | 1179 | 1191 |
| | | PGD | 1296 | 1484 | 1598 | 1721 | 1625 | 1875 | 1996 | 2144 | 1741 | 1956 | 2085 | 2195 |
| C10 | 10 | PGA | 133 | 114 | * | * | 160 | 133 | * | * | 146 | * | * | * |
| | | PGB | 535 | 601 | 616 | 617 | 642 | 719 | 734 | 729 | 643 | 698 | 698 | 655 |
| | | PGC | 677 | 750 | 782 | 812 | 814 | 903 | 941 | 975 | 936 | 1034 | 1078 | 1098 |
| | | PGD | 1200 | 1391 | 1490 | 1614 | 1444 | 1658 | 1787 | 1932 | 1596 | 1806 | 1933 | 2052 |
| C11 | 11.2 | PGA | 123 | 108 | * | * | 157 | 136 | * | * | 138 | * | * | * |
| | | PGB | 476 | 539 | 555 | 562 | 613 | 691 | 709 | 713 | | 637 | 641 | 614 |
| | | PGC | 587 | 651 | 679 | 708 | 762 | 845 | 881 | 916 | 465 | 911 | 949 | 972 |
| | | PGD | 1046 | 1208 | 1306 | 1420 | 1356 | 1563 | 1688 | 1831 | 1030 | 1605 | 1722 | 1839 |
| C13 | 12.5 | PGA | 122 | 106 | * | * | 156 | 139 | * | * | 1199 | * | * | * |
| | | PGB | 425 | 473 | 517 | 523 | 579 | 659 | 681 | 697 | 523 | 578 | 584 | 560 |
| | | PGC | 597 | 588 | 637 | 657 | 706 | 783 | 817 | 854 | 736 | 878 | 882 | 868 |
| | | PGD | 958 | 1125 | 1211 | 1329 | 1255 | 1454 | 1574 | 1718 | 1328 | 1524 | 1805 | 1639 |
| C14 | 14 | PGA | 118 | 103 | * | * | 143 | 131 | * | * | 126 | * | * | * |
| | | PGB | 391 | 429 | 472 | 484 | 514 | 589 | 611 | 633 | 481 | 502 | 516 | 491 |
| | | PGC | 506 | 526 | 546 | 583 | 610 | 678 | 707 | 743 | 652 | 790 | 803 | 730 |
| | | PGD | 863 | 1034 | 1108 | 1233 | 1092 | 1270 | 1377 | 1509 | 1217 | 1406 | 1623 | 1428 |

*On request

| B216 | | | | B217 | | | | B218 | | | | iN | Code | |
|------|------|------|------|------|------|------|------|------|------|------|------|-----|------|-----|
| 960 | 1150 | 1450 | 1740 | 960 | 1150 | 1450 | 1740 | 960 | 1150 | 1450 | 1740 | | | |
| * | * | * | * | * | * | * | * | | | | | PGA | 6.3 | B63 |
| 1426 | 1555 | 1615 | 1522 | 1527 | 1661 | 1724 | 1598 | | | | | PGB | | |
| 1782 | 1944 | 2019 | 1902 | 1909 | 2076 | 2155 | 1997 | | | | | PGC | | |
| 2366 | 2499 | 2574 | 2482 | 2530 | 2633 | 2689 | 2533 | | | | | PGD | | |
| * | * | * | * | * | * | * | * | * | * | * | * | PGA | 7.1 | B71 |
| 815 | 809 | 754 | 560 | 838 | 811 | 740 | 503 | 897 | 849 | 760 | 473 | PGB | | |
| 1316 | 1442 | 1500 | 1458 | 1430 | 1563 | 1625 | 1561 | 1535 | 1677 | 1742 | 1656 | PGC | | |
| 2204 | 2394 | 2505 | 2519 | 2386 | 2563 | 2666 | 2639 | 2558 | 2723 | 2817 | 2751 | PGD | | |
| * | * | * | * | * | * | * | * | * | * | * | * | PGA | 8 | B80 |
| 784 | 807 | 775 | 641 | 793 | 800 | 756 | 592 | 874 | 868 | 808 | 600 | PGB | | |
| 1225 | 1346 | 1401 | 1387 | 1297 | 1424 | 1481 | 1452 | 1434 | 1572 | 1634 | 1589 | PGC | | |
| 2059 | 2273 | 2400 | 2467 | 2174 | 2378 | 2499 | 2539 | 2402 | 2608 | 2729 | 2743 | PGD | | |
| 150 | * | * | * | * | * | * | * | * | * | * | * | PGA | 9 | B90 |
| 730 | 773 | 759 | 674 | 774 | 807 | 782 | 669 | 823 | 847 | 812 | 671 | PGB | | |
| 1094 | 1206 | 1256 | 1262 | 1234 | 1358 | 1413 | 1409 | 1299 | 1429 | 1486 | 1471 | PGC | | |
| 1853 | 2073 | 2204 | 2306 | 2078 | 2308 | 2444 | 2533 | 2188 | 2414 | 2549 | 2619 | PGD | | |
| 155 | * | * | * | 149 | * | * | * | * | * | * | * | PGA | 10 | C10 |
| 704 | 759 | 753 | 694 | 737 | 783 | 770 | 688 | 799 | 839 | 818 | 712 | PGB | | |
| 1037 | 1145 | 1192 | 1209 | 1145 | 1262 | 1314 | 1322 | 1237 | 1362 | 1418 | 1418 | PGC | | |
| 1760 | 1984 | 2118 | 2237 | 1935 | 2167 | 2306 | 2416 | 2085 | 2322 | 2464 | 2564 | PGD | | |
| 154 | * | * | * | 144 | * | * | * | 159 | * | * | * | PGA | 11.2 | C11 |
| 662 | 720 | 721 | 679 | 669 | 720 | 714 | 656 | 760 | 809 | 797 | 715 | PGB | | |
| 946 | 1045 | 1088 | 1110 | 1014 | 1119 | 1166 | 1181 | 1151 | 1270 | 1322 | 1331 | PGC | | |
| 1616 | 1831 | 1960 | 2083 | 1720 | 1938 | 2068 | 2183 | 1940 | 2175 | 2315 | 2428 | PGD | | |
| 149 | * | * | * | 140 | * | * | * | 158 | * | * | * | PGA | 12.5 | C13 |
| 598 | 661 | 669 | 650 | 637 | 658 | 685 | 621 | 691 | 750 | 749 | 701 | PGB | | |
| 831 | 920 | 958 | 986 | 905 | 966 | 1062 | 1078 | 1021 | 1127 | 1174 | 1195 | PGC | | |
| 1430 | 1632 | 1754 | 1882 | 1623 | 1768 | 1809 | 1865 | 1730 | 1957 | 2093 | 2221 | PGD | | |
| 139 | * | * | * | 136 | * | * | * | 157 | * | * | * | PGA | 14 | C14 |
| 519 | 623 | 637 | 603 | 601 | 614 | 634 | 594 | 653 | 694 | 715 | 685 | PGB | | |
| 781 | 838 | 882 | 903 | 847 | 935 | 967 | 1012 | 886 | 1043 | 1061 | 1054 | PGC | | |
| 1327 | 1465 | 1632 | 1704 | 1504 | 1632 | 1777 | 1783 | 1625 | 1768 | 1876 | 2056 | PGD | | |

*On request

B3 (kW)

| Code | iN | | B313 | | | | B314 | | | | B315 | | | |
|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | 960 | 1150 | 1450 | 1740 | 960 | 1150 | 1450 | 1740 | 960 | 1150 | 1450 | 1740 |
| C16 | 16 | PGA | 165 | 151 | 122 | * | 191 | 174 | 138 | * | 221 | 185 | * | * |
| | | PGB | 388 | 426 | 445 | 450 | 448 | 492 | 511 | 513 | 553 | 597 | 597 | 568 |
| | | PGC | 523 | 582 | 615 | 646 | 592 | 659 | 694 | 727 | 834 | 929 | 957 | 981 |
| | | PGD | 846 | 958 | 1047 | 1128 | 959 | 1085 | 1181 | 1268 | 1322 | 1486 | 1583 | 1662 |
| C18 | 18 | PGA | 167 | 155 | 128 | * | 195 | 180 | 146 | * | 216 | 185 | * | * |
| | | PGB | 392 | 432 | 454 | 462 | 452 | 498 | 520 | 527 | 531 | 575 | 581 | 560 |
| | | PGC | 526 | 586 | 622 | 655 | 596 | 663 | 702 | 737 | 801 | 892 | 924 | 952 |
| | | PGD | 853 | 967 | 1060 | 1146 | 965 | 1093 | 1195 | 1289 | 1265 | 1424 | 1525 | 1610 |
| C20 | 20 | PGA | 159 | 149 | 126 | * | 180 | 168 | 140 | * | 212 | 185 | * | * |
| | | PGB | 367 | 406 | 428 | 440 | 413 | 456 | 480 | 489 | 513 | 557 | 568 | 555 |
| | | PGC | 492 | 548 | 583 | 617 | 542 | 603 | 640 | 675 | 769 | 856 | 891 | 923 |
| | | PGD | 798 | 905 | 996 | 1081 | 877 | 995 | 1092 | 1182 | 1215 | 1370 | 1475 | 1566 |
| C22 | 22.4 | PGA | 154 | 147 | 126 | * | 185 | 174 | 148 | * | 210 | 187 | * | * |
| | | PGB | 349 | 387 | 412 | 426 | 417 | 462 | 489 | 503 | 498 | 544 | 559 | 554 |
| | | PGC | 459 | 511 | 546 | 580 | 546 | 609 | 649 | 686 | 728 | 810 | 849 | 883 |
| | | PGD | 746 | 847 | 936 | 1019 | 885 | 1005 | 1107 | 1203 | 1155 | 1304 | 1412 | 1507 |
| C25 | 25 | PGA | 149 | 144 | 128 | 102 | 176 | 170 | 150 | 116 | 204 | 189 | 153 | * |
| | | PGB | 329 | 367 | 395 | 414 | 390 | 435 | 466 | 486 | 466 | 513 | 537 | 544 |
| | | PGC | 422 | 470 | 506 | 540 | 510 | 568 | 610 | 650 | 658 | 733 | 776 | 816 |
| | | PGD | 687 | 783 | 870 | 954 | 827 | 941 | 1045 | 1143 | 1047 | 1186 | 1297 | 1399 |
| C28 | 28 | PGA | 144 | 143 | 131 | 112 | 172 | 170 | 155 | 130 | 205 | 195 | 168 | * |
| | | PGB | 312 | 350 | 380 | 404 | 373 | 417 | 452 | 479 | 453 | 503 | 535 | 554 |
| | | PGC | 391 | 436 | 472 | 508 | 474 | 528 | 572 | 614 | 631 | 703 | 751 | 798 |
| | | PGD | 640 | 731 | 819 | 903 | 772 | 881 | 985 | 1085 | 1007 | 1145 | 1265 | 1378 |
| C32 | 31.5 | PGA | 139 | 140 | 131 | 116 | 165 | 165 | 154 | 135 | 196 | 191 | 170 | 137 |
| | | PGB | 296 | 333 | 365 | 391 | 350 | 393 | 430 | 460 | 423 | 473 | 508 | 534 |
| | | PGC | 362 | 404 | 440 | 475 | 434 | 484 | 526 | 568 | 572 | 637 | 686 | 733 |
| | | PGD | 595 | 680 | 766 | 849 | 710 | 811 | 912 | 1009 | 917 | 1044 | 1162 | 1274 |
| C36 | 35.5 | PGA | 135 | 137 | 130 | 119 | 159 | 160 | 151 | 137 | 192 | 189 | 173 | 146 |
| | | PGB | 284 | 321 | 353 | 381 | 332 | 375 | 412 | 443 | 407 | 457 | 495 | 525 |
| | | PGC | 345 | 384 | 427 | 454 | 405 | 451 | 492 | 533 | 544 | 606 | 655 | 704 |
| | | PGD | 566 | 648 | 732 | 814 | 662 | 758 | 855 | 949 | 873 | 996 | 1114 | 1228 |
| C40 | 40 | PGA | 128 | 130 | 125 | 116 | 152 | 155 | 147 | 136 | 183 | 182 | 168 | 146 |
| | | PGB | 267 | 302 | 334 | 362 | 315 | 355 | 392 | 424 | 383 | 430 | 469 | 500 |
| | | PGC | 318 | 354 | 387 | 421 | 377 | 420 | 459 | 498 | 502 | 558 | 606 | 653 |
| | | PGD | 523 | 599 | 678 | 755 | 617 | 706 | 798 | 888 | 808 | 923 | 1035 | 1144 |
| C45 | 45 | PGA | 119 | 122 | 117 | 110 | 147 | 150 | 144 | 134 | 171 | 171 | 160 | 142 |
| | | PGB | 244 | 279 | 306 | 333 | 301 | 341 | 377 | 409 | 352 | 397 | 434 | 465 |
| | | PGC | 285 | 317 | 348 | 378 | 357 | 397 | 435 | 474 | 451 | 502 | 547 | 591 |
| | | PGD | 467 | 535 | 607 | 677 | 586 | 671 | 760 | 847 | 728 | 832 | 936 | 1037 |
| C50 | 50 | PGA | 122 | 126 | 124 | 120 | 141 | 146 | 142 | 138 | 178 | 182 | 174 | 163 |
| | | PGB | 244 | 278 | 310 | 340 | 283 | 321 | 358 | 392 | 356 | 402 | 445 | 483 |
| | | PGC | 282 | 314 | 346 | 378 | 330 | 367 | 405 | 442 | 454 | 505 | 554 | 602 |
| | | PGD | 466 | 535 | 610 | 684 | 543 | 623 | 709 | 794 | 728 | 834 | 944 | 1053 |
| C56 | 56 | PGA | 113 | 118 | 117 | 116 | 131 | 136 | 135 | 133 | 165 | 171 | 167 | 161 |
| | | PGB | 223 | 254 | 285 | 314 | 258 | 294 | 330 | 363 | 325 | 369 | 411 | 450 |
| | | PGC | 252 | 281 | 311 | 341 | 293 | 326 | 361 | 395 | 406 | 452 | 498 | 544 |
| | | PGD | 416 | 478 | 547 | 614 | 486 | 558 | 637 | 716 | 652 | 748 | 852 | 954 |
| C63 | 63 | PGA | 109 | 114 | 114 | 114 | 133 | 139 | 138 | 137 | 159 | 165 | 162 | 158 |
| | | PGB | 214 | 244 | 275 | 303 | 259 | 296 | 332 | 367 | 309 | 352 | 393 | 431 |
| | | PGC | 237 | 264 | 293 | 321 | 292 | 326 | 361 | 395 | 380 | 423 | 468 | 511 |
| | | PGD | 393 | 452 | 517 | 582 | 481 | 553 | 633 | 712 | 612 | 703 | 802 | 899 |
| C71 | 71 | PGA | 103 | 108 | 107 | 107 | 122 | 128 | 127 | 127 | 151 | 158 | 155 | 153 |
| | | PGB | 201 | 229 | 258 | 285 | 236 | 269 | 302 | 334 | 292 | 333 | 372 | 409 |
| | | PGC | 214 | 238 | 265 | 290 | 262 | 291 | 323 | 354 | 350 | 390 | 430 | 471 |
| | | PGD | 356 | 410 | 469 | 528 | 431 | 495 | 567 | 638 | 567 | 651 | 743 | 834 |
| C80 | 80 | PGA | 98 | 102 | 103 | 103 | 117 | 123 | 123 | 123 | 145 | 149 | 150 | 146 |
| | | PGB | 217 | 233 | 243 | 261 | 227 | 259 | 291 | 323 | 282 | 312 | 351 | 376 |
| | | PGC | 221 | 230 | 253 | 258 | 246 | 274 | 303 | 334 | 318 | 361 | 462 | 434 |
| | | PGD | 321 | 380 | 427 | 462 | 407 | 468 | 536 | 604 | 516 | 603 | 657 | 773 |
| C90 | 90 | PGA | 92 | 98 | 98 | 97 | 110 | 115 | 115 | 116 | 139 | 143 | 145 | 140 |
| | | PGB | 206 | 214 | 219 | 241 | 212 | 242 | 273 | 302 | 271 | 296 | 330 | 352 |
| | | PGC | 211 | 221 | 240 | 246 | 222 | 247 | 274 | 302 | 277 | 334 | 421 | 406 |
| | | PGD | 307 | 356 | 386 | 412 | 369 | 425 | 487 | 549 | 463 | 554 | 601 | 724 |

* On request

| B316 | | | | B317 | | | | B318 | | | | in | Code | |
|------|------|------|------|------|------|------|------|------|------|------|------|-----|------|-----|
| 960 | 1150 | 1450 | 1740 | 960 | 1150 | 1450 | 1740 | 960 | 1150 | 1450 | 1740 | | | |
| 227 | 186 | * | * | 241 | 189 | * | * | 245 | * | * | * | PGA | 16 | C16 |
| 579 | 621 | 615 | 575 | 713 | 758 | 737 | 671 | 732 | 774 | 741 | 658 | PGB | | |
| 863 | 961 | 984 | 1002 | 1012 | 1126 | 1143 | 1152 | 1034 | 1150 | 1158 | 1157 | PGC | | |
| 1366 | 1532 | 1621 | 1691 | 1654 | 1849 | 1937 | 2000 | 1682 | 1876 | 1949 | 1994 | PGD | | |
| 230 | 193 | * | * | 237 | 191 | * | * | 263 | 205 | * | * | PGA | 18 | C18 |
| 573 | 617 | 617 | 586 | 686 | 734 | 722 | 669 | 763 | 811 | 787 | 714 | PGB | | |
| 850 | 946 | 97 | 998 | 968 | 1078 | 1100 | 1116 | 1066 | 1186 | 1202 | 1210 | PGC | | |
| 1344 | 1510 | 1608 | 1687 | 1584 | 1775 | 1872 | 1946 | 1738 | 1942 | 2033 | 2096 | PGD | | |
| 223 | 191 | * | * | 234 | 194 | * | * | 246 | 198 | * | * | PGA | 20 | C20 |
| 548 | 593 | 599 | 577 | 662 | 711 | 708 | 668 | 700 | 749 | 736 | 681 | PGB | | |
| 808 | 899 | 932 | 959 | 931 | 1037 | 1066 | 1088 | 971 | 1082 | 1103 | 1119 | PGC | | |
| 1280 | 1440 | 1542 | 1628 | 1523 | 1710 | 1815 | 1900 | 1589 | 1780 | 1876 | 1949 | PGD | | |
| 219 | 192 | * | * | 236 | 201 | * | * | 243 | 202 | * | * | PGA | 22.4 | C22 |
| 528 | 574 | 586 | 573 | 646 | 698 | 702 | 673 | 675 | 725 | 722 | 681 | PGB | | |
| 773 | 861 | 897 | 929 | 891 | 992 | 1026 | 1054 | 931 | 1037 | 1066 | 1088 | PGC | | |
| 1227 | 1383 | 1490 | 1582 | 1461 | 1644 | 1756 | 1851 | 1525 | 1712 | 1818 | 1902 | PGD | | |
| 222 | 202 | 160 | * | 234 | 208 | * | * | 250 | 219 | * | * | PGA | 25 | C25 |
| 513 | 563 | 585 | 587 | 607 | 662 | 681 | 674 | 661 | 718 | 732 | 714 | PGB | | |
| 735 | 818 | 862 | 902 | 810 | 902 | 945 | 983 | 893 | 994 | 1035 | 1071 | PGC | | |
| 1168 | 1322 | 1440 | 1546 | 1333 | 1505 | 1629 | 1738 | 1467 | 1654 | 1780 | 1890 | PGD | | |
| 216 | 204 | 172 | * | 239 | 222 | 183 | * | 248 | 227 | 182 | * | PGA | 28 | C28 |
| 480 | 531 | 562 | 577 | 596 | 656 | 689 | 700 | 621 | 682 | 711 | 716 | PGB | | |
| 666 | 741 | 790 | 835 | 784 | 873 | 926 | 974 | 812 | 904 | 954 | 1001 | PGC | | |
| 1060 | 1204 | 1326 | 1440 | 1292 | 1465 | 1605 | 1734 | 1336 | 1513 | 1650 | 1776 | PGD | | |
| 215 | 208 | 183 | 142 | 232 | 221 | 190 | * | 250 | 236 | 199 | * | PGA | 31.5 | C32 |
| 468 | 521 | 558 | 582 | 557 | 619 | 658 | 681 | 608 | 673 | 712 | 731 | PGB | | |
| 638 | 710 | 762 | 812 | 717 | 798 | 854 | 906 | 786 | 874 | 932 | 986 | PGC | | |
| 1020 | 1161 | 1288 | 1409 | 1184 | 1345 | 1487 | 1619 | 1296 | 1471 | 1620 | 1759 | PGD | | |
| 205 | 201 | 181 | 149 | 228 | 221 | 196 | 155 | 241 | 232 | 203 | 155 | PGA | 35.5 | C36 |
| 435 | 487 | 526 | 555 | 538 | 599 | 644 | 674 | 569 | 633 | 677 | 705 | PGB | | |
| 580 | 646 | 697 | 746 | 682 | 759 | 817 | 873 | 718 | 799 | 857 | 913 | PGC | | |
| 929 | 1059 | 1181 | 1299 | 1129 | 1286 | 1429 | 1566 | 1188 | 1351 | 1498 | 1636 | PGD | | |
| 199 | 197 | 180 | 153 | 220 | 215 | 194 | 160 | 236 | 230 | 204 | 164 | PGA | 40 | C40 |
| 419 | 470 | 510 | 541 | 508 | 568 | 614 | 647 | 548 | 611 | 657 | 690 | PGB | | |
| 550 | 612 | 663 | 713 | 634 | 706 | 523 | 818 | 682 | 759 | 818 | 874 | PGC | | |
| 884 | 1009 | 1129 | 1245 | 1053 | 1200 | 1339 | 1472 | 1132 | 1289 | 1434 | 1572 | PGD | | |
| 190 | 189 | 176 | 154 | 206 | 204 | 187 | 159 | 228 | 224 | 203 | 169 | PGA | 45 | C45 |
| 395 | 444 | 484 | 517 | 470 | 526 | 572 | 607 | 520 | 581 | 629 | 665 | PGB | | |
| 507 | 565 | 614 | 662 | 575 | 641 | 694 | 746 | 638 | 710 | 768 | 823 | PGC | | |
| 818 | 934 | 1049 | 1160 | 955 | 1090 | 1221 | 1346 | 1057 | 1205 | 1346 | 1481 | PGD | | |
| 178 | 182 | 174 | 161 | 219 | 221 | 210 | 191 | 216 | 218 | 204 | 184 | PGA | 50 | C50 |
| 636 | 411 | 453 | 491 | 478 | 539 | 593 | 640 | 481 | 542 | 594 | 639 | PGB | | |
| 457 | 509 | 557 | 604 | 582 | 647 | 707 | 766 | 580 | 646 | 704 | 761 | PGC | | |
| 738 | 845 | 956 | 1064 | 962 | 1101 | 1242 | 1380 | 963 | 1101 | 1240 | 1376 | PGD | | |
| 186 | 191 | 186 | 179 | 205 | 210 | 203 | 193 | 228 | 233 | 225 | 211 | PGA | 56 | C56 |
| 365 | 415 | 461 | 504 | 438 | 497 | 552 | 601 | 488 | 553 | 612 | 665 | PGB | | |
| 458 | 510 | 562 | 613 | 523 | 582 | 640 | 697 | 583 | 649 | 713 | 775 | PGC | | |
| 738 | 846 | 962 | 1076 | 867 | 994 | 1128 | 1260 | 966 | 1107 | 1255 | 1401 | PGD | | |
| 171 | 177 | 173 | 168 | 198 | 204 | 199 | 192 | 211 | 217 | 211 | 202 | PGA | 63 | C63 |
| 333 | 378 | 422 | 463 | 419 | 475 | 529 | 579 | 447 | 507 | 563 | 615 | PGB | | |
| 408 | 454 | 502 | 548 | 492 | 548 | 604 | 659 | 526 | 585 | 644 | 702 | PGC | | |
| 659 | 757 | 862 | 966 | 820 | 941 | 1071 | 1198 | 869 | 997 | 1133 | 1267 | PGD | | |
| 164 | 170 | 167 | 163 | 187 | 194 | 190 | 184 | 204 | 210 | 205 | 198 | PGA | 71 | C71 |
| 318 | 362 | 404 | 444 | 393 | 446 | 498 | 546 | 426 | 484 | 539 | 590 | PGB | | |
| 385 | 428 | 465 | 518 | 455 | 506 | 558 | 610 | 496 | 552 | 608 | 664 | PGC | | |
| 621 | 713 | 813 | 912 | 757 | 869 | 990 | 1109 | 824 | 945 | 1075 | 1204 | PGD | | |
| 157 | 163 | 161 | 158 | 178 | 184 | 185 | 173 | 193 | 200 | 196 | 190 | PGA | 80 | C80 |
| 301 | 343 | 384 | 423 | 374 | 416 | 468 | 524 | 400 | 454 | 507 | 556 | PGB | | |
| 354 | 394 | 435 | 476 | 413 | 468 | 514 | 573 | 456 | 507 | 560 | 612 | PGC | | |
| 573 | 658 | 751 | 843 | 695 | 794 | 875 | 1040 | 761 | 873 | 994 | 1114 | PGD | | |
| 144 | 157 | 160 | 153 | | | | | 184 | 190 | 189 | 182 | PGA | 90 | C90 |
| 289 | 332 | 364 | 402 | | | | | 383 | 414 | 476 | 502 | PGB | | |
| 309 | 349 | 402 | 436 | 0 | 0 | 0 | 0 | 424 | 480 | 499 | 581 | PGC | | |
| 533 | 612 | 695 | 783 | | | | | 721 | 819 | 873 | 1027 | PGD | | |

