

STON SHAFT MOUNTED GEARBOX

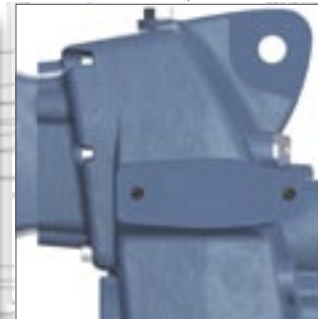
FAMCO
هایپر صنعت



www.famcocorp.com
E-mail: info@famcocorp.com
@famco_group

Tel: ۰۲۱-۴۸۰۰۰۰۴۹
Fax: ۰۲۱-۴۴۹۹۴۶۴۲

تهران، کیلومتر ۲۱ بزرگراه لشگری (جاده مخصوص کرج)
روبروی پالایشگاه نفت پارس، پلاک ۱۲



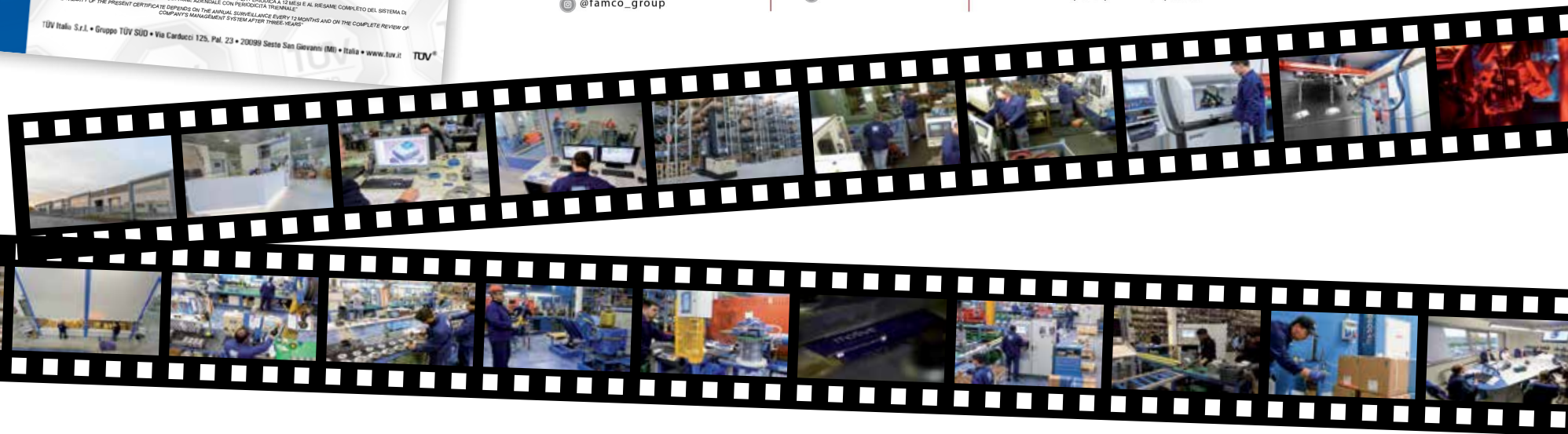


VISIT AND KNOW MOTIVE THANKS TO THE MOVIE ON WWW.MOTIVE.IT

• www.famcocorp.com
• E-mail: info@famcocorp.com
• [@famco_group](https://www.facebook.com/famco_group)

• Tel: +39-0431-4800049
• Fax: +39-0431-44994642

تهران، کیلومتر ۲ بزرگراه لشگری (جاده مخصوص کرج)
روبروی پالایشگاه نفت پارس، پلاک ۱۲



Technical characteristics pag. 2-3

List of components STON
2 reduction stages pag. 4-5

List of components STON
3 reduction stages pag. 6-7

Code system pag. 8

Lubrication pag. 9

Technical data pag. 10

Configurator pag. 11

Performance table pag. 12-13

Performance table pag. 14

Dimensions pag. 15

Dimensions pag. 16





Uniquely contoured, rigid, precise, monobloc, cast iron Body, Base and Flange ensure extreme robustness.

ROBUST

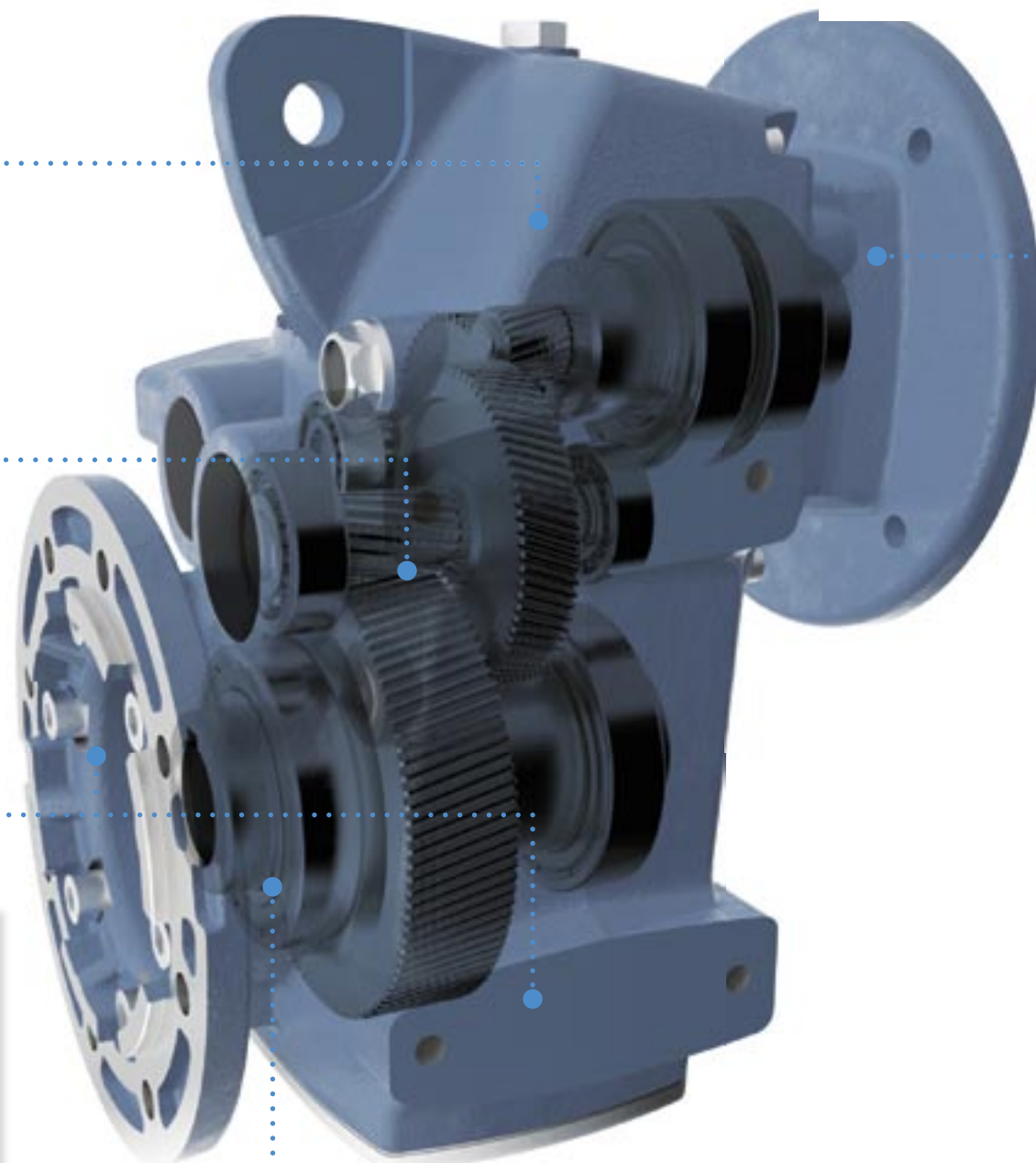


2 or 3 reduction stages inside the same body, in order to have a wider and more reliable range of ratios



