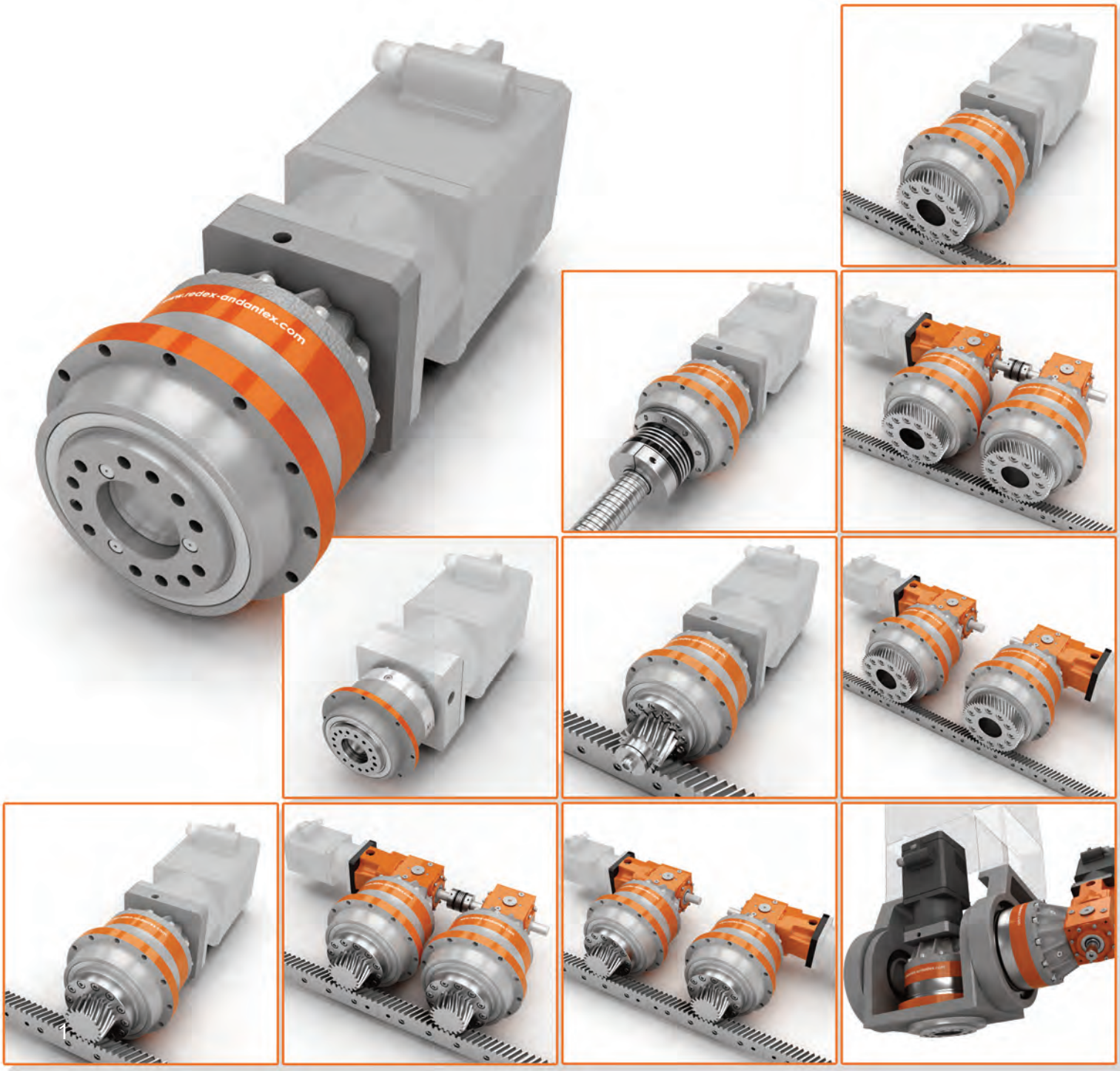
ANDANTEX
USA Inc.