*On request

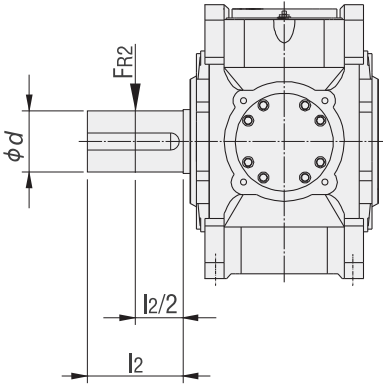
B4 (kW)

| Code | iN | | B413 | | | | B414 | | | | B415 | | | |
|------|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | 960 | 1150 | 1450 | 1740 | 960 | 1150 | 1450 | 1740 | 960 | 1150 | 1450 | 1740 |
| C90 | 90 | PGA | | | | | | | | | | | | |
| D10 | 100 | PGA | 112 | 117 | 121 | 123 | 130 | 135 | 140 | 142 | 146 | 150 | 156 | 155 |
| D11 | 112 | PGA | 107 | 112 | 116 | 118 | 126 | 132 | 137 | 139 | 139 | 144 | 149 | 150 |
| D13 | 125 | PGA | 102 | 108 | 112 | 114 | 119 | 125 | 130 | 133 | 132 | 138 | 143 | 144 |
| D14 | 140 | PGA | 97.6 | 103 | 107 | 109 | 114 | 120 | 125 | 128 | 128 | 134 | 139 | 141 |
| D16 | 160 | PGA | 92.4 | 97.8 | 101 | 104 | 110 | 116 | 121 | 124 | 121 | 127 | 132 | 135 |
| D18 | 180 | PGA | 87.2 | 92.8 | 96.5 | 99.8 | 103 | 110 | 114 | 118 | 114 | 120 | 125 | 129 |
| D20 | 200 | PGA | 85.2 | 91 | 94.7 | 98.3 | 98.5 | 105 | 109 | 113 | 112 | 119 | 124 | 128 |
| D22 | 224 | PGA | 79.9 | 85.6 | 89.1 | 92.9 | 93.2 | 99.8 | 104 | 108 | 105 | 112 | 117 | 121 |
| D25 | 250 | PGA | 77.3 | 83.1 | 86.6 | 90.6 | 90.6 | 97.4 | 101 | 106 | 102 | 109 | 114 | 119 |
| D28 | 280 | PGA | 73 | 78.8 | 82.1 | 86.3 | 85.2 | 92 | 95.9 | 100 | 95 | 102 | 106 | 112 |
| D32 | 315 | PGA | 69.6 | 75.2 | 78.4 | 82.3 | 82.4 | 89 | 92.7 | 97.4 | 89.7 | 96.9 | 100 | 106 |
| D36 | 355 | PGA | 67 | 68.2 | 76.2 | 79.3 | 77.8 | 84 | 87.6 | 92 | 82.3 | 92.6 | 95 | 103 |
| D40 | 400 | PGA | 63.2 | 65.1 | 72.8 | 76.5 | 74.1 | 80 | 83.4 | 87.6 | 79.6 | 89.1 | 92 | 99 |

| B416 | | | | B417 | | | | B418 | | | | | iN | Code |
|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|------|
| 960 | 1150 | 1450 | 1740 | 960 | 1150 | 1450 | 1740 | 960 | 1150 | 1450 | 1740 | | | |
| | | | | 175 | 176 | 178 | 183 | | | | | PGA | 90 | C90 |
| 160 | 163 | 169 | 168 | 164 | 167 | 170 | 173 | 180 | 182 | 188 | 185 | PGA | 100 | D10 |
| 151 | 155 | 161 | 161 | 157 | 161 | 165 | 167 | 169 | 173 | 179 | 177 | PGA | 112 | D11 |
| 144 | 149 | 155 | 155 | 149 | 154 | 160 | 159 | 161 | 166 | 172 | 171 | PGA | 125 | D13 |
| 137 | 143 | 148 | 150 | 144 | 149 | 156 | 155 | 154 | 159 | 165 | 166 | PGA | 140 | D14 |
| 132 | 138 | 143 | 146 | 136 | 142 | 150 | 147 | 148 | 155 | 160 | 162 | PGA | 160 | D16 |
| 124 | 131 | 136 | 140 | 128 | 135 | 143 | 140 | 139 | 146 | 152 | 155 | PGA | 180 | D18 |
| 117 | 125 | 130 | 134 | 126 | 134 | 143 | 139 | 132 | 140 | 146 | 150 | PGA | 200 | D20 |
| 116 | 123 | 128 | 133 | 117 | 125 | 135 | 130 | 130 | 138 | 144 | 149 | PGA | 224 | D22 |
| 108 | 116 | 120 | 126 | 114 | 122 | 133 | 127 | 122 | 131 | 136 | 142 | PGA | 250 | D25 |
| 104 | 113 | 117 | 123 | 107 | 115 | 126 | 120 | 117 | 127 | 132 | 139 | PGA | 280 | D28 |
| 98.5 | 106 | 110 | 116 | 101 | 109 | 119 | 113 | 110 | 119 | 124 | 131 | PGA | 315 | D32 |
| 92.4 | 99.7 | 103 | 109 | 97 | 102 | 113 | 108 | 104 | 113 | 117 | 123 | PGA | 355 | D36 |
| 88 | 95.2 | 99 | 105 | | | | | 108 | 110 | 113 | 117 | PGA | 400 | D40 |

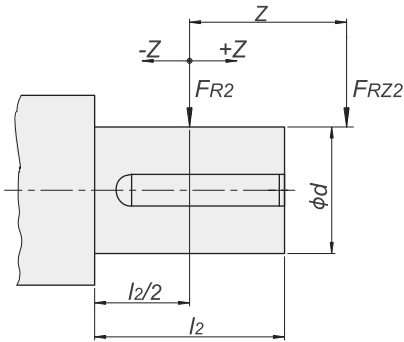
9 Permissible additional radial force on output shaft

9.1 Permissible additional radial force on output shaft d:

| Permissible additional radial force FR2 (kN) , applied at midpant of extension of output shaft*. | | | | | | | | |
|--|---------------|---------------|-----|-----|-----|-----|-----|-----|
|  | Type | Arrangement | 13 | 14 | 15 | 16 | 17 | 18 |
| | H2. . HS | A + B + G + H | | 150 | 150 | 160 | 205 | 205 |
| C + D | | | 112 | 112 | 120 | 135 | 135 | 135 |
| H3. . HS | A + B + G + H | | 190 | 190 | 200 | 265 | 265 | 265 |
| | C + D | | 150 | 150 | 160 | 185 | 185 | 190 |
| H4. . HS | C + D | | 190 | 190 | 200 | 265 | 265 | 265 |
| | A + B + G + H | | 150 | 150 | 160 | 185 | 185 | 190 |
| B2. . HS | A + C | | 160 | 160 | 170 | 210 | 210 | 210 |
| | B + D | | 110 | 110 | 115 | 145 | 145 | 145 |
| B3. . HS | A + C | | 190 | 190 | 200 | 265 | 265 | 265 |
| | B + D | | 150 | 150 | 160 | 185 | 185 | 190 |
| B4. . HS | A + C | | 190 | 190 | 200 | 265 | 265 | 265 |
| | B + D | | 150 | 150 | 160 | 185 | 185 | 190 |

- ⚠ Note: 1. If the angle of applied force and the direction of rotation are given, higher additional force can mostly allowed. Please consult us.
 2. *Permissible Additional Radial Forces FR2(kN) acting on the center of the output shaft. For application of force outside the center of the shaft end, see 9.2.
 3. Lowest performance level of foundation bolt is 8.8. The foundation should be dry and grease free. If customers have requirements, radial force is allowed to be applied at input shaft d1. Please consult us.

9.2 Additional radial force allowed on output shaft d:

| <p>Force is not applied at midpoint of shaft extension of output shaft</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> $F_{RZ2} = F_{R2} \times k$ </div>  | <p>F_{RZ2} Permissible external radial force</p> <p>F_{R2} Permissible additional radial force Determined according to table 9.1</p> <p>k Applied force factor should be determined according to the following table</p> | | | | | | | | | | | | | | |
|--|---|------|------|------|------|------|---|------|------|------|------|------|------|------|------|
| Applied force factor k | | | | | | | | | | | | | | | |
| Size | Distance z (mm) | | | | | | | | | | | | | | |
| | -200 | -150 | -100 | -75 | -50 | -25 | 0 | 25 | 50 | 75 | 100 | 150 | 200 | 250 | 300 |
| 13/14 | | 1.24 | 1.15 | 1.11 | 1.07 | 1.03 | 1 | 0.92 | 0.86 | 0.8 | 0.75 | 0.67 | 0.6 | 0.55 | 0.5 |
| 15/16 | | 1.2 | 1.12 | 1.09 | 1.06 | 1.03 | 1 | 0.93 | 0.87 | 0.82 | 0.77 | 0.69 | 0.63 | 0.58 | 0.53 |
| 17/18 | 1.25 | 1.17 | 1.11 | 1.08 | 1.05 | 1.03 | 1 | 0.94 | 0.88 | 0.84 | 0.79 | 0.72 | 0.66 | 0.6 | 0.56 |

- ⚠ Note: 1.FRZ2:Permissible external radial force when the application of forces outside the center of shaft end.
 2.FR2:Permissible additional radial force according to the table on P23.
 3.K:The factor for action force is in the tale below.

10 Shaft assemblies:

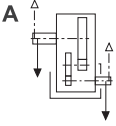
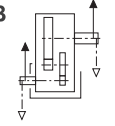
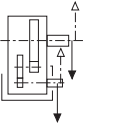
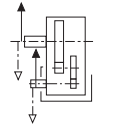
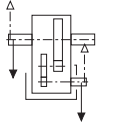
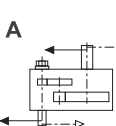
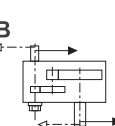
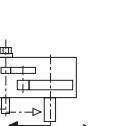
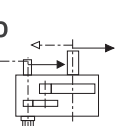
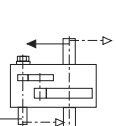
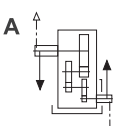
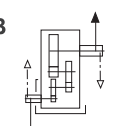
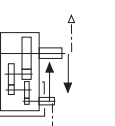
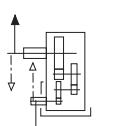
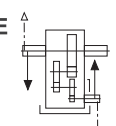
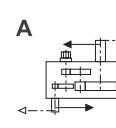
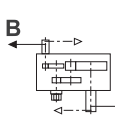
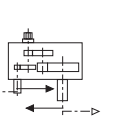
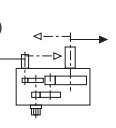
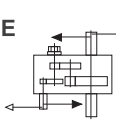
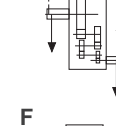
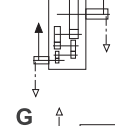
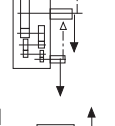
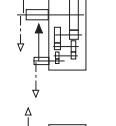
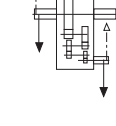
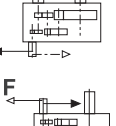
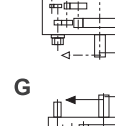
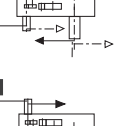
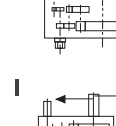
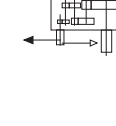
10.1 H series shaft assemblies:

10.1.1 Shaft assemblies:

| | | | | | | |
|--|--------|---------|--------|---------|--------|---------|
| Parallel key solid shaft H...HS H...VS | | | | | | |
| | | | | | | |
| Parallel key hollow shaft H...HH H...VH | | | | | | |
| | | | | | | |
| Hollow shaft with shrink disc H...HD H...VD | | | | | | |
| | | | | | | |
| Hollow shaft with involute spline H...HK H...VK | | | | | | |
| | | | | | | |
| Size iN Type | 13 | 14 | 15 | 16 | 17 | 18 |
| H2 | 6.3-14 | 3.15-14 | 6.3-14 | 3.15-14 | 5.6-14 | 3.55-16 |
| H3 | 16-63 | 16-63 | 16-63 | 16-63 | 14-56 | 16-63 |
| H4 | 71-280 | 71-280 | 71-280 | 71-280 | 63-250 | 71-280 |

⚠ Note: *Shaft assemblies G/H/I is available when nominal ratio is within the range of value showed in right table.

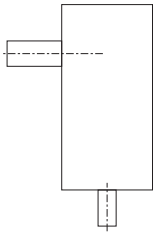
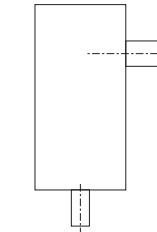
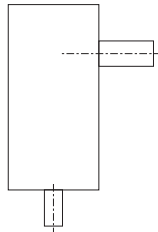
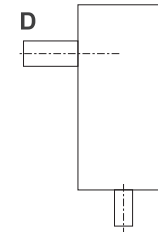
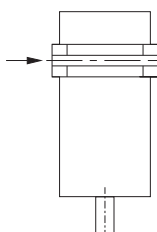
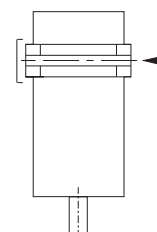
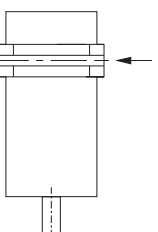
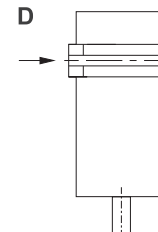
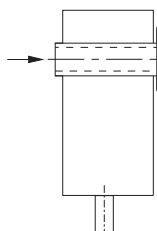
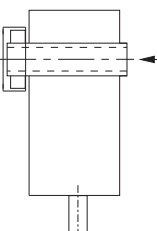
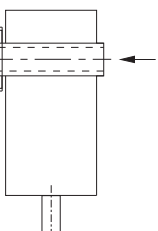
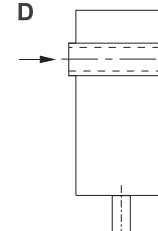
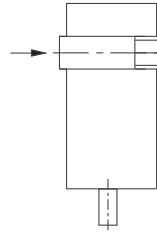
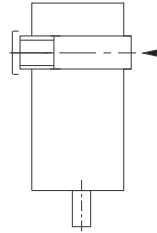
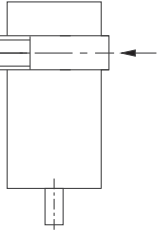
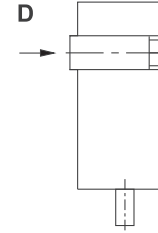
10.1.2 Direction of rotation:

| | | | | | |
|-------|---|---|---|---|---|
| H2..H |  |  |  |  |  |
| H2..V |  |  |  |  |  |
| H3..H |  |  |  |  |  |
| H3..V |  |  |  |  |  |
| H4..H |  |  |  |  |  |
| H4..V |  |  |  |  |  |

⚠ Note: Direction of rotation is reversible, "☐" is shaft end oil pump.

10.2 B series shaft assemblies:

10.2.1 Shaft assemblies:

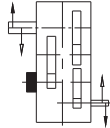
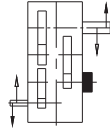
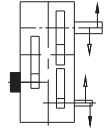
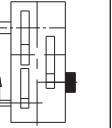
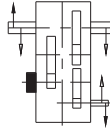
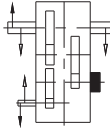
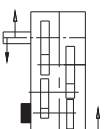
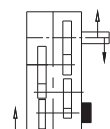
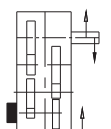
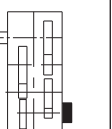
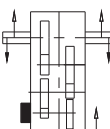
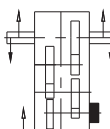
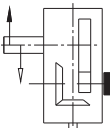
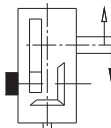
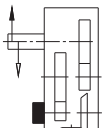
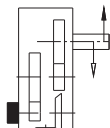
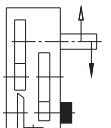
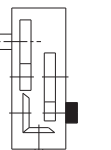
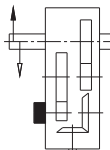
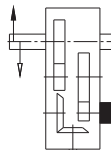
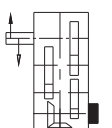
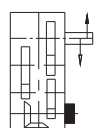
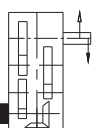
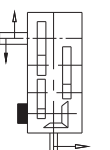
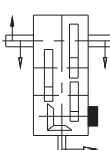
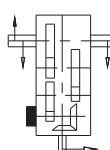
| | | | | |
|---|---|---|---|---|
| <p>Parallel key solid shaft</p> <p>B...HS B...VS</p> | <p>A</p>  | <p>B</p>  | <p>C</p>  | <p>D</p>  |
| <p>Parallel key hollow shaft</p> <p>B...HH B...VH</p> | <p>A</p>  | <p>B</p>  | <p>C</p>  | <p>D</p>  |
| <p>Hollow shaft with shrink disc</p> <p>B...HD B...VD</p> | <p>A</p>  | <p>B</p>  | <p>C</p>  | <p>D</p>  |
| <p>Hollow shaft with involute spline</p> <p>B...HK B...VK</p> | <p>A</p>  | <p>B</p>  | <p>C</p>  | <p>D</p>  |

10.2.2 Direction of rotation:

| | |
|-------|--|
| B2..H | |
| B2..V | |
| B3..H | |
| B3..V | |
| B4..H | |
| B4..V | |

- ⚠ Note: 1. Direction of rotation is reversible, "☐" is shaft end oil pump.
 2. Two stage reduction B series gear unit is not equipped with backstop and shaft end oil pump when solid and hollow output shaft assemblies is B/D/E/F, please consult us if shaft end oil pump and backstop are needed.

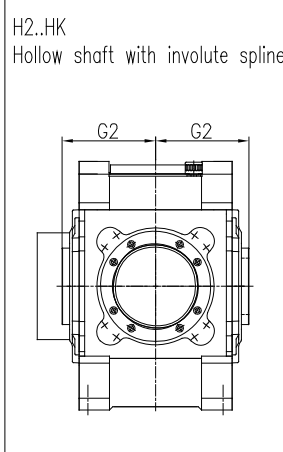
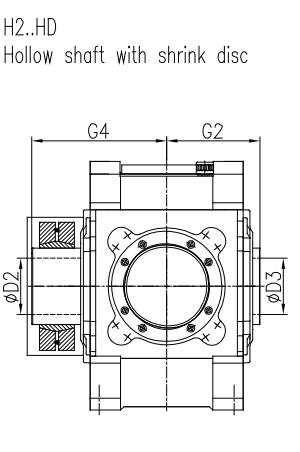
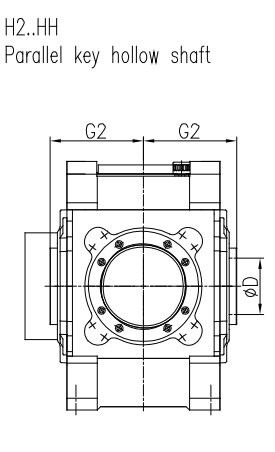
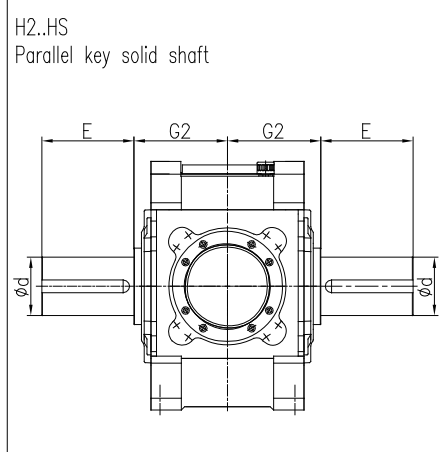
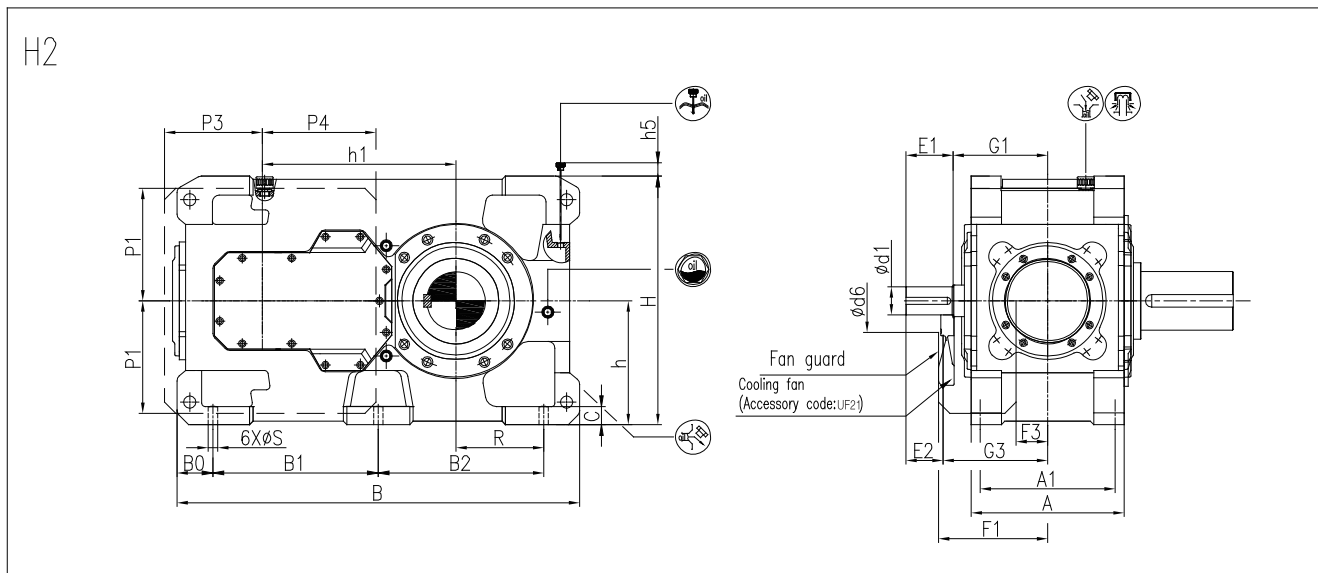
10.3 Backstop assemblies and direction of shaft rotation direction:

| | | | | | | |
|--|---|---|---|--|---|---|
| <p>H3...S H3...H H3...D H3...K</p> | <p>A</p>  | <p>B</p>  | <p>C</p>  | <p>D</p>  | <p>E</p>  | <p>F</p>  |
| <p>H4...S H4...H H4...D H4...K</p> | <p>A</p>  | <p>B</p>  | <p>C</p>  | <p>D</p>  | <p>E</p>  | <p>F</p>  |
| <p>B2...S B2...H B2...D B2...K</p> | <p>A</p>  | <p>///</p> | <p>C</p>  | <p>///</p> | <p>///</p> | <p>///</p> |
| <p>B3...S B3...H B3...D B3...K</p> | <p>A</p>  | <p>B</p>  | <p>C</p>  | <p>D</p>  | <p>E</p>  | <p>F</p>  |
| <p>B4...S B4...H B4...D B4...K</p> | <p>A</p>  | <p>B</p>  | <p>C</p>  | <p>D</p>  | <p>E</p>  | <p>F</p>  |

- ⚠ Note: 1. Gearbox with backstop only makes unidirectional rotation. Output shaft rotation direction has to be indicated when being ordered.
 2. H2 series doesn't have backstop.
 3. Shaft end oil pump can not be installed with backstop for all HB series, please consult us if both shaft end oil pump and backstop needed to be installed.

