# STON SHAFT MOUNTED GEARBOX

roto motive






Our Manufacturing facility in India

Rotmotive Powerdrives India Ltd is an Italian joint venture company operating in India since 2006. it has access to European technology and know-how from Motive srl, one of the joint venture partners and sources parts and components from Indian suppliers. We have a modern manufacturing facility in Gujarat, India. Rotomotive has the capacity to design, prototype and manufacture custom motors for various applications.

Our modern manufacturing plant has advanced machinery for automatic winding, trickle and vacuum pressure impregnation, precise balancing, conveyorized assembly, enclosed painting lines, automatic testing facilities with all components bar coded for traceability, consistent quality and low production time.

We also have an advanced testing facility for type testing motors and gearboxes which enables us to plot accurate speed torque curves and carry out temperature rise tests and other type tests as per IEC 60034/IS: 325 & IS: 12615.

Gearbox machining

Assembly Line

Testing Line

Hardness Testing

CMM for mechanical inspection

Shop Floor

# INDEX



rotomotive

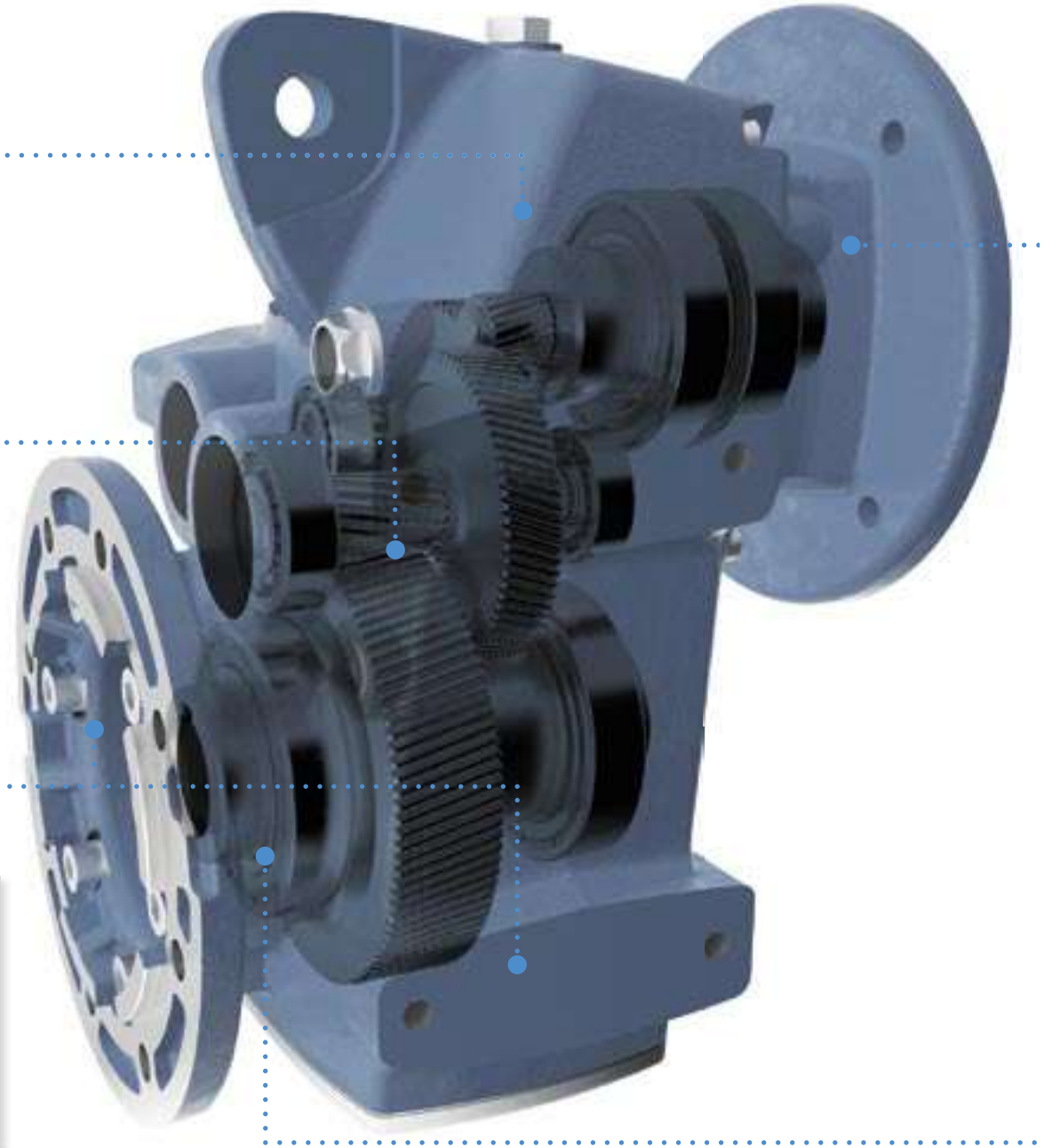
uniquely contoured, rigid, precise, monobloc, cast iron Body, Base and flange ensure extreme robustness.

robust

2 or 3 reduction stages inside the same body, in order to have a wider and more reliable range of ratios

versatile

a modular design with detachable output flange and integral feet permits the easy and fast conversion between flange or foot mounting



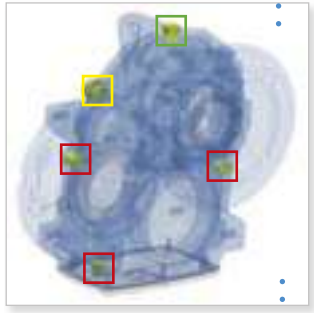
registered design

# flexible mounting

iec flange and hollow shaft.

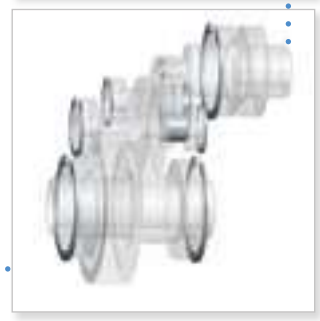
choice of hollow input flanges permits direct mounting of any standard motor

unique construction of ston makes it possible to mount any size in any position.
this flexibility is achieved by:



+ ZZ autolubricating bearings on input and output shaft

5 interchangeable plugs, including one breather plug and a level plug please note that the vent plug also allows you to reduce the internal pressure on seals, and thus increases the efficiency of the gearbox



+ mechanical parts locked in their positions by snap rings.this also ensures better absorbtion of axial thrust and prolongs the life of bearings

# engineered for higher reliability

use of high strength steels and case hardening to 58 ±2 Hrc reduce the wear rate in wheels.
all wheels are profile ground to din 3962 class 6 accuracy for low noise and high efficiency.

shafts are made from 42crmo4 steel and tempered to reach a hardness of 23-35 Hrc, thus increasing their capacity to withstand shearing stresses.

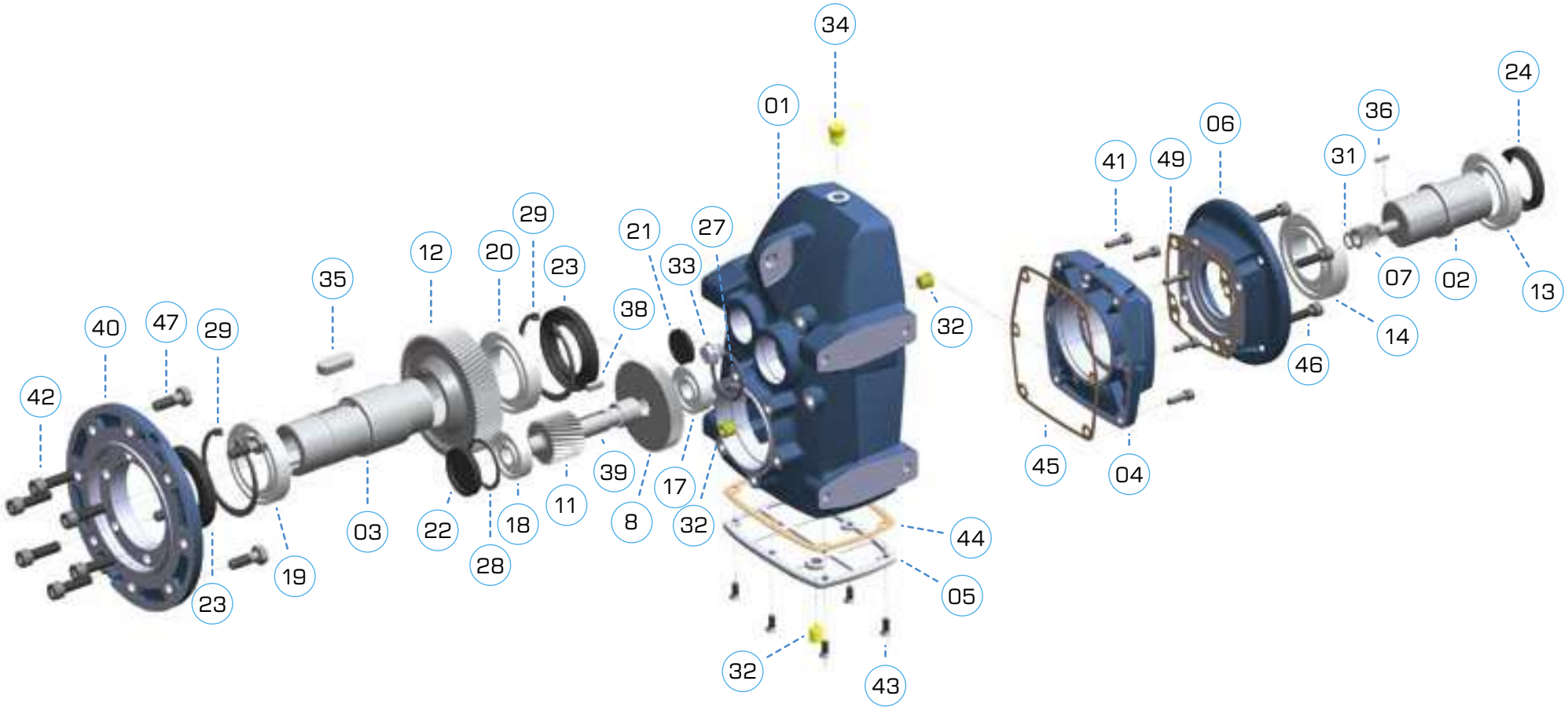
if the mechanical robustness and the service factor of an helical gearbox are mainly influenced by the centres distance of the last stage, ston confirms to be very robust (see "X2" at page 16)

single stages ratios between 2 and 6, together with proper gears sizes, result mathematically in higher teeth number and size (module) of each wheel and a better fractioned load among the reduction stages. that influences both durabilty and torque transmission capability

dual bearing support on the input shaft assures precise alignment of the first stage gears and reduces vibrations and consequent gear wear

abounding bearings size

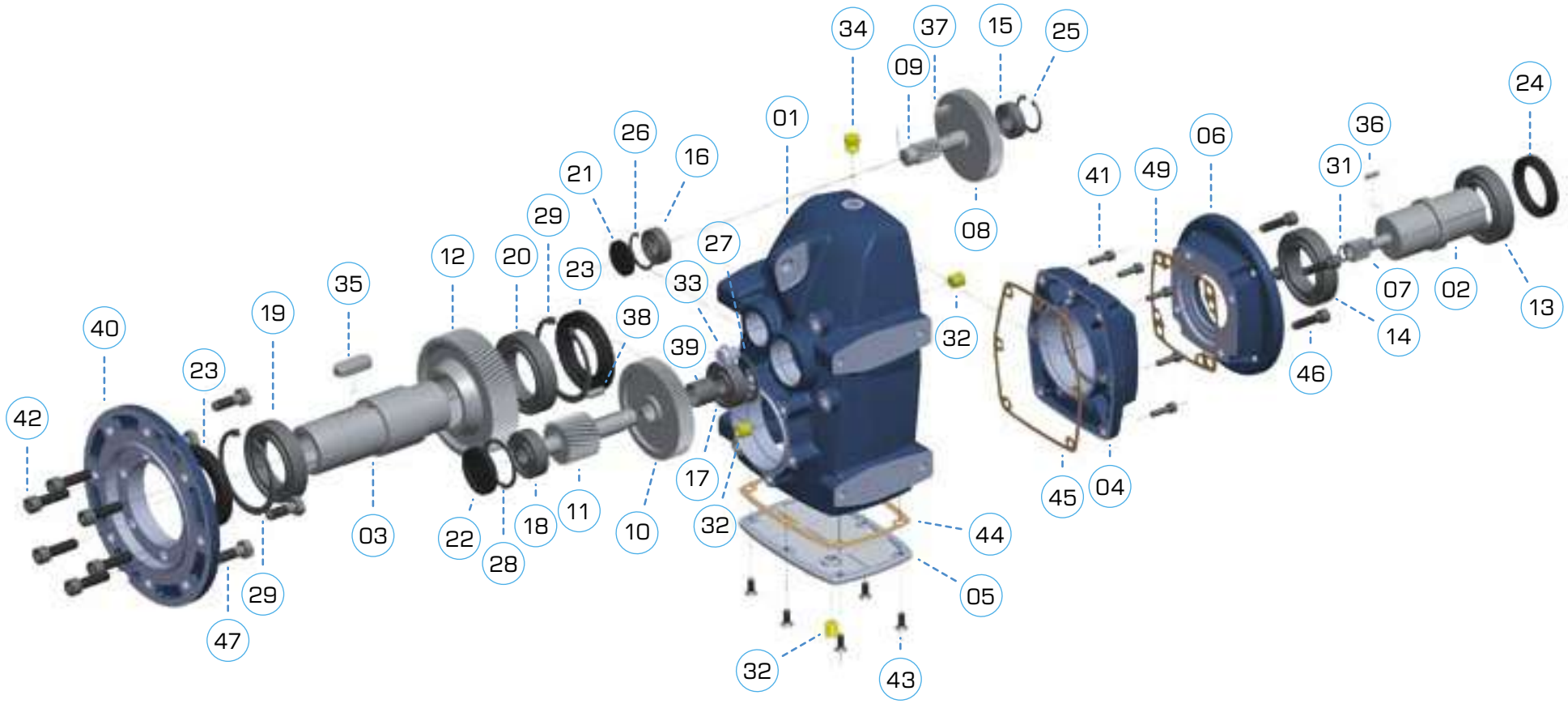
# List of components ston 2 reduction stages