Planetary
Servo-reducer
SRP Range

REDEX
The Machine Tool Drives Company

Range
Overview



SRP

Planetary Servo-reducer

Versatile Drive solution

High-tech planetary reducer + universal flange : multi-use solution

Flexibility, versatility and high performance in one package.

SRP comes as a concept-drive offering designers a ready-to-use complete machine tool sub-assembly.

SRP has the highest bearing capacity on the market,allowing hi-dynamic motion control.

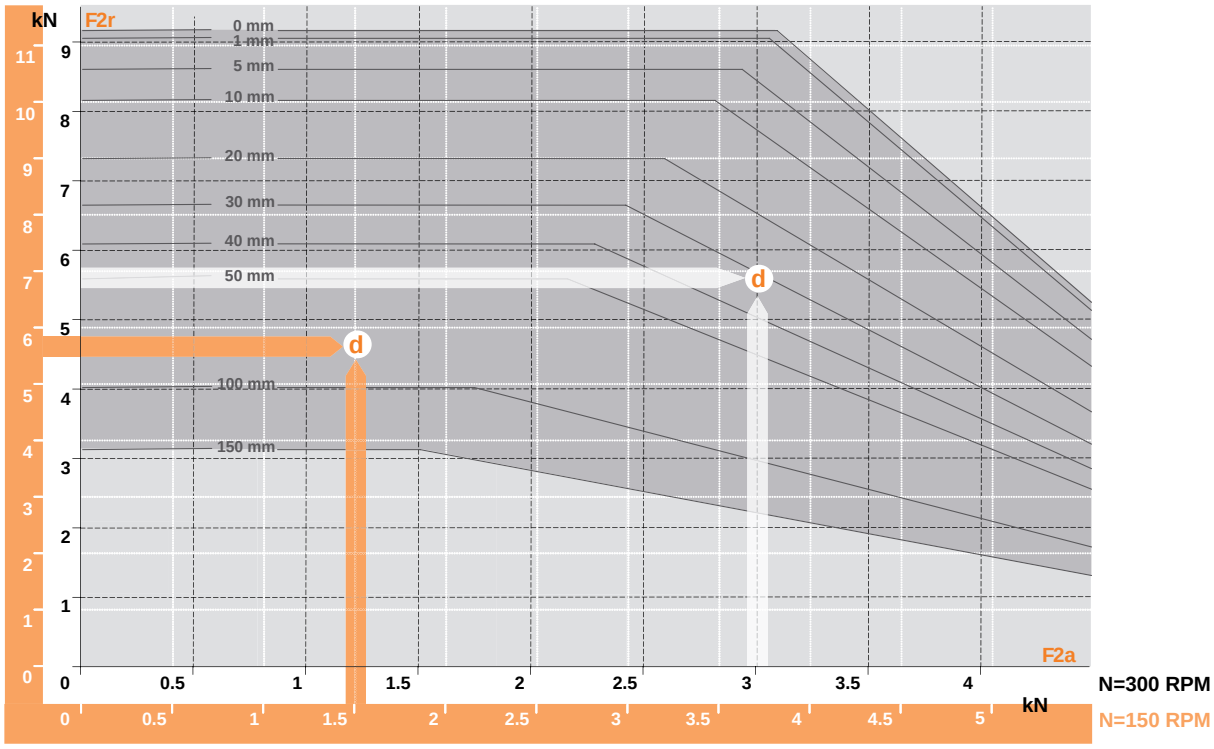
- Extra high tilting moment for high load applications
- Rack and pinion Zero backlash electrical or mechanical preload available
- Complete library of accessories available: pinions, ballscrew coupling, split pinion
- 5 sizes + 2 Jumbo sizes*, more than 700 possible configurations
- 100% compliant with machine-tools quality manufacturing and testing standards