11 Outline dimension

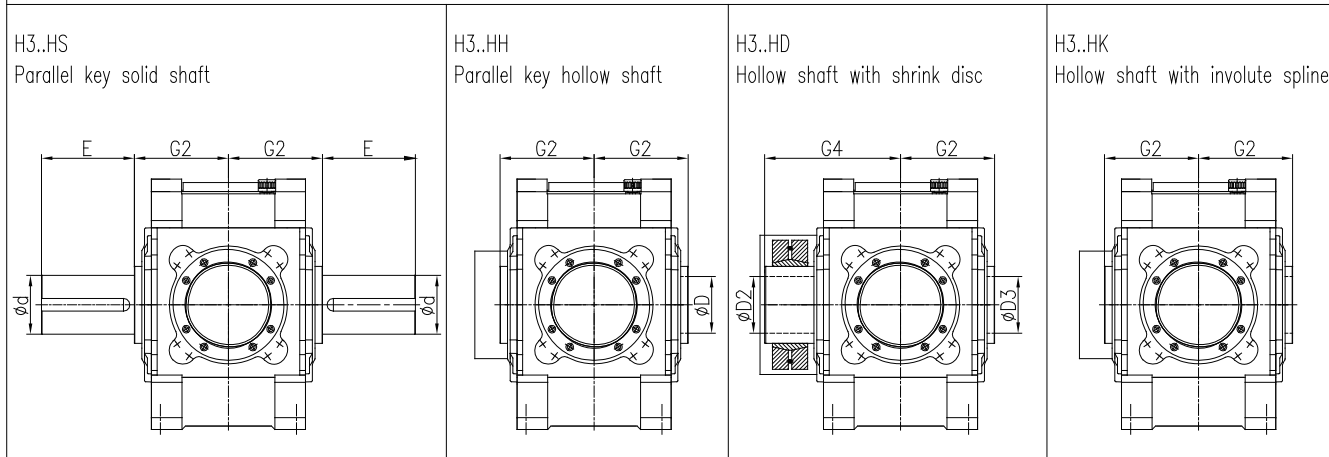
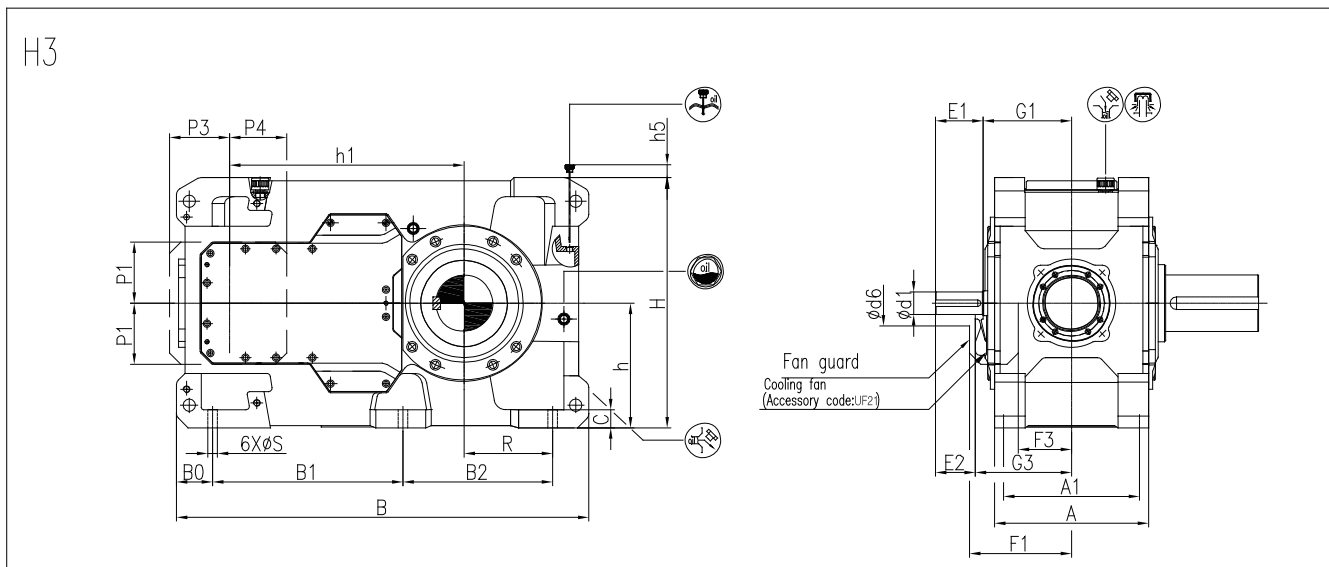
H213H-H218H



| Size | iN=3.15 -11.2 | | | iN=3.15 -12.5 | | | iN=12.5 -20 | | | iN=14 -20 | | | A | A1 | B | B0 | B1 | B2 | | | |
|------|---------------|-----|-----|---------------|-----|-----|-------------|-----|-----|-----------|----|----|-------|-----|------|-----|-----|------|-----|-----|-----|
| | d1 | E1 | E2 | d1 | E1 | E2 | d1 | E1 | E2 | d1 | E1 | E2 | | | | | | | | | |
| 13 | 100m6 | 210 | 175 | | | | 85m6 | 170 | 135 | | | | 545 | 475 | 1375 | 142 | 545 | 545 | | | |
| 14 | 100m6 | 210 | 175 | | | | 85m6 | 170 | 135 | | | | 545 | 475 | 1505 | 137 | 545 | 685 | | | |
| 15 | 120m6 | 210 | 175 | | | | 100m6 | 210 | 175 | | | | 620 | 535 | 1630 | 160 | 655 | 655 | | | |
| 16 | 120m6 | 210 | 175 | | | | 100m6 | 210 | 175 | | | | 620 | 535 | 1720 | 160 | 655 | 745 | | | |
| 17 | 125m6 | 210 | 165 | | | | 110m6 | 210 | 165 | | | | 680 | 600 | 1790 | 160 | 735 | 735 | | | |
| 18 | | | | 125m6 | 210 | 165 | | | | | | | 110m6 | 210 | 165 | 680 | 600 | 1910 | 160 | 735 | 855 |

| Size | C | d | d6 | D | D2 | D3 | E | F1 | F3 | G1 | G2 | G3 | G4 | H | h | h1 | h5 | P1 | P3 | P4 | R | S | Weight (kg) |
|------|----|-------|-----|-------|-------|-------|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|----|-----|-----|-----|-----|----|-------------|
| 13 | 60 | 200m6 | 250 | 190H7 | 190H7 | 190H7 | 350 | 385 | 135 | 330 | 335 | 365 | 480 | 875 | 440 | 635 | 40 | 400 | 330 | 365 | 305 | 35 | 2075 |
| 14 | 60 | 220m6 | 250 | 210H7 | 210H7 | 210H7 | 350 | 385 | 135 | 330 | 335 | 365 | 480 | 940 | 440 | 705 | 40 | 400 | 330 | 365 | 375 | 35 | 2825 |
| 15 | 70 | 240m6 | 280 | 230H7 | 230H7 | 230H7 | 410 | 430 | 155 | 365 | 380 | 400 | 550 | 1000 | 500 | 762 | 40 | 450 | 370 | 440 | 365 | 42 | 3610 |
| 16 | 70 | 250m6 | 280 | 240H7 | 240H7 | 240H7 | 410 | 430 | 155 | 365 | 380 | 400 | 550 | 1035 | 500 | 808 | 40 | 450 | 370 | 440 | 410 | 42 | 3970 |
| 17 | 80 | 260n6 | 280 | 250H7 | 250H7 | 250H7 | 410 | 485 | 140 | 420 | 415 | 465 | 600 | 1105 | 550 | 860 | 60 | 500 | 435 | 505 | 390 | 42 | 4765 |
| 18 | 80 | 280n6 | 280 | 275H7 | 275H7 | 275H7 | 470 | 485 | 140 | 420 | 415 | 465 | 600 | 1110 | 550 | 920 | 60 | 500 | 435 | 505 | 450 | 42 | 5265 |

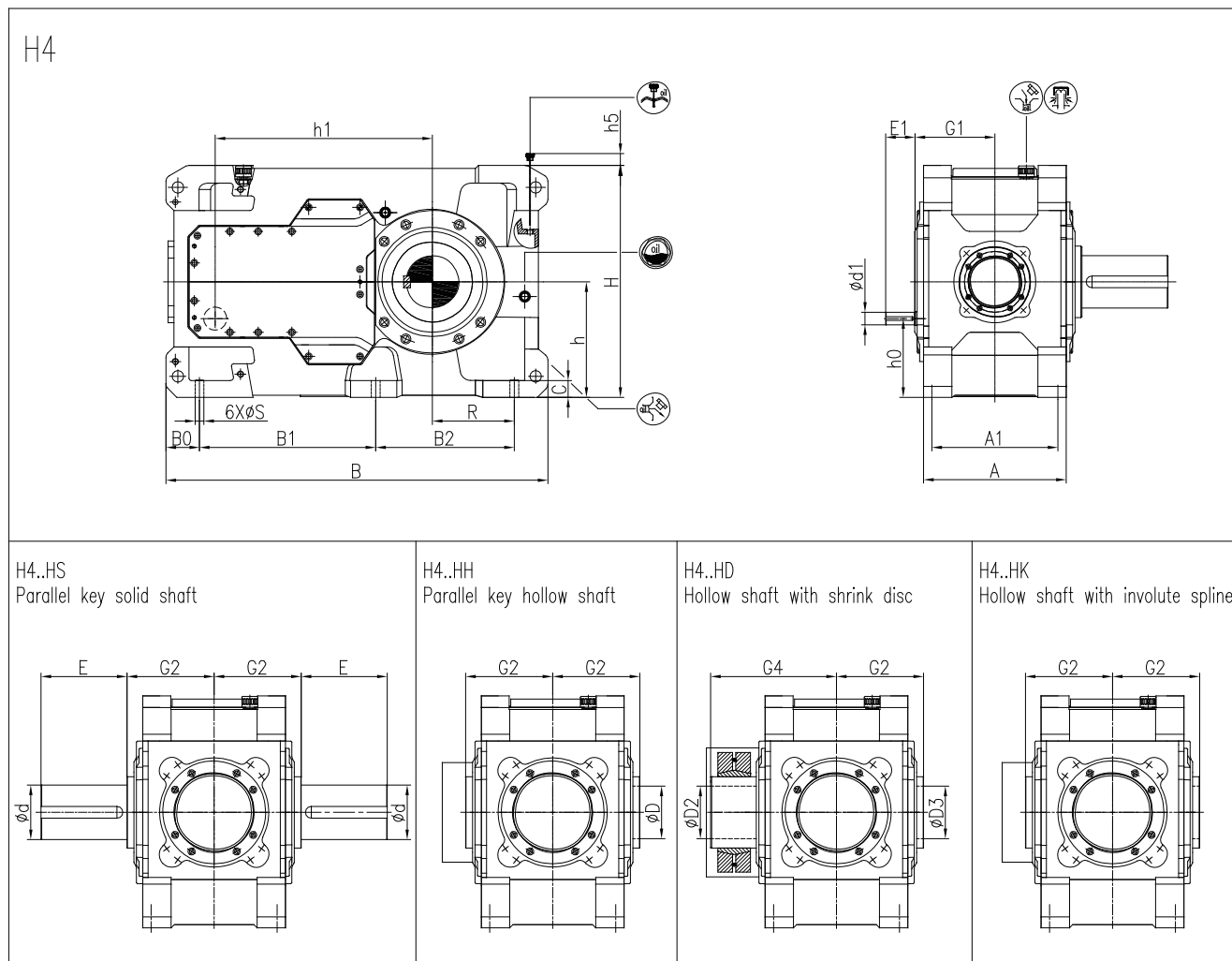
H313H-H318H



| Size | iN=14-45 | | | iN=16-50 | | | iN=50-100 | | | iN=56-100 | | | iN=56-112 | | | A | A1 | B | B0 | B1 | B2 | C |
|------|----------|-----|-----|----------|-----|-----|-----------|-----|----|-----------|-----|-----|-----------|-----|----|-----|-----|------|-----|-------|-------|----|
| | d1 | E1 | E2 | d1 | E1 | E2 | d1 | E1 | E2 | d1 | E1 | E2 | d1 | E1 | E2 | | | | | | | |
| 13 | | | | 85m6 | 170 | 130 | | | | 60m6 | 140 | 100 | | | | 545 | 475 | 1470 | 137 | 667.5 | 527.5 | 60 |
| 14 | | | | 85m6 | 170 | 130 | | | | 60m6 | 140 | 100 | | | | 545 | 475 | 1610 | 137 | 667.5 | 667.5 | 60 |
| 15 | | | | 100m6 | 210 | 165 | | | | | | | 75m6 | 140 | 95 | 620 | 535 | 1760 | 161 | 840 | 600 | 70 |
| 16 | | | | 100m6 | 210 | 165 | | | | | | | 75m6 | 140 | 95 | 620 | 535 | 1850 | 160 | 840 | 690 | 70 |
| 17 | 100m6 | 210 | 165 | | | | 75m6 | 140 | 95 | | | | | | | 680 | 600 | 1820 | 160 | 840 | 660 | 80 |
| 18 | | | | 100m6 | 210 | 165 | | | | | | | 75m6 | 140 | 95 | 680 | 600 | 1940 | 160 | 840 | 780 | 80 |

| Size | d | d6 | D | D2 | D3 | E | F1 | F3 | G1 | G2 | G3 | G4 | H | h | h1 | h5 | P1 | P3 | P4 | R | S | Weight (kg) |
|------|-------|-----|-------|-------|-------|-----|-----|-----|-----|-----|-----|-----|------|-----|------|----|-----|-----|-----|-----|----|-------------|
| 13 | 200m6 | 190 | 190H7 | 190H7 | 190H7 | 350 | 370 | 195 | 325 | 335 | 365 | 480 | 875 | 440 | 820 | 0 | 225 | 225 | 215 | 305 | 35 | 2355 |
| 14 | 220m6 | 190 | 210H7 | 210H7 | 210H7 | 350 | 370 | 195 | 325 | 335 | 365 | 480 | 940 | 440 | 890 | 40 | 225 | 225 | 215 | 375 | 35 | 2880 |
| 15 | 240m6 | 200 | 230H7 | 230H7 | 230H7 | 410 | 415 | 205 | 365 | 380 | 410 | 550 | 1000 | 500 | 987 | 60 | 270 | 265 | 252 | 365 | 42 | 3640 |
| 16 | 250m6 | 200 | 240H7 | 240H7 | 240H7 | 410 | 415 | 205 | 365 | 380 | 410 | 550 | 1035 | 500 | 1033 | 20 | 270 | 265 | 252 | 410 | 42 | 4195 |
| 17 | 260m6 | 200 | 250H7 | 250H7 | 250H7 | 410 | 450 | 235 | 400 | 415 | 445 | 600 | 1105 | 550 | 1035 | 60 | 270 | 265 | 252 | 390 | 42 | 4670 |
| 18 | 280n6 | 200 | 275H7 | 275H7 | 275H7 | 470 | 450 | 235 | 400 | 415 | 445 | 600 | 1110 | 550 | 1095 | 70 | 270 | 265 | 252 | 450 | 42 | 5165 |

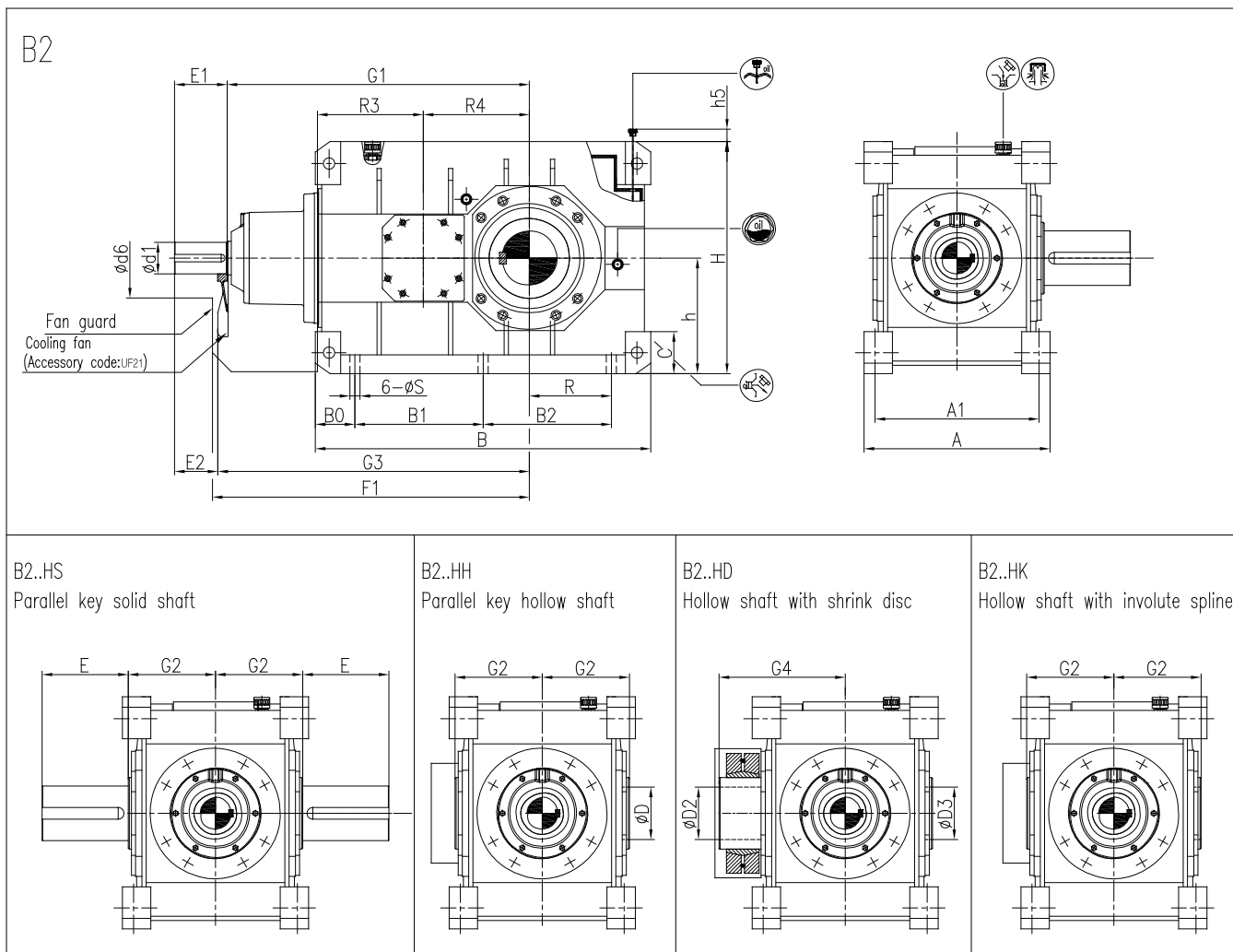
H413H-H418H



| Size | iN=63-200 | | iN=71-224 | | iN=224-400 | | iN=250-450 | | A | A1 | B | B0 | B1 | B2 | C | d |
|------|-----------|-----|-----------|-----|------------|-----|------------|-----|-----|-----|------|-----|-------|-------|----|-------|
| | d1 | E1 | d1 | E1 | d1 | E1 | d1 | E1 | | | | | | | | |
| 13 | | | 50k6 | 110 | | | 38k6 | 80 | 545 | 475 | 1470 | 137 | 667.5 | 527.5 | 60 | 200m6 |
| 14 | | | 50k6 | 110 | | | 38k6 | 80 | 545 | 475 | 1610 | 137 | 667.5 | 667.5 | 60 | 220m6 |
| 15 | | | 60m6 | 140 | | | 50k6 | 110 | 620 | 535 | 1760 | 161 | 840 | 600 | 70 | 240m6 |
| 16 | | | 60m6 | 140 | | | 50k6 | 110 | 620 | 535 | 1850 | 160 | 840 | 690 | 70 | 250m6 |
| 17 | 60m6 | 140 | | | 50k6 | 110 | | | 680 | 600 | 1820 | 160 | 840 | 660 | 80 | 260m6 |
| 18 | | | 60m6 | 140 | | | 50k6 | 110 | 680 | 600 | 1940 | 160 | 840 | 780 | 80 | 280m6 |

| Size | D | D2 | D3 | E | G1 | G2 | G4 | H | h | h0 | h1 | h5 | R | S | Weight (kg) |
|------|-------|-------|-------|-----|-----|-----|-----|------|-----|-----|------|----|-----|----|-------------|
| 13 | 190H7 | 190H7 | 190H7 | 350 | 305 | 335 | 480 | 875 | 440 | 300 | 820 | 0 | 305 | 35 | 2450 |
| 14 | 210H7 | 210H7 | 210H7 | 350 | 305 | 335 | 480 | 940 | 440 | 300 | 890 | 40 | 375 | 35 | 2995 |
| 15 | 230H7 | 230H7 | 230H7 | 410 | 345 | 380 | 550 | 1000 | 500 | 325 | 987 | 60 | 365 | 42 | 3810 |
| 16 | 240H7 | 240H7 | 240H7 | 410 | 345 | 380 | 550 | 1035 | 500 | 325 | 1033 | 20 | 410 | 42 | 4290 |
| 17 | 250H7 | 250H7 | 250H7 | 410 | 380 | 415 | 600 | 1105 | 550 | 375 | 1035 | 60 | 390 | 42 | 4795 |
| 18 | 275H7 | 275H7 | 275H7 | 470 | 380 | 415 | 600 | 1110 | 550 | 375 | 1095 | 70 | 450 | 42 | 5325 |

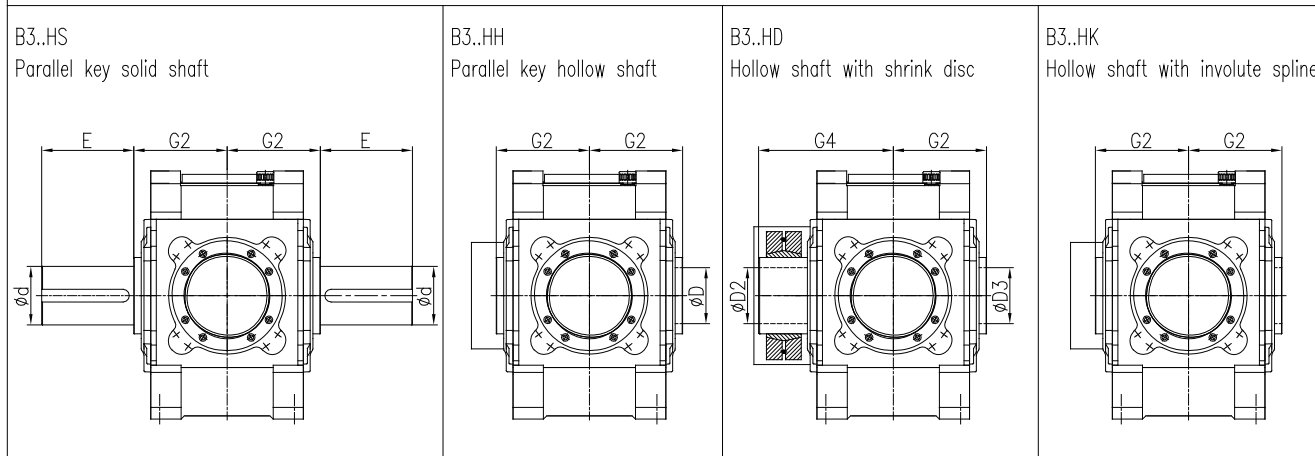
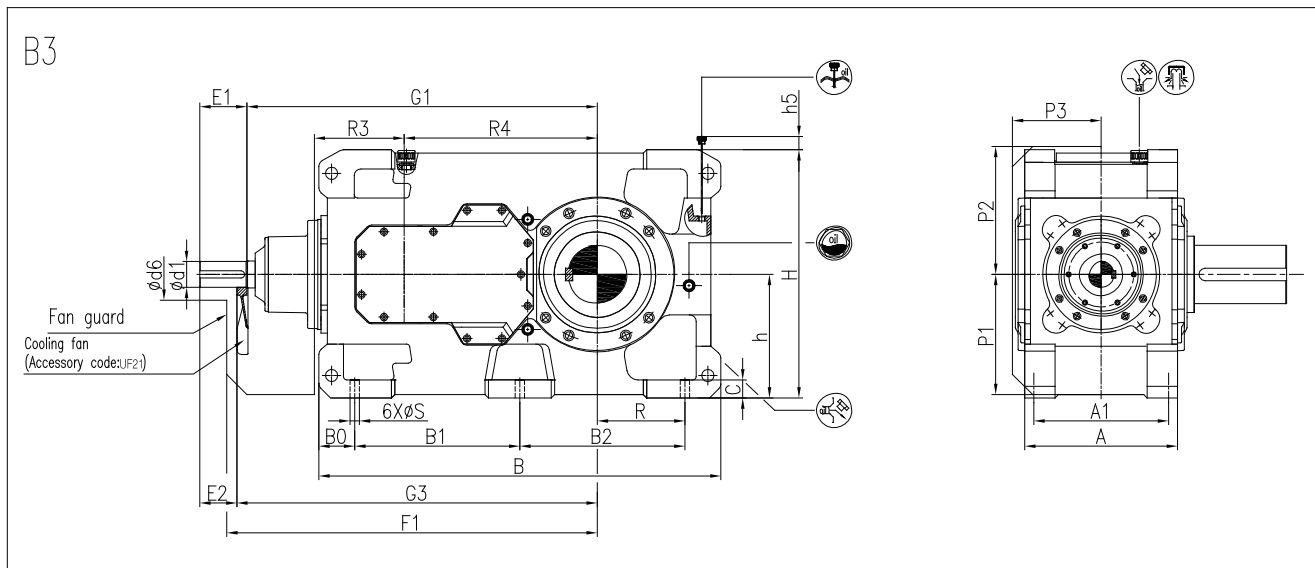
B213H-B218H



| Size | iN=6. 3-14 | | | iN=7. 1-14 | | | A | A1 | B | B0 | B1 | B2 | C | d | d6 | D | D2 | D3 |
|------|------------|-----|-----|------------|-----|-----|-----|-----|------|-----|-----|-----|----|-------|-----|-------|-------|-------|
| | d1 | E1 | E2 | d1 | E1 | E2 | | | | | | | | | | | | |
| 13 | 115m6 | 210 | 175 | | | | 655 | 580 | 1205 | 137 | 465 | 465 | 60 | 200m6 | 245 | 190H7 | 190H7 | 190H7 |
| 14 | 115m6 | 210 | 175 | | | | 655 | 580 | 1345 | 137 | 465 | 605 | 60 | 220m6 | 245 | 210H7 | 210H7 | 210H7 |
| 15 | 140m6 | 250 | 200 | | | | 765 | 670 | 1430 | 160 | 555 | 555 | 70 | 240m6 | 280 | 230H7 | 230H7 | 230H7 |
| 16 | 140m6 | 250 | 200 | | | | 765 | 670 | 1520 | 160 | 555 | 645 | 70 | 250m6 | 280 | 240H7 | 240H7 | 240H7 |
| 17 | 150m6 | 250 | 200 | | | | 885 | 780 | 1595 | 188 | 610 | 610 | 80 | 260n6 | 380 | 250H7 | 250H7 | 250H7 |
| 18 | | | | 150m6 | 250 | 200 | 885 | 780 | 1715 | 188 | 610 | 730 | 80 | 280n6 | 380 | 275H7 | 275H7 | 275H7 |

| Size | E | F1 | G1 | G2 | G3 | G4 | H | h | h5 | P1 | P2 | P3 | R | R3 | R4 | S | Weight (kg) |
|------|-----|------|------|-----|------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|----|-------------|
| 13 | 350 | 1175 | 1092 | 335 | 1127 | 480 | 870 | 440 | 60 | 430 | 450 | 375 | 305 | 370 | 392 | 35 | 2530 |
| 14 | 350 | 1245 | 1170 | 335 | 1205 | 480 | 885 | 440 | 20 | 430 | 450 | 375 | 375 | 370 | 470 | 35 | 2945 |
| 15 | 410 | 1385 | 1305 | 380 | 1355 | 550 | 1000 | 500 | 20 | 490 | 495 | 435 | 365 | 442 | 470 | 42 | 4230 |
| 16 | 410 | 1430 | 1330 | 380 | 1380 | 550 | 1035 | 500 | 60 | 490 | 495 | 435 | 410 | 442 | 495 | 42 | 4750 |
| 17 | 410 | 1520 | 1450 | 415 | 1500 | 600 | 1105 | 550 | 40 | 540 | 555 | 505 | 390 | 490 | 505 | 48 | 5990 |
| 18 | 470 | 1580 | 1515 | 415 | 1565 | 600 | 1110 | 550 | 100 | 540 | 555 | 505 | 450 | 490 | 570 | 48 | 6555 |