VERSATILE

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





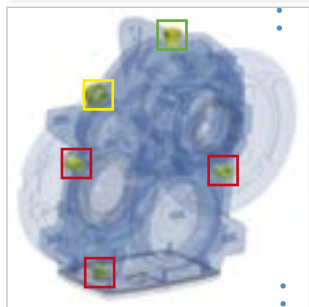
IEC flange and hollow shaft.

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 absorption of axial thrust and prolongs the life of bearings



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 durability and torque transmission capability

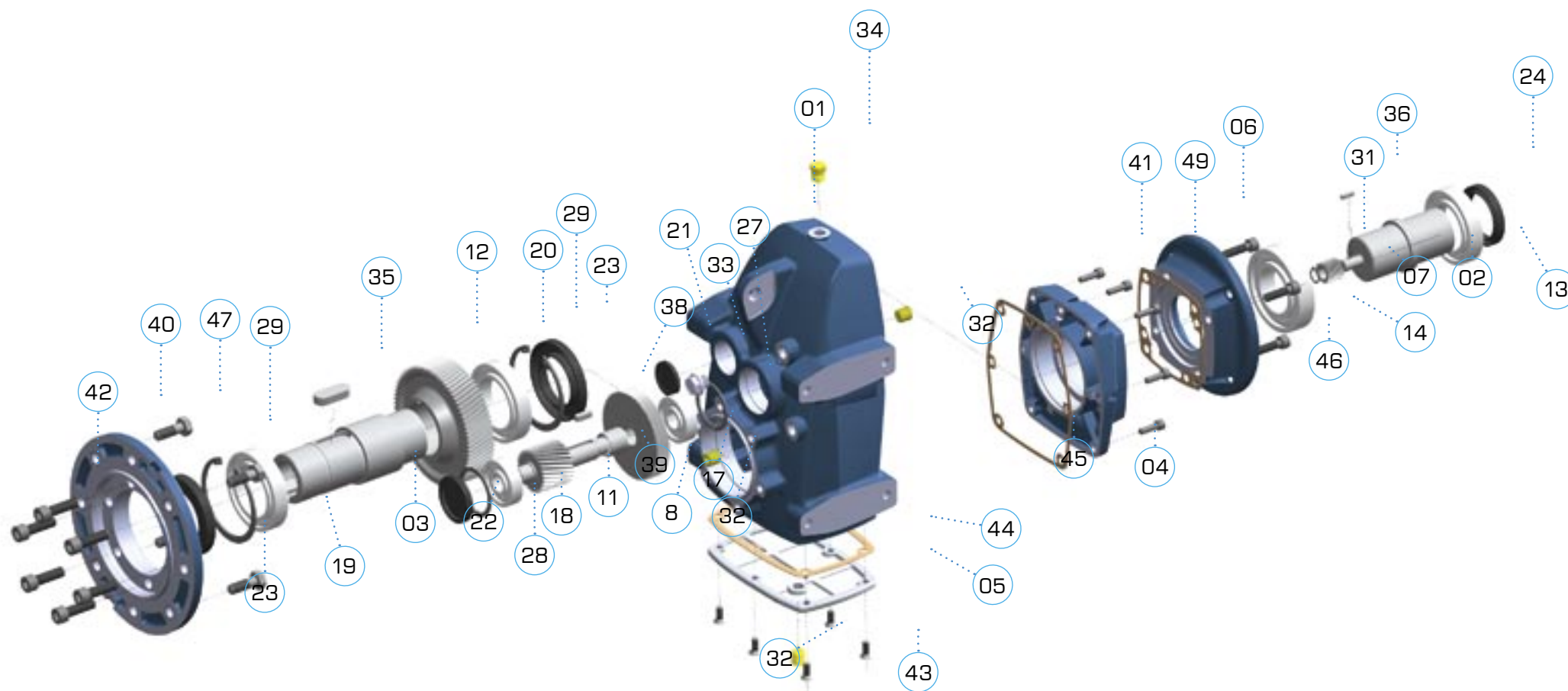


Dual bearing support on the input shaft assures precise alignment of the first stage gears and reduces vibrations and consequent gear wear



Abounding bearings size

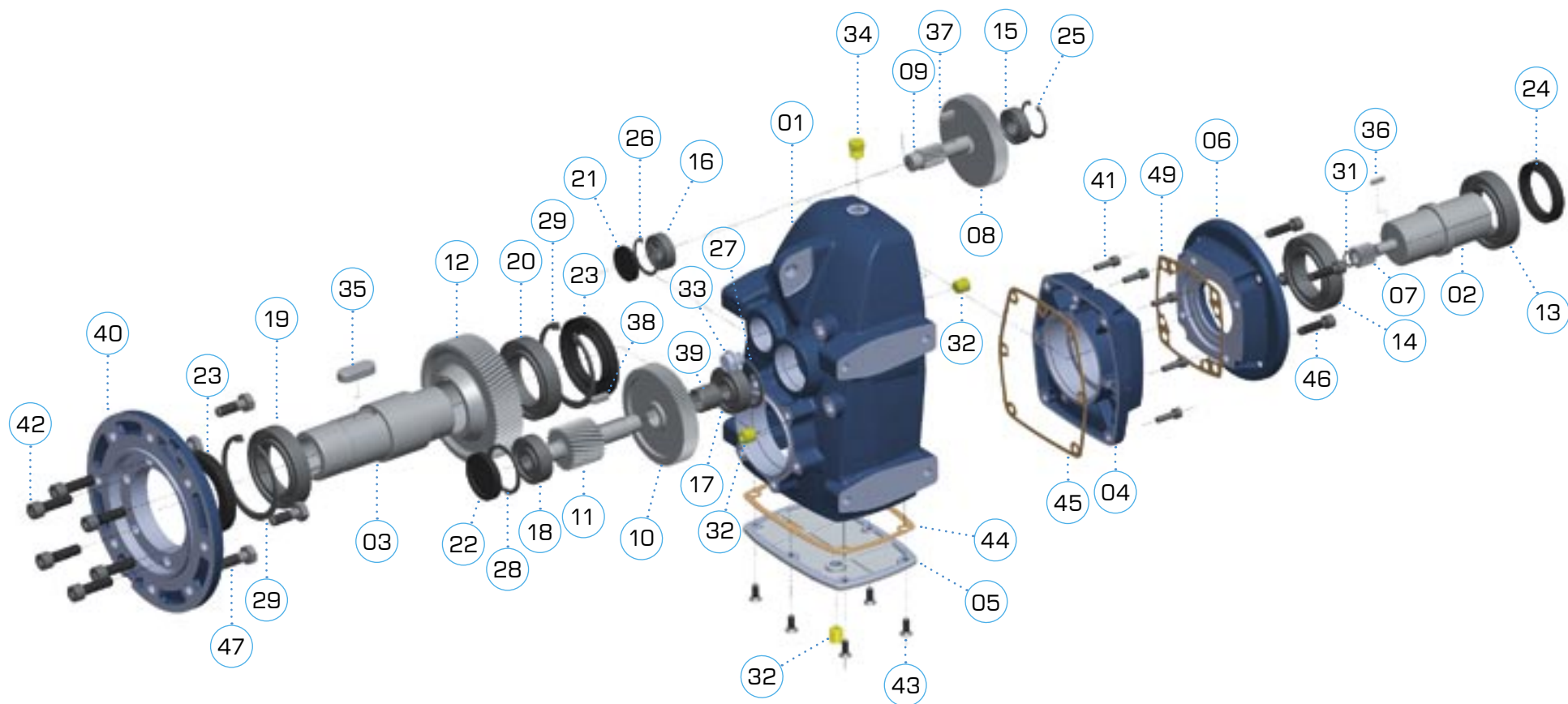
LIST OF COMPONENTS STON 2 REDUCTION STAGES