* see additional brochure : SRP Jumbo Sizes

REDEX

Planetary
Servo-reducer

SRP Size 0



Technical features

					M	R
Max. Output Acceleration Torque	T2B	Nm	1S	i=5, 7	300	
			1S	i=10	210	
			2S	i=21	-	
			2S	i=31	-	
			2S	i=46	-	
			2S	i=61, 91	-	
Nominal Output Torque	T2N	Nm	1S	i=5, 7	175	
			1S	i=10	100	
			2S	i=21	-	
			2S	i=31	-	
			2S	i=46	-	
			2S	i=61, 91	-	
E-Stop torque	T2NOT	Nm		All Ratios	625	
Torsional Stiffness	C2t	Nm/rd	1S		262 000	262 000
		Nm/arcmin			76	76
		Nm/rd	2S		-	-
		Nm/arcmin				
Tilting Stiffness	C2K	Nm/rd			1 980 000	
		Nm/arcmin			576	

1S > 1 Stage - 2S > 2 Stages

Bearing capacity

As shown on opposite page - *with output speed = 300 RPM**

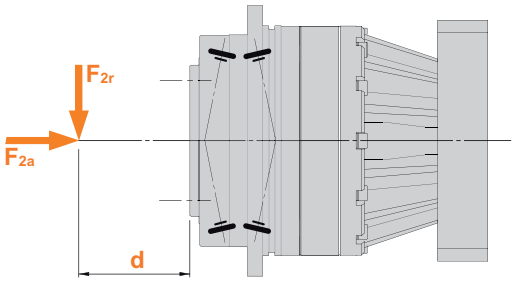
With

F_{2a} = 3 000 N (axial force)
F_{2r} = 5 600 N (radial force)

the distance between the force application point and the flange : **d**
can be up to 50 mm to keep the lifetime L_{h10} over 20 000 hours

For detailled calculation, please consult us

**Data also available for 150 RPM on opposite graph*



					M	R
Max. continuous Input Speed	n1N	RPM / tr/mn	1S		2000	
			2S		-	
Max. cyclic Input Speed	n1B	RPM / tr/mn	1S		6000	
			2S		-	
No-load running Torque (n1 < 100tr/mn)	T01	Nm		i=5	2	2
Torsional backlash	jt	arcmin		Standard	< 3	< 3
				Reduced	< 1	< 2
Max Tilting Moment	T2K	Nm		All Ratios	433	433
Max. Axial Load	F2A	N			4 360	4 360
Mass Moments of Inertia	J1	Kg.mm²	1S		354	610
			2S		-	-
Efficiency at rated input speed	η	%	1S		> 96	> 96
			2S		-	-
Weight	m	Kg	1S		6,8	10.2
			2S		-	-