B313H-B318H

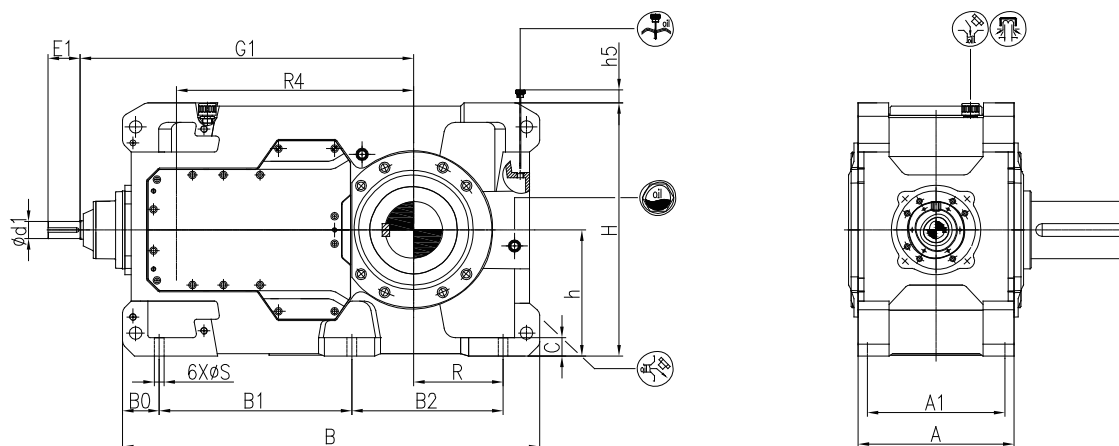


| Size | iN=16-56 | | | iN=16-63 | | | iN=63-80 | | | iN=71-90 | | | A | A1 | B | B0 | B1 | B2 | C | d | d6 |
|------|----------|-----|-----|----------|-----|-----|----------|-----|-----|----------|-----|-----|-----|-----|------|-----|-----|-----|----|-------|-----|
| | d1 | E1 | E2 | d1 | E1 | E2 | d1 | E1 | E2 | d1 | E1 | E2 | | | | | | | | | |
| 13 | | | | 85m6 | 170 | 135 | | | | 70m6 | 140 | 105 | 545 | 475 | 1375 | 142 | 545 | 545 | 60 | 200m6 | 210 |
| 14 | | | | 85m6 | 170 | 135 | | | | 70m6 | 140 | 105 | 545 | 475 | 1505 | 137 | 545 | 685 | 60 | 220m6 | 210 |
| 15 | | | | 95m6 | 170 | 135 | | | | 75m6 | 140 | 105 | 620 | 535 | 1630 | 160 | 655 | 655 | 70 | 240m6 | 210 |
| 16 | | | | 95m6 | 170 | 135 | | | | 75m6 | 140 | 105 | 620 | 535 | 1720 | 160 | 655 | 745 | 70 | 250m6 | 210 |
| 17 | 115m6 | 210 | 175 | | | | 90m6 | 170 | 135 | | | | 680 | 600 | 1790 | 160 | 735 | 735 | 80 | 260m6 | 230 |
| 18 | | | | 115m6 | 210 | 175 | | | | 90m6 | 170 | 135 | 680 | 600 | 1910 | 160 | 735 | 855 | 80 | 280m6 | 230 |

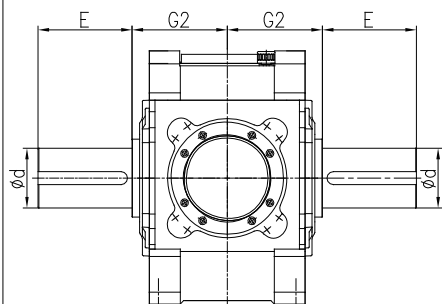
| Size | D | D2 | D3 | E | F1 | G1 | G2 | G3 | G4 | H | h | h5 | P1 | P2 | P3 | R | R3 | R4 | S | Weight (kg) |
|------|-------|-------|-------|-----|------|------|-----|------|-----|------|-----|----|-----|-----|-----|-----|-----|-----|----|-------------|
| 13 | 190H7 | 190H7 | 190H7 | 350 | 1165 | 1110 | 335 | 1145 | 480 | 875 | 440 | 40 | 425 | 435 | 325 | 305 | 265 | 635 | 35 | 2470 |
| 14 | 210H7 | 210H7 | 210H7 | 350 | 1235 | 1180 | 335 | 1215 | 480 | 940 | 440 | 40 | 425 | 435 | 325 | 375 | 265 | 705 | 35 | 3025 |
| 15 | 230H7 | 230H7 | 230H7 | 410 | 1420 | 1367 | 380 | 1402 | 550 | 1000 | 500 | 40 | 485 | 520 | 365 | 365 | 320 | 762 | 42 | 3925 |
| 16 | 240H7 | 240H7 | 240H7 | 410 | 1470 | 1413 | 380 | 1448 | 550 | 1035 | 500 | 40 | 485 | 520 | 365 | 410 | 320 | 808 | 42 | 4295 |
| 17 | 250H7 | 250H7 | 250H7 | 410 | 1620 | 1560 | 415 | 1595 | 600 | 1105 | 550 | 60 | 535 | 570 | 395 | 390 | 370 | 860 | 42 | 5110 |
| 18 | 275H7 | 275H7 | 275H7 | 470 | 1680 | 1620 | 415 | 1655 | 600 | 1110 | 550 | 60 | 535 | 570 | 395 | 450 | 370 | 920 | 42 | 5645 |

B413H-B418H

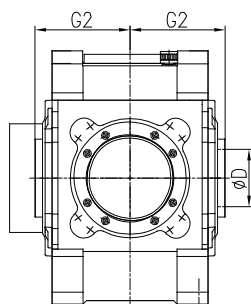
B4



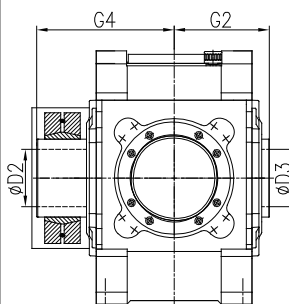
B4..HS
Parallel key solid shaft



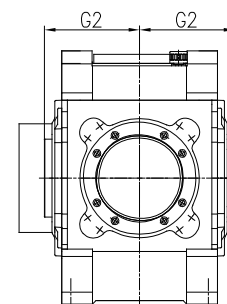
B4..HH
Parallel key hollow shaft



B4..HD
Hollow shaft with shrink disc



B4..HK
Hollow shaft with involute spline

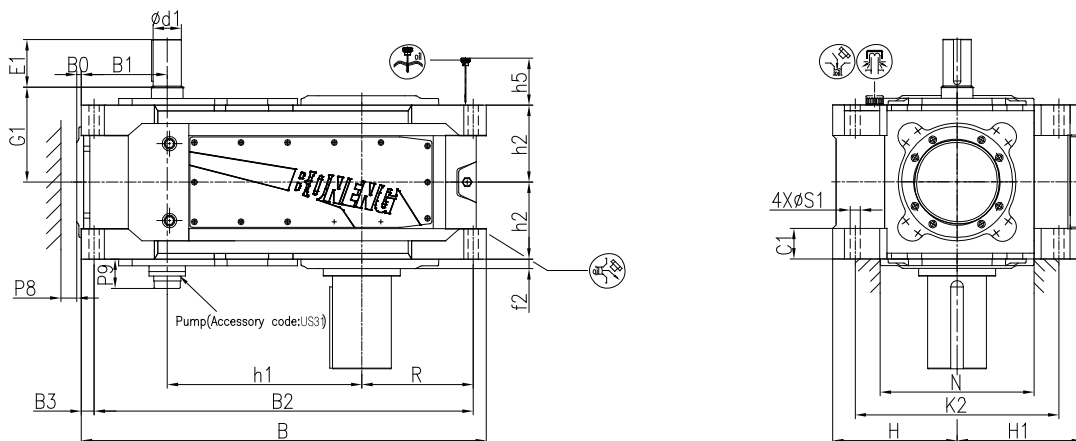


| Size | iN=90-250 | | iN=100-280 | | iN=280-355 | | iN=315-400 | | A | A1 | B | B0 | B1 | B2 | C |
|------|-----------|-----|------------|-----|------------|-----|------------|-----|-----|-----|------|-----|-------|-------|----|
| | d1 | E1 | d1 | E1 | d1 | E1 | d1 | E1 | | | | | | | |
| 13 | | | 60m6 | 140 | | | 50k6 | 110 | 545 | 475 | 1470 | 137 | 667.5 | 527.5 | 60 |
| 14 | | | 60m6 | 140 | | | 50k6 | 110 | 545 | 475 | 1610 | 137 | 667.5 | 667.5 | 60 |
| 15 | | | 75m6 | 140 | | | 60m6 | 140 | 620 | 535 | 1760 | 161 | 840 | 600 | 70 |
| 16 | | | 75m6 | 140 | | | 60m6 | 140 | 620 | 535 | 1850 | 160 | 840 | 690 | 70 |
| 17 | 75m6 | 140 | | | 60m6 | 140 | | | 680 | 600 | 1820 | 160 | 840 | 660 | 80 |
| 18 | | | 75m6 | 140 | | | 60m6 | 140 | 680 | 600 | 1940 | 160 | 840 | 780 | 80 |

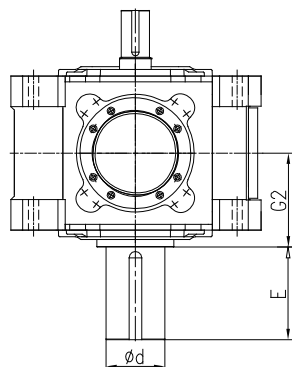
| Size | d | D | D2 | D3 | E | G1 | G2 | G4 | H | h | h5 | R | R4 | S | Weight (kg) |
|------|-------|-------|-------|-------|-----|------|-----|-----|------|-----|----|-----|------|----|-------------|
| 13 | 200m6 | 190H7 | 190H7 | 190H7 | 350 | 1170 | 335 | 480 | 875 | 440 | 0 | 305 | 820 | 35 | 2455 |
| 14 | 220m6 | 210H7 | 210H7 | 210H7 | 350 | 1240 | 335 | 480 | 940 | 440 | 40 | 375 | 890 | 35 | 3000 |
| 15 | 240m6 | 230H7 | 230H7 | 230H7 | 410 | 1407 | 380 | 550 | 1000 | 500 | 60 | 365 | 987 | 42 | 3805 |
| 16 | 250m6 | 240H7 | 240H7 | 240H7 | 410 | 1453 | 380 | 550 | 1035 | 500 | 20 | 410 | 1033 | 42 | 4315 |
| 17 | 260m6 | 250H7 | 250H7 | 250H7 | 410 | 1455 | 415 | 600 | 1105 | 550 | 60 | 390 | 1035 | 42 | 4810 |
| 18 | 280m6 | 275H7 | 275H7 | 275H7 | 470 | 1515 | 415 | 600 | 1110 | 550 | 70 | 450 | 1095 | 42 | 5340 |

H213V-H218V

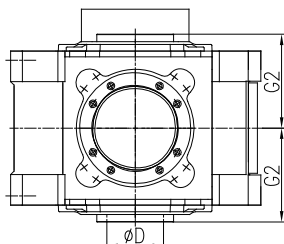
H2(With forced lubrication)



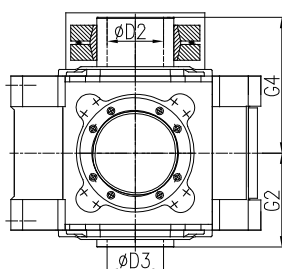
H2..VS
Parallel key solid shaft



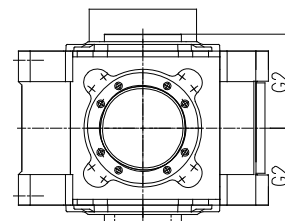
H2..VH
Parallel key hollow shaft



H2..VD
Hollow shaft with shrink disc



H2..VK
Hollow shaft with involute spline



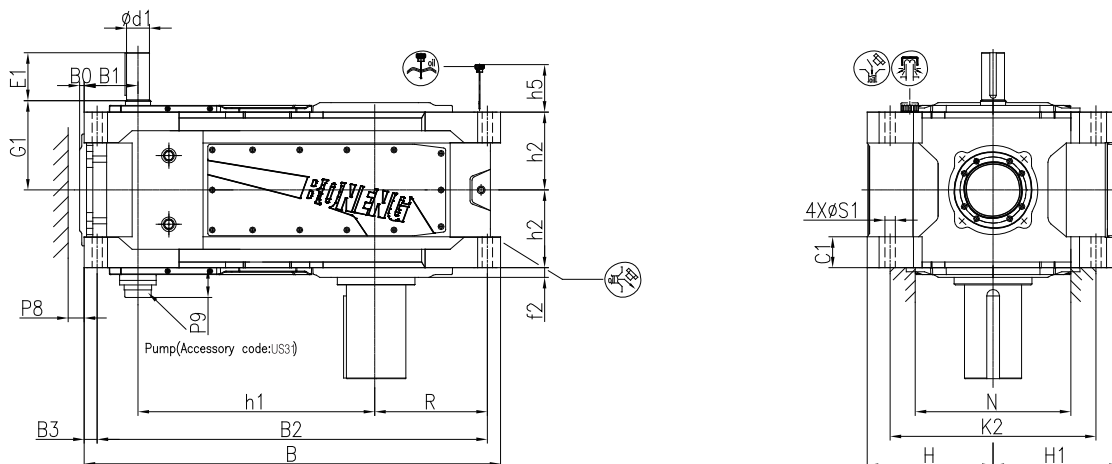
| Size | iN=3. 15-11. 2 | | iN=3. 15-12. 5 | | iN=12. 5-20 | | iN=14-20 | | B | B0 | B1 | B2 | B3 | C1 | d | D |
|------|----------------|-----|----------------|-----|-------------|-----|----------|-----|------|----|-----|------|----|-------|-------|-------|
| | d1 | E1 | d1 | E1 | d1 | E1 | d1 | E1 | | | | | | | | |
| 13 | 100m6 | 210 | | | 85m6 | 170 | | | 1375 | 0 | 292 | 1270 | 52 | 105±2 | 200m6 | 190H7 |
| 14 | 100m6 | 210 | | | 85m6 | 170 | | | 1505 | 2 | 287 | 1410 | 47 | 105±2 | 220m6 | 210H7 |
| 15 | 120m6 | 210 | | | 100m6 | 210 | | | 1630 | 7 | 343 | 1515 | 57 | 125±2 | 240m6 | 230H7 |
| 16 | 120m6 | 210 | | | 100m6 | 210 | | | 1720 | 8 | 342 | 1605 | 57 | 125±2 | 250m6 | 240H7 |
| 17 | 125m6 | 210 | | | 110m6 | 210 | | | 1790 | 20 | 380 | 1675 | 57 | 135±2 | 260m6 | 250H7 |
| 18 | | | 125m6 | 210 | | | 110m6 | 210 | 1910 | 20 | 380 | 1795 | 57 | 135±2 | 280m6 | 275H7 |

| Size | D2 | D3 | E | f2 | G1 | G2 | G4 | H | H1 | h1 | h2 | h5 | K2 | N | P8 | P9 | R | S1 | Weight (kg) |
|------|-------|-------|-----|----|-----|-----|-----|-----|-----|-----|-------|-----|-----|-----|----|-----|-----|----|-------------|
| 13 | 190H7 | 190H7 | 350 | 35 | 330 | 335 | 480 | 440 | 435 | 635 | 272.5 | 210 | 720 | 550 | 50 | 130 | 395 | 48 | 2075 |
| 14 | 210H7 | 210H7 | 350 | 35 | 330 | 335 | 480 | 440 | 500 | 705 | 272.5 | 210 | 740 | 570 | 50 | 130 | 465 | 48 | 2825 |
| 15 | 230H7 | 230H7 | 410 | 32 | 365 | 380 | 550 | 500 | 500 | 762 | 310 | 230 | 820 | 640 | 50 | 130 | 467 | 55 | 3610 |
| 16 | 240H7 | 240H7 | 410 | 32 | 365 | 380 | 550 | 500 | 535 | 808 | 310 | 230 | 860 | 650 | 50 | 130 | 512 | 55 | 3970 |
| 17 | 250H7 | 250H7 | 410 | 42 | 420 | 415 | 600 | 550 | 555 | 860 | 340 | 250 | 900 | 690 | 70 | 170 | 492 | 55 | 4765 |
| 18 | 275H7 | 275H7 | 470 | 42 | 420 | 415 | 600 | 550 | 560 | 920 | 340 | 250 | 900 | 710 | 70 | 170 | 552 | 55 | 5265 |

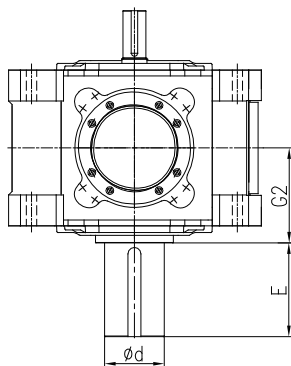
*The general mounting is up position, if down mounting position, please mention in the order.

H313V-H318V

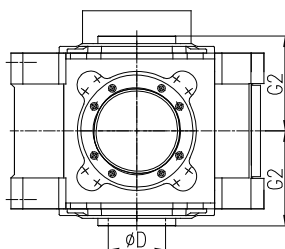
H3(With forced lubrication)



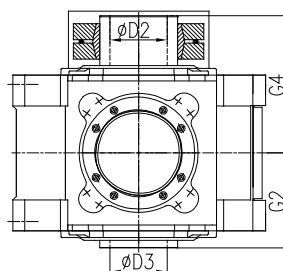
H3..VS
Parallel key solid shaft



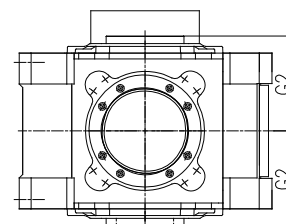
H3..VH
Parallel key hollow shaft



H3..VD
Hollow shaft with shrink disc



H3..VK
Hollow shaft with involute spline



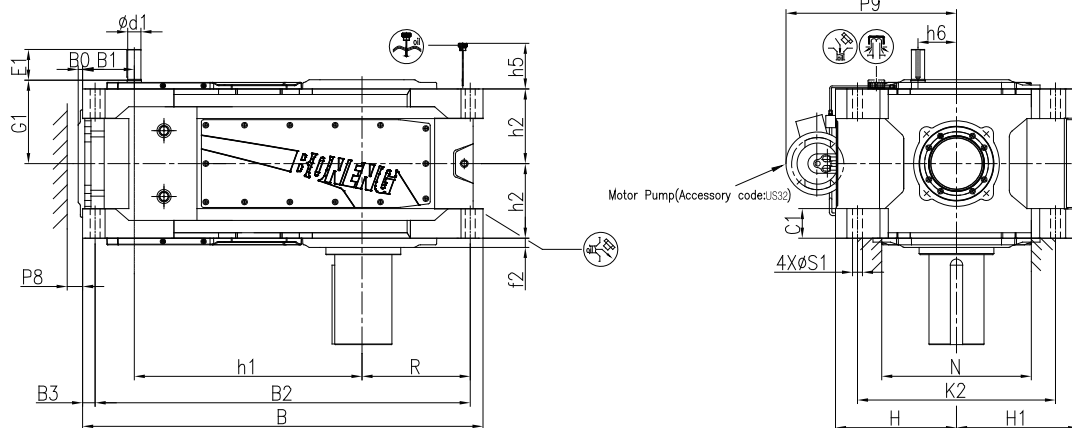
| Size | iN=14-45 | | iN=16-50 | | iN=50-100 | | iN=56-100 | | iN=56-112 | | B | B0 | B1 | B2 | B3 | C1 | d | D |
|------|----------|-----|----------|-----|-----------|-----|-----------|-----|-----------|-----|------|----|-----|------|----|-------|-------|-------|
| | d1 | E1 | d1 | E1 | d1 | E1 | d1 | E1 | d1 | E1 | | | | | | | | |
| 13 | | | 85m6 | 170 | | | 60m6 | 140 | | | 1470 | 0 | 207 | 1375 | 47 | 105±2 | 200m6 | 190H7 |
| 14 | | | 85m6 | 170 | | | 60m6 | 140 | | | 1610 | 0 | 207 | 1515 | 48 | 105±2 | 220m6 | 210H7 |
| 15 | | | 100m6 | 210 | | | | | 75m6 | 140 | 1760 | 0 | 249 | 1655 | 51 | 125±2 | 240m6 | 230H7 |
| 16 | | | 100m6 | 210 | | | | | 75m6 | 140 | 1850 | 2 | 247 | 1735 | 57 | 125±2 | 250m6 | 240H7 |
| 17 | 100m6 | 210 | | | 75m6 | 140 | | | | | 1820 | 14 | 235 | 1705 | 57 | 135±2 | 260m6 | 250H7 |
| 18 | | | 100m6 | 210 | | | | | 75m6 | 140 | 1940 | 14 | 235 | 1825 | 57 | 135±2 | 280n6 | 275H7 |

| Size | D2 | D3 | E | f2 | G1 | G2 | G4 | H | H1 | h1 | h2 | h5 | K2 | N | P8 | P9 | R | S1 | Weight (kg) |
|------|-------|-------|-----|----|-----|-----|-----|-----|-----|------|-------|-----|-----|-----|----|-----|-----|----|-------------|
| 13 | 190H7 | 190H7 | 350 | 35 | 325 | 335 | 480 | 440 | 435 | 820 | 272.5 | 210 | 720 | 570 | 50 | 170 | 395 | 48 | 2355 |
| 14 | 210H7 | 210H7 | 350 | 35 | 325 | 335 | 480 | 440 | 500 | 890 | 272.5 | 210 | 740 | 570 | 50 | 170 | 465 | 48 | 2880 |
| 15 | 230H7 | 230H7 | 410 | 32 | 365 | 380 | 550 | 500 | 500 | 987 | 310 | 230 | 820 | 710 | 50 | 170 | 470 | 55 | 3640 |
| 16 | 240H7 | 240H7 | 410 | 32 | 365 | 380 | 550 | 500 | 535 | 1033 | 310 | 230 | 860 | 710 | 50 | 170 | 512 | 55 | 4195 |
| 17 | 250H7 | 250H7 | 410 | 42 | 400 | 415 | 600 | 550 | 555 | 1035 | 340 | 250 | 900 | 790 | 70 | 210 | 492 | 55 | 4670 |
| 18 | 275H7 | 275H7 | 470 | 42 | 400 | 415 | 600 | 550 | 560 | 1095 | 340 | 250 | 900 | 790 | 70 | 210 | 552 | 55 | 5165 |

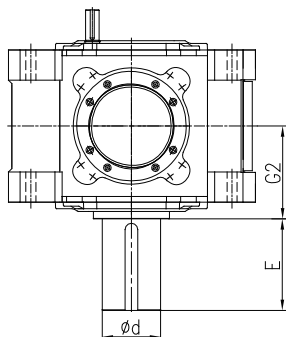
*The general mounting is up position, if down mounting position, please mention in the order.

H413V-H418V

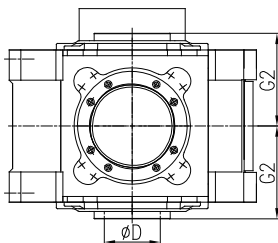
H4(With forced lubrication)



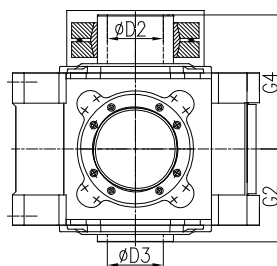
H4..VS
Parallel key solid shaft



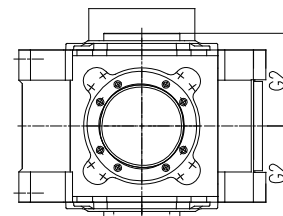
H4..VH
Parallel key hollow shaft



H4..VD
Hollow shaft with shrink disc



H4..VK
Hollow shaft with involute spline

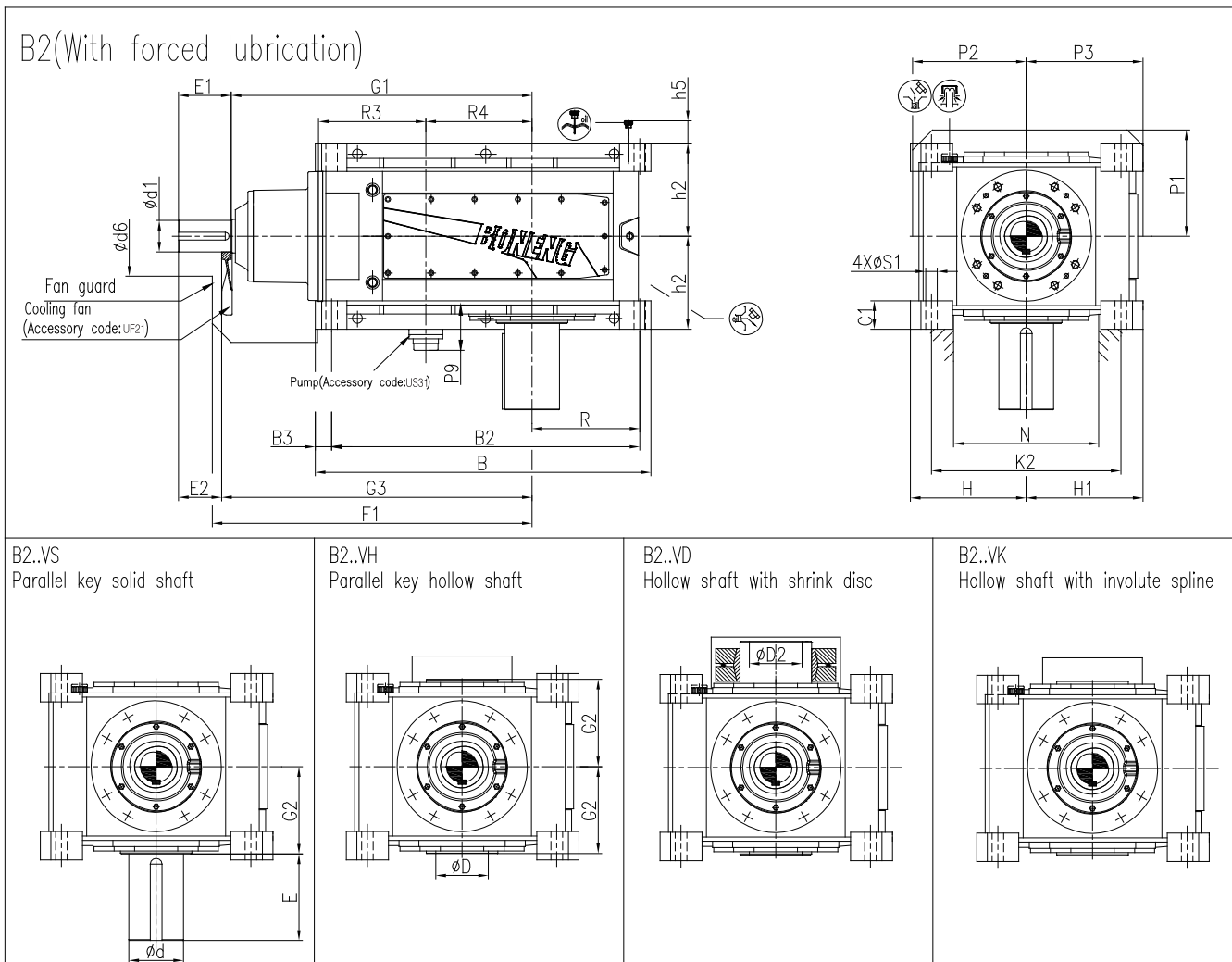


| Size | iN=63-200 | | iN=71-224 | | iN=224-400 | | iN=250-450 | | B | B0 | B1 | B2 | B3 | C1 | d | D | D2 | D3 |
|------|-----------|-----|-----------|-----|------------|-----|------------|-----|------|----|-----|------|----|-------|-------|-------|-------|-------|
| | d1 | E1 | d1 | E1 | d1 | E1 | d1 | E1 | | | | | | | | | | |
| 13 | | | 50k6 | 110 | | | 38k6 | 80 | 1470 | 0 | 207 | 1375 | 47 | 105±2 | 200m6 | 190H7 | 190H7 | 190H7 |
| 14 | | | 50k6 | 110 | | | 38k6 | 80 | 1610 | 0 | 207 | 1515 | 48 | 105±2 | 220m6 | 210H7 | 210H7 | 210H7 |
| 15 | | | 60m6 | 140 | | | 50k6 | 110 | 1760 | 0 | 249 | 1655 | 51 | 125±2 | 240m6 | 230H7 | 230H7 | 230H7 |
| 16 | | | 60m6 | 140 | | | 50k6 | 110 | 1850 | 2 | 247 | 1735 | 57 | 125±2 | 250m6 | 240H7 | 240H7 | 240H7 |
| 17 | 60m6 | 140 | | | 50k6 | 110 | | | 1820 | 14 | 235 | 1705 | 57 | 135±2 | 260m6 | 250H7 | 250H7 | 250H7 |
| 18 | | | 60m6 | 140 | | | 50k6 | 110 | 1940 | 14 | 235 | 1825 | 57 | 135±2 | 280n6 | 275H7 | 275H7 | 275H7 |

| Size | E | f2 | G1 | G2 | G4 | H | H1 | h1 | h2 | h5 | h6 | K2 | N | P8 | P9 | R | S1 | Weight (kg) |
|------|-----|----|-----|-----|-----|-----|-----|------|-------|-----|-----|-----|-----|----|-----|-----|----|-------------|
| 13 | 350 | 35 | 305 | 335 | 480 | 440 | 435 | 820 | 272.5 | 210 | 140 | 720 | 570 | 50 | 670 | 395 | 48 | 2450 |
| 14 | 350 | 35 | 305 | 335 | 480 | 440 | 500 | 890 | 272.5 | 210 | 140 | 740 | 570 | 50 | 670 | 465 | 48 | 2995 |
| 15 | 410 | 32 | 345 | 380 | 550 | 500 | 500 | 987 | 310 | 230 | 175 | 820 | 710 | 50 | 710 | 470 | 55 | 3810 |
| 16 | 410 | 32 | 345 | 380 | 550 | 500 | 535 | 1033 | 310 | 230 | 175 | 860 | 710 | 50 | 710 | 512 | 55 | 4290 |
| 17 | 410 | 42 | 380 | 415 | 600 | 550 | 555 | 1035 | 340 | 250 | 175 | 900 | 790 | 70 | 775 | 492 | 55 | 4795 |
| 18 | 470 | 42 | 380 | 415 | 600 | 550 | 560 | 1095 | 340 | 250 | 175 | 900 | 790 | 70 | 775 | 552 | 55 | 5325 |

*The general mounting is up position, if down mounting position, please mention in the order.