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	code	description
1	HOUST3	housing	1	HOUST4	housing	1	HOUST5	housing	1	HOUST5	housing
2	ISHDM..ID..RB25	input shaft	1	ISHDM..ID..RB30	input shaft	1	ISHDM..ID..RB35	input shaft	1	ISHDM..ID..RB35	input shaft
3	OSHST3	output shaft	1	OSHST4	output shaft	1	OSHST5	output shaft	1	OSHST5	output shaft
4	ICVES3	input cover	1	ICVES4	input cover	1	ICVES5	input cover	1	ICVES5	input cover
5	TCVES3	adapter cover	1	TCVES4	adapter cover	1	TCVES5	adapter cover	1	TCVES5	adapter cover
6	IFL63B5RB25	input flange 63B5	1	IFL71B5RB30/35	input flange 71B5	1	IFL71B5RB30/35	input flange 71B5	1	IFL71B5RB30/35	input flange 71B5
	IFL71B5RB25	input flange 71B5		IFL80B5RB30/35	input flange 80/90B5		IFL80B5RB30/35	input flange 80/90B5		IFL80B5RB30/35	input flange 80/90B5
	IFL8090B5RB25	input flange 80/90B5		IFL100B5RB30/35	input flange 100/112B5		IFL100B5RB30/35	input flange 100/112B5		IFL100B5RB30/35	input flange 100/112B5
	IFL100112B5RB25	input flange 100/112B5									
7	P1Z..D..ID..	pinion first stage	1	P1Z..D..ID..	pinion first stage	1	P1Z..D..ID..	pinion first stage	1	P1Z..D..ID..	pinion first stage
8	G1Z..D..RB25	gear first stage	1	G1Z..D..RB30	gear first stage	1	G1Z..D..RB35	gear first stage	1	G1Z..D..RB35	gear first stage
11	P3Z..D..ST3	pinion third stage	1	P3Z..D..ST4	pinion third stage	1	P3Z..D..ST5	pinion third stage	1	P3Z..D..ST5	pinion third stage
12	G3Z..D1..ST3	gear third stage	1	G3Z..D1..ST4	gear third stage	1	G3Z..D1..ST5	gear third stage	1	G3Z..D1..ST5	gear third stage
13											
14	BEA6008ZZ	bearing 6008ZZ	2	BEA6009ZZ	bearing 6009ZZ	2	BEA6009ZZ	bearing 6009ZZ	2	BEA6009ZZ	bearing 6009ZZ
17	BEA72022RS	bearing 72022RS	1	BEA73032RS	bearing 73032RS	1	BEA73042RS	bearing 73042RS	1	BEA73042RS	bearing 73042RS
18	BEA73022RS	bearing 73022RS	1	BEA73032RS	bearing 73032RS	1	BEA73042RS	bearing 73042RS	1	BEA73042RS	bearing 73042RS
19	BEA6009ZZ	bearing 6009ZZ	1	BEA6010ZZ	bearing 6010ZZ	1	BEA6211ZZ	bearing 6211ZZ	1	BEA6211ZZ	bearing 6211ZZ
20	BEA6009ZZ	bearing 6009ZZ	1	BEA6010ZZ	bearing 6010ZZ	1	BEA6211ZZ	bearing 6211ZZ	1	BEA6211ZZ	bearing 6211ZZ
21	COVD35	plug seal D35X5	1	COVD35	plug seal D35X5	1	COVD40	plug seal D40X8	1	COVD40	plug seal D40X8
22	COVD42	plug seal D42X6	1	COVD47	plug seal D47X7	1	COVD52	plug seal D52X7	1	COVD52	plug seal D52X7
23	OS45X75X8	oil seal 45x75x8	2	OS50X80X10	oil seal 50x80x10	2	OS55X100X10	oil seal 55x100x10	2	OS55X100X10	oil seal 55x100x10
24	OS40X55X8	oil seal 40x55x8	1	OS45X60X9	oil seal 45x60x9	1	OS45X60X9	oil seal 45x60x9	1	OS45X60X9	oil seal 45x60x9
32	FLP1/4	filler plug 1/4"	3	FLP1/4	filler plug 1/4"	3	FLP1/4	filler plug 1/4"	3	FLP1/4	filler plug 1/4"
33	LPL1-4	level plug 1/4"	1	LPL1-4	level plug 1/4"	1	LPL1-4	level plug 1/4"	1	LPL1-4	level plug 1/4"
34	BPL1/4	breather plug 1/4"	1	BPL1/4	breather plug 1/4"	1	BPL1/4	breather plug 1/4"	1	BPL1/4	breather plug 1/4"
39	SPR39ST3-2	spacer	1	SPR39ST4-2	spacer	1	SPR39ST5-2	spacer	1	SPR39ST5-2	spacer
40	OFL...ES3	output flange	1	OFL...ES4	output flange	1	OFL...ES5	output flange	1	OFL...ES5	output flange
44	GK44ES3	adapter cover gasket	1	GK44ES4	adapter cover gasket	1	GK44ES5	adapter cover gasket	1	GK44ES5	adapter cover gasket
45	GK45ES3	input cover gasket	1	GK45ES4	input cover gasket	1	GK45ES5	input cover gasket	1	GK45ES5	input cover gasket
49	GK49RB25	input flange gasket	1	GK49RB30	input flange gasket	1	GK49RB35	input flange gasket	1	GK49RB35	input flange gasket