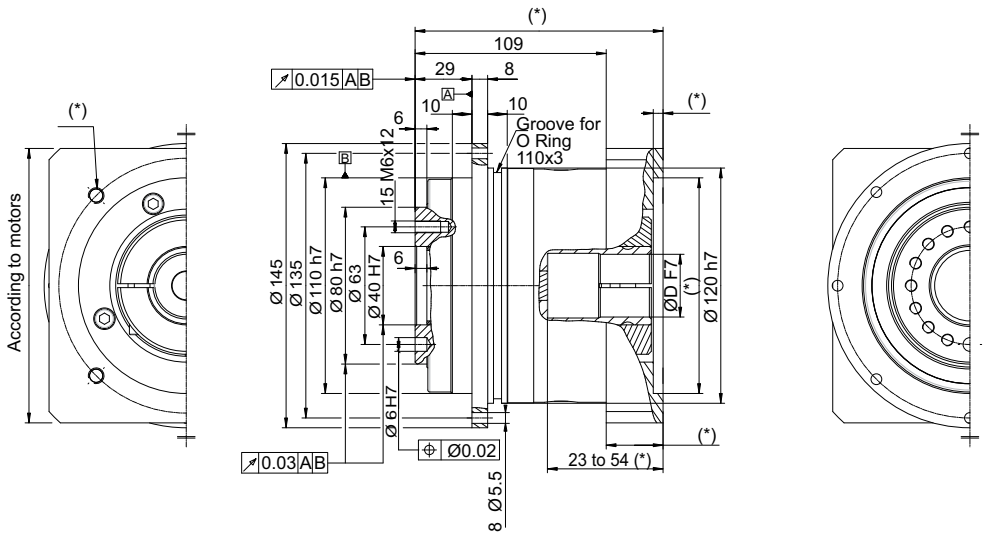
1S > 1 Stage - 2S > 2 Stages

Dimensions and main data for information only - Please consult us and / or refer to Product Datasheets - For accurate selection, contact your local supplier