B213V-B218V



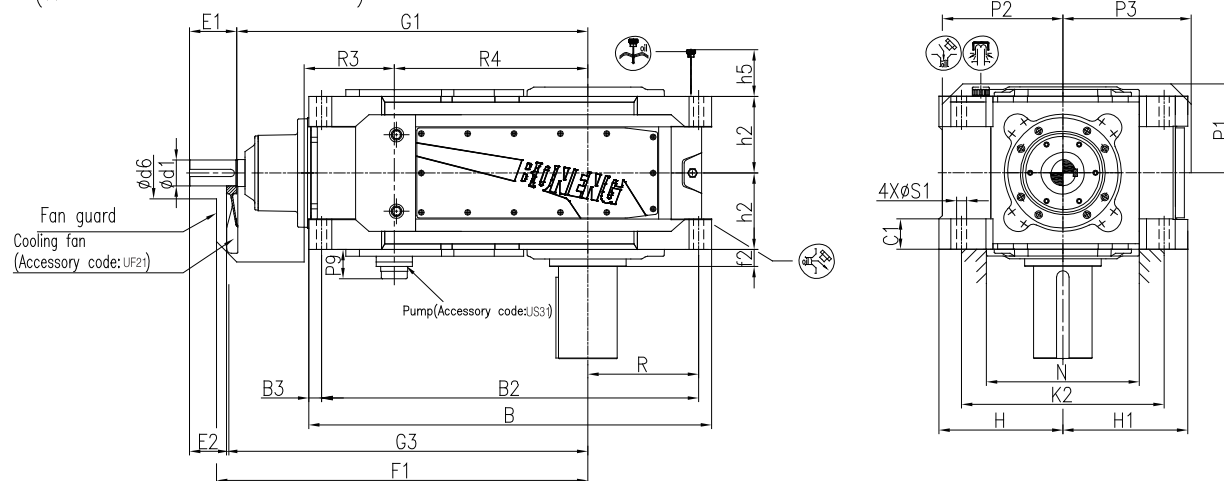
| Size | iN=6.3-14 | | | iN=7.1-14 | | | B | B2 | B3 | C1 | d | d6 | D | D2 | D3 | E | F1 | f 2 | G1 |
|------|-----------|-----|-----|-----------|-----|-----|------|------|----|-------|-------|-----|-------|-------|-------|-----|------|-----|------|
| | d1 | E1 | E2 | d1 | E1 | E2 | | | | | | | | | | | | | |
| 13 | 115m6 | 210 | 175 | | | | 1205 | 1110 | 47 | 105±2 | 200m6 | 245 | 190H7 | 190H7 | 190H7 | 350 | 1175 | 35 | 1092 |
| 14 | 115m6 | 210 | 175 | | | | 1345 | 1250 | 47 | 105±2 | 220m6 | 245 | 210H7 | 210H7 | 210H7 | 350 | 1245 | 35 | 1170 |
| 15 | 140m6 | 250 | 200 | | | | 1430 | 1315 | 57 | 125±2 | 240m6 | 280 | 230H7 | 230H7 | 230H7 | 410 | 1385 | 32 | 1305 |
| 16 | 140m6 | 250 | 200 | | | | 1520 | 1405 | 57 | 125±2 | 250m6 | 280 | 240H7 | 240H7 | 240H7 | 410 | 1430 | 32 | 1330 |
| 17 | 150m6 | 250 | 200 | | | | 1595 | 1465 | 65 | 135±2 | 260m6 | 380 | 250H7 | 250H7 | 250H7 | 410 | 1520 | 42 | 1450 |
| 18 | | | | 150m6 | 250 | 200 | 1715 | 1585 | 65 | 135±2 | 280m6 | 380 | 275H7 | 275H7 | 275H7 | 470 | 1580 | 42 | 1515 |

| Size | G2 | G3 | G4 | H | H1 | h2 | h5 | K2 | N | P1 | P2 | P3 | P9 | R | R3 | R4 | S1 | Weight (kg) |
|------|-----|------|-----|-----|-----|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-------------|
| 13 | 335 | 1127 | 480 | 440 | 430 | 325 | 210 | 720 | 550 | 375 | 430 | 450 | 200 | 395 | 370 | 392 | 48 | 2530 |
| 14 | 335 | 1205 | 480 | 440 | 445 | 325 | 210 | 740 | 570 | 375 | 430 | 450 | 200 | 465 | 370 | 470 | 48 | 2945 |
| 15 | 380 | 1355 | 550 | 500 | 500 | 380 | 230 | 820 | 590 | 435 | 490 | 495 | 200 | 467 | 442 | 470 | 55 | 4230 |
| 16 | 380 | 1380 | 550 | 500 | 535 | 380 | 230 | 860 | 650 | 435 | 490 | 495 | 200 | 512 | 442 | 495 | 55 | 4750 |
| 17 | 415 | 1500 | 600 | 550 | 555 | 437.5 | 250 | 900 | 690 | 505 | 540 | 555 | 200 | 512 | 490 | 505 | 55 | 5990 |
| 18 | 415 | 1565 | 600 | 550 | 560 | 437.5 | 250 | 900 | 710 | 505 | 540 | 555 | 200 | 572 | 490 | 570 | 55 | 6555 |

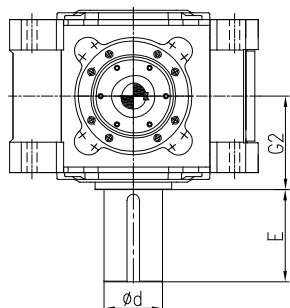
*The general mounting is up position, if down mounting position, please mention in the order.

B313V-B318V

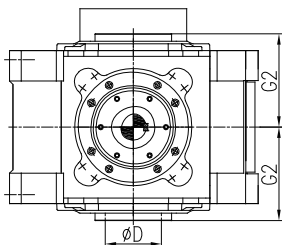
B3(With forced lubrication)



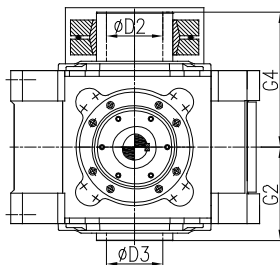
B3..VS
Parallel key solid shaft



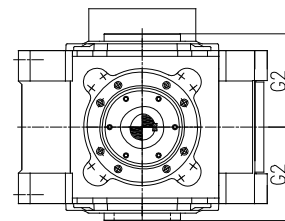
B3..VH
Parallel key hollow shaft



B3..VD
Hollow shaft with shrink disc



B3..VK
Hollow shaft with involute spline



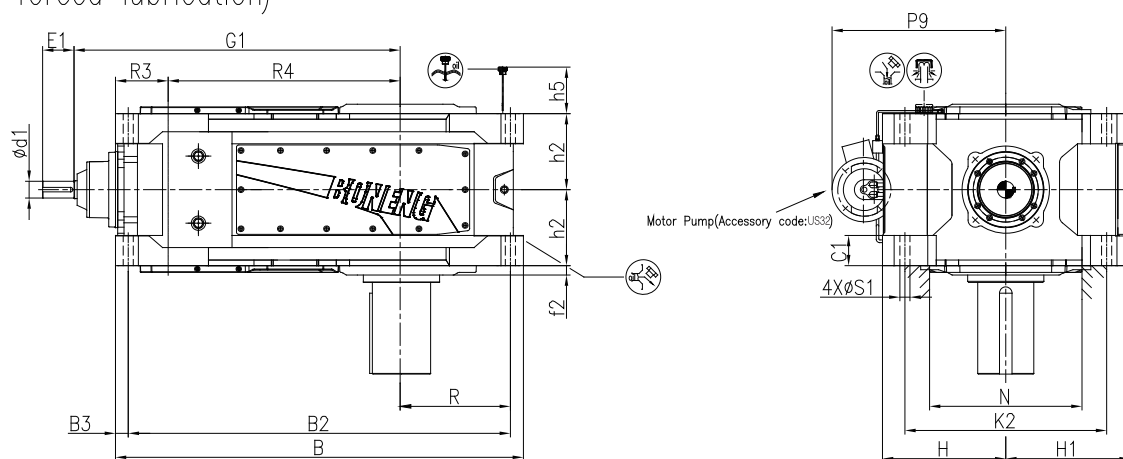
| Size | iN=16-56 | | | iN=16-63 | | | iN=63-80 | | | iN=71-90 | | | B | B2 | B3 | C1 | d | d6 | D | D2 | D3 |
|------|----------|-----|-----|----------|-----|-----|----------|-----|-----|----------|-----|-----|------|------|----|-------|-------|-----|-------|-------|-------|
| | d1 | E1 | E2 | d1 | E1 | E2 | d1 | E1 | E2 | d1 | E1 | E2 | | | | | | | | | |
| 13 | | | | 85m6 | 170 | 135 | | | | 70m6 | 140 | 105 | 1365 | 1270 | 52 | 105±2 | 200m6 | 210 | 190H7 | 190H7 | 190H7 |
| 14 | | | | 85m6 | 170 | 135 | | | | 70m6 | 140 | 105 | 1505 | 1410 | 47 | 105±2 | 220m6 | 210 | 210H7 | 210H7 | 210H7 |
| 15 | | | | 95m6 | 170 | 135 | | | | 75m6 | 140 | 105 | 1630 | 1515 | 57 | 125±2 | 240m6 | 210 | 230H7 | 230H7 | 230H7 |
| 16 | | | | 95m6 | 170 | 135 | | | | 75m6 | 140 | 105 | 1720 | 1605 | 57 | 125±2 | 250m6 | 210 | 240H7 | 240H7 | 240H7 |
| 17 | 115m6 | 210 | 175 | | | | 90m6 | 170 | 135 | | | | 1790 | 1675 | 57 | 135±2 | 260m6 | 230 | 250H7 | 250H7 | 250H7 |
| 18 | | | | 115m6 | 210 | 175 | | | | 90m6 | 170 | 135 | 1910 | 1795 | 57 | 135±2 | 280m6 | 230 | 275H7 | 275H7 | 275H7 |

| Size | E | F1 | f2 | G1 | G2 | G3 | G4 | H | H1 | h2 | h5 | K2 | N | P1 | P2 | P3 | P9 | R | R3 | R4 | S1 | Weight (kg) |
|------|-----|------|----|------|-----|------|-----|-----|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-------------|
| 13 | 350 | 1165 | 35 | 1110 | 335 | 1145 | 480 | 440 | 635 | 272. | 5210 | 720 | 550 | 325 | 425 | 435 | 170 | 395 | 265 | 635 | 48 | 2470 |
| 14 | 350 | 1235 | 35 | 1180 | 335 | 1215 | 480 | 440 | 705 | 272. | 5210 | 740 | 570 | 325 | 425 | 435 | 170 | 465 | 265 | 705 | 48 | 3025 |
| 15 | 410 | 1420 | 32 | 1367 | 380 | 1402 | 550 | 500 | 762 | 310 | 230 | 820 | 640 | 365 | 485 | 520 | 170 | 467 | 320 | 762 | 55 | 3925 |
| 16 | 410 | 1470 | 32 | 1413 | 380 | 1448 | 550 | 500 | 808 | 310 | 230 | 860 | 650 | 365 | 485 | 520 | 170 | 512 | 320 | 808 | 55 | 4295 |
| 17 | 410 | 1620 | 42 | 1560 | 415 | 1595 | 600 | 550 | 860 | 340 | 250 | 900 | 690 | 395 | 535 | 570 | 170 | 492 | 370 | 860 | 55 | 5110 |
| 18 | 470 | 1680 | 42 | 1620 | 415 | 1655 | 600 | 550 | 920 | 340 | 250 | 900 | 710 | 395 | 535 | 570 | 170 | 552 | 370 | 920 | 55 | 5645 |

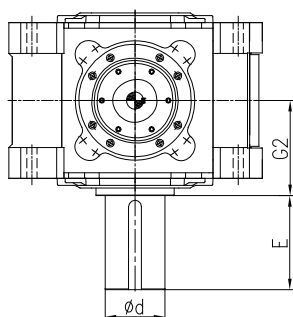
*The general mounting is up position, if down mounting position, please mention in the order.

B413V-B418V

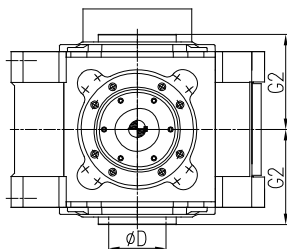
B4(With forced lubrication)



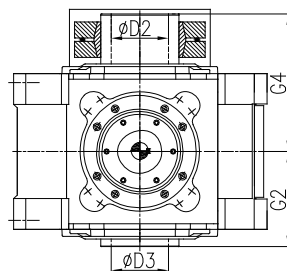
B4..VS
Parallel key solid shaft



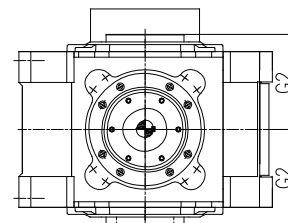
B4..VH
Parallel key hollow shaft



B4..VD
Hollow shaft with shrink disc



B4..VK
Hollow shaft with involute spline

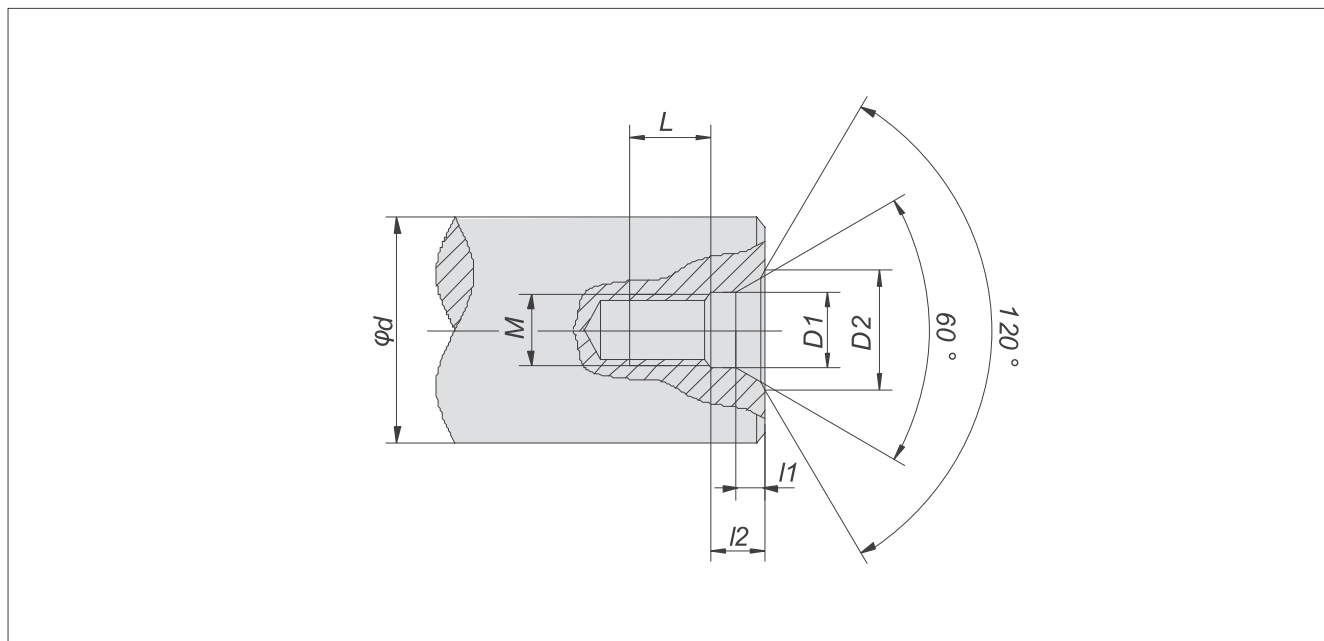


| Size | iN=90-250 | | iN=100-280 | | iN=280-355 | | iN=315-400 | | B | B2 | B3 | C1 | d | D | D2 | D3 |
|------|-----------|-----|------------|-----|------------|-----|------------|-----|------|------|----|-------|-------|-------|-------|-------|
| | d1 | E1 | d1 | E1 | d1 | E1 | d1 | E1 | | | | | | | | |
| 13 | | | 60m6 | 140 | | | 50k6 | 110 | 1470 | 1375 | 47 | 105±2 | 200m6 | 190H7 | 190H7 | 190H7 |
| 14 | | | 60m6 | 140 | | | 50k6 | 110 | 1610 | 1515 | 48 | 105±2 | 220m6 | 210H7 | 210H7 | 210H7 |
| 15 | | | 75m6 | 140 | | | 60m6 | 140 | 1760 | 1655 | 51 | 125±2 | 240m6 | 230H7 | 230H7 | 230H7 |
| 16 | | | 75m6 | 140 | | | 60m6 | 140 | 1850 | 1735 | 57 | 125±2 | 250m6 | 240H7 | 240H7 | 240H7 |
| 17 | 75m6 | 140 | | | 60m6 | 140 | | | 1820 | 1705 | 57 | 135±2 | 260m6 | 250H7 | 250H7 | 250H7 |
| 18 | | | 75m6 | 140 | | | 60m6 | 140 | 1940 | 1825 | 57 | 135±2 | 280m6 | 275H7 | 275H7 | 275H7 |

| Size | E | f2 | G1 | G2 | G4 | H | H1 | h2 | h5 | K2 | N | P9 | R | R4 | S1 | Weight (kg) |
|------|-----|----|------|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|------|----|-------------|
| 13 | 350 | 35 | 1170 | 335 | 480 | 440 | 435 | 272.5 | 210 | 720 | 570 | 670 | 395 | 820 | 48 | 2455 |
| 14 | 350 | 35 | 1240 | 335 | 480 | 440 | 500 | 272.5 | 210 | 740 | 570 | 670 | 465 | 890 | 48 | 3000 |
| 15 | 410 | 32 | 1407 | 380 | 550 | 500 | 500 | 310 | 230 | 820 | 710 | 710 | 470 | 987 | 55 | 3805 |
| 16 | 410 | 32 | 1453 | 380 | 550 | 500 | 535 | 310 | 230 | 860 | 710 | 710 | 512 | 1033 | 55 | 4315 |
| 17 | 410 | 42 | 1455 | 415 | 600 | 550 | 555 | 340 | 250 | 900 | 790 | 775 | 492 | 1035 | 55 | 4810 |
| 18 | 470 | 42 | 1515 | 415 | 600 | 550 | 560 | 340 | 250 | 900 | 790 | 775 | 552 | 1095 | 55 | 5340 |

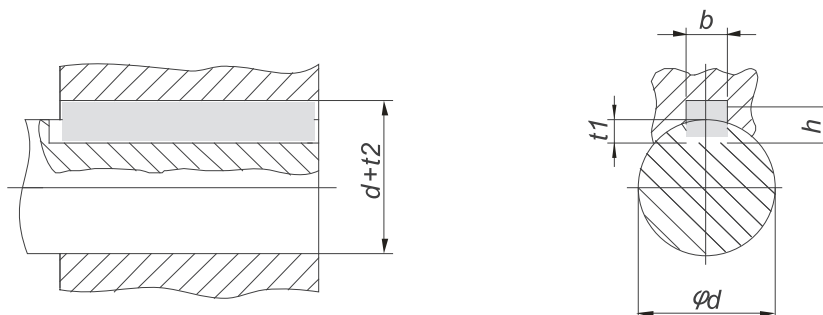
*The general mounting is up position, if down mounting position, please mention in the order.

12 Shaft end central hole:



| d | M | L | l2 | l1 | D1 | D2 |
|--------------------|-----|----|-----|-----|------|------|
| $7 < d \leq 10$ | M3 | 10 | 2.6 | 1.8 | 3.2 | 5.8 |
| $10 < d \leq 13$ | M4 | 10 | 3.2 | 2.1 | 4.3 | 7.4 |
| $13 < d \leq 16$ | M5 | 10 | 4 | 2.4 | 5.3 | 8.8 |
| $16 < d \leq 21$ | M6 | 12 | 5 | 2.8 | 6.4 | 10.5 |
| $21 < d \leq 24$ | M8 | 12 | 6 | 3.3 | 8.4 | 13.2 |
| $24 < d \leq 30$ | M10 | 15 | 7.5 | 3.8 | 10.5 | 16.3 |
| $30 < d \leq 38$ | M12 | 20 | 9.5 | 4.4 | 13 | 19.8 |
| $38 < d \leq 50$ | M16 | 25 | 12 | 5.2 | 17 | 25.3 |
| $50 < d \leq 85$ | M20 | 30 | 15 | 6.4 | 21 | 31.3 |
| $85 < d \leq 130$ | M24 | 35 | 18 | 8 | 26 | 38 |
| $130 < d \leq 225$ | M30 | 45 | 18 | 11 | 31 | 48 |
| $225 < d \leq 320$ | M36 | 55 | 22 | 15 | 37 | 60 |
| $320 < d \leq 500$ | M42 | 60 | 26 | 19 | 43 | 71 |
| $500 < d \leq 710$ | M48 | 65 | 30 | 23 | 49 | 83 |

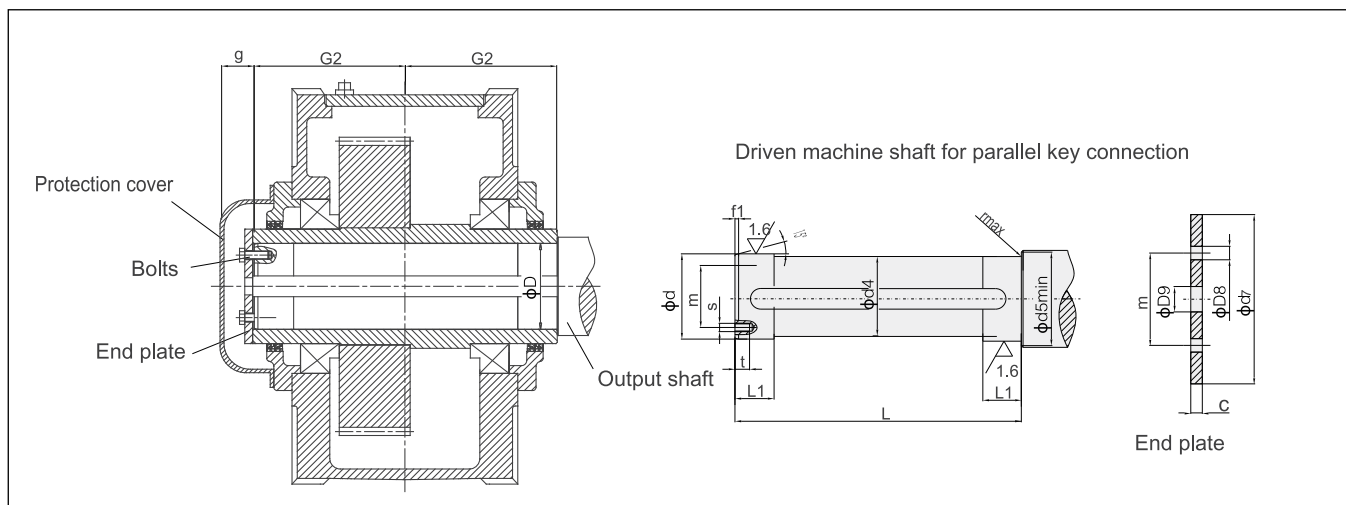
13 Dimension of parallel key and keyway:



| d | b | h | t ₁ | d + t ₂ |
|---------------|-----|----|----------------|--------------------|
| 8 < d ≤ 10 | 3 | 3 | 1.8 | d + 1.4 |
| 10 < d ≤ 12 | 4 | 4 | 2.5 | d + 1.8 |
| 12 < d ≤ 17 | 5 | 5 | 3 | d + 2.3 |
| 17 < d ≤ 22 | 6 | 6 | 3.5 | d + 2.8 |
| 22 < d ≤ 30 | 8 | 7 | 4 | d + 3.3 |
| 30 < d ≤ 38 | 10 | 8 | 5 | d + 3.3 |
| 38 < d ≤ 44 | 12 | 8 | 5 | d + 3.3 |
| 44 < d ≤ 50 | 14 | 9 | 5.5 | d + 3.8 |
| 50 < d ≤ 58 | 16 | 10 | 6 | d + 4.3 |
| 58 < d ≤ 65 | 18 | 11 | 7 | d + 4.4 |
| 65 < d ≤ 75 | 20 | 12 | 7.5 | d + 4.9 |
| 75 < d ≤ 85 | 22 | 14 | 9 | d + 5.4 |
| 85 < d ≤ 95 | 25 | 14 | 9 | d + 5.4 |
| 95 < d ≤ 110 | 28 | 16 | 10 | d + 6.4 |
| 110 < d ≤ 130 | 32 | 18 | 11 | d + 7.4 |
| 130 < d ≤ 150 | 36 | 20 | 12 | d + 8.4 |
| 150 < d ≤ 170 | 40 | 22 | 13 | d + 9.4 |
| 170 < d ≤ 200 | 45 | 25 | 15 | d + 10.4 |
| 200 < d ≤ 230 | 50 | 28 | 17 | d + 11.4 |
| 230 < d ≤ 260 | 56 | 32 | 20 | d + 12.4 |
| 260 < d ≤ 290 | 63 | 32 | 20 | d + 12.4 |
| 290 < d ≤ 330 | 70 | 36 | 22 | d + 14.4 |
| 330 < d ≤ 380 | 80 | 40 | 25 | d + 15.4 |
| 380 < d ≤ 440 | 90 | 45 | 28 | d + 17.4 |
| 440 < d ≤ 500 | 100 | 50 | 31 | d + 19.5 |
| 500 < d ≤ 560 | 110 | 56 | 34.3 | d + 22.2 |
| 560 < d ≤ 640 | 120 | 63 | 39 | d + 24.5 |