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	code	description
1	HOUST3	housing	1	HOUST4	housing	1	HOUST5	housing	1	HOUST5	housing
2	ISHDM..ID..RB25	input shaft	1	ISHDM..ID..RB30	input shaft	1	ISHDM..ID..RB35	input shaft	1	ISHDM..ID..RB35	input shaft
3	OSHST3	output shaft	1	OSHST4	output shaft	1	OSHST5	output shaft	1	OSHST5	output shaft
4	ICVES30	input cover	1	ICVES4	input cover	1	ICVES5	input cover	1	ICVES5	input cover
5	TCVES3	adapter cover	1	TCVES4	adapter cover	1	TCVES5	adapter cover	1	TCVES5	adapter cover
6	IFL63B5RB25	input flange 63B5	1	IFL71B5RB30/35	input flange 71B5	1	IFL71B5RB30/35	input flange 71B5	1	IFL71B5RB30/35	input flange 71B5
	IFL71B5RB25	input flange 71B5		IFL80B5RB30/35	input flange 80/90B5		IFL80B5RB30/35	input flange 80/90B5		IFL80B5RB30/35	input flange 80/90B5
	IFL8090B5RB25	input flange 80/90B5		IFL100B5RB30/35	input flange 100/112B5		IFL100B5RB30/35	input flange 100/112B5		IFL100B5RB30/35	input flange 100/112B5
	IFL100112B5RB25	input flange 100/112B5									
7	P1Z..D..ID..	pinion first stage	1	P1Z..D..ID..	pinion first stage	1	P1Z..D..ID..	pinion first stage	1	P1Z..D..ID..	pinion first stage
8	G1Z..D..RB25	gear first stage	1	G1Z..D..RB30	gear first stage	1	G1Z..D..RB35	gear first stage	1	G1Z..D..RB35	gear first stage
9	P2Z..D..RB25	pinion second stage	1	P2Z..D..RB30	pinion second stage	1	P2Z..D..RB35	pinion second stage	1	P2Z..D..RB35	pinion second stage
10	G2Z..D..RB25	gear second stage	1	G2Z..D..RB30	gear second stage	1	G2Z..D..RB35	gear second stage	1	G2Z..D..RB35	gear second stage
11	P3Z..D..ST3	pinion third stage	1	P3Z..D..ST4	pinion third stage	1	P3Z..D..ST5	pinion third stage	1	P3Z..D..ST5	pinion third stage
12	G3Z..D1..ST3	gear third stage	1	G3Z..D1..ST4	gear third stage	1	G3Z..D1..ST5	gear third stage	1	G3Z..D1..ST5	gear third stage
13	BEA6008ZZ	bearing 6008ZZ	2	BEA6009ZZ	bearing 6009ZZ	2	BEA6009ZZ	bearing 6009ZZ	2	BEA6009ZZ	bearing 6009ZZ
14	BEA6002ZZ	bearing 6002ZZ	1	BEA6003ZZ	bearing 6003ZZ	1	BEA6203ZZ	bearing 6203ZZ	1	BEA6203ZZ	bearing 6203ZZ
15	BEA6202ZZ	bearing 6202ZZ	1	BEA6003ZZ	bearing 6003ZZ	1	BEA6203ZZ	bearing 6203ZZ	1	BEA6203ZZ	bearing 6203ZZ
16	BEA6202ZZ	bearing 6202ZZ	1	BEA6303ZZ	bearing 6303ZZ	1	BEA6304ZZ	bearing 6304ZZ	1	BEA6304ZZ	bearing 6304ZZ
17	BEA6302ZZ	bearing 6302ZZ	1	BEA6303ZZ	bearing 6303ZZ	1	BEA6304ZZ	bearing 6304ZZ	1	BEA6304ZZ	bearing 6304ZZ
18	BEA6302ZZ	bearing 6302ZZ	1	BEA6010ZZ	bearing 6010ZZ	1	BEA6211ZZ	bearing 6211ZZ	1	BEA6211ZZ	bearing 6211ZZ
19	BEA6009ZZ	bearing 6009ZZ	1	BEA6010ZZ	bearing 6010ZZ	1	BEA6211ZZ	bearing 6211ZZ	1	BEA6211ZZ	bearing 6211ZZ
20	BEA6009ZZ	bearing 6009ZZ	1	BEA6010ZZ	bearing 6010ZZ	1	BEA6211ZZ	bearing 6211ZZ	1	BEA6211ZZ	bearing 6211ZZ
21	COVD35	plug seal D35X5	1	COVD35	plug seal D35X5	1	COVD40	plug seal D40X8	1	COVD40	plug seal D40X8
22	COVD42	plug seal D42X6	1	COVD47	plug seal D47X7	1	COVD52	plug seal D52X7	1	COVD52	plug seal D52X7
23	OS45X75X8	oil seal 45x75x8	2	OS50X80X10	oil seal 50x80x10	2	OS55X100X10	oil seal 55x100x10	2	OS55X100X10	oil seal 55x100x10
24	OS40X55X8	oil seal 40x55x8	1	OS45X60X9	oil seal 45x60x9	1	OS45X60X9	oil seal 45x60x9	1	OS45X60X9	oil seal 45x60x9
32	FLP1/4	filler plug 1/4"	3	FLP1/4	filler plug 1/4"	3	FLP1/4	filler plug 1/4"	3	FLP1/4	filler plug 1/4"
33	LPL1-4	level plug 1/4"	1	LPL1-4	level plug 1/4"	1	LPL1-4	level plug 1/4"	1	LPL1-4	level plug 1/4"
34	BPL1/4	breather plug 1/4"	1	BPL1/4	breather plug 1/4"	1	BPL1/4	breather plug 1/4"	1	BPL1/4	breather plug 1/4"
39	SPR39ST3-3	spacer	1	SPR39ST4-3	spacer	1	SPR39ST5-3	spacer	1	SPR39ST5-3	spacer
40	OFL...ES3	output flange	1	OFL...ES4	output flange	1	OFL...ES5	output flange	1	OFL...ES5	output flange
44	GK44ES3	adapter cover gasket	1	GK44ES4	adapter cover gasket	1	GK44ES5	adapter cover gasket	1	GK44ES5	adapter cover gasket
45	GK45ES3	input cover gasket	1	GK45ES4	input cover gasket	1	GK45ES5	input cover gasket	1	GK45ES5	input cover gasket
49	GK49RB25	input flange gasket	1	GK49RB30	input flange gasket	1	GK49RB35	input flange gasket	1	GK49RB35	input flange gasket