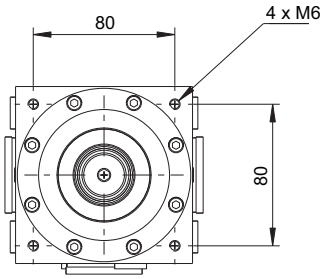
REDEX

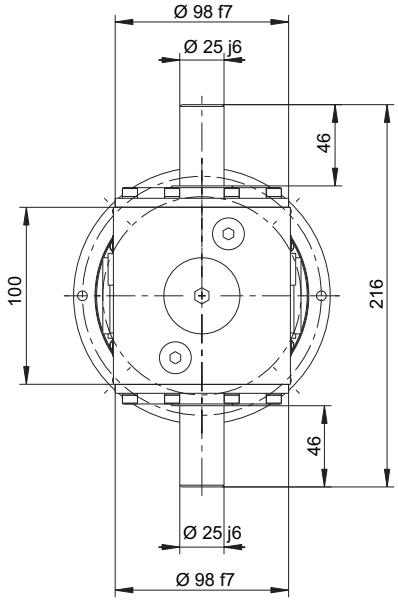
SRP Size 0

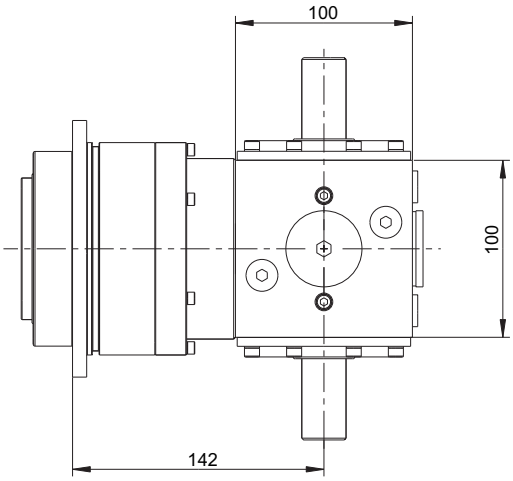
Inline version M

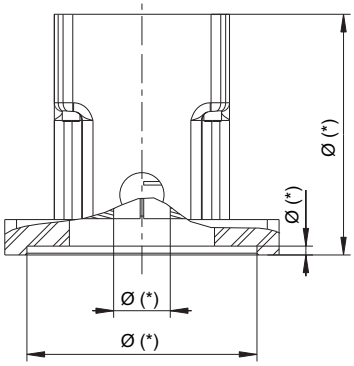


Right-angle version R





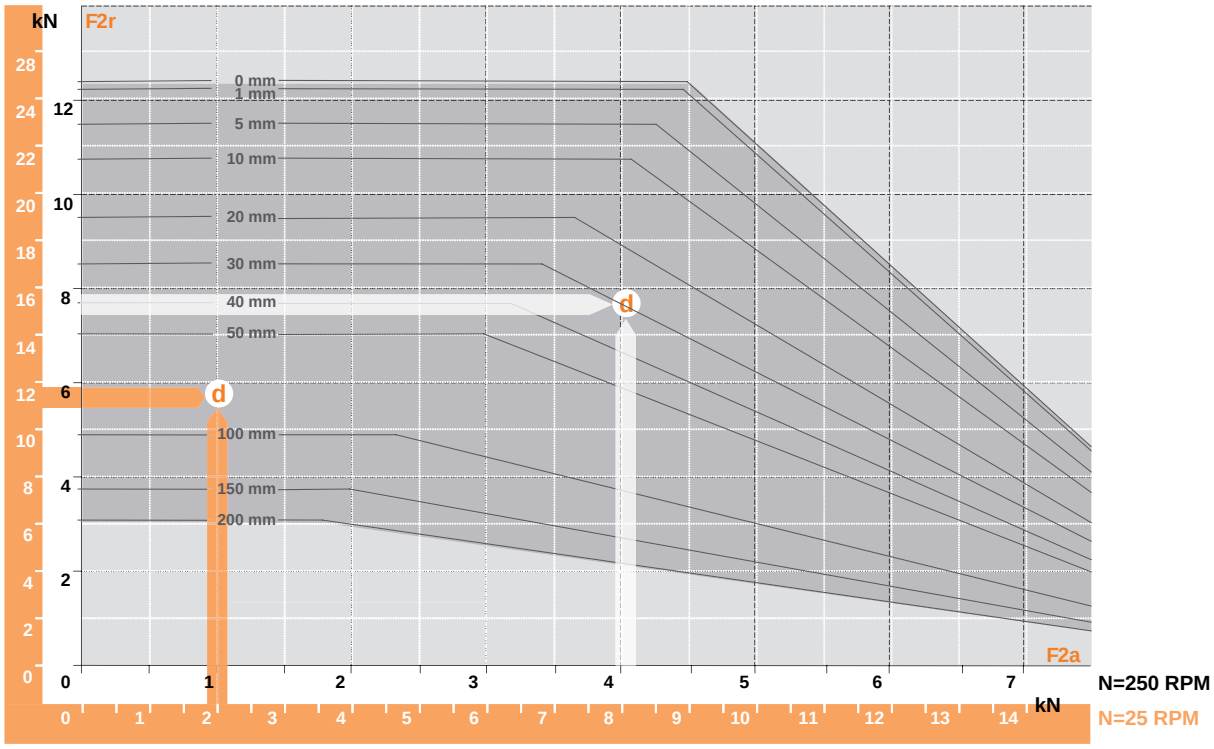




(*) according to motor's data

Planetary
Servo-reducer

SRP Size 1



Technical features

					M	R
Max. Output Acceleration Torque	T2B	Nm	1S	i=5, 7	650	
			1S	i=10	460	
			2S	i=21	490	
			2S	i=31	650	
			2S	i=46	490	
			2S	i=61, 91	460	
Nominal Output Torque	T2N	Nm	1S	i=5, 7	370	
			1S	i=10	220	
			2S	i=21	235	
			2S	i=31	370	
			2S	i=46	235	
			2S	i=61, 91	220	
E-Stop torque	T2NOT	Nm		All Ratios	1250	
Torsional Stiffness	C2t	Nm/rd	1S		530 000	350 000
		Nm/arcmin			154	102
		Nm/rd	2S		272 000	
		Nm/arcmin			79	
Tilting Stiffness	C2K	Nm/rd			2 210 000	
		Nm/arcmin			643	

1S > 1 Stage - 2S > 2 Stages

Bearing capacity

As shown on opposite page - *with output speed = 250 RPM**

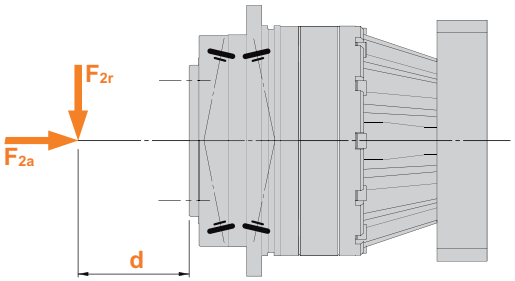
With

F_{2a} = 4 000 N (axial force)
F_{2r} = 7 800 N (radial force)

the distance between the force application point and the flange : **d**
can be up to 30 mm to keep the lifetime L_{h10} over 20 000 hours