14 Suggested output connection dimensions:

14.1 Hollow shaft with parallel key connection:



Type H2...H,H3...H,H4...H,B3...H,B4...H(Size 13-18)

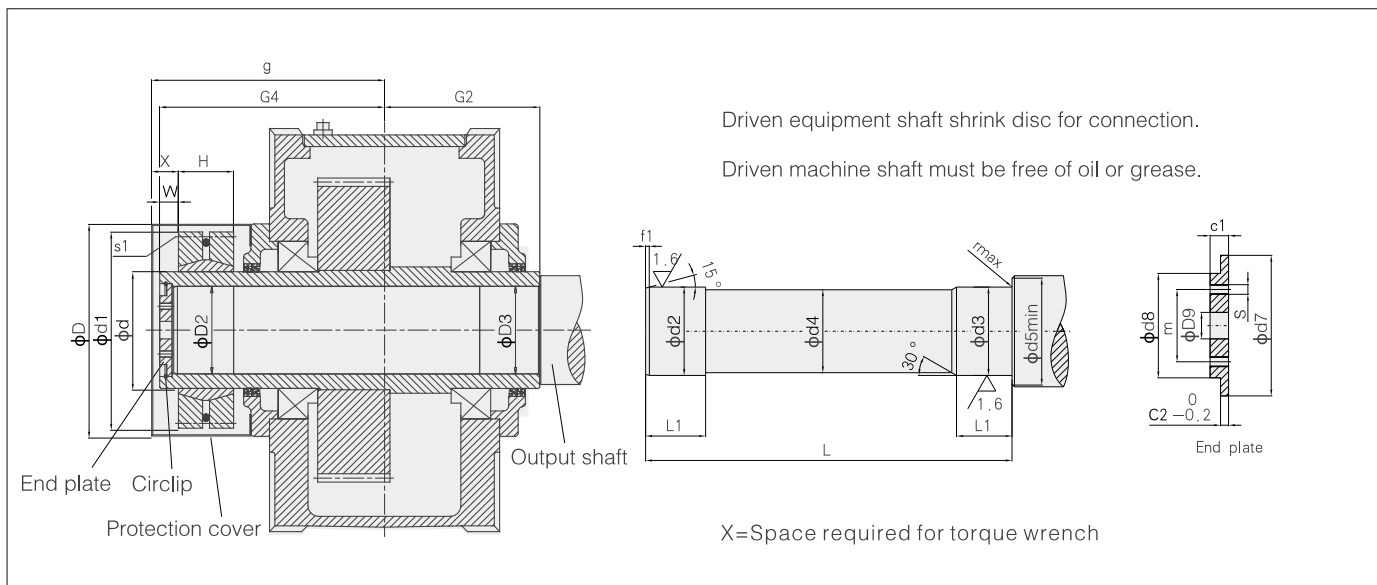
| Size | Driven equipment shaft | | | | | | | | | End plate | | | | | Bolt | | Hollow shaft | | |
|------|------------------------|-------|-----|----|-----|-----|---|-----|----|-----------|------|----|-----|-----|--------|--------|--------------|-----|------|
| | d | d4 | d5 | f1 | L | L1 | r | s | t | c | D8 | D9 | d7 | m | Size | Number | D | G2 | g |
| 13 | 190h6 | 189.5 | 206 | 7 | 667 | 80 | 3 | M16 | 28 | 18 | 17.5 | 33 | 230 | 140 | M16x40 | 2 | 190H7 | 335 | 42.5 |
| 14 | 210h6 | 209.5 | 226 | 8 | 667 | 85 | 3 | M16 | 28 | 18 | 17.5 | 33 | 250 | 160 | M16x40 | 2 | 210H7 | 335 | 42.5 |
| 15 | 230h6 | 229.5 | 248 | 8 | 756 | 100 | 3 | M20 | 38 | 25 | 22 | 39 | 270 | 180 | M20x55 | 4 | 230H7 | 380 | 57 |
| 16 | 240h6 | 239.5 | 258 | 8 | 756 | 100 | 3 | M20 | 38 | 25 | 22 | 39 | 280 | 180 | M20x55 | 4 | 240H7 | 380 | 57 |
| 17 | 250h6 | 249.5 | 270 | 8 | 826 | 110 | 4 | M20 | 38 | 25 | 22 | 39 | 300 | 190 | M20x55 | 4 | 250H7 | 415 | 57 |
| 18 | 275h6 | 274.5 | 295 | 9 | 826 | 120 | 4 | M20 | 38 | 25 | 22 | 39 | 330 | 210 | M20x55 | 4 | 275H7 | 415 | 57 |

Type B2...H(Size 13-18)

| Size | Driven equipment shaft | | | | | | | | | End plate | | | | | Bolt | | Hollow shaft | | |
|------|------------------------|-------|-----|----|-----|-----|---|-----|----|-----------|------|----|-----|-----|--------|--------|--------------|-----|----|
| | d | d4 | d5 | f1 | L | L1 | r | s | t | c | D8 | D9 | d7 | m | Size | Number | D | G2 | g |
| 13 | 190h6 | 189.5 | 206 | 7 | 667 | 80 | 3 | M16 | 28 | 18 | 17.5 | 33 | 230 | 140 | M16x40 | 2 | 190H7 | 335 | 65 |
| 14 | 210h6 | 209.5 | 226 | 8 | 667 | 85 | 3 | M16 | 28 | 18 | 17.5 | 33 | 250 | 160 | M16x40 | 2 | 210H7 | 335 | 65 |
| 15 | 230h6 | 229.5 | 248 | 8 | 756 | 100 | 3 | M20 | 38 | 25 | 22 | 39 | 270 | 180 | M20x55 | 4 | 230H7 | 380 | 92 |
| 16 | 240h6 | 239.5 | 258 | 8 | 756 | 100 | 3 | M20 | 38 | 25 | 22 | 39 | 280 | 180 | M20x55 | 4 | 240H7 | 380 | 92 |
| 17 | 250h6 | 249.5 | 270 | 8 | 826 | 110 | 4 | M20 | 38 | 25 | 22 | 39 | 300 | 190 | M20x55 | 4 | 250H7 | 415 | 97 |
| 18 | 275h6 | 274.5 | 295 | 9 | 826 | 120 | 4 | M20 | 38 | 25 | 22 | 39 | 330 | 210 | M20x55 | 4 | 275H7 | 415 | 97 |

- ⚠ Note: 1.Material of driven equipment shaft:40Cr or steel with higher strength.
 2.Shaft and parallel key of driven equipment are not within the scope of supply. Please order if required.
 3.Protection cover, end plate and bolts are supplied with gearbox as standard.

14.2 Hollow shaft for shrink Disks:



Types H2...D, H3...D, H4...D, B3...D, B4...D (size 13-18)

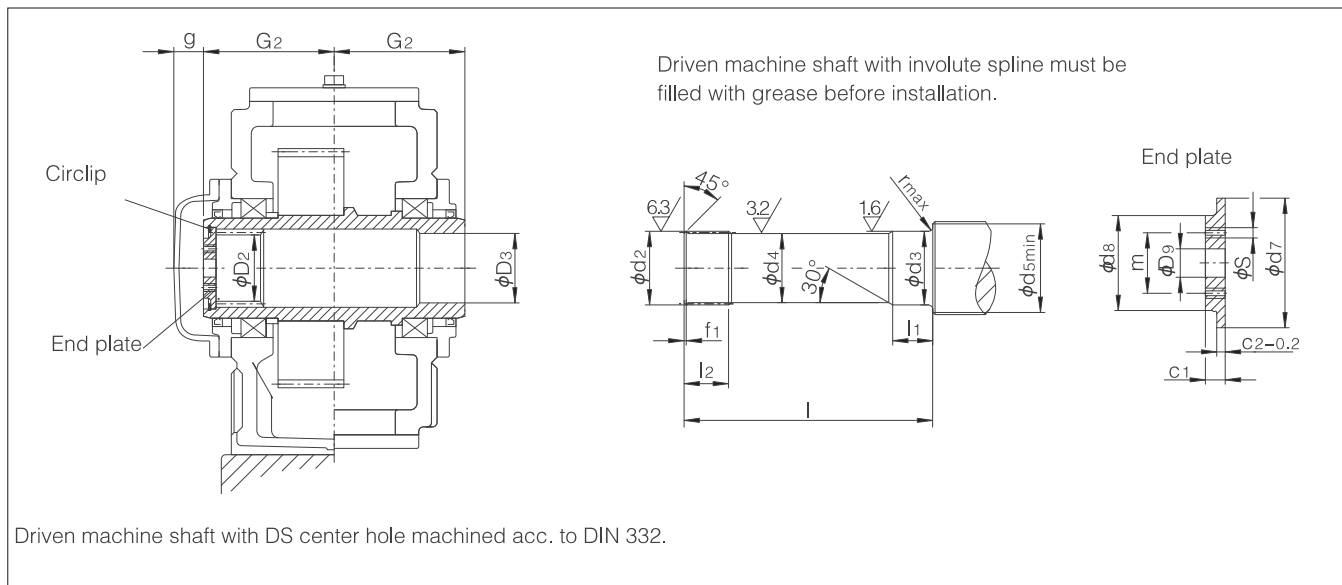
| Size | Driven equipment shaft | | | | | | | | End plate | | | | | | | | Circlip | Hollow shaft | | | | Shrink disc | | | | Bolt | Protection cover | | |
|------|------------------------|-------|-------|-----|----|-----|-----|---|-----------|----|-----|-----|----|-----|-----|--------|---------|--------------|-----|-----|-----|-------------|-----|-----|-----|------|------------------|-----|-------|
| | d2 | d3 | d4 | d5 | f1 | L | L1 | r | c1 | c2 | d7 | d8 | D9 | m | s | Number | | D2 | D3 | G2 | G4 | Type | d | d1 | H | | W | s1 | D |
| 13 | 190f6 | 190g6 | 189.5 | 213 | 7 | 789 | 137 | 5 | 23 | 10 | 200 | 150 | 33 | 110 | M16 | 2 | 200 | 190H7 | 190 | 335 | 480 | SP2-260 | 260 | 430 | 119 | 30 | M20 | 480 | 510.5 |
| 14 | 210f6 | 210g6 | 209.5 | 233 | 8 | 784 | 147 | 5 | 28 | 14 | 220 | 170 | 33 | 130 | M16 | 2 | 220 | 210H7 | 210 | 335 | 480 | SP2-280 | 280 | 460 | 132 | 30 | M20 | 480 | 510.5 |
| 15 | 230f6 | 230g6 | 229.5 | 253 | 8 | 899 | 157 | 5 | 28 | 14 | 240 | 180 | 39 | 140 | M16 | 2 | 240 | 230H7 | 230 | 380 | 550 | SP2-300 | 300 | 485 | 140 | 35 | M20 | 540 | 590 |
| 16 | 240f6 | 240g6 | 239.5 | 263 | 8 | 899 | 157 | 5 | 28 | 14 | 250 | 190 | 39 | 150 | M20 | 2 | 250 | 240H7 | 240 | 380 | 550 | SP2-320 | 320 | 520 | 140 | 35 | M20 | 540 | 590 |
| 17 | 250f6 | 250g6 | 249.5 | 278 | 8 | 982 | 177 | 5 | 30 | 14 | 265 | 200 | 39 | 150 | M20 | 2 | 265 | 250H7 | 250 | 415 | 600 | SP2-340 | 340 | 570 | 155 | 35 | M20 | 620 | 640 |
| 18 | 280f6 | 280g6 | 279.5 | 306 | 9 | 982 | 177 | 5 | 30 | 14 | 290 | 210 | 39 | 160 | M20 | 2 | 290 | 280H7 | 280 | 415 | 600 | SP2-360 | 360 | 590 | 162 | 35 | M24 | 620 | 640 |

Type B2...D(Size 13-18)

| Size | Driven equipment shaft | | | | | | | | End plate | | | | | | | | Circlip | Hollow shaft | | | | Shrink disc | | | | Bolt | Protection cover | | |
|------|------------------------|-------|-------|-----|----|-----|-----|---|-----------|----|-----|-----|----|-----|-----|--------|---------|--------------|-----|-----|-----|-------------|-----|-----|-----|------|------------------|-----|-----|
| | d2 | d3 | d4 | d5 | f1 | L | L1 | r | c1 | c2 | d7 | d8 | D9 | m | s | Number | | D2 | D3 | G2 | G4 | Type | d | d1 | H | | W | s1 | D |
| 13 | 190f6 | 190g6 | 189.5 | 213 | 7 | 789 | 137 | 5 | 23 | 10 | 200 | 150 | 33 | 110 | M16 | 2 | 200 | 190H7 | 190 | 335 | 480 | SP2-260 | 260 | 430 | 119 | 30 | M20 | 480 | 533 |
| 14 | 210f6 | 210g6 | 209.5 | 233 | 8 | 784 | 147 | 5 | 28 | 14 | 220 | 170 | 33 | 130 | M16 | 2 | 220 | 210H7 | 210 | 335 | 480 | SP2-280 | 280 | 460 | 132 | 30 | M20 | 480 | 533 |
| 15 | 230f6 | 230g6 | 229.5 | 253 | 8 | 899 | 157 | 5 | 28 | 14 | 240 | 180 | 39 | 140 | M16 | 2 | 240 | 230H7 | 230 | 380 | 550 | SP2-300 | 300 | 485 | 140 | 35 | M20 | 540 | 625 |
| 16 | 240f6 | 240g6 | 239.5 | 263 | 8 | 899 | 157 | 5 | 28 | 14 | 250 | 190 | 39 | 150 | M20 | 2 | 250 | 240H7 | 240 | 380 | 550 | SP2-320 | 320 | 520 | 140 | 35 | M20 | 540 | 625 |
| 17 | 250f6 | 250g6 | 249.5 | 278 | 8 | 982 | 177 | 5 | 30 | 14 | 265 | 200 | 39 | 150 | M20 | 2 | 265 | 250H7 | 250 | 415 | 600 | SP2-340 | 340 | 570 | 155 | 35 | M20 | 620 | 670 |
| 18 | 280f6 | 280g6 | 279.5 | 306 | 9 | 982 | 177 | 5 | 30 | 14 | 290 | 210 | 39 | 160 | M20 | 2 | 290 | 280H7 | 280 | 415 | 600 | SP2-360 | 360 | 590 | 162 | 35 | M24 | 620 | 670 |

- ⚠ Note: 1. Material of driven equipment shaft: 40cr or steel with higher strength.
 2. Driven equipment shaft is not in scope of supply, please order if required.
 3. Shrink disc, protection cover, end plate and circlip are supplied with gearbox as standard.
 4. Driven machine shaft must be free of oil or grease.

14.3 Hollow shaft with involute spline:



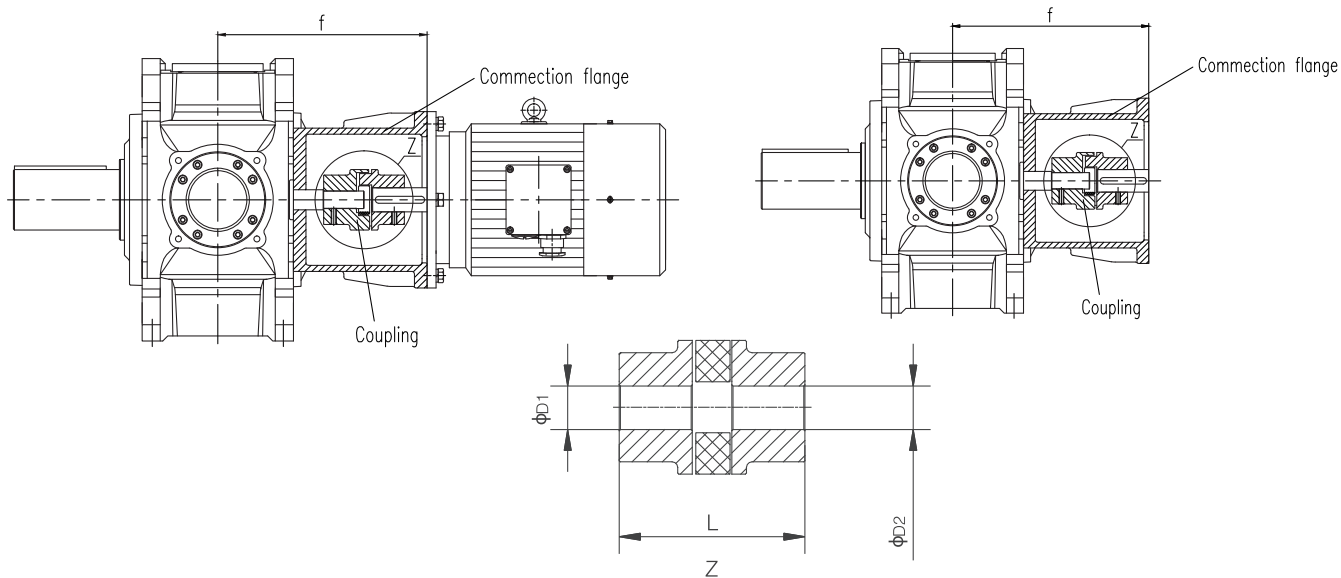
Types H2...K, H3...K, H4...K, B2...K, B3...K, B4...K (size 13-18)

| Size | Involute splines DIN5480 | Driven equipment shaft | | | | | | | | | | End plate | | | | | | | | Circlip | Hollow shaft | | | | Bolt s1 |
|-------|-----------------------------|------------------------|-------|-----|-----|----|-----|-----|-----|---|----|-----------|-------|-----|----|-----|-----|--------|-----|---------|--------------|-----|------|-----|------------|
| | | d2 | d3 | d4 | d5 | f1 | L | L1 | L2 | r | c1 | c2 | d7 | d8 | D9 | m | s | Number | D2 | | D3 | G2 | G | | |
| 13 | W190x5x30x36x8f | 189h11 | 195g6 | 188 | 213 | 5 | 644 | 137 | 180 | 5 | 23 | 10 | 200d9 | 150 | 33 | 110 | M16 | 2 | 200 | 180H11 | 195H7 | 335 | 42.5 | M30 | |
| 14 | W190x5x30x36x8f | 189h11 | 215g6 | 188 | 233 | 5 | 644 | 147 | 180 | 5 | 23 | 10 | 200d9 | 150 | 33 | 110 | M16 | 2 | 200 | 180H11 | 215H7 | 335 | 42.5 | M20 | |
| 15-18 | On request | | | | | | | | | | | | | | | | | | | | | | | | |

- ⚠ Note:
1. Material of driven equipment shaft: 40cr or steel with higher strength.
 2. Driven equipment shaft is not in scope of supply, please order if required.
 3. Shrink disc, protection cover, end plate and circlip are supplied with gearbox as standard.
 4. Driven machine shaft with involute spline must be filled with grease before installation.

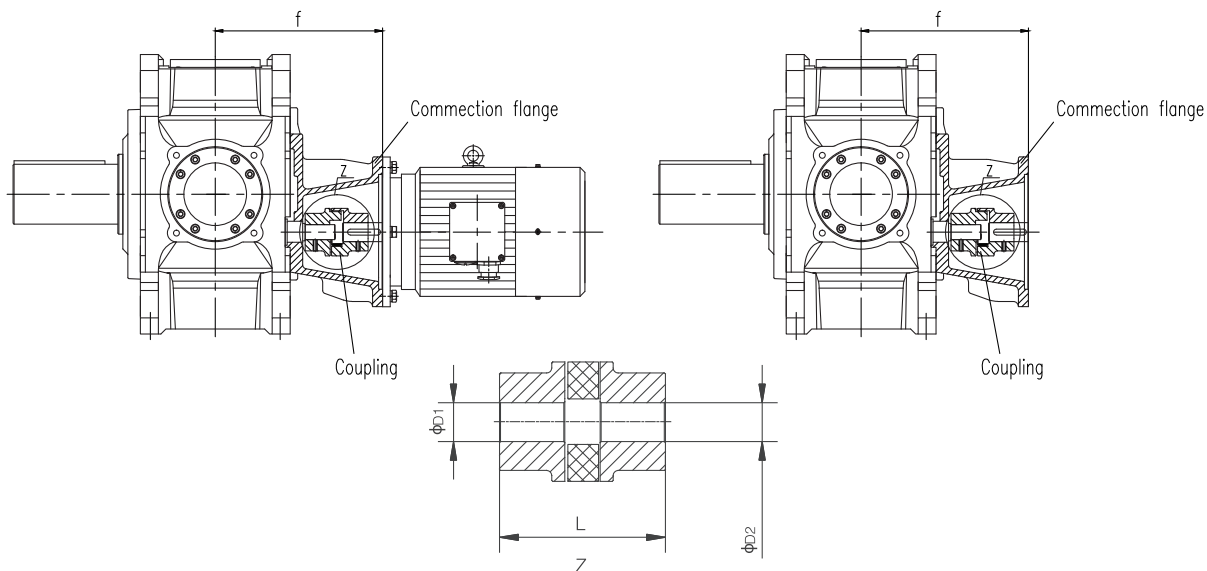
15 Input with motor and flange input(Code:AF)

H3



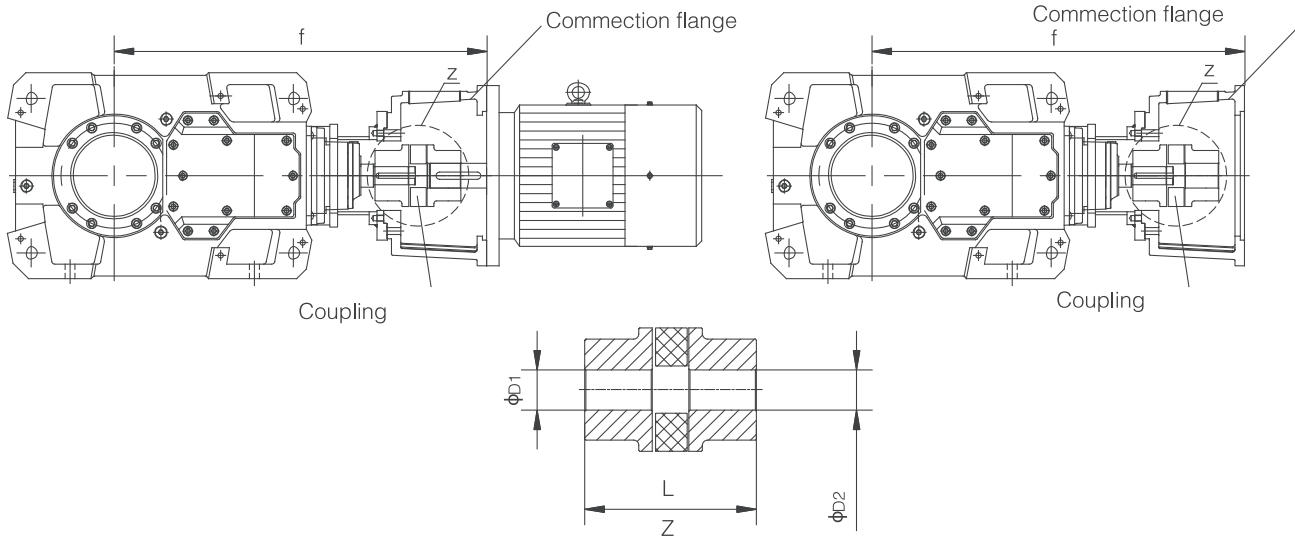
| H3 | | | iN≤50 (Size: 13, 14, 15, 16, 18) iN≤45 (Size: 17) | | | | | iN≥56 (Size: 13, 14, 15, 16, 18) iN≥50 (Size: 17) | | | | |
|-------|---------|-----------|--|----|-----|-----|-------|--|----|-----|-----|-----|
| Size | M Motor | AF Flange | Coupling | | | | f | Coupling | | | | f |
| | | | Type | D1 | D2 | L | | Type | D1 | D2 | L | |
| 13/14 | 250 | | | | | | | GA75 | 60 | 65 | 210 | 615 |
| | 280 | | | | | | | GA75 | 60 | 75 | 210 | 615 |
| | 315 | GA90 | 85 | 80 | 245 | 675 | GA90 | 60 | 80 | 245 | 675 | |
| | 355 | GC110 | 85 | 95 | 185 | 675 | GC110 | 60 | 95 | 185 | 675 | |
| 15/16 | 250 | | | | | | | GA75 | 75 | 65 | 210 | 660 |
| | 280 | | | | | | | GA75 | 75 | 75 | 210 | 660 |
| | 315 | GC110 | 100 | 80 | 185 | 755 | GA90 | 75 | 80 | 245 | 755 | |
| | 355 | GC110 | 100 | 95 | 185 | 755 | GC110 | 75 | 95 | 185 | 755 | |
| 17/18 | 315 | | | | | | | GA90 | 75 | 80 | 245 | 725 |
| | 355 | GC110 | 100 | 95 | 185 | 790 | GC110 | 75 | 95 | 185 | 790 | |