# List of components ston 2 reduction stages

| | STON 3 | | | STON 4 | | | STON 5 | | |
|---|---|---|---|---|---|---|---|---|---|
| art. | code | description | q.ty | code | description | q.ty | code | description | q.ty |
| 1 | Houst3 | housing | 1 | Houst4 | housing | 1 | Houst5 | housing | 1 |
| 2 | isHdm..id..rB25 | input shaft | 1 | isHdm..id..rB30 | input shaft | 1 | isHdm..id..rB35 | input shaft | 1 |
| 3 | osHst3 | output shaft | 1 | osHst4 | output shaft | 1 | osHst5 | output shaft | 1 |
| 4 | icVes3 | input cover | 1 | icVes4 | input cover | 1 | icVes5 | input cover | 1 |
| 5 | tcVes3 | adapter cover | 1 | tcVes4 | adapter cover | 1 | tcVes5 | adapter cover | 1 |
| 6 | ifL63B5rB25<br>ifL71B5rB25<br>ifL8090B5rB25<br>ifL100112B5rB25 | input flange 63B5<br>input flange 71B5<br>input flange 80/90B5<br>input flange 100/112B5 | 1 | ifL71B5rB30/35<br>ifL80B5rB30/35<br>ifL100B5rB30/35 | input flange 71B5<br>input flange 80/90B5<br>input flange100/112B5 | 1 | ifL71B5rB30/35<br>ifL80B5rB30/35<br>ifL100B5rB30/35 | input flange 71B5<br>input flange 80/90B5<br>input flange 100/112B5 | 1 |
| 7 | p1Z..d..id.. | pinion first stage | 1 | p1Z..d..id.. | pinion first stage | 1 | p1Z..d..id.. | pinion first stage | 1 |
| 8 | g1Z..d..rB25 | gear first stage | 1 | g1Z..d..rB30 | gear first stage | 1 | g1Z..d..rB35 | gear first stage | 1 |
| 11 | p3Z..d..st3 | pinion third stage | 1 | p3Z..d..st4 | pinion third stage | 1 | p3Z..d..st5 | pinion third stage | 1 |
| 12 | g3Z..d1..st3 | gear third stage | 1 | g3Z..d1..st4 | gear third stage | 1 | g3Z..d1..st5 | gear third stage | 1 |
| 13<br>14 | Bea6008ZZ | bearing 6008ZZ | 2 | Bea6009ZZ | bearing 6009ZZ | 2 | Bea6009ZZ | bearing 6009ZZ | 2 |
| 17 | Bea7202ZZ | bearing 7202ZZ | 1 | Bea7303ZZ | bearing 7303ZZ | 1 | Bea7304ZZ | bearing 7304ZZ | 1 |
| 18 | Bea7302ZZ | bearing 7302ZZ | 1 | Bea7303ZZ | bearing 7303ZZ | 1 | Bea7304ZZ | bearing 7304ZZ | 1 |
| 19 | Bea6009ZZ | bearing 6009ZZ | 1 | Bea6010ZZ | bearing 6010ZZ | 1 | Bea6211ZZ | bearing 6211ZZ | 1 |
| 20 | Bea6009ZZ | bearing 6009ZZ | 1 | Bea6010ZZ | bearing 6010ZZ | 1 | Bea6211ZZ | bearing 6211ZZ | 1 |
| 21 | coVd35 | plug seal d35X5 | 1 | coVd35 | plug seal d35X5 | 1 | coVd40 | plug seal d40X8 | 1 |
| 22 | coVd42 | plug seal d42X6 | 1 | coVd47 | plug seal d47X7 | 1 | coVd52 | plug seal d52X7 | 1 |
| 23 | os45X75X8 | oil seal 45x75x8 | 2 | os50X80X10 | oil seal 50x80x10 | 2 | os55X100X10 | oil seal 55x100x10 | 2 |
| 24 | os40X55X8 | oil seal 40x55x8 | 1 | os45X60X9 | oil seal 45x60x9 | 1 | os45X60X9 | oil seal 45x60x9 | 1 |
| 32 | fLp1/4 | filler plug 1/4'' | 3 | fLp1/4 | filler plug 1/4'' | 3 | fLp1/4 | filler plug 1/4'' | 3 |
| 33 | LpL1-4 | level plug 1/4'' | 1 | LpL1-4 | level plug 1/4'' | 1 | LpL1-4 | level plug 1/4'' | 1 |
| 34 | BpL1/4 | breather plug 1/4'' | 1 | BpL1/4 | breather plug 1/4'' | 1 | BpL1/4 | breather plug 1/4'' | 1 |
| 39 | spr39st3-2 | spacer | 1 | spr39st4-2 | spacer | 1 | spr39st5-2 | spacer | 1 |
| 40 | ofL...es3 | output flange | 1 | ofL...es4 | output flange | 1 | ofL...es5 | output flange | 1 |
| 44 | gK44es3 | adapter cover gasket | 1 | gK44es4 | adapter cover gasket | 1 | gK44es5 | adapter cover gasket | 1 |
| 45 | gK45es3 | input cover gasket | 1 | gK45es4 | input cover gasket | 1 | gK45es5 | input cover gasket | 1 |
| 49 | gK49rB25 | input flange gasket | 1 | gK49rB30 | input flange gasket | 1 | gK49rB35 | input flange gasket | 1 |

# List of components ston 3 reduction stages



# List of components ston 3 reduction stages

| | STON 3 | | | STON 4 | | | STON 5 | | |
|---|---|---|---|---|---|---|---|---|---|
| art. | code | description | q.ty | code | description | q.ty | code | description | q.ty |
| 1 | Houst3 | housing | 1 | Houst4 | housing | 1 | Houst5 | housing | 1 |
| 2 | isHdm..id..rB25 | input shaft | 1 | isHdm..id..rB30 | input shaft | 1 | isHdm..id..rB35 | input shaft | 1 |
| 3 | osHst3 | output shaft | 1 | osHst4 | output shaft | 1 | osHst5 | output shaft | 1 |
| 4 | icVes30 | input cover | 1 | icVes4 | input cover | 1 | icVes5 | input cover | 1 |
| 5 | tcVes3 | adapter cover | 1 | tcVes4 | adapter cover | 1 | tcVes5 | adapter cover | 1 |
| 6 | ifL63B5rB25<br>ifL71B5rB25<br>ifL8090B5rB25<br>ifL100112B5rB25 | input flange63B5<br>input flange71B5<br>input flange80/90B5<br>input flange100/112B5 | 1 | ifL71B5rB30/35<br>ifL80B5rB30/35<br>ifL100B5rB30/35 | input flange71B5<br>input flange80/90B5<br>input flange100/112B5 | 1 | ifL71B5rB30/35<br>ifL80B5rB30/35<br>ifL100B5rB30/35 | input flange71B5<br>input flange80/90B5<br>input flange100/112B5 | 1 |
| 7 | p1Z..d..id.. | pinion first stage | 1 | p1Z..d..id.. | pinion first stage | 1 | p1Z..d..id.. | pinion first stage | 1 |
| 8 | g1Z..d..rB25 | gear first stage | 1 | g1Z..d..rB30 | gear first stage | 1 | g1Z..d..rB35 | gear first stage | 1 |
| 9 | p2Z..d..rB25 | pinion second stage | 1 | p2Z..d..rB30 | pinion second stage | 1 | p2Z..d..rB35 | pinion second stage | 1 |
| 10 | g2Z..d..rB25 | gear second stage | 1 | g2Z..d..rB30 | gear second stage | 1 | g2Z..d..rB35 | gear second stage | 1 |
| 11 | p3Z..d..st3 | pinion third stage | 1 | p3Z..d..st4 | pinion third stage | 1 | p3Z..d..st5 | pinion third stage | 1 |
| 12 | g3Z..d1..st3 | gear third stage | 1 | g3Z..d1..st4 | gear third stage | 1 | g3Z..d1..st5 | gear third stage | 1 |
| 13<br>14 | Bea6008ZZ | bearing 6008ZZ | 2 | Bea6009ZZ | bearing 6009ZZ | 2 | Bea6009ZZ | bearing 6009ZZ | 2 |
| 15 | Bea6002ZZ | bearing 6002ZZ | 1 | Bea6003ZZ | bearing 6003ZZ | 1 | Bea6203ZZ | bearing 6203ZZ | 1 |
| 16 | Bea6202ZZ | bearing 6202ZZ | 1 | Bea6003ZZ | bearing 6003ZZ | 1 | Bea6203ZZ | bearing 6203ZZ | 1 |
| 17 | Bea6202ZZ | bearing 6202ZZ | 1 | Bea6303ZZ | bearing 6303ZZ | 1 | Bea6304ZZ | bearing 6304ZZ | 1 |
| 18 | Bea6302ZZ | bearing 6302ZZ | 1 | Bea6303ZZ | bearing 6303ZZ | 1 | Bea6304ZZ | bearing 6304ZZ | 1 |
| 19 | Bea6009ZZ | bearing 6009ZZ | 1 | Bea6010ZZ | bearing 6010ZZ | 1 | Bea6211ZZ | bearing 6211ZZ | 1 |
| 20 | Bea6009ZZ | bearing 6009ZZ | 1 | Bea6010ZZ | bearing 6010ZZ | 1 | Bea6211ZZ | bearing 6211ZZ | 1 |
| 21 | coVd35 | plug seal d35X5 | 1 | coVd35 | plug seal d35X5 | 1 | coVd40 | plug seal d40X8 | 1 |
| 22 | coVd42 | plug seal d42X6 | 1 | coVd47 | plug seal d47X7 | 1 | coVd52 | plug seal d52X7 | 1 |
| 23 | os45X75X8 | oil seal 45x75x8 | 2 | os50X80X10 | oil seal 50x80x10 | 2 | os55X100X10 | oil seal 55x100x10 | 2 |
| 24 | os40X55X8 | oil seal 40x55x8 | 1 | os45X60X9 | oil seal 45x60x9 | 1 | os45X60X9 | oil seal 45x60x9 | 1 |
| 32 | fLp1/4 | filler plug 1/4'' | 3 | fLp1/4 | filler plug 1/4'' | 3 | fLp1/4 | filler plug 1/4'' | 3 |
| 33 | LpL1-4 | level plug 1/4'' | 1 | LpL1-4 | level plug 1/4'' | 1 | LpL1-4 | level plug 1/4'' | 1 |
| 34 | BpL1/4 | breather plug 1/4'' | 1 | BpL1/4 | breather plug 1/4'' | 1 | BpL1/4 | breather plug 1/4'' | 1 |
| 39 | spr39st3-3 | spacer | 1 | spr39st4-3 | spacer | 1 | spr39st5-3 | spacer | 1 |
| 40 | ofL...es3 | output flange | 1 | ofL...es4 | output flange | 1 | ofL...es5 | output flange | 1 |
| 44 | gK44es3 | adapter cover gasket | 1 | gK44es4 | adapter cover gasket | 1 | gK44es5 | adapter cover gasket | 1 |
| 45 | gK45es3 | input cover gasket | 1 | gK45es4 | input cover gasket | 1 | gK45es5 | input cover gasket | 1 |
| 49 | gK49rB25 | input flange gasket | 1 | gK49rB30 | input flange gasket | 1 | gK49rB35 | input flange gasket | 1 |

1 first 4 digits describe the ston size

| | |
|---|---|
| **ST3** | = ston 3 |
| **ST4** | = ston 4 |
| etc | |

2 then 1 digit tell the nr of stages

| | |
|---|---|
| **2** | =2 stages |
| **3** | =3 stages |

3 then 3 digits are the rated ratio

| | |
|---|---|
| **020** | =i:20 |
| **120** | =i:120 |
| etc | |

4 then 3 digits for the mounting type

| | |
|---|---|
| **160** | =output flange 71B5 Kp=160 |
| **200** | =output flange 80/90B5 Kp=200 |
| **250** | =output flange 100/112B5 Kp=250 |
| **UNV** | = without output flange |
| **SHR** | = with shrink disk |

5 3 digits for the input flange (that determines the input hole diameter too)

| | |
|---|---|
| **805** | =80B5 |
| **905** | =90B5 |
| **125** | =100-112B5 |
| **135** | =132B5 |
| etc | |

**For instance:**

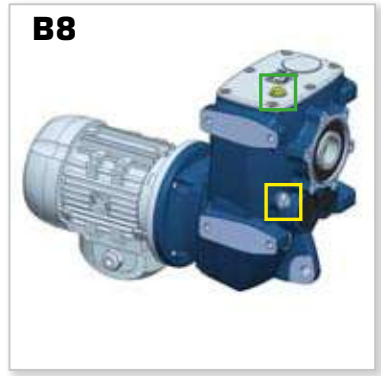
ST33070160805

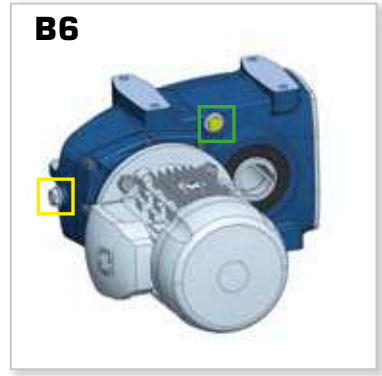
- ston 3
- 3 stages
- ratio i:70
- output flange d. 160mm
- input pam flange 80 B5

...