For detailled calculation, please consult us

**Data also available for 25 RPM on opposite graph*



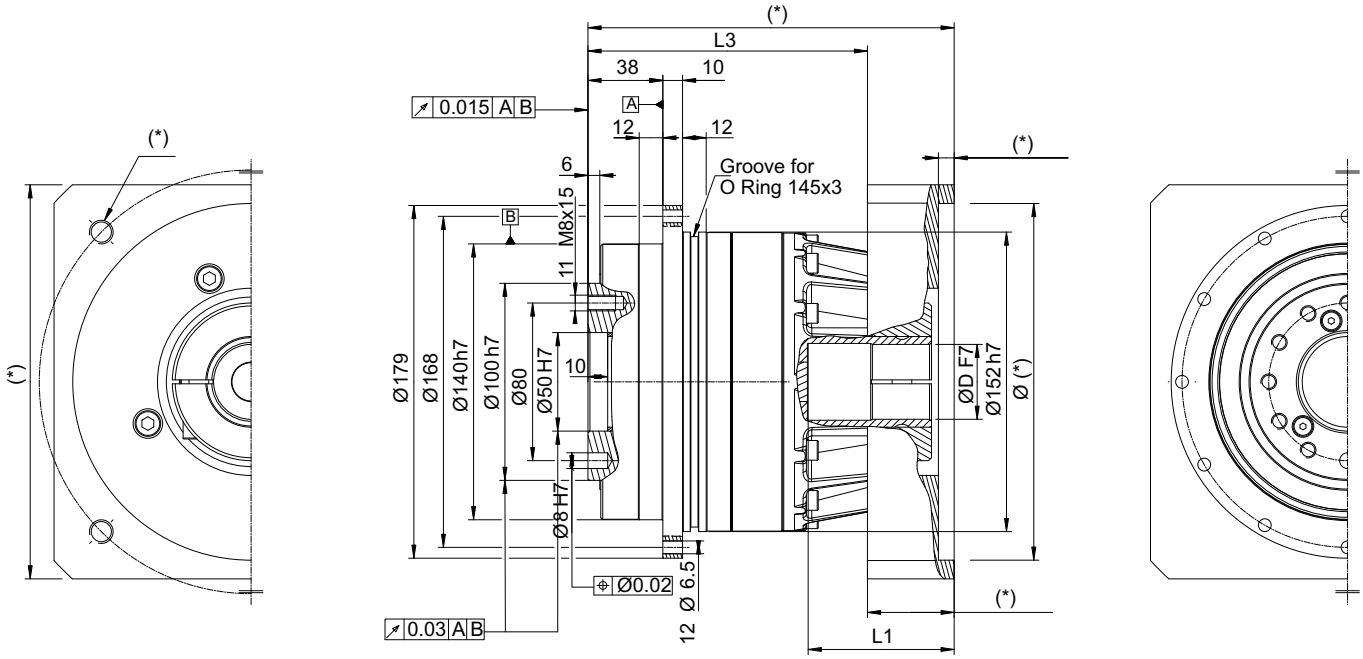
					M	R
Max. continuous Input Speed	n1N	RPM / tr/mn	1S 2S		1600 2600	
Max. cyclic Input Speed	n1B	RPM / tr/mn	1S 2S		5000 6000	
No-load running Torque (n1 < 100tr/mn)	T01	Nm		i=5 i=31	4.5 1	5 1.5
Torsional backlash	jt	arcmin		Standard Reduced	< 3 < 1	< 4 < 2
Max Tilting Moment	T2K	Nm		All Ratios	1490	
Max. Axial Load	F2A	N			7050	
Mass Moments of Inertia	J1	Kg.mm²	1S 2S		650 267	870 357
Efficiency at rated input speed	η	%	1S 2S		> 96 > 93	> 94 > 91
Weight	m	Kg	1S 2S		13.8 14.9	18.3 17