CODE SYSTEM

- 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

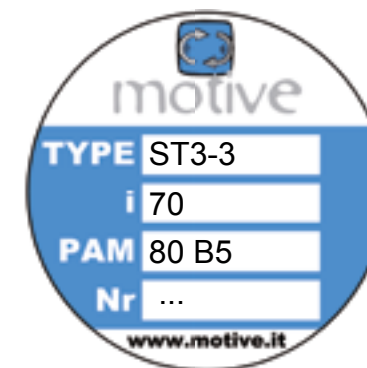
3 stages

ratio i:70

output flange D.160mm

input PAM flange 80 B5

Plate:



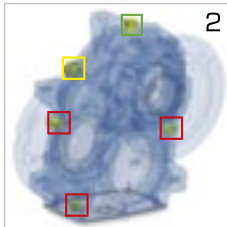
Each STON is supplied with long-life synthetic oil and do not require any maintenance.
The oil quantity is suitable for B3 mounting position

STON	oil (lt)						ISO	temp.	oil type	
	B3	B6	B7	B8	V5	V6				
ST3	1,05	1,10	1,10	0,95	1,25	1,50	VG 220	-25 +80°C	Mobil Glygoyle 30	Shell tivala S220
ST4	1,90	1,75	1,75	1,65	2,20	2,55				
ST5	2,20	2,10	2,10	2	3	3,50				

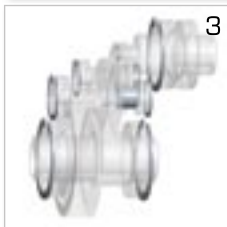
After adapting the oil quantity, each STON can be mounted in ANY position, thus giving big advantages in the stock management and lead time, thanks to the following 3 characteristics:



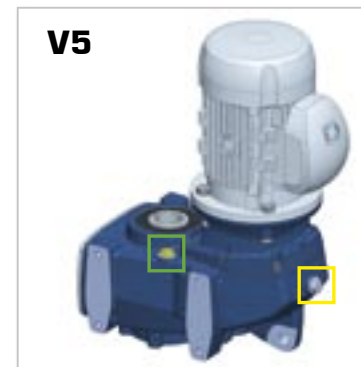
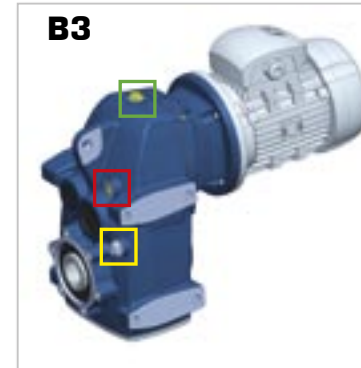
ZZ autolubricating bearings on input and output shaft



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 absorption of axial thrust and prolongs the life of bearings



breather plug



level plug



filler plug

TECHNICAL DATA

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:

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

Torque demand M_{r2} [Nm]

Torque calculated based on application requirements. It must be $\leq M_{n2}$ 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 possible to calculate the motor-size necessary by using the formula:

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

Since the value calculated in this way could not really correspond to an input power actually available in the IEC standardised motors, it will be necessary to choose, among the input powers available, the one which is immediately higher, checking this in the Motive catalogue of the motors.

Efficiency η [%]

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

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

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 n_1 and 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]

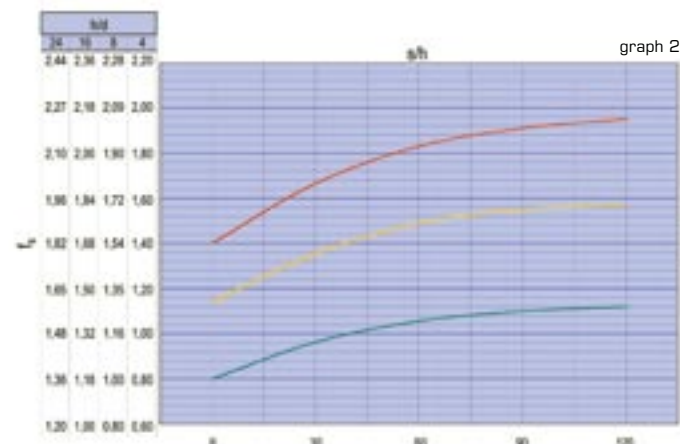
It is the rotation speed of the output shaft.

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.



tab. 2

load classification	application
c uneven operation, heavy loads, larger masses to be accelerated	conveyors with violent jerks; compressors and alternate pumps with 1 or more cylinders; machinery for bricks, tiles and clay; kneaders; milling machines; 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 a STON unit whose service factor f_s is $\geq$ 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 BOX unit whose output torque is $\geq M_{c2}$ 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 catalogue 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 $\geq f_{sr}$.



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					
		0,18	0,25	80A-8	650	1,66	7,2	224,41	22,88	3					
90	90,27	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					
		0,25	0,35	71A-4	1366	2,39	18,1	123,74	12,61	3					
75	75,31	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					
		0,25	0,35	71A-4	1366	2,76	19,6	114,60	11,68	3					
70	69,75	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					
		0,25	0,35	71A-4	1366	2,75	20,7	108,29	11,04	3					
65	65,91	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					
		0,37	0,5	71B-4	1400	2,51	24,7	134,72	13,73	3					
55	56,79	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					
		0,37	0,5	71B-4	1366	2,45	27,6	120,52	12,29	3					
50	49,56	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					
		0,37	0,5	71B-4	1366	2,76	31,3	106,13	10,82	3					
45	43,65	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					
		0,55	0,75	80A-4	1391	2,50	37,4	132,04	13,46	3					
40	37,20	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					
		0,55	0,75	80A-4	1391	2,37	41,4	119,16	12,15	3					
35	33,57	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	2	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	100LA-4	1435	1,67	221,5	91,07	9,28	2					
5	5,04	3	4	100L-2	2882	2,22	444,8	61,83	6,30	2					
		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					
4	4,13	2,2	3	100L-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					
		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	100L-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					