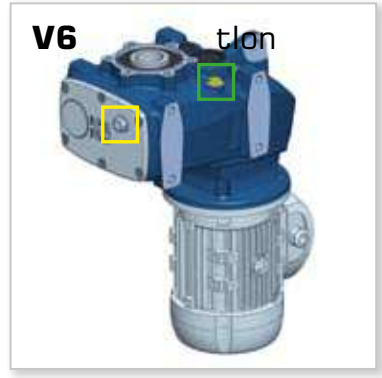
Each Ston is supplied with long-life synthetic oil and do not require any maintenance.
the oil quantity is suitable for B3 mounting position

| Ston | oil (lt) | | | | | | ISo | temp. | oil type | |
|---|---|---|---|---|---|---|---|---|---|---|
| | B3 | B6 | B7 | B8 | V5 | V6 | | | | |
| St3 | 0,55 | 0,65 | 0,65 | 0,6 | 0,8 | 1 | VG 220 | -25 +80°C | Mobil Glygoyle 30 | Shell tivela S220 |
| St4 | 1,65 | 1,2 | 1,2 | 1,1 | 1,8 | 1,9 | | | | |
| St5 | 2,6 | 1,5 | 1,5 | 1,4 | 2 | 2,1 | | | | |

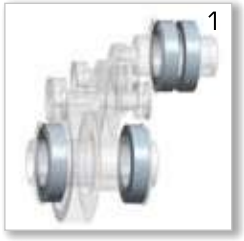



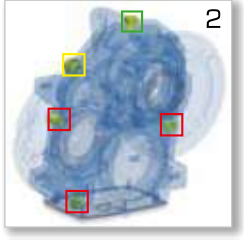


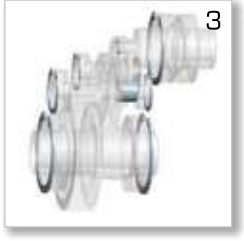

After adapting the oil quantity, each Ston can be mounted in AnY position, thus giving big advantages in the stock management and lead time, thanks to the following 3 characteristics:




ZZ autolubricating bearings on input and output shaft




5 interchangeable plugs, including one breather plug and a level plug. Level and breather plug must be positioned according to this chart




mechanical parts locked in their positions by circlips.this also ensures better absorbtion of axial thrust and prolongs the life of bearings

breather plug

level plug

filler plug

**Rated output torque $M_{n2}$** [nm]
torque output transmissible under uniform loading and referred to the input speed $n_1$ and the corresponding output speed $n_2$.
the output torque can be calculated with the following formula:

$$M_{n2} = \frac{P_{n1}\,[kW] \cdot 9550}{n_2} \cdot$$

**Torque demand $M_{r2}$** [nm]
torque calculated based on application requirements. it must be $m_{n2}$ of the chosen BoX unit.

**Input power $P_{n1}$** [kW]
this is the power value of the motor applied to the input shaft and corresponding to a certain input speed $n_1$, a service factor $f_s = 1$ and a duty service $s_1$.
it is even possibile to calculate the motor-size necessary by using the formula:

$$P_{n1}\,[kW] = \frac{M_{r2} \cdot n_2}{9550 \cdot}$$

since the value calculated in this way could not really correspond to an input power actually available in the iec stan - dardised motors, it will be necessari to choose, among the input powers available, the one which is immediately higher, checking this in the motive catalogue of the motors.

**Efficiency** [%]

an inherent factor in the selection worm-gear boxes is the efficiency h, defined as the ratio between the mechanical power coming out from the output shaft, and the power in the input shaft:

$$= \frac{P_{n2}}{P_{n1}}$$

the efficiency in helical gearboxes is mainly determined by the gearing and bearing friction.
the efficiency of ston varies with the nr of stages: it's 94% when the reduction stages are 3, 96% when the stages are 2.
the starting efficiency is always less than the efficiency at rated speed

**Gear ratio i**
it is the relationship of the input speed n1and the output speed $n_2$

$$i = \frac{n_1}{n_2}$$

in the combined, the total ratio is the result of the product of the ratio of the two single boxes.

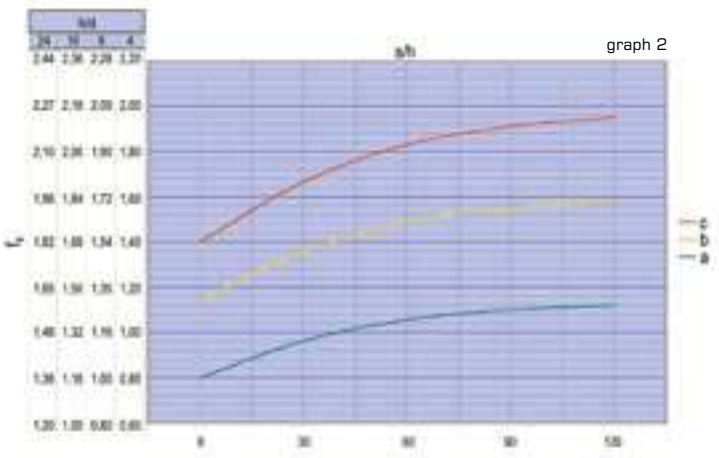
**Input speed $n_1$** [rpm]
it is the speed the BoX unit is driven at.

**Output speed $n_2$** [rpm]
it is the rotation speed of the output shaft.

**Service factor $f_s$**
it is a numeric value describing the BoX unit service duty. With unavoidable approximation, it takes into consideration:

- the daily working hours **h/d**
- the load classification (see table 2), and then the moment of inertia of the driven masses.
- the number of starts per hour **s/h**
- the presence of brake motors, for which it is necessary to multiply for 1.12 the service factor value deducted by the graph 2.
- the significance of the application in terms of safety, for example lifting of parts

in the graph 2, the service factor $f_{sr}$ required by a certain application can be attained, after having selected the proper "daily working hours" (h/d) column, by intersecting the number of starts per hour (s/h) and one of the a, b or c curves. the curves a, b and c are linked with the load classification described in the table 2.



graph 2

tab. 2

| | load classification | application |
|---|---|---|
| c | uneven operation, heavy loads, larger masses to be accelerated | conveyors with violent jerks; compressors ad alternate pumps with 1 or more cylinders; machinery for bricks, tiles and clay; kneaders; milling machines; lifting winches with buckets; rotting furnaces; heavy fans or mining purposes; mixers for heavy materials; machine-tools; planing kinds; alternating saws; shears; tumbling barrels; vibrators; shredders; turntables |
| b | starting with moderate loads, uneven operating conditions, medium size masses to be accelerated | belt conveyors with varied load with transfer of bridge trucks for light duty; levelling machines; shakers and mixed for liquid with variable density and viscosity; machines for the food industry (kneading troughs, mincing machines, slicing machines, etc); sifting machines for sand gravel; textile industry machines; cranes, hoists, goodstifts; fertilizer scrapers; concrete mixers; folding machines; winches; crane mechanisms |
| a | easy starting, smooth operation, small masses be accelerated | belt conveyors for light material; centrifugal pumps; rotary gear pumps; screw feeders for light materials; lifts; bottling machines; auxiliary controls of tool machines; fans; power generators; fillers; small mixers |

if, after the selection of the right $M_{r2}$ and $n_2$ in the following performance tables, you don't find aston unit whose ser - vice factor $f_s$ is ≥ of the requested one $f_{sr}$, you can choose a ston unit in which $M_{n2} > M_{r2}$.
in fact, in order to satisfy $f_{sr}$, you can choose another B oX unit whose output torque is ≥ $M_{c2}$ output torque, where:
$M_{c2} = M_{r2} \cdot f_{sr}$
note: this rule is valid only if the new BoX unit that has been selected in this way has a service factor $f_s \geq 1$ in the performance tables.
from another point of view, the value of $f_s$ in the performance tables refers to a case in which the effective torque requested by the application $M_{r2}$ matches perfectly with the one appearing on the catalogu $M_{n2}$.
Whenever the torque indicated in the performance table is higher than the requested one, the offered service factor of the performance table can be increased according to the formula:

$$f_s \text{ real} = \frac{f_s \text{ on the table} \cdot M_{n2} \text{ on the table}}{M_{r2}}$$

the value of $f_s$ calculated in this way must be ≥ $f_{sr}$.

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motive configurator allows you to shape motive products, combine them as you want, and finally to download 2 d/3d cad drawings, and a pdf datasheet.

**Search by performance**
if you're not sure about the best products combination that you should select for your purpose, you can input your wishes, like final torque, final speed, use, etc, and the configurator will act like a consultant.
it will give you a list of applicable product configurations; you can then download a pdf data sheet featuring performance data and dimensional drawings for each configuration, as well as d2and 3d drawings.

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to be used if you already know the product configuration that you want, and you just want to get quicker a pdf data sheet featuring performance data and dimensional drawings for d2 and 3d drawings.

free access without login
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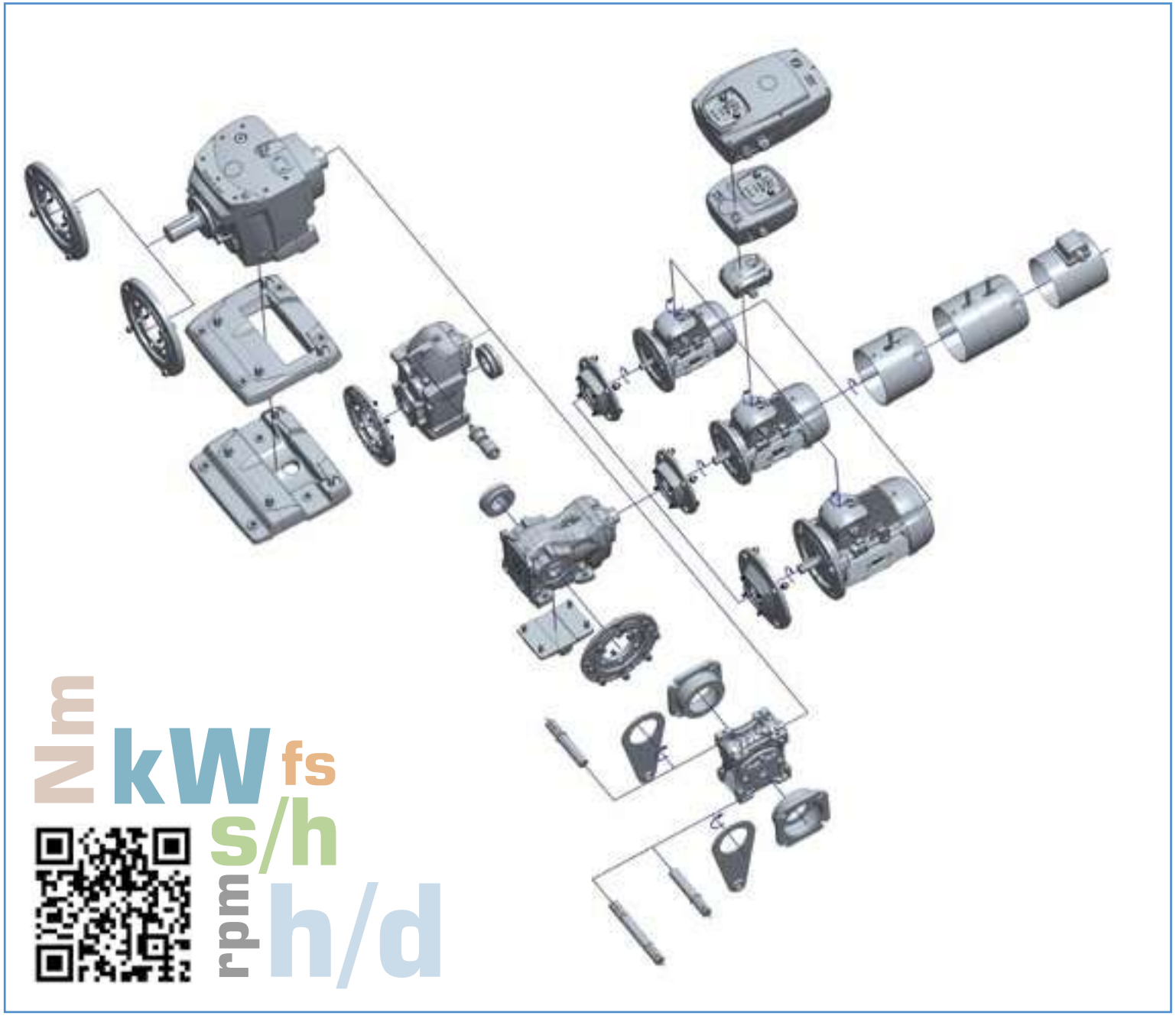