H4



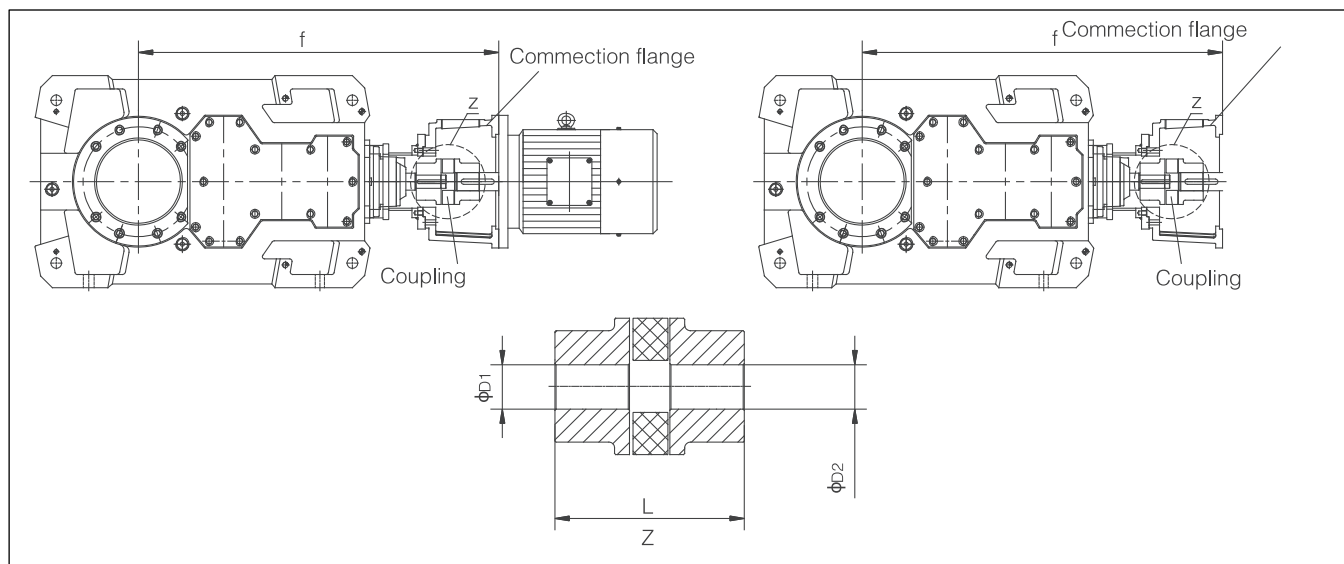
| H4 | | | iN ≤ 224 (Size: 13, 14, 15, 16, 18) iN ≤ 200 (Size: 17) | | | | iN ≥ 250 (Size: 13, 14, 15, 16, 18) iN ≥ 224 (Size: 17) | | | | | |
|-------|---------|-----------|--|----|----|-----|--|----------|----|-----|-----|-----|
| Size | M Motor | AF Flange | Coupling | | | | f | Coupling | | | | f |
| | | | Type | D1 | D2 | L | | Type | D1 | D2 | L | |
| 13/14 | 160 | | | | | | GA55 | 38 | 42 | 160 | 533 | |
| | 180 | | | | | | GA55 | 38 | 48 | 160 | 533 | |
| | 200 | | GA65 | 50 | 55 | 185 | 542 | GA65 | 38 | 55 | 185 | 542 |
| | 225 | | GA65 | 50 | 60 | 185 | 572 | GA65 | 38 | 60 | 185 | 572 |
| | 250 | | GA75 | 50 | 65 | 210 | 575 | GA75 | 38 | 65 | 210 | 575 |
| | 280 | | GA75 | 50 | 75 | 210 | 575 | | | | | |
| 15/16 | 200 | | | | | | GA65 | 50 | 55 | 185 | 617 | |
| | 225 | | GA65 | 60 | 60 | 185 | 647 | GA65 | 50 | 60 | 185 | 647 |
| | 250 | | GA75 | 60 | 65 | 210 | 650 | GA75 | 50 | 65 | 210 | 650 |
| | 280 | | GA75 | 60 | 75 | 210 | 650 | GA75 | 50 | 75 | 210 | 650 |
| 17/18 | 225 | | | | | | GA65 | 50 | 60 | 185 | 677 | |
| | 250 | | | | | | GA75 | 50 | 65 | 210 | 680 | |
| | 280 | | GA75 | 60 | 75 | 210 | 680 | GA75 | 50 | 75 | 210 | 680 |
| | 315 | | GA90 | 60 | 80 | 245 | 734 | GA90 | 50 | 80 | 245 | 734 |

B3



| B3 | | | iN≤63 (Size:13, 14, 15, 16, 18) iN≤56 (Size:17) | | | | | iN≥71 (Size:13, 14, 15, 16, 18) iN≥63 (Size:17) | | | | |
|------|---------|-----------|--|----|-----|------|-------|--|----|-----|------|---|
| Size | M Motor | AF Flange | Coupling | | | | f | Coupling | | | | f |
| | | | Type | D1 | D2 | L | | Type | D1 | D2 | L | |
| 13 | 250 | | | | | | GA75 | 70 | 65 | 210 | 1420 | |
| | 280 | | | | | | GA75 | 70 | 75 | 210 | 1420 | |
| | 315 | GA90 | 85 | 80 | 245 | 1474 | GA90 | 70 | 80 | 245 | 1474 | |
| | 355 | GC110 | 85 | 95 | 185 | 1474 | GC110 | 70 | 95 | 185 | 1474 | |
| 14 | 250 | | | | | | GA75 | 70 | 65 | 210 | 1490 | |
| | 280 | | | | | | GA75 | 70 | 75 | 210 | 1490 | |
| | 315 | GA90 | 85 | 80 | 245 | 1544 | GA90 | 70 | 80 | 245 | 1544 | |
| | 355 | GC110 | 85 | 95 | 185 | 1544 | GC110 | 70 | 95 | 185 | 1544 | |
| 15 | 315 | GC110 | 95 | 80 | 185 | 1731 | GA90 | 75 | 80 | 245 | 1731 | |
| | 355 | GC110 | 95 | 95 | 185 | 1731 | GC110 | 75 | 95 | 185 | 1731 | |
| 16 | 315 | GC110 | 95 | 80 | 185 | 1777 | GA90 | 75 | 80 | 245 | 1777 | |
| | 355 | GC110 | 95 | 95 | 185 | 1777 | GC110 | 75 | 95 | 185 | 1777 | |
| 17 | 315 | | | | | | GA90 | 90 | 80 | 245 | 1959 | |
| | 355 | GC110 | 115 | 95 | 185 | 1959 | GC110 | 90 | 95 | 185 | 1959 | |
| 18 | 315 | | | | | | GA90 | 90 | 80 | 245 | 2019 | |
| | 355 | GC110 | 115 | 95 | 185 | 2019 | GC110 | 90 | 95 | 185 | 2019 | |

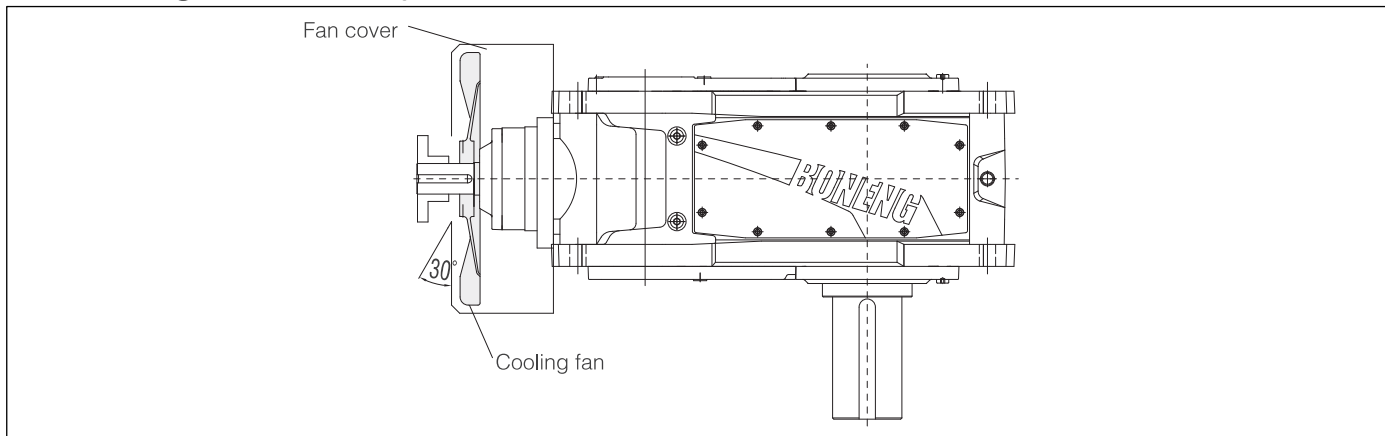
B4



| B4 | | | iN ≤ 280 (Size: 13, 14, 15, 16, 18) iN ≤ 250 (Size: 17) | | | | iN ≥ 315 (Size: 13, 14, 15, 16, 18) iN ≥ 280 (Size: 17) | | | | | |
|------|---------|-----------|--|----|----|-----|--|----------|----|-----|------|------|
| Size | M Motor | AF Flange | Coupling | | | | f | Coupling | | | | f |
| | | | Type | D1 | D2 | L | | Type | D1 | D2 | L | |
| 13 | 180 | | | | | | GA55 | 50 | 48 | 160 | 1429 | |
| | 200 | | GA65 | 60 | 55 | 185 | 1437 | GA65 | 50 | 55 | 185 | 1437 |
| | 225 | | GA65 | 60 | 60 | 185 | 1467 | GA65 | 50 | 60 | 185 | 1467 |
| | 250 | | GA75 | 60 | 65 | 210 | 1470 | GA75 | 50 | 65 | 210 | 1470 |
| | 280 | | GA75 | 60 | 75 | 210 | 1470 | GA75 | 50 | 75 | 210 | 1470 |
| | 315 | | GA90 | 60 | 80 | 245 | 1524 | | | | | |
| 14 | 180 | | | | | | GA55 | 50 | 48 | 160 | 1499 | |
| | 200 | | GA65 | 60 | 55 | 185 | 1507 | GA65 | 50 | 55 | 185 | 1507 |
| | 225 | | GA65 | 60 | 60 | 185 | 1537 | GA65 | 50 | 60 | 185 | 1537 |
| | 250 | | GA75 | 60 | 65 | 210 | 1540 | GA75 | 50 | 65 | 210 | 1540 |
| | 280 | | GA75 | 60 | 75 | 210 | 1540 | GA75 | 50 | 75 | 210 | 1540 |
| | 315 | | GA90 | 60 | 80 | 245 | 1594 | | | | | |
| 15 | 200 | | | | | | | GA65 | 60 | 55 | 185 | 1679 |
| | 225 | | GA75 | 75 | 60 | 210 | 1709 | GA65 | 60 | 60 | 185 | 1709 |
| | 250 | | GA75 | 75 | 65 | 210 | 1712 | GA75 | 60 | 65 | 210 | 1712 |
| | 280 | | GA75 | 75 | 75 | 210 | 1712 | GA75 | 60 | 75 | 210 | 1712 |
| | 315 | | GA90 | 75 | 80 | 245 | 1766 | GA90 | 60 | 80 | 245 | 1766 |
| | 355 | | GC110 | 75 | 95 | 185 | 1766 | | | | | |
| 16 | 200 | | | | | | | GA65 | 60 | 55 | 185 | 1725 |
| | 225 | | GA75 | 75 | 60 | 210 | 1755 | GA65 | 60 | 60 | 185 | 1755 |
| | 250 | | GA75 | 75 | 65 | 210 | 1758 | GA75 | 60 | 65 | 210 | 1758 |
| | 280 | | GA75 | 75 | 75 | 210 | 1758 | GA75 | 60 | 75 | 210 | 1758 |
| | 315 | | GA90 | 75 | 80 | 245 | 1812 | GA90 | 60 | 80 | 245 | 1812 |
| | 355 | | GC110 | 75 | 95 | 185 | 1812 | | | | | |
| 17 | 225 | | | | | | | GA65 | 60 | 60 | 185 | 1757 |
| | 250 | | | | | | | GA75 | 60 | 65 | 210 | 1760 |
| | 280 | | GA75 | 75 | 75 | 210 | 1760 | GA75 | 60 | 75 | 210 | 1760 |
| | 315 | | GA90 | 75 | 80 | 245 | 1814 | GA90 | 60 | 80 | 245 | 1814 |
| | 355 | | GC110 | 75 | 95 | 185 | 1814 | | | | | |
| | | | | | | | | | | | | |
| 18 | 225 | | | | | | | GA65 | 60 | 60 | 185 | 1817 |
| | 250 | | | | | | | GA75 | 60 | 65 | 210 | 1820 |
| | 280 | | GA75 | 75 | 75 | 210 | 1820 | GA75 | 60 | 75 | 210 | 1820 |
| | 315 | | GA90 | 75 | 80 | 245 | 1874 | GA90 | 60 | 80 | 245 | 1874 |
| | 355 | | GC110 | 75 | 95 | 185 | 1874 | | | | | |

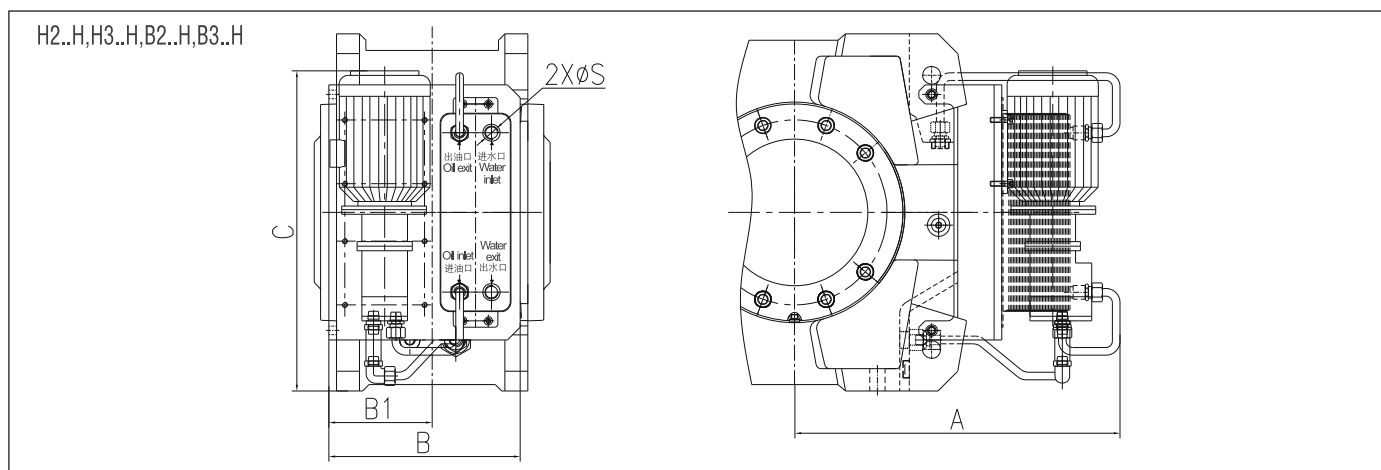
16 Accessory

16.1 Cooling fan (Accessory code:UF21)



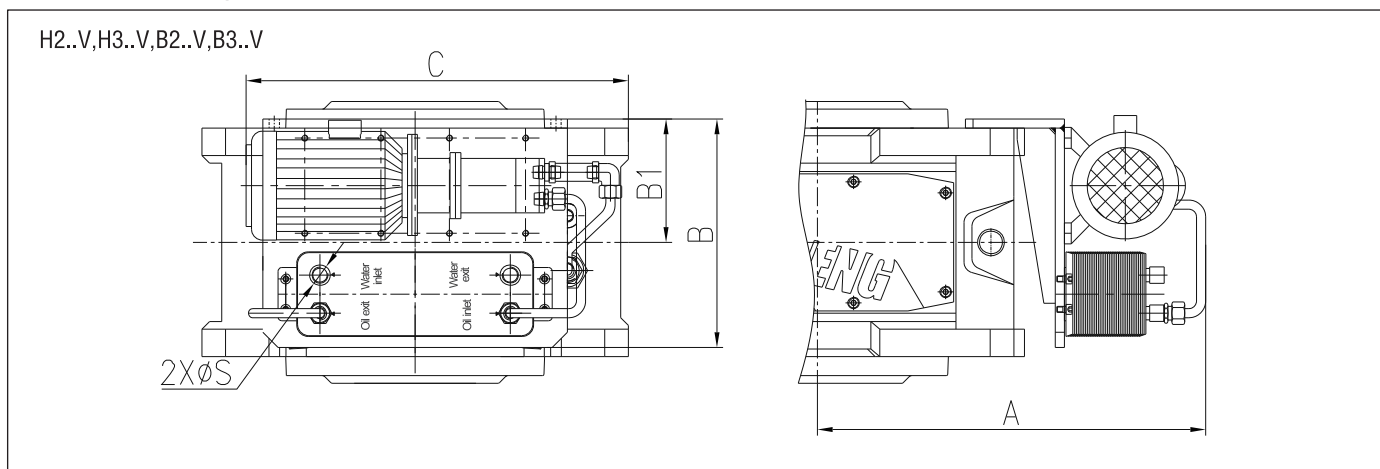
16.2 Water oil cooler (Accessory code:UC22)

1) Horizontal mounting:



| Size | A | B | B1 | C | S | Water quantity (L/min) |
|------|-----|-----|-------|-----|------|------------------------|
| 13 | 772 | 405 | 288.5 | 714 | G1/2 | 10 |
| 14 | 842 | 405 | 288.5 | 714 | G1/2 | 10 |
| 15 | 883 | 405 | 326 | 774 | G1/2 | 10 |
| 16 | 925 | 405 | 326 | 774 | G1/2 | 10 |
| 17 | 929 | 405 | 356 | 849 | G1/2 | 14 |
| 18 | 989 | 405 | 356 | 849 | G1/2 | 14 |

2) Vertical mounting:



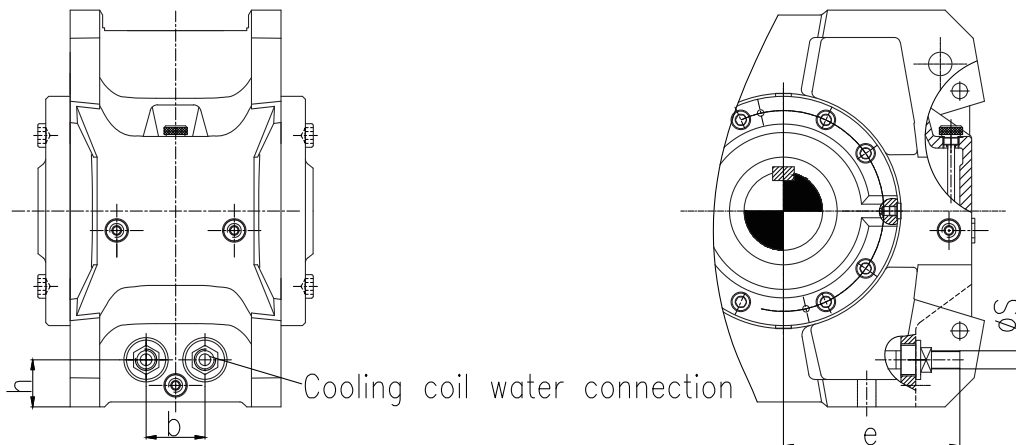
| Size | A | B | B1 | C | S | Water quantity (L/min) |
|------|-----|-----|-------|-----|------|------------------------|
| 13 | 772 | 405 | 288.5 | 714 | G1/2 | 10 |
| 14 | 842 | 405 | 288.5 | 714 | G1/2 | 10 |
| 15 | 883 | 405 | 326 | 774 | G1/2 | 10 |
| 16 | 925 | 405 | 326 | 774 | G1/2 | 10 |
| 17 | 929 | 405 | 356 | 849 | G1/2 | 14 |
| 18 | 989 | 405 | 356 | 849 | G1/2 | 14 |

16.3 Cooling coil(Code:UC21)

***For exquisite vibration applications the water-oil cooler is recommended (Code: UC22)**

1) Horizontal mounting:

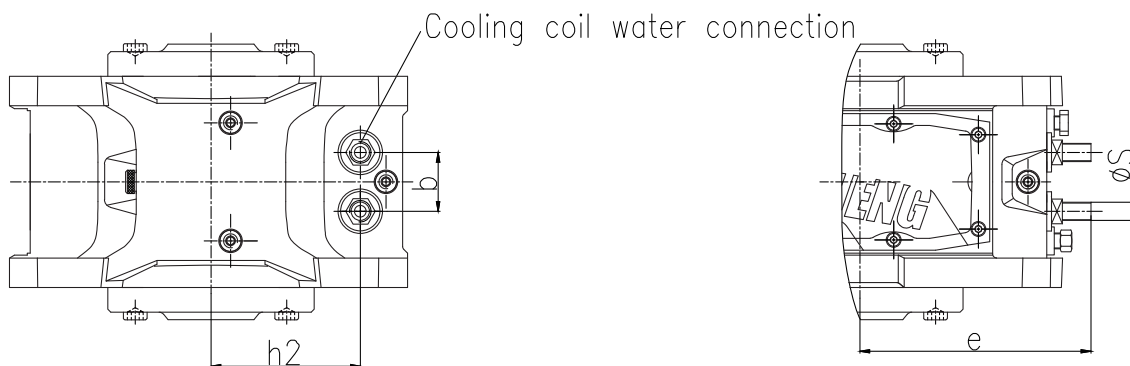
H2..H,H3..H,B2..H,B3..H



| Size | H2..H/HB..H | | | | | H3..H | | | | | H2..H | | | | |
|------|-------------|-----|-----|------|------------------------|-------|-----|-----|------|------------------------|-------|-----|-----|------|------------------------|
| | b | e | h | s | Water quantity (L/min) | b | e | h | s | Water quantity (L/min) | b | e | h | s | Water quantity (L/min) |
| 13 | 150 | 386 | 120 | G1/2 | 10 | 150 | 386 | 120 | G1/2 | 10 | 150 | 386 | 120 | G1/2 | 10 |
| 14 | 150 | 456 | 120 | G1/2 | 10 | 150 | 446 | 120 | G1/2 | 10 | 150 | 446 | 120 | G1/2 | 10 |
| 15 | 200 | 439 | 120 | G1/2 | 10 | 200 | 424 | 120 | G1/2 | 10 | 200 | 424 | 120 | G1/2 | 10 |
| 16 | 200 | 494 | 120 | G1/2 | 10 | 200 | 494 | 120 | G1/2 | 10 | 200 | 494 | 120 | G1/2 | 10 |
| 17 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 18 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |

2) Vertical mounting:

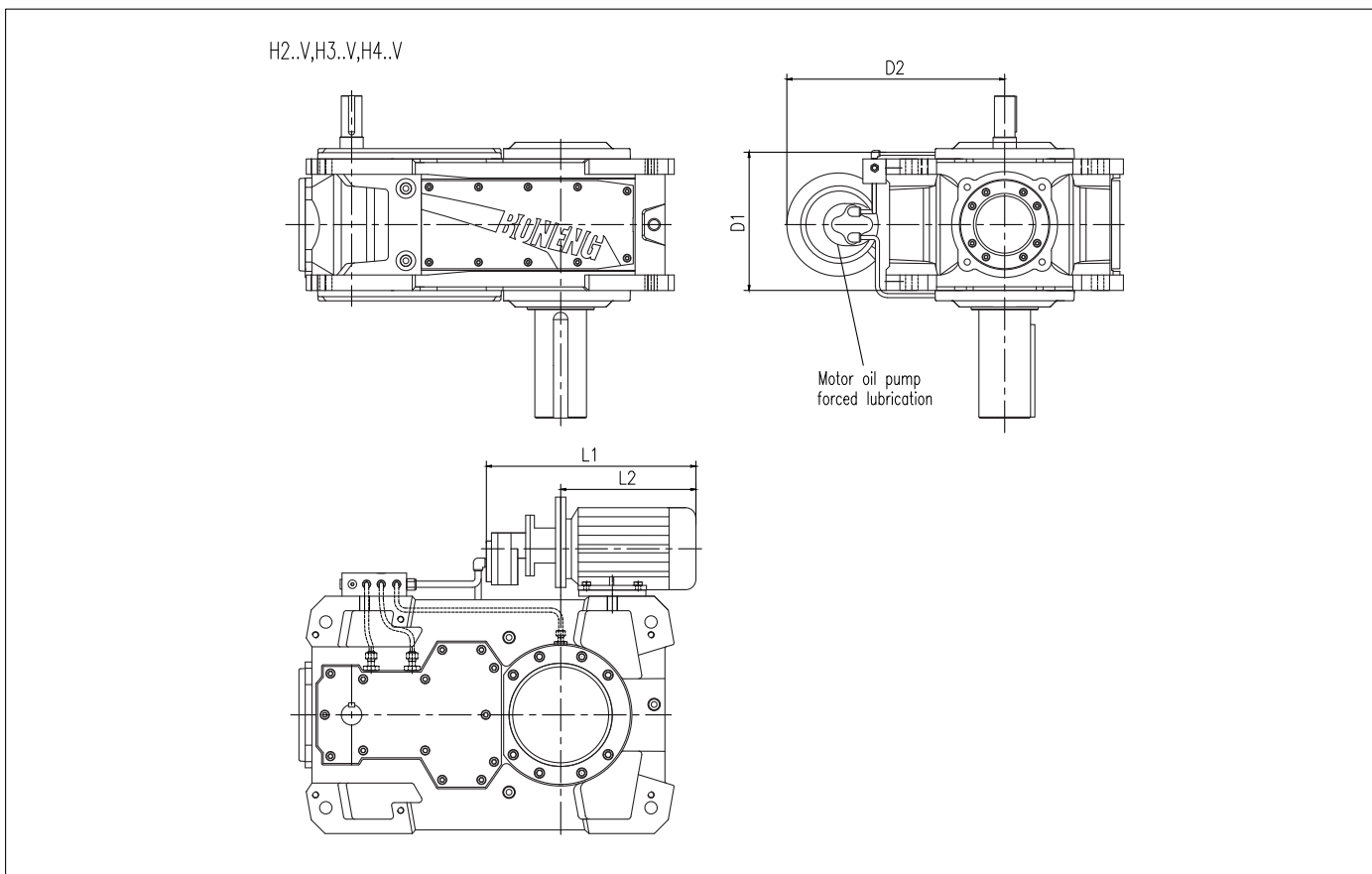
H2..V,H3..V,B2..V,B3..V



| Size | H2..V/B3..V | | | | | H3..V | | | | | H2..V | | | | |
|------|-------------|-----|-----|------|------------------------|-------|-----|-----|------|------------------------|-------|-----|-----|------|------------------------|
| | b | e | h | s | Water quantity (L/min) | b | e | h | s | Water quantity (L/min) | b | e | h | s | Water quantity (L/min) |
| 13 | 150 | 386 | 120 | G1/2 | 10 | 150 | 386 | 120 | G1/2 | 10 | 150 | 386 | 120 | G1/2 | 10 |
| 14 | 150 | 456 | 120 | G1/2 | 10 | 150 | 446 | 120 | G1/2 | 10 | 150 | 446 | 120 | G1/2 | 10 |
| 15 | 200 | 439 | 120 | G1/2 | 10 | 200 | 424 | 120 | G1/2 | 10 | 200 | 424 | 120 | G1/2 | 10 |
| 16 | 200 | 494 | 120 | G1/2 | 10 | 200 | 494 | 120 | G1/2 | 10 | 200 | 494 | 120 | G1/2 | 10 |
| 17 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 18 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |

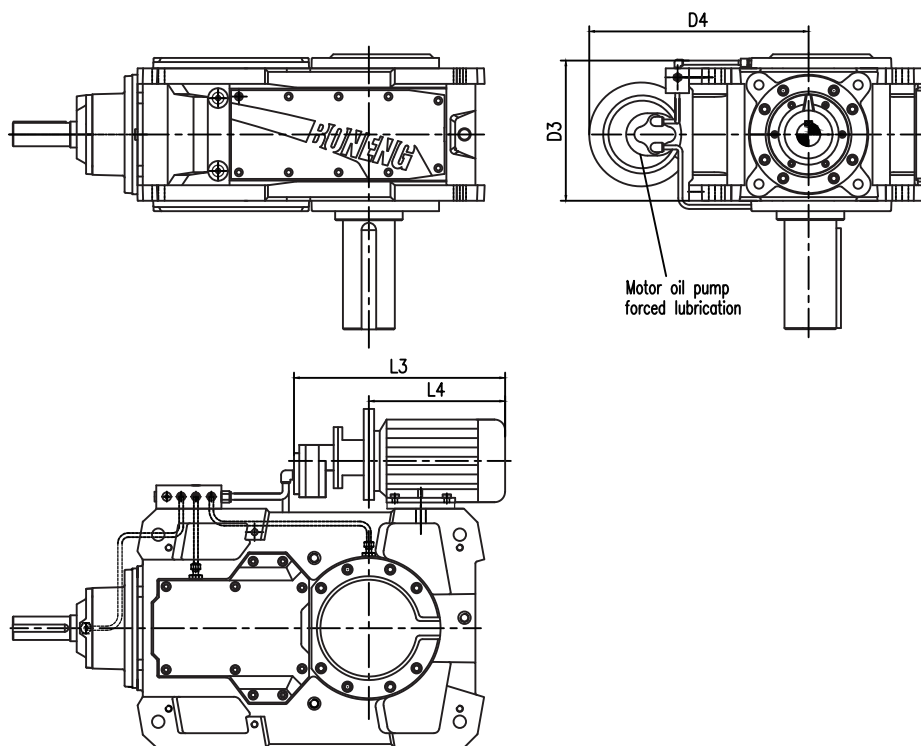
| Type | Cooling coil is appropriate for | | |
|-------|---------------------------------|--------------------------------|-----------------------------------|
| | Size | Flange pump forced lubrication | Motor oil pump forced lubrication |
| | | Applicable shaft assemblies | Applicable shaft assemblies |
| H2..V | 13-18 | B+D+F+H | B+D+F+H |
| H3..V | 13-18 | B+D+F+H | B+D+F+H |
| B2..V | 13-18 | C+D+F | C+D+F |
| B3..V | 13-18 | C+D+F | C+D+F |

16.4 Motor oil pump forced lubrication(Code:US32)



| Mounting dimension | | | | | | |
|--------------------|-------|-------------------|---------|-----|-----|-----|
| Type | Size | Shaft assemblies | L2 | L1 | D2 | D1 |
| H2..V | 13/14 | A+B+C+D+E+F+G+H+I | 484/554 | 456 | 624 | 566 |
| | 15/16 | A+B+C+D+E+F+G+H+I | 544/589 | 456 | 702 | 640 |
| | 17/18 | A+B+C+D+E+F+G+H+I | 569-629 | 460 | 752 | 701 |
| H3..V | 13/14 | A+B+C+D+E+F+G+H+I | 484/554 | 456 | 624 | 566 |
| | 15/16 | A+B+C+D+E+F+G+H+I | 544/589 | 456 | 702 | 640 |
| | 17/18 | A+B+C+D+E+F+G+H+I | 569-629 | 460 | 752 | 701 |
| H4..V | 13/14 | A+B+C+D+E+F+G+H+I | 484/554 | 456 | 624 | 566 |
| | 15/16 | A+B+C+D+E+F+G+H+I | 544/589 | 456 | 702 | 640 |
| | 17/18 | A+B+C+D+E+F+G+H+I | 569-629 | 460 | 752 | 701 |

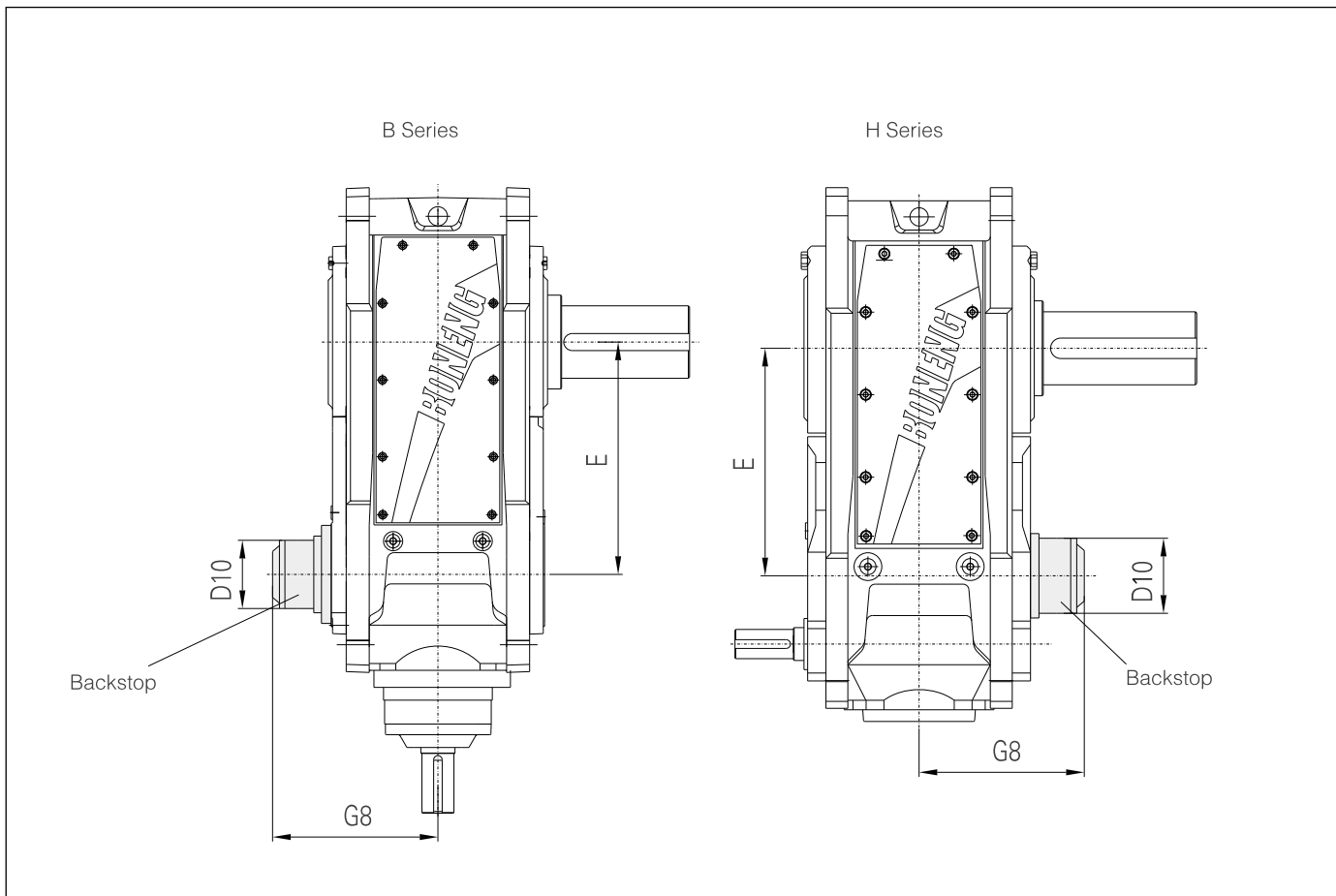
B2..V,B3..V,B4..V



Mounting dimension

| Type | Size | Shaft assemblies | L4 | L3 | D4 | D3 |
|-------|-------|-------------------|---------|-----|-----|-----|
| H2..V | 13/14 | A+B+C+D+E+F+G+H+I | 484/554 | 456 | 624 | 566 |
| | 15/16 | A+B+C+D+E+F+G+H+I | 544/589 | 456 | 702 | 640 |
| | 17/18 | A+B+C+D+E+F+G+H+I | 569-629 | 460 | 752 | 701 |
| H3..V | 13/14 | A+B+C+D+E+F+G+H+I | 484/554 | 456 | 624 | 566 |
| | 15/16 | A+B+C+D+E+F+G+H+I | 544/589 | 456 | 702 | 640 |
| | 17/18 | A+B+C+D+E+F+G+H+I | 569-629 | 460 | 752 | 701 |
| H4..V | 13/14 | A+B+C+D+E+F+G+H+I | 484/554 | 456 | 624 | 566 |
| | 15/16 | A+B+C+D+E+F+G+H+I | 544/589 | 456 | 702 | 640 |
| | 17/18 | A+B+C+D+E+F+G+H+I | 569-629 | 460 | 752 | 701 |

16.5 Backstop (Accessory code UB11)



| Size | 13 | | | 14 | | | 15 | | | 16 | | | 17 | | | 18 | | |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|------|-----|-----|------|
| | D10 | G8 | E | D10 | G8 | E | D10 | G8 | E | D10 | G8 | E | D10 | G8 | E | D10 | G8 | E |
| B3 | 290 | 426 | 635 | 290 | 426 | 705 | 310 | 472 | 762 | 310 | 472 | 808 | 310 | 498 | 860 | 310 | 498 | 920 |
| B4/H4 | 175 | 373 | 820 | 175 | 373 | 890 | 230 | 465 | 987 | 230 | 465 | 1033 | 230 | 495 | 1035 | 230 | 495 | 1095 |
| H3 | 290 | 426 | 610 | 290 | 426 | 680 | 310 | 472 | 731 | 310 | 472 | 777 | 310 | 502 | 779 | 310 | 502 | 839 |

⚠ Note: The rotation direction is the direction of output shaft while face the output shaft.

16.6 Lubrication oil

16.6.1 Oil quantity

| Oil Quantity Table(L) | | | | | | | | | | | | |
|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Size | H2..H | H3..H | H4..H | B2..H | B3..H | B4..H | H2..V | H3..V | H4..V | B2..V | B3..V | B4..V |
| | ① | ① | ① | ① | ① | ① | ③ | ③ | ③ | ③ | ③ | ③ |
| 13 | 135 | 160 | 130 | 140 | 130 | 145 | 80 | 115 | 95 | 100 | 95 | 130 |
| 14 | 140 | 165 | 140 | 155 | 140 | 150 | 90 | 126 | 105 | 110 | 110 | 150 |
| 15 | 210 | 235 | 230 | 220 | 210 | 230 | 140 | 180 | 150 | 145 | 165 | 200 |
| 16 | 215 | 245 | 235 | 230 | 220 | 235 | 150 | 190 | 160 | 160 | 190 | 235 |
| 17 | 290 | 305 | 290 | 320 | 290 | 295 | 175 | 190 | 190 | 210 | 210 | 215 |
| 18 | 300 | 315 | 305 | 335 | 300 | 305 | 185 | 200 | 200 | 220 | 240 | 250 |

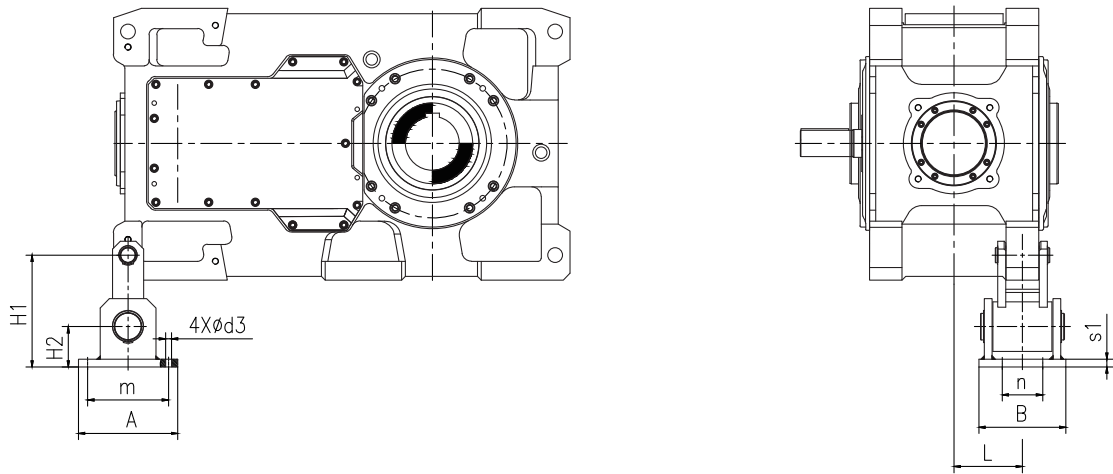
⚠ Note:1.① Oil tank splash lubrication ② Dip-in lubrication ③ Forced lubrication.
2.The above data are average values.

16.6.2 Lubrication oil (heavy-loading industrial gear oil) viscosity number selection[VG320(Accessory code:UV32)]

| | |
|-----------------------|-------------|
| Ambient temperature°C | -20°C~+40°C |
| Viscosity number | VG320 |

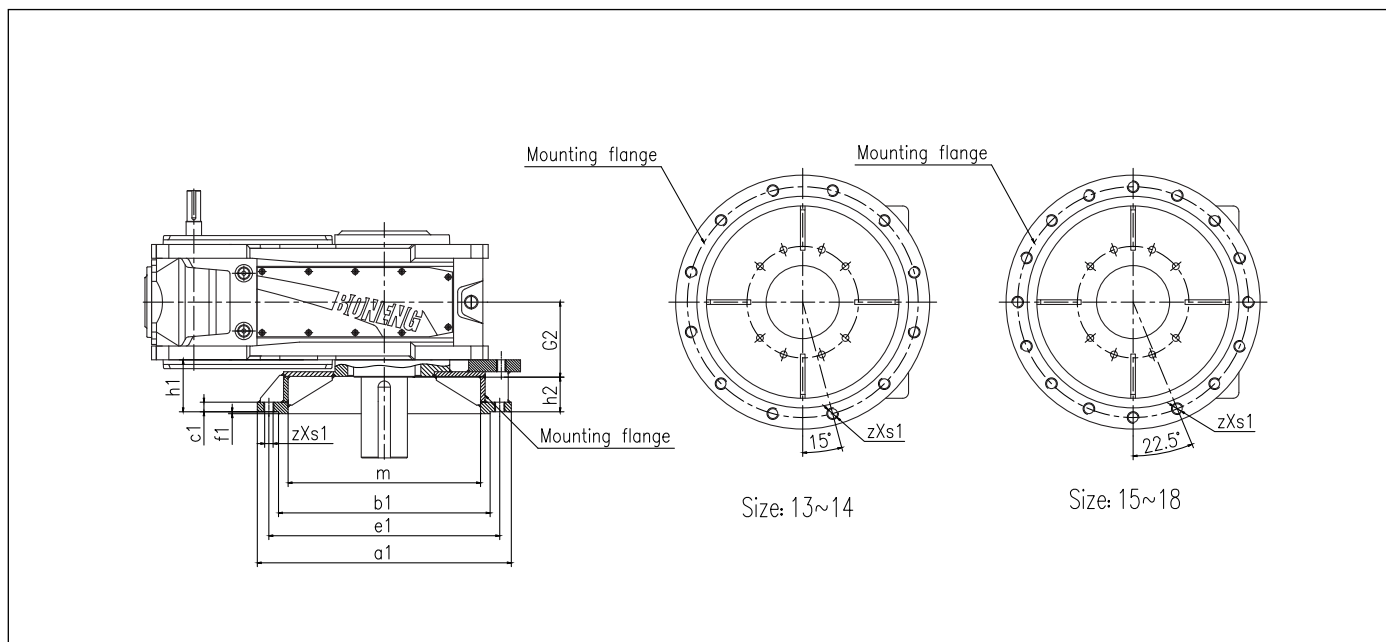
⚠ Note:1.Viscosity in the above table is ISO-VG Viscosity under 40 °C
2.When ambient temperature is lower than-10°C,synthetic oil must be used.
3.To ensure product lifespan, we suggest synthetic oil.
4.IF ambient temperature exceeds the above range, please consult.

16.7 Torque arm (Code:UT61)



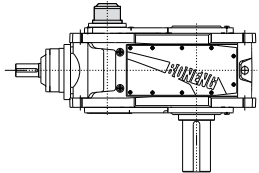
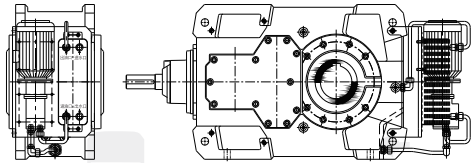
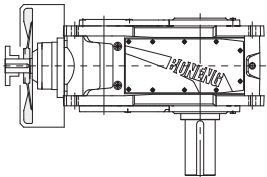
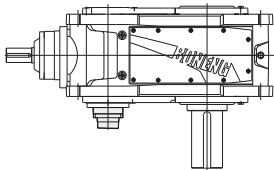
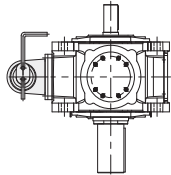
| Size | A | B | φ d3 | H1 | H2 | m | n | s1 | B2 | B3/B4/H2/H3/H4 | Weight (kg) |
|------|-----|-----|------|-----|-----|-----|-----|----|-------|----------------|-------------|
| | | | | | | | | | L | L | |
| 13 | 320 | 280 | 19 | 360 | 130 | 260 | 130 | 25 | 272.5 | 220 | 73.1 |
| 14 | 320 | 280 | 19 | 360 | 130 | 260 | 130 | 25 | 272.5 | 220 | 73.1 |
| 15 | 400 | 300 | 24 | 455 | 160 | 320 | 240 | 30 | 317.5 | 247.5 | 117.7 |
| 16 | 400 | 300 | 24 | 455 | 160 | 320 | 240 | 30 | 317.5 | 247.5 | 117.7 |
| 17 | 400 | 300 | 24 | 455 | 160 | 320 | 240 | 30 | 370 | 272.5 | 117.7 |
| 18 | 400 | 300 | 24 | 455 | 160 | 320 | 240 | 30 | 370 | 272.5 | 117.7 |

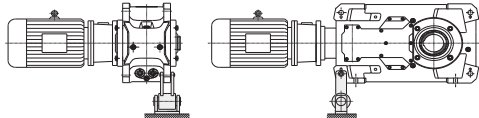
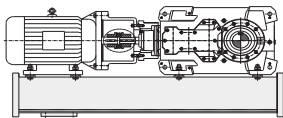
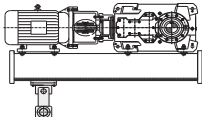
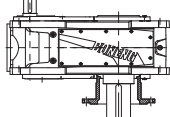
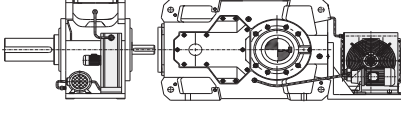
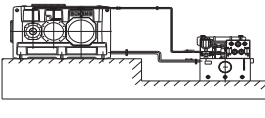
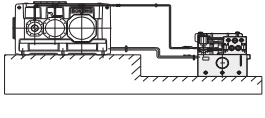
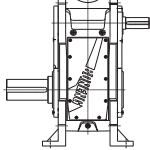

16.8 Outpt mounting flange (Code:UF32)



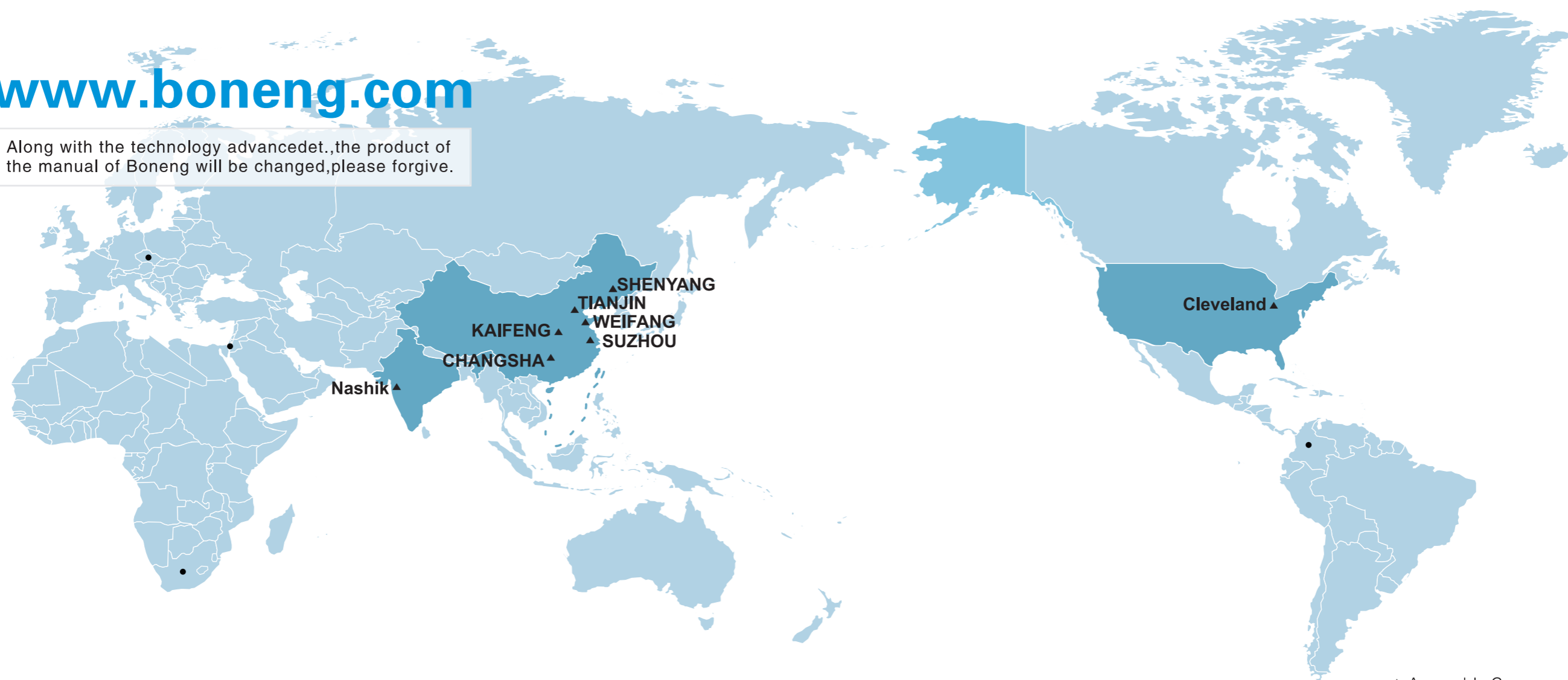
| Size | a1 | b1 | c1 | e1 | f1 | G2 | h2 | m | zxs1 | h1 | | Weight (kg) |
|------|------|-------|----|------|----|-----|------|-----|--------|------|--------------------|-------------|
| | | | | | | | | | | B2 | H2, H3, H4, B3, B4 | |
| 13 | 840 | 650f7 | 50 | 760 | 5 | 335 | 37.5 | 450 | 12xM30 | 77.5 | 100 | 245 |
| 14 | 840 | 650f7 | 50 | 760 | 5 | 335 | 37.5 | 480 | 12xM30 | 77.5 | 100 | 255 |
| 15 | 960 | 750f7 | 50 | 880 | 5 | 380 | 30 | 530 | 16xM30 | 65 | 100 | 315 |
| 16 | 960 | 750f7 | 50 | 880 | 5 | 380 | 30 | 540 | 16xM30 | 65 | 100 | 325 |
| 17 | 1100 | 850f7 | 57 | 1000 | 8 | 415 | 62 | 540 | 16xM36 | 107 | 137 | 595 |
| 18 | 1100 | 850f7 | 57 | 1000 | 8 | 415 | 62 | 540 | 16xM36 | 107 | 137 | 605 |

16.9 Accessories code table:

| Code | Accessories | Example |
|-------|---------------------------------------|---|
| UB11 | Backstop |  |
| U C22 | Water-Oil cooler |  |
| UF21 | Cooling fan |  |
| US31 | Shaft end oil pump forced lubrication |  |
| US32 | Motor oil pump forced lubrication |  |
| UV32 | Lubrication oil VG320 | |
| UV46 | Lubrication oil VG460 | |

| Code | Accessories | Example |
|----------------|---------------------------------------|---|
| Please consult | Torque arm UT61 |  |
| | Gear box swing base |  |
| | Swing base with torque arm |  |
| | Mounting flange UF32 |  |
| | External wind air-oil cooler UC23 |  |
| | Pipeline (Customer build oil station) |  |
| | Oil station |  |
| | Upright mounting |  |
| | Electric heater |  |
| | Shaft sealing of other categories | |

Along with the technology advancedet.,the product of the manual of Boneng will be changed,please forgive.



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