www.famcocorp.com

E-mail: info@famcocorp.com

@famco_group

PERFORMANCE TABLE



STON 4 (450 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
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					
110	106,41	0,37	0,5	71B-4	1450	1,43	12,2	272,15	27,74	3					
		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	186,89	19,03	3					
		0,25	0,35	71B-6	910	1,41	8,6	262,43	26,75	3					
100	98,61	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					
		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					
90	87,80	0,55	0,75	80A-4	1391	1,28	14,1	350,01	35,68	3					
		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					
		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					
70	69,57	0,75	1	80B-4	1394	1,39	20,0	336,00	34,25	3					
		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					
		0,37	0,5	71B-4	1400	2,76	26,2	126,84	12,93	3					
60	57,89	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					
		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					
55	53,46	0,37	0,5	71B-4	1400	2,92	30,5	108,82	11,09	3					
		0,55	0,75	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					
		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					
45	45,87	0,75	1	80B-4	1394	1,29	36,5	184,26	18,78	3					
		0,37	0,5	71B-4	1400	2,63	40,2	82,59	8,42	3					
		0,55	0,75	80A-4	1391	1,76	40,0	123,56	12,60	3					
		0,75	1	80B-4	1394	1,29	40,0	168,13	17,14	3					
		0,55	0,75	80A-4	1391	2,05	47,0	104,98	10,70	3					
30	29,58	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			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	25,98	0,55	0,75	80A-4	1391	3,17	53,5	92,23	9,60	3					
		0,75	1	80B-4	1394	2,33	53,6	125,50	12,79	3					
		1,1	1,5	90S-4	1450	1,65	55,8	176,95	18,04	3					
20	19,61	0,55	0,75	80A-4	1391	3,17	70,9	69,61	7,10	3					
		0,75	1	80B-4	1394	2,33	71,1	94,71	9,65	3					
		1,1	1,5	90S-4	1378	1,57	70,3	140,52	14,32	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					
5	5,87	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					
		1,5	2	90L-4	1413	2,81	240,6	57,16	5,83	2					
4	3,88	2,2	3	100LA-4	1435	1,95	244,3	82,55	8,42	2					
		3	4	100LB-4	1407	1,40	239,6	114,81	11,70	2					
		3	4	100L-2	2882	2,87	490,7	56,05	5,71	2					
		4	5	112M-2	2887	2,15	491,5	74,61	7,61	2					
		2,2	3	100LA-4	1435	1,95	369,5	54,59	5,56	2					
		3	4	100LB-4	1407	1,40	362,3	75,92	7,74	2					
		4	5,5	112M-4	1415	1,06	364,3	100,66	10,26	2					
		3	4	100L-2	2882	2,87	742,0	37,07	3,78	2					
		4	5	112M-2	2887	2,15	743,3	49,33	5,03	2					
		5,5	7,5	112MB-2	2883	1,56	742,3	67,93	6,92	2					

PERFORMANCE TABLE



STON 5 (700Nm)		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	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					
		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					
90	84,60	0,55	0,75	80A-4	1391	2,43	16,4	300,29	30,61	3					
		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					
80	79,76	0,55	0,75	80A-4	1391	2,35	17,4	283,10	28,86	3					
		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					
70	68,36	0,55	0,75	80A-4	1391	2,61	20,3	242,66	24,74	3					
		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					
60	58,67	0,55	0,75	80A-4	1391	2,35	23,7	208,24	21,23	3					
		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					
55	55,55	0,75	1	80B-4	1394	2,57	25,1	268,27	27,35	3					
		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					
50	50,29	0,75	1	80B-4	1394	2,29	27,7	242,87	24,76	3					
		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					
45	46,07	0,75	1	80B-4	1394	2,73	30,3	222,51	22,68	3					
		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					
40	40,86	0,75	1	80B-4	1394	2,60	34,1	197,33	20,12	3					
		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					
35	33,89	1,1	1,5	90S-4	1378	2,45	40,7	242,84	24,75	3					
		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					
30	29,85	1,1	1,5	90S-4	1378	2,56	46,2	213,93	21,81	3					

STON 5 (700Nm)		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
28	27,81	2,2	3	100LA-4	1435	1,28	51,6	382,74	39,02	3					
		1,5	2	90L-4	1413	1,85	50,8	265,02	27,02	3					
		1,1	1,5	90S-4	1378	2,46	49,6	199,29	20,31	3					
23	23,06	2,2	3	100LA-4	1435	1,28	62,2	317,37	32,35	3					
		1,5	2	90L-4	1413	1,85	61,3	219,76	22,40	3					
		1,1	1,5	90S-4	1378	2,46	59,8	165,25	16,84	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	5,59	5	6,8	112MB-4	1445	1,24	258,5	177,33	18,08	2					
		4	5,5	112M-4	1415	1,52	253,1	144,87	14,77	2					
		3	4	100LB-4	1407	2,01	251,7	109,27	11,14	2					
		3	4	100L-2	2882	4,12	515,6	53,35	5,44	2					
		4	5	112M-2	2887	3,10	516,5	71,01	7,24	2					
4	3,49	5,5	7,5	112MB-2	2883	2,25	515,7	97,77	9,97	2					
		5	6,8	112MB-4	1445	1,28	414,0	110,73	11,29	2					
		4	5,5	112M-4	1415	1,57	405,4	90,46	9,22	2					
		3	4	100LB-4	1407	2,08	403,1	68,23	6,96	2					
		3	4	100L-2	2882	4,25	825,6	33,31	3,40	2					
		4	5	112M-2	2887	3,20	827,2	44,33	4,52	2					
		5,5	7,5	112MB-2	2883	2,32	826,1	61,04	6,22	2					

www.famcocorp.com

E-mail: info@famcocorp.com

@famco_group

Tel: ۰۲۱- ۴۸۰۰۰۰۰ ۴۹

Fax: ۰۲۱- ۴۴۹۹۴۶۴۲

تهران، کیلومتر ۲۱ بزرگراه لشگری (جاده مخصوص کرج)

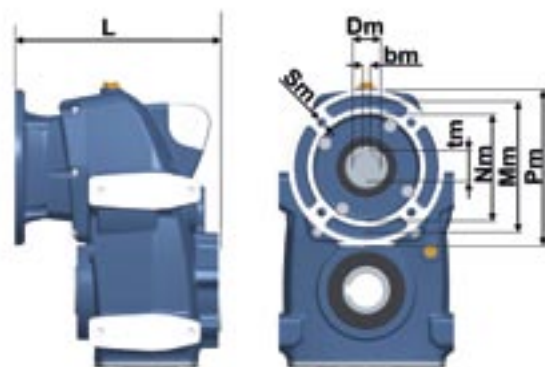
روبروی پالایشگاه نفت پارس، پلاک ۱۲

DIMENSIONS

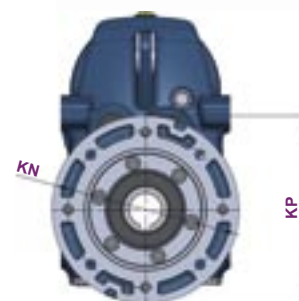
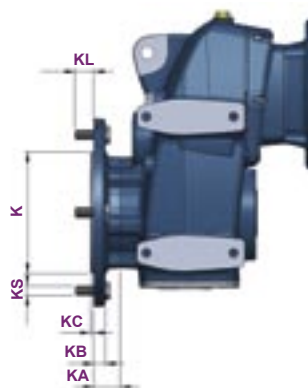
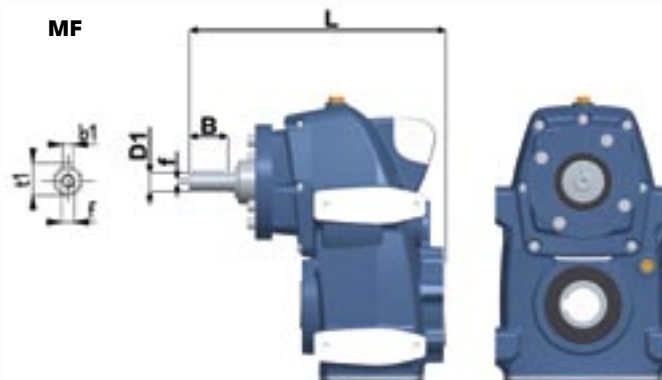
STON input and combinations