# performance taBLe

| STON 3 (300 nm) | | input | | | | fs | output | | | stage | input B5 iec 72-1 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ratio i: rated | ratio i: real | kW | Hp | motor | $n_1$ [rpm] | | $n_2$ [rpm] | $m_2$ [nm] | $m_2$ [Kgm] | | 63 | 71 | 80 | 90 | 100/112 |
| 115 | 115,80 | 0,18 | 0,25 | 63B-4 | 1393 | 2,19 | 12,0 | 134,32 | 13,69 | 3 | | | | | |
| | | 0,18 | 0,24 | 80a-8 | 650 | 1,13 | 5,6 | 287,86 | 29,34 | 3 | | | | | |
| | | 0,13 | 0,18 | 71B-8 | 651 | 1,56 | 5,6 | 207,58 | 21,16 | 3 | | | | | |
| | | 0,25 | 0,35 | 71a-4 | 1366 | 1,55 | 11,8 | 190,25 | 19,39 | 3 | | | | | |
| | | 0,25 | 0,35 | 71B-6 | 910 | 1,03 | 7,9 | 285,58 | 29,11 | 3 | | | | | |
| | | 0,18 | 0,25 | 71a-6 | 921 | 1,45 | 8,0 | 203,16 | 20,71 | 3 | | | | | |
| | | 0,37 | 0,5 | 71B-4 | 1400 | 1,07 | 12,1 | 274,73 | 28,00 | 3 | | | | | |
| 110 | 108,71 | 0,18 | 0,25 | 63B-4 | 1393 | 2,41 | 12,8 | 126,11 | 12,85 | 3 | | | | | |
| | | 0,25 | 0,35 | 71a-4 | 1366 | 1,70 | 12,6 | 178,61 | 18,21 | 3 | | | | | |
| | | 0,18 | 0,25 | 80a-8 | 650 | 1,24 | 6,0 | 270,25 | 27,55 | 3 | | | | | |
| | | 0,13 | 0,18 | 71B-8 | 651 | 1,72 | 6,0 | 194,88 | 19,87 | 3 | | | | | |
| | | 0,25 | 0,35 | 71B-6 | 910 | 1,13 | 8,4 | 268,11 | 27,33 | 3 | | | | | |
| | | 0,18 | 0,25 | 71a-6 | 921 | 1,59 | 8,5 | 190,73 | 19,44 | 3 | | | | | |
| | | 0,37 | 0,5 | 71B-4 | 1400 | 1,18 | 12,9 | 257,92 | 26,29 | 3 | | | | | |
| 100 | 99,76 | 0,18 | 0,25 | 63B-4 | 1393 | 2,33 | 14,0 | 115,72 | 11,80 | 3 | | | | | |
| | | 0,18 | 0,25 | 80a-8 | 650 | 1,19 | 6,5 | 248,00 | 25,28 | 3 | | | | | |
| | | 0,13 | 0,18 | 71B-8 | 651 | 1,66 | 6,5 | 178,84 | 18,23 | 3 | | | | | |
| | | 0,25 | 0,35 | 71a-4 | 1366 | 1,64 | 13,7 | 163,90 | 16,71 | 3 | | | | | |
| | | 0,25 | 0,35 | 71B-6 | 910 | 1,09 | 9,1 | 246,04 | 25,08 | 3 | | | | | |
| | | 0,37 | 0,5 | 71B-4 | 1400 | 1,14 | 14,0 | 236,69 | 24,13 | 3 | | | | | |
| 90 | 90,27 | 0,18 | 0,25 | 80a-8 | 650 | 1,66 | 7,2 | 224,41 | 22,88 | 3 | | | | | |
| | | 0,25 | 0,35 | 71B-6 | 910 | 1,52 | 10,1 | 222,63 | 22,69 | 3 | | | | | |
| | | 0,25 | 0,35 | 71a-4 | 1366 | 2,29 | 15,1 | 148,31 | 15,12 | 3 | | | | | |
| | | 0,37 | 0,50 | 71B-4 | 1400 | 1,58 | 15,5 | 214,17 | 21,83 | 3 | | | | | |
| | | 0,55 | 0,75 | 80a-4 | 1391 | 1,06 | 15,4 | 320,41 | 32,66 | 3 | | | | | |
| 75 | 75,31 | 0,25 | 0,35 | 71a-4 | 1366 | 2,39 | 18,1 | 123,74 | 12,61 | 3 | | | | | |
| | | 0,37 | 0,5 | 71B-4 | 1400 | 1,66 | 18,6 | 178,68 | 18,21 | 3 | | | | | |
| | | 0,55 | 0,75 | 80a-4 | 1391 | 1,11 | 18,5 | 267,33 | 27,25 | 3 | | | | | |
| 70 | 69,75 | 0,25 | 0,35 | 71a-4 | 1366 | 2,76 | 19,6 | 114,60 | 11,68 | 3 | | | | | |
| | | 0,37 | 0,5 | 71B-4 | 1400 | 1,91 | 20,1 | 165,49 | 16,87 | 3 | | | | | |
| | | 0,55 | 0,75 | 80a-4 | 1391 | 1,28 | 19,9 | 247,59 | 25,24 | 3 | | | | | |
| 65 | 65,91 | 0,25 | 0,35 | 71a-4 | 1366 | 2,75 | 20,7 | 108,29 | 11,04 | 3 | | | | | |
| | | 0,37 | 0,5 | 71B-4 | 1400 | 1,91 | 21,2 | 156,38 | 15,94 | 3 | | | | | |
| | | 0,55 | 0,75 | 80a-4 | 1391 | 1,28 | 21,1 | 233,96 | 23,85 | 3 | | | | | |
| 55 | 56,79 | 0,37 | 0,5 | 71B-4 | 1400 | 2,51 | 24,7 | 134,72 | 13,73 | 3 | | | | | |
| | | 0,55 | 0,75 | 80a-4 | 1450 | 1,75 | 25,5 | 193,36 | 19,71 | 3 | | | | | |
| | | 0,75 | 1 | 80B-4 | 1394 | 1,23 | 24,5 | 274,27 | 27,96 | 3 | | | | | |
| 50 | 49,56 | 0,37 | 0,5 | 71B-4 | 1366 | 2,45 | 27,6 | 120,52 | 12,29 | 3 | | | | | |
| | | 0,55 | 0,75 | 80a-4 | 1391 | 1,68 | 28,1 | 175,93 | 17,93 | 3 | | | | | |
| | | 0,75 | 1 | 80B-4 | 1394 | 1,23 | 28,1 | 239,39 | 24,40 | 3 | | | | | |
| 45 | 43,65 | 0,37 | 0,5 | 71B-4 | 1366 | 2,76 | 31,3 | 106,13 | 10,82 | 3 | | | | | |
| | | 0,55 | 0,75 | 80a-4 | 1391 | 1,89 | 31,9 | 154,93 | 15,79 | 3 | | | | | |
| | | 0,75 | 1,5 | 80B-4 | 1394 | 1,39 | 31,9 | 210,81 | 21,49 | 3 | | | | | |
| 40 | 37,20 | 0,55 | 0,75 | 80a-4 | 1391 | 2,50 | 37,4 | 132,04 | 13,46 | 3 | | | | | |
| | | 0,75 | 1 | 80B-4 | 1394 | 1,83 | 37,5 | 179,67 | 18,31 | 3 | | | | | |
| | | 1,1 | 1,5 | 90s-4 | 1378 | 1,24 | 37,0 | 266,57 | 27,17 | 3 | | | | | |
| 35 | 33,57 | 0,55 | 0,75 | 80a-4 | 1391 | 2,37 | 41,4 | 119,16 | 12,15 | 3 | | | | | |
| | | 0,75 | 1 | 80B-4 | 1394 | 1,74 | 41,5 | 162,14 | 16,53 | 3 | | | | | |
| | | 1,1 | 1,5 | 90s-4 | 1378 | 1,17 | 41,0 | 240,56 | 24,52 | 3 | | | | | |

| STON 3 (300 nm) | | input | | | | fs | output | | | stage | input B5 iec 72-1 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ratio i: rated | ratio i: real | kW | Hp | motor | $n_1$ [rpm] | | $n_2$ [rpm] | $m_2$ [nm] | $m_2$ [Kgm] | | 63 | 71 | 80 | 90 | 100/112 |
| 30 | 28,59 | 0,55 | 0,75 | 80a-4 | 1391 | 2,81 | 48,6 | 101,49 | 10,35 | 3 | | | | | |
| | | 0,75 | 1 | 80B-4 | 1394 | 2,07 | 48,8 | 138,10 | 14,08 | 3 | | | | | |
| | | 1,1 | 1,5 | 90s-4 | 1378 | 1,39 | 48,2 | 204,89 | 20,89 | 3 | | | | | |
| 25 | 24,96 | 0,55 | 0,75 | 80a-4 | 1391 | 3,09 | 55,7 | 88,58 | 9,03 | 3 | | | | | |
| | | 0,75 | 1 | 80B-4 | 1394 | 2,27 | 55,9 | 120,54 | 12,29 | 3 | | | | | |
| | | 1,1 | 1,5 | 90s-4 | 1378 | 1,53 | 55,2 | 178,84 | 18,23 | 3 | | | | | |
| 20 | 21,11 | 0,75 | 1 | 80B-4 | 1450 | 2,60 | 68,7 | 98,03 | 9,99 | 3 | | | | | |
| | | 1,1 | 1,5 | 90s-4 | 1378 | 1,69 | 65,3 | 151,29 | 15,42 | 3 | | | | | |
| | | 1,5 | 2 | 90L-4 | 1413 | 1,27 | 66,9 | 201,20 | 20,51 | 3 | | | | | |
| 25 | 25,09 | 0,55 | 0,75 | 80a-4 | 1391 | 2,49 | 55,4 | 90,94 | 9,27 | 2 | | | | | |
| | | 0,75 | 1 | 80B-4 | 1394 | 1,83 | 55,6 | 123,75 | 12,61 | 2 | | | | | |
| | | 1,1 | 1,5 | 90s-4 | 1378 | 1,23 | 54,9 | 183,60 | 18,72 | 2 | | | | | |
| 20 | 19,68 | 0,55 | 0,75 | 80a-4 | 1391 | 2,79 | 70,7 | 71,36 | 7,27 | 2 | | | | | |
| | | 0,75 | 1 | 80B-4 | 1394 | 2,05 | 70,8 | 97,09 | 9,90 | 2 | | | | | |
| | | 1,1 | 1,5 | 90s-4 | 1378 | 1,38 | 70,0 | 144,06 | 14,68 | 2 | | | | | |
| 15 | 15,54 | 0,75 | 1 | 80B-4 | 1394 | 2,67 | 89,7 | 76,65 | 7,81 | 2 | | | | | |
| | | 1,1 | 1,5 | 90s-4 | 1378 | 1,80 | 88,7 | 113,73 | 11,59 | 2 | | | | | |
| | | 1,5 | 2 | 90L-4 | 1413 | 1,35 | 90,9 | 151,24 | 15,42 | 2 | | | | | |
| 13 | 12,01 | 0,75 | 1 | 80B-4 | 1394 | 2,90 | 116,1 | 59,23 | 6,04 | 2 | | | | | |
| | | 1,1 | 1,5 | 90s-4 | 1378 | 1,96 | 114,8 | 87,88 | 8,96 | 2 | | | | | |
| | | 1,5 | 2 | 90L-4 | 1413 | 1,47 | 117,7 | 116,87 | 11,91 | 2 | | | | | |
| 10 | 10,48 | 0,75 | 1 | 80B-4 | 1394 | 2,90 | 133,0 | 51,70 | 5,27 | 2 | | | | | |
| | | 1,1 | 1,5 | 90s-4 | 1378 | 1,96 | 131,5 | 76,71 | 7,82 | 2 | | | | | |
| | | 1,5 | 1 | 90L-4 | 1413 | 1,47 | 134,8 | 102,01 | 10,40 | 2 | | | | | |
| 7 | 6,48 | 1,1 | 1,5 | 90s-4 | 1378 | 3,20 | 212,7 | 47,42 | 4,83 | 2 | | | | | |
| | | 1,5 | 2 | 90L-4 | 1413 | 2,41 | 218,1 | 63,06 | 6,43 | 2 | | | | | |
| | | 2,2 | 3 | 90L-2 | 2859 | 3,00 | 441,3 | 45,71 | 4,66 | 2 | | | | | |
| | | 2,2 | 3 | 100La-4 | 1435 | 1,67 | 221,5 | 91,07 | 9,28 | 2 | | | | | |
| | | 3 | 4 | 100L-2 | 2882 | 2,22 | 444,8 | 61,83 | 6,30 | 2 | | | | | |
| 5 | 5,04 | 1,1 | 1,5 | 90s-4 | 1378 | 3,20 | 273,5 | 36,87 | 3,76 | 2 | | | | | |
| | | 1,5 | 2 | 90L-4 | 1413 | 2,41 | 280,5 | 49,03 | 5,00 | 2 | | | | | |
| | | 2,2 | 3 | 90L-2 | 2859 | 3,00 | 567,5 | 35,54 | 3,62 | 2 | | | | | |
| | | 2,2 | 3 | 100La-4 | 1435 | 1,67 | 284,9 | 70,80 | 7,22 | 2 | | | | | |
| | | 3 | 4 | 100L-2 | 2882 | 2,22 | 572,1 | 48,07 | 4,90 | 2 | | | | | |
| | | 4 | 5 | 112m-2 | 2887 | 1,67 | 573,1 | 63,99 | 6,52 | 2 | | | | | |
| 4 | 4,13 | 1,1 | 1,5 | 90s-4 | 1378 | 3,43 | 333,6 | 30,23 | 3,08 | 2 | | | | | |
| | | 1,5 | 2 | 90L-4 | 1413 | 2,58 | 342,1 | 40,20 | 4,10 | 2 | | | | | |
| | | 2,2 | 3 | 90L-2 | 2859 | 3,22 | 692,2 | 29,14 | 2,97 | 2 | | | | | |
| | | 2,2 | 3 | 100La-4 | 1435 | 1,79 | 347,4 | 58,06 | 5,92 | 2 | | | | | |
| | | 3 | 4 | 100L-2 | 2882 | 2,38 | 697,7 | 39,42 | 4,02 | 2 | | | | | |
| | | 4 | 5,5 | 112m-2 | 2887 | 1,79 | 699,0 | 52,47 | 5,35 | 2 | | | | | |