1S > 1 Stage - 2S > 2 Stages

Dimensions and main data for information only - Please consult us and / or refer to Product Datasheets - For accurate selection, contact your local supplier

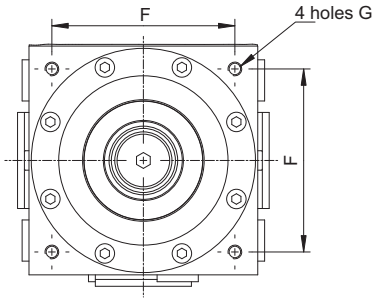
SRP Size 1

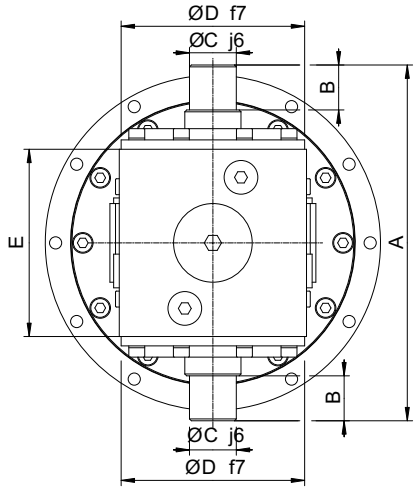
Inline version M

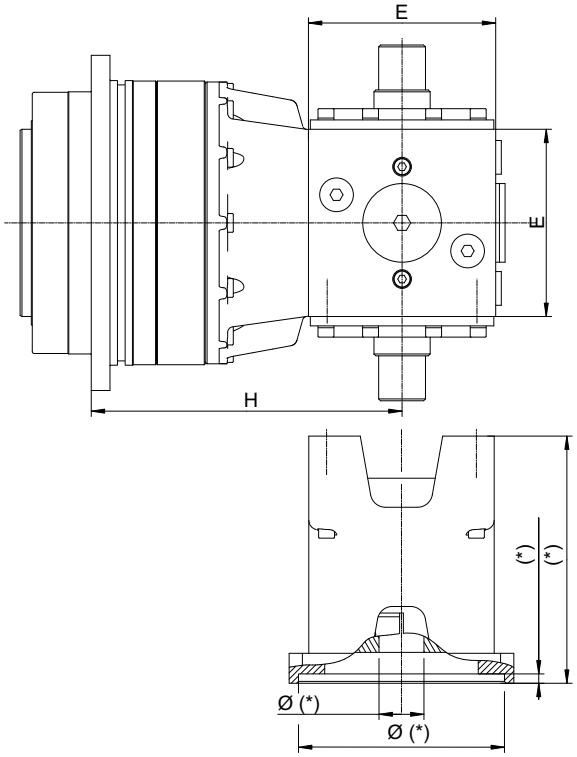


	ØD max	L1	L3
1S	38	28 to 80	142
2S	32	23 to 64	164

Right-angle version R





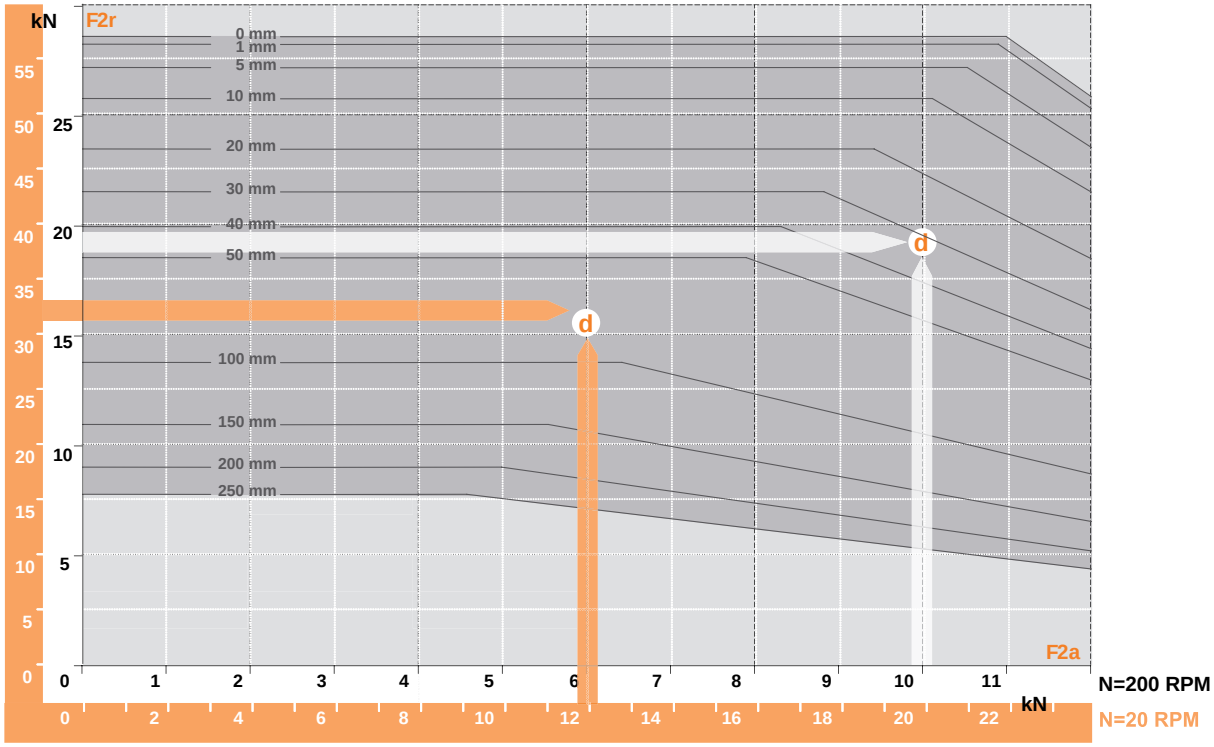


	A	B	C	D	E	F	G	H
1S	262	53.5	30	122	125	100	M8x12	170
2S	154	24.5	20	78	80	65	M5x8	172

(*) according to motor's data

Planetary
Servo-reducer

SRP Size 2



Technical features

					M	R
Max. Output Acceleration Torque	T2B	Nm	1S	i=5, 7	1450	
			1S	i=10	1150	