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									223
	80	B5	130	165	200	M10	19	21,8	6	178,5	5,5							223
	90	B5					24	27,3	8									229
	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									265
	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									290
	100/112	B5	180	215	250	M12	28	31,3	8	236,5	6,5							290

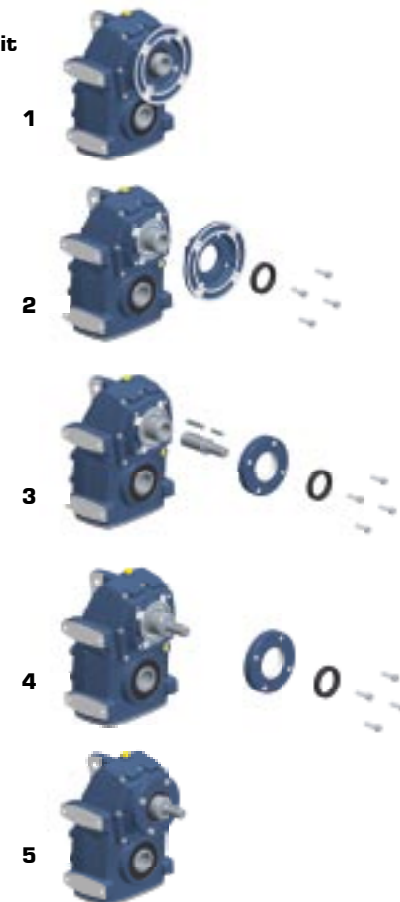
PAM



MF



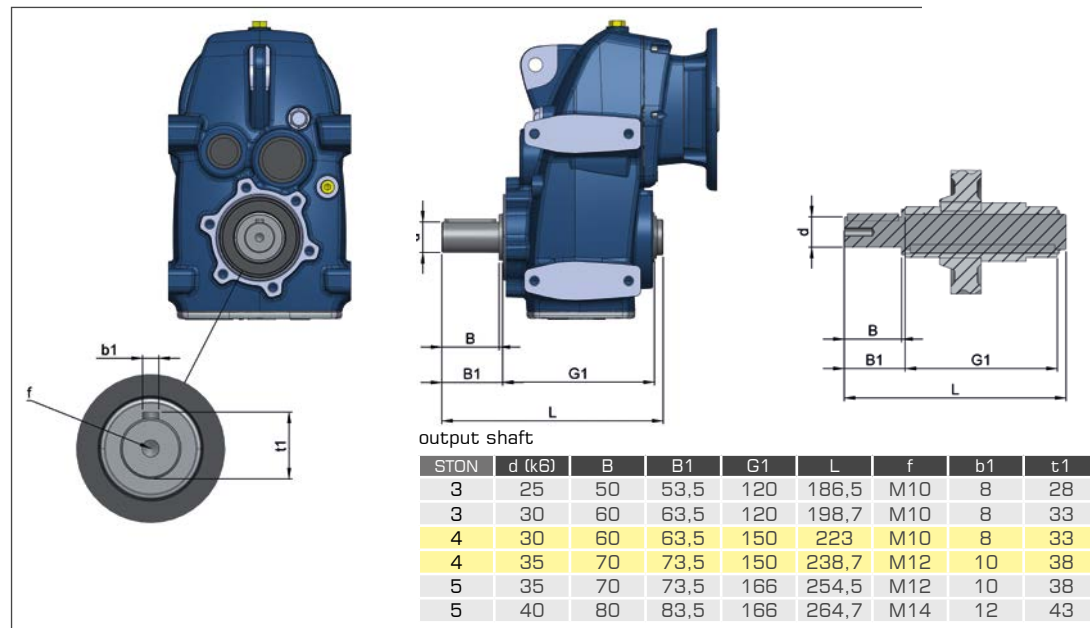
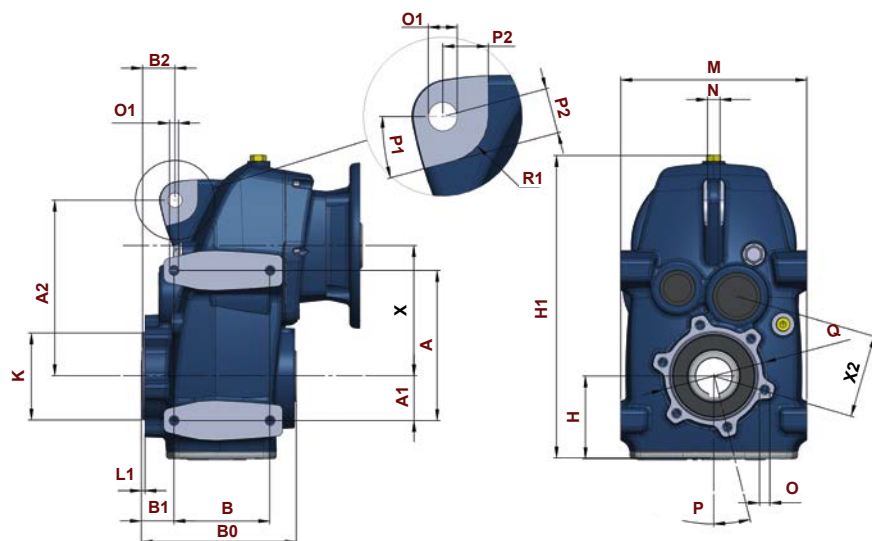
MF kit



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 (k6)	B	B1	G1	L	f	b1	t1
3	25	50	53,5	120	186,5	M10	8	28
3	30	60	63,5	120	198,7	M10	8	33
4	30	60	63,5	150	223	M10	8	33
4	35	70	73,5	150	238,7	M12	10	38
5	35	70	73,5	166	254,5	M12	10	38
5	40	80	83,5	166	264,7	M14	12	43

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)	D1 (Øk6)	D (ØH7)	B0 (±0,1)	T5	T6	T7	V	T (+0,2;0)	E (E9)
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	45	30	120	15	15	17	ISO 4762 M10x25	33,3	8
4	32	170	85	145	43	M10x15	3	31	93	126	80	15°	22	22	14	180	12	294,5	81	15°	M10x15	102	50	35	150	18	18	22	ISO 4762 M12x30	38,5	10
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	55	40	166	24	24	29	ISO 4762 M16x40	43,3	12