# performance taBLe

| **STON 4** (450 nm) | | input | | | | fs | output | | | input B5 iec 72-1 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ratio i: rated | ratio i: real | kW | Hp | motor | $n_1$ [rpm] | | $n_2$ [rpm] | $m_2$ [nm] | $m_2$ [Kgm] | stage | 63 | 71 | 80 | 90 | 100/112 |
| 120 | 118,81 | 0,13 | 0,18 | 71B-8 | 651 | 1,97 | 5,5 | 212,98 | 21,71 | 3 | | | | | |
| | | 0,18 | 0,25 | 80a-8 | 650 | 1,42 | 5,5 | 295,34 | 30,11 | 3 | | | | | |
| | | 0,18 | 0,25 | 71a-6 | 921 | 2,02 | 7,8 | 208,44 | 21,25 | 3 | | | | | |
| | | 0,25 | 0,35 | 71B-6 | 910 | 1,41 | 7,7 | 293,00 | 29,87 | 3 | | | | | |
| | | 0,25 | 0,35 | 71a-4 | 1366 | 2,15 | 11,5 | 195,19 | 19,90 | 3 | | | | | |
| | | 0,37 | 0,5 | 71B-4 | 1450 | 1,43 | 12,2 | 272,15 | 27,74 | 3 | | | | | |
| 110 | 106,41 | 0,13 | 0,18 | 71B-8 | 651 | 2,17 | 6,1 | 190,75 | 19,44 | 3 | | | | | |
| | | 0,18 | 0,25 | 80a-8 | 650 | 1,42 | 6,1 | 264,52 | 26,96 | 3 | | | | | |
| | | 0,18 | 0,25 | 71a-6 | 921 | 2,02 | 8,7 | 186,69 | 19,03 | 3 | | | | | |
| | | 0,25 | 0,35 | 71B-6 | 910 | 1,41 | 8,6 | 262,43 | 26,75 | 3 | | | | | |
| | | 0,25 | 0,35 | 71a-4 | 1366 | 2,15 | 12,8 | 174,82 | 17,82 | 3 | | | | | |
| | | 0,37 | 0,5 | 71B-4 | 1450 | 1,43 | 13,6 | 243,75 | 24,85 | 3 | | | | | |
| 100 | 98,61 | 0,18 | 0,25 | 71a-6 | 921 | 2,01 | 9,3 | 173,01 | 17,64 | 3 | | | | | |
| | | 0,25 | 0,35 | 71a-4 | 1366 | 2,15 | 13,9 | 162,01 | 16,51 | 3 | | | | | |
| | | 0,37 | 0,5 | 71B-4 | 1400 | 1,49 | 14,2 | 233,95 | 23,85 | 3 | | | | | |
| | | 0,55 | 0,75 | 80a-4 | 1391 | 1,28 | 14,1 | 350,01 | 35,68 | 3 | | | | | |
| 90 | 87,80 | 0,18 | 0,25 | 71a-6 | 921 | 2,92 | 10,5 | 154,05 | 15,70 | 3 | | | | | |
| | | 0,25 | 0,35 | 71a-4 | 1366 | 3,12 | 15,6 | 144,26 | 14,70 | 3 | | | | | |
| | | 0,37 | 0,5 | 71B-4 | 1400 | 2,16 | 15,9 | 208,31 | 21,23 | 3 | | | | | |
| | | 0,55 | 0,75 | 80a-4 | 1450 | 1,36 | 16,5 | 298,98 | 30,48 | 3 | | | | | |
| 80 | 81,08 | 0,25 | 0,35 | 71a-4 | 1366 | 3,06 | 16,8 | 133,22 | 13,58 | 3 | | | | | |
| | | 0,37 | 0,5 | 71B-4 | 1400 | 2,12 | 17,3 | 192,37 | 19,61 | 3 | | | | | |
| | | 0,55 | 0,74 | 80a-4 | 1391 | 1,41 | 17,2 | 287,81 | 29,34 | 3 | | | | | |
| 70 | 69,57 | 0,37 | 0,5 | 71B-4 | 1400 | 2,45 | 20,1 | 165,05 | 16,82 | 3 | | | | | |
| | | 0,55 | 0,75 | 80a-4 | 1391 | 1,64 | 20,0 | 246,93 | 25,17 | 3 | | | | | |
| | | 0,75 | 1 | 80B-4 | 1394 | 1,39 | 20,0 | 336,00 | 34,25 | 3 | | | | | |
| 60 | 57,89 | 0,37 | 0,5 | 71B-4 | 1400 | 3,40 | 24,2 | 137,35 | 14,00 | 3 | | | | | |
| | | 0,55 | 0,75 | 80a-4 | 1391 | 2,27 | 24,0 | 205,49 | 20,95 | 3 | | | | | |
| | | 0,75 | 1 | 80B-4 | 1394 | 1,25 | 24,1 | 279,61 | 28,50 | 3 | | | | | |
| 55 | 53,46 | 0,37 | 0,5 | 71B-4 | 1400 | 2,76 | 26,2 | 126,84 | 12,93 | 3 | | | | | |
| | | 0,55 | 0,75 | 80a-4 | 1391 | 1,84 | 26,0 | 189,76 | 19,34 | 3 | | | | | |
| | | 0,75 | 1 | 80B-4 | 1394 | 1,29 | 26,1 | 258,21 | 26,32 | 3 | | | | | |
| 50 | 49,50 | 0,37 | 0,5 | 71B-4 | 1400 | 2,84 | 28,3 | 117,43 | 11,97 | 3 | | | | | |
| | | 0,55 | 0,75 | 80a-4 | 1391 | 1,90 | 28,1 | 175,69 | 17,91 | 3 | | | | | |
| | | 0,75 | 1 | 80B-4 | 1394 | 1,33 | 28,2 | 239,06 | 24,37 | 3 | | | | | |
| 45 | 45,87 | 0,37 | 0,50 | 71B-4 | 1400 | 2,92 | 30,5 | 108,82 | 11,09 | 3 | | | | | |
| | | 0,55 | 0,74 | 80a-4 | 1391 | 1,95 | 30,3 | 162,81 | 16,60 | 3 | | | | | |
| | | 0,75 | 1 | 80B-4 | 1394 | 1,33 | 30,4 | 221,54 | 22,58 | 3 | | | | | |
| 40 | 38,15 | 0,37 | 0,5 | 71B-4 | 1400 | 3,25 | 36,7 | 90,51 | 9,23 | 3 | | | | | |
| | | 0,55 | 0,75 | 80a-4 | 1391 | 2,18 | 36,5 | 135,42 | 13,80 | 3 | | | | | |
| | | 0,75 | 1 | 80B-4 | 1394 | 1,29 | 36,5 | 184,26 | 18,78 | 3 | | | | | |
| 35 | 35,60 | 0,37 | 0,5 | 71B-4 | 1400 | 2,81 | 39,3 | 84,45 | 8,61 | 3 | | | | | |
| | | 0,55 | 0,75 | 80a-4 | 1391 | 1,88 | 39,1 | 126,35 | 12,88 | 3 | | | | | |
| | | 0,75 | 1 | 80B-4 | 1394 | 1,25 | 39,2 | 171,92 | 17,53 | 3 | | | | | |
| 30 | 29,58 | 0,55 | 0,75 | 80a-4 | 1391 | 2,05 | 47,0 | 104,98 | 10,70 | 3 | | | | | |
| | | 0,75 | 1 | 80B-4 | 1394 | 1,50 | 47,1 | 142,85 | 14,56 | 3 | | | | | |
| | | 1,1 | 1,5 | 90s-4 | 1378 | 1,57 | 46,6 | 211,94 | 21,60 | 3 | | | | | |

| **STON 4** (450 nm) | | input | | | | fs | output | | | input B5 iec 72-1 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ratio i: rated | ratio i: real | kW | Hp | motor | $n_1$ [rpm] | | $n_2$ [rpm] | $m_2$ [nm] | $m_2$ [Kgm] | stage | 63 | 71 | 80 | 90 | 100/112 |
| 25 | 25,48 | 0,55 | 0,75 | 80a-4 | 1391 | 3,01 | 54,6 | 90,45 | 9,22 | 3 | | | | | |
| | | 0,75 | 1 | 80B-4 | 1394 | 2,21 | 54,7 | 123,08 | 12,55 | 3 | | | | | |
| | | 1,1 | 1,5 | 90s-4 | 1450 | 1,57 | 56,9 | 173,55 | 17,69 | 3 | | | | | |
| 20 | 22,39 | 0,55 | 0,75 | 80a-4 | 1391 | 3,26 | 62,1 | 79,47 | 8,10 | 3 | | | | | |
| | | 0,75 | 1 | 80B-4 | 1394 | 2,40 | 62,3 | 108,13 | 11,02 | 3 | | | | | |
| | | 1,1 | 1,5 | 90s-4 | 1378 | 1,62 | 61,5 | 160,43 | 16,35 | 3 | | | | | |
| 23 | 22,75 | 0,75 | 1 | 80B-4 | 1394 | 2,65 | 61,3 | 112,22 | 11,44 | 2 | | | | | |
| | | 1,1 | 1,5 | 90s-4 | 1450 | 1,88 | 63,7 | 158,23 | 16,13 | 2 | | | | | |
| | | 1,5 | 2 | 90L-4 | 1413 | 1,34 | 62,1 | 221,41 | 22,57 | 2 | | | | | |
| 20 | 20,38 | 0,75 | 1 | 80B-4 | 1394 | 2,65 | 68,4 | 100,51 | 10,25 | 2 | | | | | |
| | | 1,1 | 1,5 | 90s-4 | 1450 | 1,88 | 71,2 | 141,72 | 14,45 | 2 | | | | | |
| | | 1,5 | 2 | 90L-4 | 1413 | 1,34 | 69,3 | 198,31 | 20,22 | 2 | | | | | |
| 18 | 18,16 | 1,1 | 1,5 | 90s-4 | 1450 | 2,75 | 79,9 | 126,29 | 12,87 | 2 | | | | | |
| | | 1,5 | 2 | 90L-4 | 1413 | 1,96 | 77,8 | 176,72 | 18,01 | 2 | | | | | |
| | | 2,2 | 3 | 100La-4 | 1435 | 1,36 | 79,0 | 255,22 | 26,02 | 2 | | | | | |
| 15 | 14,29 | 1,1 | 1,5 | 90s-4 | 1450 | 2,97 | 101,5 | 99,37 | 10,13 | 2 | | | | | |
| | | 1,5 | 2 | 90L-4 | 1413 | 2,12 | 98,9 | 139,06 | 14,17 | 2 | | | | | |
| | | 2,2 | 3 | 100La-4 | 1435 | 1,47 | 100,4 | 200,82 | 20,47 | 2 | | | | | |
| 10 | 9,97 | 1,5 | 2 | 90L-4 | 1413 | 3,03 | 141,7 | 97,07 | 9,90 | 2 | | | | | |
| | | 2,2 | 3 | 100La-4 | 1435 | 2,10 | 143,9 | 140,19 | 14,29 | 2 | | | | | |
| | | 3 | 4 | 100LB-4 | 1407 | 1,51 | 141,1 | 194,98 | 19,88 | 2 | | | | | |
| 7 | 6,60 | 1,5 | 2 | 90L-4 | 1413 | 3,20 | 214,2 | 64,20 | 6,54 | 2 | | | | | |
| | | 2,2 | 3 | 100La-4 | 1435 | 2,21 | 217,6 | 92,71 | 9,45 | 2 | | | | | |
| | | 3 | 4 | 100LB-4 | 1407 | 1,59 | 213,3 | 128,94 | 13,14 | 2 | | | | | |
| | | 3 | 4 | 100L-2 | 2882 | 2,87 | 436,9 | 62,95 | 6,42 | 2 | | | | | |
| | | 4 | 5 | 112m-2 | 2887 | 2,15 | 437,7 | 83,79 | 8,54 | 2 | | | | | |
| 5 | 5,68 | 1,5 | 2 | 90L-4 | 1413 | 3,20 | 248,6 | 55,31 | 5,64 | 2 | | | | | |
| | | 2,2 | 3 | 100La-4 | 1435 | 2,21 | 252,5 | 79,88 | 8,14 | 2 | | | | | |
| | | 3 | 4 | 100LB-4 | 1407 | 1,59 | 247,6 | 111,10 | 11,33 | 2 | | | | | |
| | | 3 | 4 | 100L-2 | 2882 | 2,87 | 507,1 | 54,24 | 5,53 | 2 | | | | | |
| | | 4 | 5 | 112m-2 | 2887 | 2,15 | 508,0 | 72,19 | 7,36 | 2 | | | | | |
| 4 | 4,06 | 2,2 | 3 | 100La-4 | 1435 | 3,07 | 353,1 | 57,12 | 5,82 | 2 | | | | | |
| | | 3 | 4 | 100LB-4 | 1407 | 2,21 | 346,2 | 79,44 | 8,10 | 2 | | | | | |
| | | 4 | 5,5 | 112m-4 | 1415 | 1,67 | 348,2 | 105,32 | 10,74 | 2 | | | | | |
| | | 3 | 4 | 100L-2 | 2882 | 3,98 | 709,2 | 38,78 | 3,95 | 2 | | | | | |
| | | 4 | 5 | 112m-2 | 2887 | 2,99 | 710,4 | 51,62 | 5,26 | 2 | | | | | |
| | | 5,5 | 7,5 | 112mB-2 | 2883 | 2,17 | 709,4 | 71,08 | 7,25 | 2 | | | | | |

# performance taBLe

| STON 5 (700nm) | | input | | | | fs | output | | | stage | input B5 iec 72-1 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ratio i: rated | ratio i: real | kW | Hp | motor | $n_1$ [rpm] | | $n_2$ [rpm] | $m_2$ [nm] | $m_2$ [Kgm] | | 63 | 71 | 80 | 90 | 100/112 |
| 120 | 117,93 | 0,37 | 0,5 | 90s-8 | 670 | 1,61 | 5,7 | 584,64 | 59,60 | 3 | | | | | |
| | | 0,55 | 0,75 | 80B-6 | 917 | 1,43 | 7,8 | 634,97 | 64,73 | 3 | | | | | |
| | | 0,75 | 1 | 80B-4 | 1394 | 1,24 | 11,8 | 569,59 | 58,06 | 3 | | | | | |
| | | 0,25 | 0,35 | 80B-8 | 691 | 2,45 | 5,9 | 383,02 | 39,04 | 3 | | | | | |
| | | 0,37 | 0,5 | 80a-6 | 928 | 2,16 | 7,9 | 422,10 | 43,03 | 3 | | | | | |
| | | 0,55 | 0,75 | 80a-4 | 1391 | 1,68 | 11,8 | 418,60 | 42,67 | 3 | | | | | |
| | | 0,37 | 0,5 | 71B-4 | 1400 | 2,52 | 11,9 | 279,79 | 28,52 | 3 | | | | | |
| 110 | 101,08 | 0,37 | 0,5 | 90s-8 | 670 | 1,34 | 6,6 | 501,12 | 51,08 | 3 | | | | | |
| | | 0,55 | 0,75 | 80B-6 | 917 | 1,27 | 9,1 | 544,26 | 55,48 | 3 | | | | | |
| | | 0,75 | 1 | 80B-4 | 1394 | 1,29 | 13,8 | 488,22 | 49,77 | 3 | | | | | |
| | | 0,25 | 0,35 | 80B-8 | 691 | 2,04 | 6,8 | 328,30 | 33,47 | 3 | | | | | |
| | | 0,37 | 0,5 | 80a-6 | 928 | 1,91 | 9,2 | 361,80 | 36,88 | 3 | | | | | |
| | | 0,55 | 0,75 | 80a-4 | 1391 | 1,76 | 13,8 | 358,80 | 36,57 | 3 | | | | | |
| | | 0,37 | 0,5 | 71B-4 | 1400 | 2,63 | 13,8 | 239,82 | 24,45 | 3 | | | | | |
| 100 | 98,70 | 0,75 | 1 | 80B-4 | 1394 | 1,24 | 14,1 | 476,70 | 48,59 | 3 | | | | | |
| | | 0,55 | 0,75 | 80a-4 | 1391 | 1,69 | 14,1 | 350,34 | 35,71 | 3 | | | | | |
| | | 0,37 | 0,5 | 71B-4 | 1400 | 2,53 | 14,2 | 234,17 | 23,87 | 3 | | | | | |
| | | 0,37 | 0,5 | 90s-8 | 670 | 1,33 | 6,8 | 489,30 | 49,88 | 3 | | | | | |
| | | 0,55 | 0,75 | 80B-6 | 917 | 1,11 | 9,3 | 531,42 | 54,17 | 3 | | | | | |
| 90 | 84,60 | 1,1 | 1,5 | 90s-4 | 1378 | 1,21 | 16,3 | 606,24 | 61,80 | 3 | | | | | |
| | | 0,75 | 1 | 80B-4 | 1394 | 1,79 | 16,5 | 408,60 | 41,65 | 3 | | | | | |
| | | 0,55 | 0,75 | 80a-4 | 1391 | 2,43 | 16,4 | 300,29 | 30,61 | 3 | | | | | |
| 80 | 79,76 | 1,1 | 1,5 | 90s-4 | 1378 | 1,17 | 17,3 | 571,54 | 58,26 | 3 | | | | | |
| | | 0,75 | 1 | 80B-4 | 1394 | 1,73 | 17,5 | 385,21 | 39,27 | 3 | | | | | |
| | | 0,55 | 0,75 | 80a-4 | 1391 | 2,35 | 17,4 | 283,10 | 28,86 | 3 | | | | | |
| 70 | 68,36 | 1,1 | 1,5 | 90s-4 | 1378 | 1,29 | 20,2 | 489,89 | 49,94 | 3 | | | | | |
| | | 0,75 | 1 | 80B-4 | 1394 | 1,92 | 20,4 | 330,18 | 33,66 | 3 | | | | | |
| | | 0,55 | 0,75 | 80a-4 | 1391 | 2,61 | 20,3 | 242,66 | 24,74 | 3 | | | | | |
| 60 | 58,67 | 1,1 | 1,5 | 90s-4 | 1378 | 1,17 | 23,5 | 420,40 | 42,85 | 3 | | | | | |
| | | 0,75 | 1 | 80B-4 | 1394 | 1,73 | 23,8 | 283,35 | 28,88 | 3 | | | | | |
| | | 0,55 | 0,75 | 80a-4 | 1391 | 2,35 | 23,7 | 208,24 | 21,23 | 3 | | | | | |
| 55 | 55,55 | 1,5 | 2 | 90L-4 | 1413 | 1,30 | 25,4 | 529,33 | 53,96 | 3 | | | | | |
| | | 1,1 | 1,5 | 90s-4 | 1378 | 1,73 | 24,8 | 398,04 | 40,57 | 3 | | | | | |
| | | 0,75 | 1 | 80B-4 | 1394 | 2,57 | 25,1 | 268,27 | 27,35 | 3 | | | | | |
| 50 | 50,29 | 1,5 | 2 | 90L-4 | 1413 | 1,16 | 28,1 | 479,21 | 48,85 | 3 | | | | | |
| | | 1,1 | 1,5 | 90s-4 | 1378 | 1,54 | 27,4 | 360,35 | 36,73 | 3 | | | | | |
| | | 0,75 | 1 | 80B-4 | 1394 | 2,29 | 27,7 | 242,87 | 24,76 | 3 | | | | | |
| 45 | 46,07 | 1,5 | 2 | 90L-4 | 1413 | 1,38 | 30,7 | 439,05 | 44,75 | 3 | | | | | |
| | | 1,1 | 1,5 | 90s-4 | 1378 | 1,84 | 29,9 | 330,14 | 33,65 | 3 | | | | | |
| | | 0,75 | 1 | 80B-4 | 1394 | 2,73 | 30,3 | 222,51 | 22,68 | 3 | | | | | |
| 40 | 40,86 | 1,5 | 2 | 90L-4 | 1413 | 1,32 | 34,6 | 389,36 | 39,69 | 3 | | | | | |
| | | 1,1 | 1,5 | 90s-4 | 1378 | 1,75 | 33,7 | 292,78 | 29,85 | 3 | | | | | |
| | | 0,75 | 1 | 80B-4 | 1394 | 2,60 | 34,1 | 197,33 | 20,12 | 3 | | | | | |
| 35 | 33,89 | 2,2 | 3 | 100La-4 | 1435 | 1,27 | 42,3 | 466,39 | 47,54 | 3 | | | | | |
| | | 1,5 | 2 | 90L-4 | 1413 | 1,84 | 41,7 | 322,95 | 32,92 | 3 | | | | | |
| | | 1,1 | 1,5 | 90s-4 | 1378 | 2,45 | 40,7 | 242,84 | 24,75 | 3 | | | | | |
| 30 | 29,85 | 2,2 | 3 | 100La-4 | 1435 | 1,33 | 48,1 | 410,87 | 41,88 | 3 | | | | | |
| | | 1,5 | 2 | 90L-4 | 1413 | 1,92 | 47,3 | 284,50 | 29,00 | 3 | | | | | |
| | | 1,1 | 1,5 | 90s-4 | 1378 | 2,56 | 46,2 | 213,93 | 21,81 | 3 | | | | | |