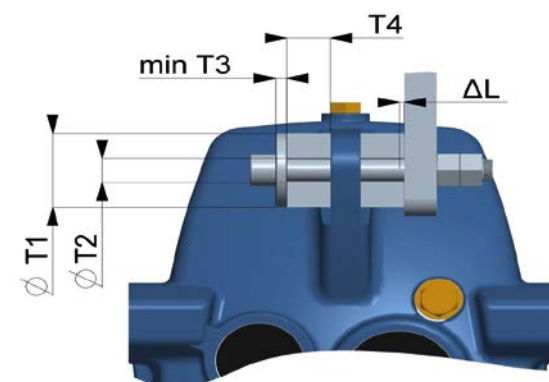
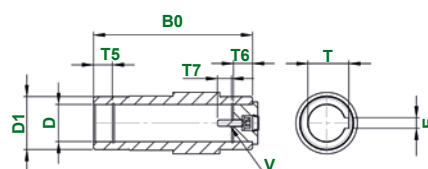
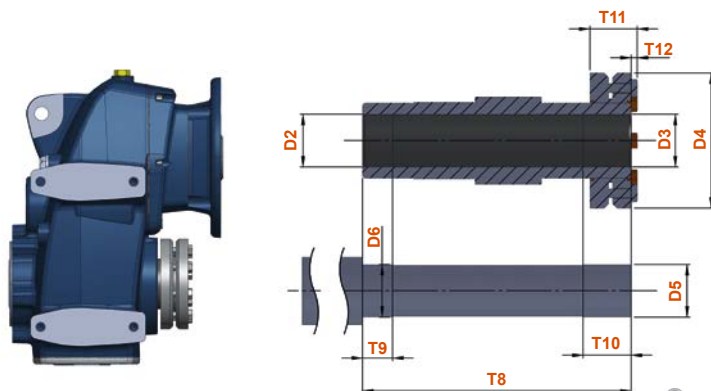
standard input shaft

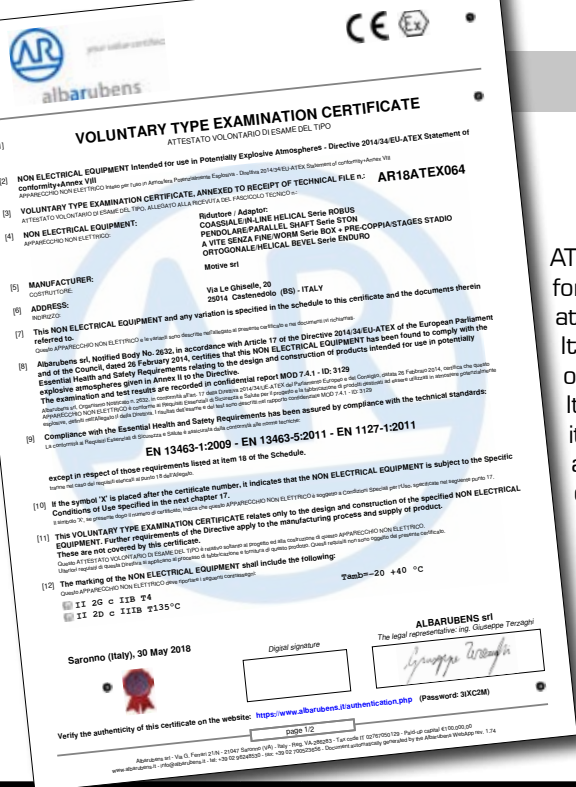
shrink disc shaft

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	18	1
4	40	12,5	5	18	1,5
5	40	12,5	5	18	1,5





SERIE STON EX



II 2G c IIB T4
II 2D c IIIB T135°C

ATEX is the conventional name of the Directive 14/34/EC for the equipment intended for use in potentially explosive atmospheres.

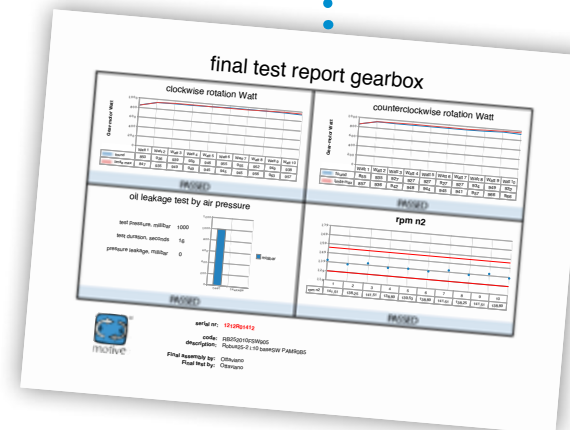
It imposes the evaluation of the risk for all the equipment operating in such environments.

It classifies several levels of "danger" (zones): to every zone it corresponds a different typology of explosive atmosphere, according to its composition and to its probability and time of appearance.

Motive gearboxes series BOX Ex, STADIO Ex, STON Ex, ROBUS Ex and ENDURO Ex are certified according to the norms EN 13463-1, EN 13463-5, EN 1127-1 for the zones



You can download each motor or gearbox final test report from www.motive.it, starting from its serial number



**DOWNLOAD
THE TECHNICAL MANUAL
FROM WWW.MOTIVE.IT**



ALL DATA HAVE BEEN WRITTEN AND CHECKED WITH THE GREATEST CARE. WE DO NOT TAKE ANY RESPONSIBILITY FOR POSSIBLE ERRORS OR OMISSIONS. MOTIVE CAN CHANGE THE CHARACTERISTIC OF THE SOLD ITEMS ON HIS FIRM OPINION AND IN EVERY MOMENT.

Cat	DUST	GAS	Zone	description	motive gearboxes
1			0	A place in which an explosive atmosphere consisting of a mixture with air of flammable substances in the form of gas, vapor or mist is present continuously or for long periods or frequently.	
2			1	A place in which an explosive atmosphere consisting of a mixture with air or flammable substances in the form of gas, vapor or mist is likely to occur in normal operation occasionally.	✓
3			2	A place in which an explosive atmosphere consisting of a mixture with air of flammable substances in the form of gas, vapor or mist is not likely to occur in normal operation but, if it does occur, will persist for a short period only.	✓
1			20	A place in which an explosive atmosphere in the form of a cloud of combustible dust in air is present continuously, or for long periods or frequently.	
2			21	A place in which an explosive atmosphere in the form of a cloud of combustible dust in air is likely to occur in normal operation occasionally.	✓
3			22	A place in which an explosive atmosphere in the form of a cloud of combustible dust in air is not likely to occur in normal operation but, if it does occur, will persist for a short period only.	✓

www.famcocorp.com

E-mail: info@famcocorp.com

@famco_group

Tel: +91- 4 8 0 0 0 4 9

Fax: +91- 4 4 4 9 4 4 4

تهران، کیلومتر ۲ بزرگراه لشکری (جاده مخصوص کرج)

روبروی پالایشگاه نفت پارس، پلاک ۱۲

ASK OUR FURTHER CATALOGUES:



FAMCO
هایپر صنعت

LOOKS GOOD, PERFORMS BETTER



Motive s.r.l.

Via Le Ghiselle, 20

25014 Castenedolo (BS) - Italy

Tel.: +39.030.2677087 - Fax: +39.030.2677125

web site: www.motive.it

e-mail: motive@motive.it



www.famcocorp.com

E-mail: info@famcocorp.com

@famco_group

Tel: +۲۱-۴۸۰۰۰۰۴۹

Fax: +۲۱-۴۴۹۹۴۶۴۲

تهران، کیلومتر ۲۱ بزرگراه لشگری (جاده مخصوص کرج)

روبروی پالایشگاه نفت پارس، پلاک ۱۳

AREA DISTRIBUTOR