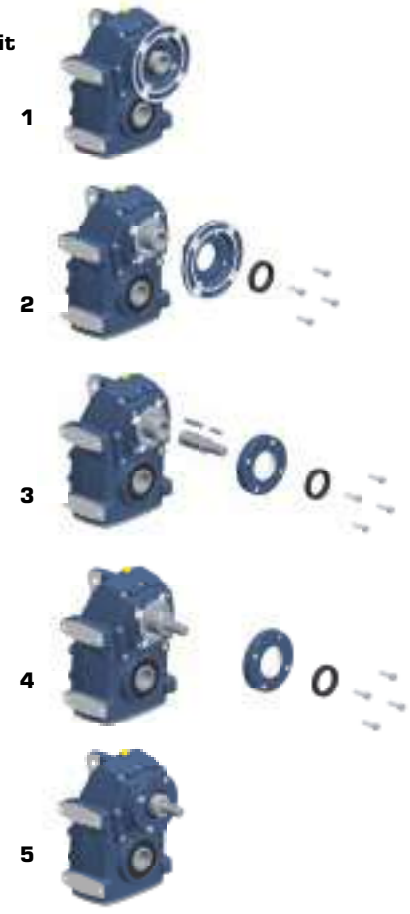
| STON 5 (700nm) | | input | | | | fs | output | | | stage | input B5 iec 72-1 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ratio i: rated | ratio i: real | kW | Hp | motor | $n_1$ [rpm] | | $n_2$ [rpm] | $m_2$ [nm] | $m_2$ [Kgm] | | 63 | 71 | 80 | 90 | 100/112 |
| 25 | 25,45 | 2,2 | 3 | 100La-4 | 1435 | 1,20 | 56,4 | 350,26 | 35,70 | 3 | | | | | |
| | | 1,5 | 2 | 90L-4 | 1413 | 1,73 | 55,5 | 242,53 | 24,72 | 3 | | | | | |
| | | 1,1 | 1,5 | 90s-4 | 1378 | 2,30 | 54,1 | 182,37 | 18,59 | 3 | | | | | |
| 20 | 21,23 | 2,2 | 3 | 100La-4 | 1435 | 1,77 | 67,6 | 292,23 | 29,79 | 3 | | | | | |
| | | 1,5 | 2 | 90L-4 | 1413 | 2,56 | 66,5 | 202,35 | 20,63 | 3 | | | | | |
| | | 1,1 | 1,5 | 90s-4 | 1378 | 3,40 | 64,9 | 152,16 | 15,51 | 3 | | | | | |
| 15 | 16,31 | 2,2 | 3 | 100La-4 | 1435 | 1,77 | 88,0 | 224,43 | 22,88 | 3 | | | | | |
| | | 1,5 | 2 | 90L-4 | 1413 | 2,56 | 86,6 | 155,40 | 15,84 | 3 | | | | | |
| | | 1,1 | 1,5 | 90s-4 | 1378 | 3,40 | 84,5 | 116,86 | 11,91 | 3 | | | | | |
| 25 | 25,27 | 3 | 4 | 100LB-4 | 1407 | 1,11 | 55,7 | 494,00 | 50,36 | 2 | | | | | |
| | | 2,2 | 3 | 100La-4 | 1435 | 1,54 | 56,8 | 355,20 | 36,21 | 2 | | | | | |
| | | 1,5 | 2 | 90L-4 | 1413 | 2,23 | 55,9 | 245,95 | 25,07 | 2 | | | | | |
| 20 | 17,99 | 5 | 6,8 | 112m-4 | 1415 | 1,15 | 78,7 | 582,80 | 59,41 | 2 | | | | | |
| | | 3 | 4 | 100LB-4 | 1407 | 1,91 | 78,2 | 351,67 | 35,85 | 2 | | | | | |
| | | 2,2 | 3 | 100La-4 | 1435 | 2,66 | 79,8 | 252,86 | 25,78 | 2 | | | | | |
| 15 | 15,06 | 4 | 5,5 | 112m-4 | 1415 | 1,25 | 94,0 | 390,21 | 39,78 | 2 | | | | | |
| | | 3 | 4 | 100LB-4 | 1407 | 1,65 | 93,4 | 294,32 | 30,00 | 2 | | | | | |
| | | 2,2 | 3 | 100La-4 | 1435 | 2,30 | 95,3 | 211,62 | 21,57 | 2 | | | | | |
| 13 | 12,00 | 5 | 6,8 | 112mB-4 | 1445 | 1,29 | 120,4 | 380,59 | 38,80 | 2 | | | | | |
| | | 4 | 5,5 | 112m-4 | 1415 | 1,58 | 117,9 | 310,93 | 31,70 | 2 | | | | | |
| | | 3 | 4 | 100LB-4 | 1407 | 2,10 | 117,3 | 234,52 | 23,91 | 2 | | | | | |
| 10 | 10,04 | 5 | 6,8 | 112mB-4 | 1445 | 1,45 | 143,9 | 318,53 | 32,47 | 2 | | | | | |
| | | 4 | 5,5 | 112m-4 | 1415 | 1,77 | 140,9 | 260,23 | 26,53 | 2 | | | | | |
| | | 3 | 4 | 100LB-4 | 1407 | 2,35 | 140,1 | 196,28 | 20,01 | 2 | | | | | |
| 7 | 7,39 | 5 | 6,8 | 112mB-4 | 1445 | 1,45 | 195,6 | 234,30 | 23,88 | 2 | | | | | |
| | | 4 | 5,5 | 112m-4 | 1415 | 1,77 | 191,6 | 191,41 | 19,51 | 2 | | | | | |
| | | 3 | 4 | 100LB-4 | 1407 | 2,35 | 190,5 | 144,38 | 14,72 | 2 | | | | | |
| 5 | 5,22 | 5 | 6,8 | 112mB-4 | 1445 | 1,45 | 276,7 | 165,67 | 16,89 | 2 | | | | | |
| | | 4 | 5,5 | 112m-4 | 1415 | 1,77 | 271,0 | 135,34 | 13,80 | 2 | | | | | |
| | | 3 | 4 | 100LB-4 | 1407 | 2,35 | 269,4 | 102,08 | 10,41 | 2 | | | | | |
| | | 3 | 4 | 100L-2 | 2882 | 4,23 | 551,9 | 49,84 | 5,08 | 2 | | | | | |
| | | 4 | 5 | 112m-2 | 2887 | 3,18 | 552,8 | 66,34 | 6,76 | 2 | | | | | |
| | | 5,5 | 7,5 | 112mB-2 | 2883 | 2,31 | 552,1 | 91,34 | 9,31 | 2 | | | | | |
| 4 | 3,95 | 5 | 6,8 | 112mB-4 | 1445 | 1,61 | 365,8 | 125,33 | 12,78 | 2 | | | | | |
| | | 4 | 5,5 | 112m-4 | 1415 | 1,97 | 358,2 | 102,39 | 10,44 | 2 | | | | | |
| | | 3 | 4 | 100LB-4 | 1407 | 2,61 | 356,1 | 77,23 | 7,87 | 2 | | | | | |
| | | 3 | 4 | 100L-2 | 2882 | 4,70 | 729,5 | 37,70 | 3,84 | 2 | | | | | |
| | | 4 | 5 | 112m-2 | 2887 | 3,53 | 730,8 | 50,18 | 5,12 | 2 | | | | | |
| | | 5,5 | 7,5 | 112mB-2 | 2883 | 2,56 | 729,8 | 69,10 | 7,04 | 2 | | | | | |

# DIMENSIONS

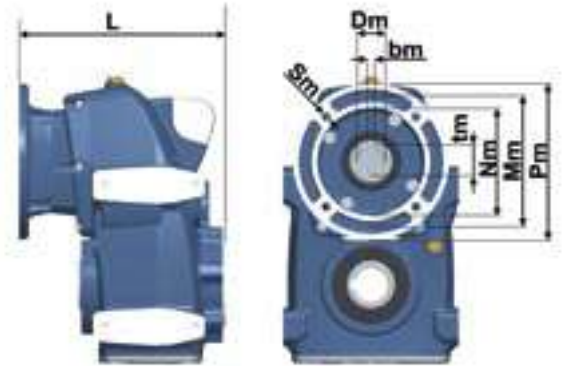
STON input and combinations

| Ston | motor type | | Nm | Mm | Pm | Sm | Dm | tm | bm | L | L* | L1 | D1 | f | b1 | t1 | M2 | L (MF) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 63 | B5 | 95 | 115 | 140 | M8 | 11 | 12,8 | 4 | 177,5 | 4,5 | 40 | 19 | M6x16 | 6 | 21,5 | 50 | 223 |
| | 71 | B5 | 110 | 130 | 160 | | 14 | 16,3 | 5 | | | | | | | | | |
| | 80 | B5 | 130 | 165 | 200 | M10 | 19 | 21,8 | 6 | 178,5 | 5,5 | | | | | | | 223 |
| | 90 | B5 | | | | | 24 | 27,3 | 8 | | | | | | | | | |
| | 100/112 | B5 | 180 | 215 | 250 | M12 | 28 | 31,3 | 8 | 184,5 | 5,5 | | | | | | | 229 |
| 4 | 71 | B5 | 110 | 130 | 160 | M8 | 14 | 16,3 | 5 | 211,5 | 5,5 | 40 | 19 | M6x16 | 6 | 21,5 | 50 | 256 |
| | 80 | B5 | 130 | 165 | 200 | M10 | 19 | 21,8 | 6 | 220,5 | 6 | | | | | | | 264,5 |
| | 90 | B5 | | | | | 24 | 27,3 | 8 | | | | | | | | | |
| | 100/112 | B5 | 180 | 215 | 250 | M12 | 28 | 31,3 | 8 | 221,5 | 6,5 | | | | | | | 265 |
| 5 | 71 | B5 | 110 | 130 | 160 | M8 | 14 | 16,3 | 5 | 226,5 | 7,5 | 50 | 24 | M8x25 | 8 | 27 | 60 | 279 |
| | 80 | B5 | 130 | 165 | 200 | M10 | 19 | 21,8 | 6 | 235,5 | 6 | | | | | | | 289,5 |
| | 90 | B5 | | | | | 24 | 27,3 | 8 | | | | | | | | | |
| | 100/112 | B5 | 180 | 215 | 250 | M12 | 28 | 31,3 | 8 | 236,5 | 6,5 | | | | | | | 290 |

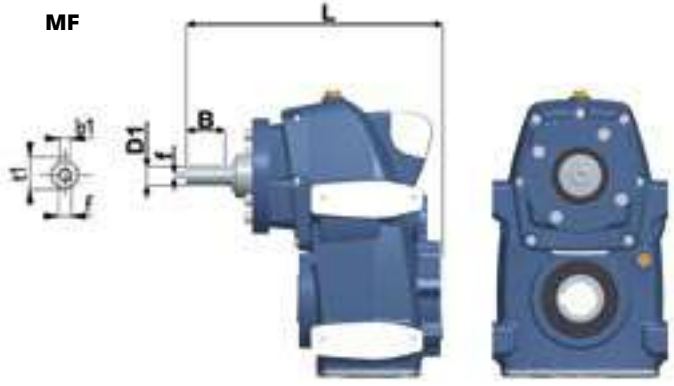
**MF kit**




**PAM**




**MF**



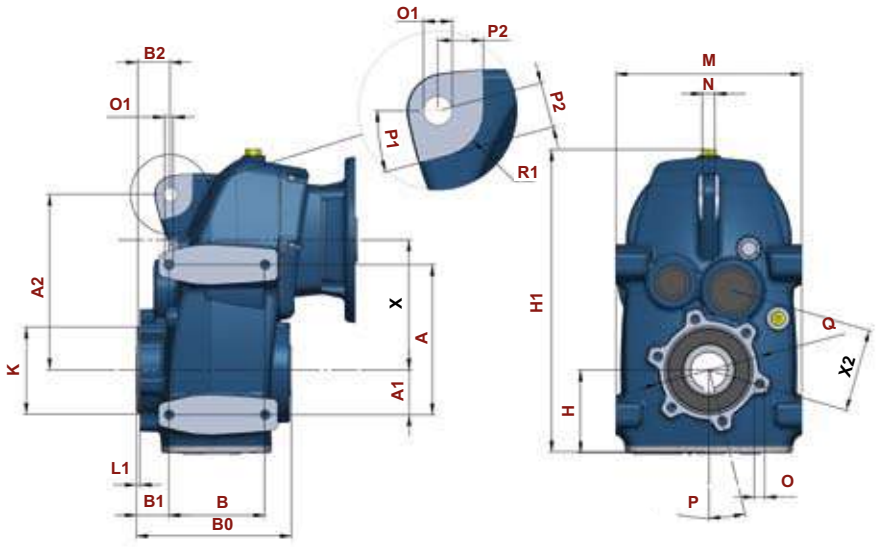


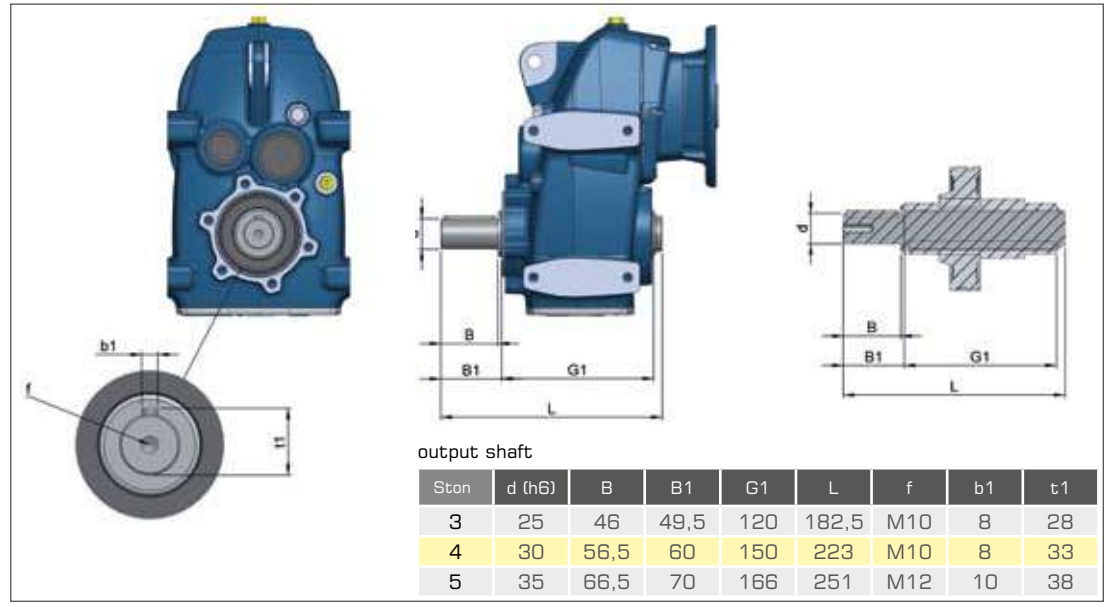



output flange

| STON | OFL | KP | KM (j6) | KN | KS | KL | KA | KB | KC (0; -0,5) |
|---|---|---|---|---|---|---|---|---|---|
| 3 | OFL160 | 160 | 110 | 130 | M8x30 | 22 | 26 | 10 | 3,5 |
| 4 | OFL200 | 200 | 130 | 165 | M10x30 | 20 | 28 | 12 | 3,5 |
| 5 | OFL250 | 250 | 180 | 215 | M12x40 | 29,5 | 26,5 | 12 | 4 |

# DiMenSionS




output shaft

| Ston | d (h6) | B | B1 | G1 | L | f | b1 | t1 |
|---|---|---|---|---|---|---|---|---|
| 3 | 25 | 46 | 49,5 | 120 | 182,5 | M10 | 8 | 28 |
| 4 | 30 | 56,5 | 60 | 150 | 223 | M10 | 8 | 33 |
| 5 | 35 | 66,5 | 70 | 166 | 251 | M12 | 10 | 38 |

foot mounting

| Ston | B2 | A2 | K (Øg7) | A | A1 | o1 | L1 | B1 | B | X | X2 | P1 | R1 | P2 | o1 (Ø) | M | n | H1 | H | P | o | Q (Ø) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 31,5 | 158 | 80 | 115 | 31 | M8x15 | 2,5 | 23 | 77 | 105 | 66 | 17° | 22 | 22 | 14 | 165 | 12 | 250,5 | 71,5 | 15° | M8x15 | 94 |
| 4 | 32 | 170 | 85 | 145 | 43 | M10x15 | 3 | 31 | 93 | 126 | 80 | 15° | 22 | 22 | 14 | 180 | 12 | 294,5 | 81 | 15° | M10x15 | 102 |
| 5 | 40,5 | 198 | 105 | 170 | 55 | M12x20 | 3 | 33,5 | 102 | 137 | 88 | 15° | 22 | 22 | 14 | 200 | 14 | 328 | 93,5 | 15° | M12x20 | 125 |

standard imput shaft

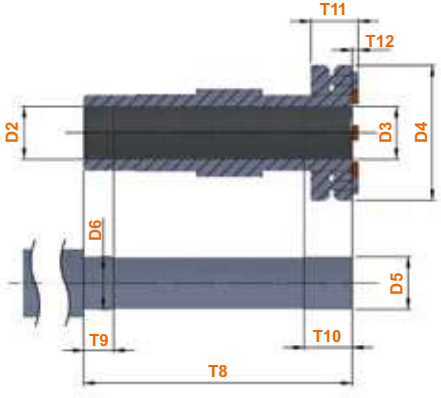
| D1 (Øk6) | D (ØH7) | B0 (±0,1) | t5 | t6 | t7 | V | t (+0,2;0) | e (e9) |
|---|---|---|---|---|---|---|---|---|
| 45 | 30 | 120 | 15 | 15 | 17 | iSo 4762 M10x25 | 33,3 | 8 |
| 50 | 35 | 150 | 18 | 18 | 22 | iSo 4762 M12x30 | 38,5 | 10 |
| 55 | 40 | 166 | 24 | 24 | 29 | iSo 4762 M16x40 | 43,3 | 12 |

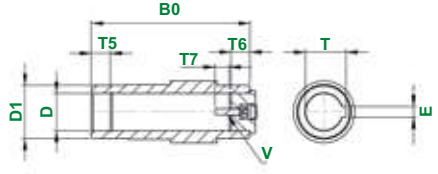
shrink disc shaft

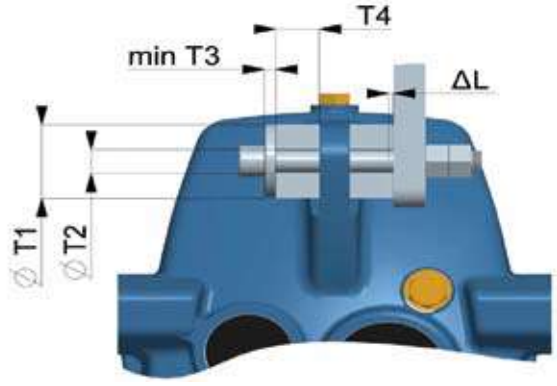
| Ston | D2 (ØH6) | D3 (ØH6) | D4 (Ø) | D5 (Øh6) | ØD6 (h6) | t8 (±0,1) | t9 | t10 | t11 | t12 |
|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 30 | 30 | 80 | 30 | 30 | 148 | 20 | 31 | 24,2 | 5,3 |
| 4 | 35 | 35 | 90 | 35 | 35 | 179 | 20 | 32 | 26,1 | 5,3 |
| 5 | 40 | 40 | 100 | 40 | 40 | 195 | 20 | 26 | 29 | 5,3 |

torque arm

| Ston | Øt1 | Øt2 | t3 | t4 | ΔL |
|---|---|---|---|---|---|
| 3 | 40 | 12,5 | 5 | 20 | 1 |
| 4 | 40 | 12,5 | 5 | 20 | 1,5 |
| 5 | 40 | 12,5 | 5 | 20 | 1,5 |



# TERMS OF SALE AND WARRANTY

ARTICLE 1 - **GUARANTEE**

1.1 Barring written agreements, entered into between the parties hereto each time, Motive hereby guarantees compliance with specific agreements.
The guarantee for defects shall be restricted to product defects following design, materials or manufacturing defects leading back to Motive.
The guarantee shall not include:

* Faults or damages ensuing from transport. Faults or damages ensuing from installation defects; incompetent use of the product, or any other unsuitable use.
* Tampering or damages ensuing from use by non-authorised staff and/or use of non-original parts and/or spare parts;
* Defects and/or damages ensuing from chemical agents and/or atmospheric phenomena (e.g. burnt out material, etc.); routine maintenance and required action or checks;
* Products lacking a plate or having a tempered plate.

1.2 Returns to credit or replace will be accepted only in exceptional cases; however returns of goods already used to credit or replace won't be accepted in any case.
The guarantee shall be effective for all Motive products, with a term of validity of 12 months, starting from the date of shipment.
The guarantee shall be subject to specific written request for Motive to take action, according to statements, as described at the paragraphs herein below. By virtue of aforesaid approval, and as regards the claim, Motive shall be bound at its discretion, and within a reasonable time-limit, to alternatively take the following actions:
a) To supply the Buyer with products of the same type and quality as those having proven defective and not complying with agreements, free ex-works; in aforesaid case, Motive shall have the right to request, at Buyer's charge, early return of defective goods, which shall become Motive's property;
b) To repair, at its charge , the defective product or to modify the product which does not comply with agreements, by performing aforesaid action at its facilities; in aforesaid cases, all costs regarding product transport shall be sustained by the Buyer.
c) To send spare parts free of charge: all costs regarding product transport shall be sustained by the Buyer.

1.3. The guarantee herein shall assimilate and replace legal guarantees for defects and discrepancies, and shall exclude any other eventual Motive liability, however caused by supplied products; in particular, the Buyer shall have no right to submit any further claims.
Motive shall not be liable for the enforcement of any further claims, as of the date the guarantee's term of validity expires.

ARTICLE 2 - **CLAIMS**

2.1. Claims, regarding quantity, weight, gross weight and colour, or claims regarding faults and defects in quality or compliance, and which the Buyer may discover on goods delivery, shall be submitted by a max. 7 days of aforesaid discovery, under penalty of nullity.

ARTICLE 3 - **DELIVERY**

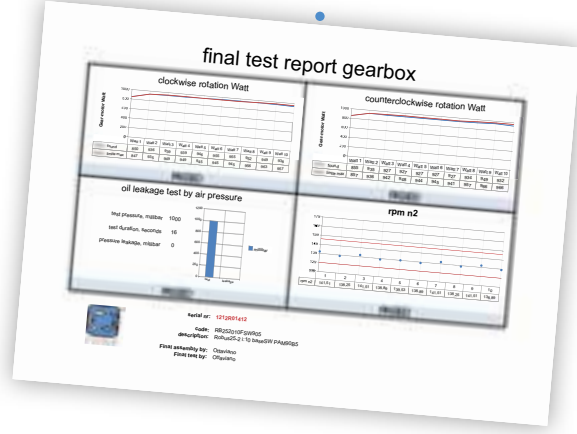
3.1. Any liability for damages ensuing from total or partial delayed or failed delivery, shall be excluded.

3.2. Unless differently communicated by written to the Client, the transport terms have to be intended ex-works.

ARTICLE 4 - **PAYMENT**

4.1. Any delayed or irregular payments shall entitle Motive to cancel ongoing agreement, including agreements which do not regard the payments at issue, as well as entitling Motive to claim damages, if any. Motive shall, however, have the right, as of payment's due date and without placing in arrears, to claim interest for arrears, to the extent of the discount rate in force in Italy, increased by 12 points. Motive shall also have the right to withhold material under repair for replacement. In the case of failed payment, Motive shall have the right to cancel all guarantees of materials, as regards the insolvent Client.

4.2. The Buyer shall be bound to complete payment, including cases whereby claims or disputes are underway.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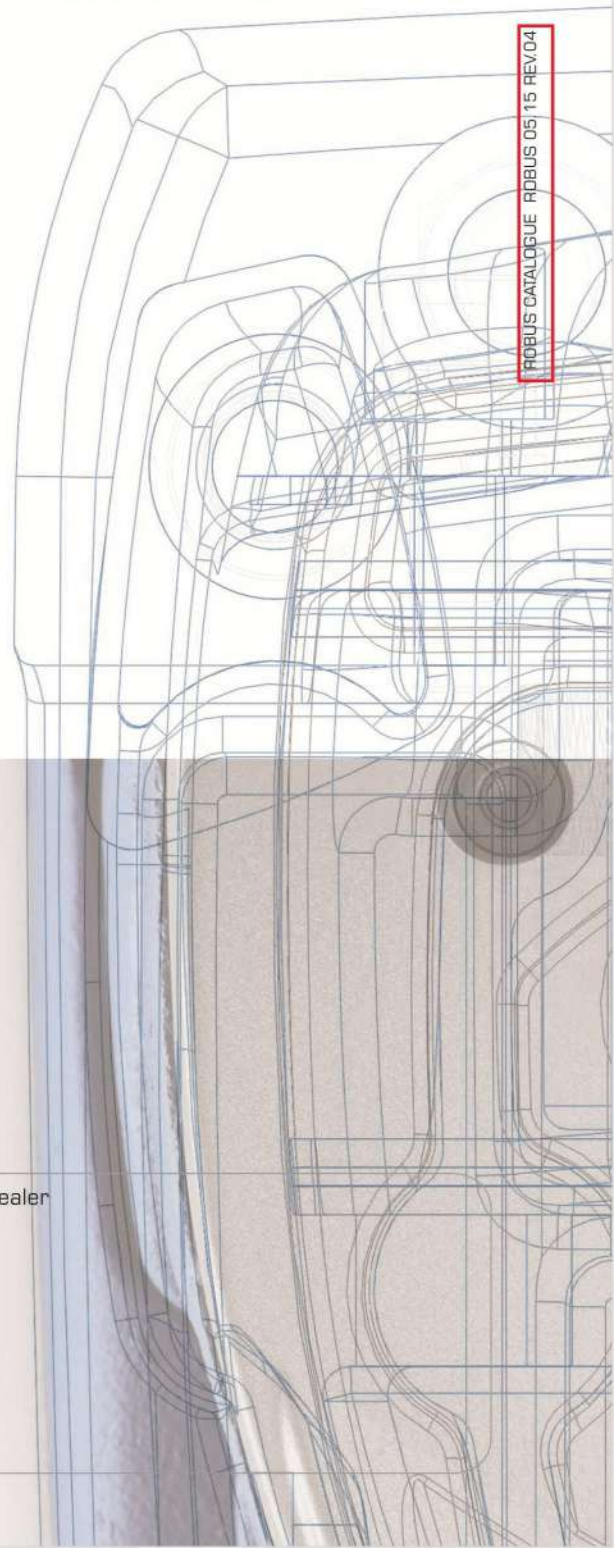


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