			2S	i=21	1150	
			2S	i=31	1600	
			2S	i=46	1150	
			2S	i=61, 91	1250	
Nominal Output Torque	T2N	Nm	1S	i=5, 7	1000	
			1S	i=10	660	
			2S	i=21	660	
			2S	i=31	1100	
			2S	i=46	660	
			2S	i=61, 91	690	
E-Stop torque	T2NOT	Nm		i=5	2250	
				Other Ratios	2750	
Torsional Stiffness	C2t	Nm/rd	1S		1 355 000	904 000
		Nm/arcmin			394	263
		Nm/rd	2S		867 000	
		Nm/arcmin			252	
Tilting Stiffness	C2K	Nm/rd			5 735 000	
		Nm/arcmin			1668	

1S > 1 Stage - 2S > 2 Stages

Bearing capacity

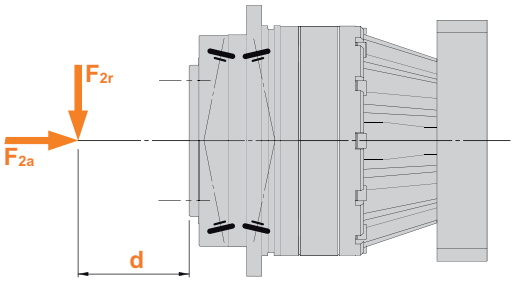
As shown on opposite page - *with output speed = 200 RPM**

With

F_{2a} = 10 000 N (axial force)
F_{2r} = 18 500 N (radial force)

the distance between the force application point and the flange : **d**
can be up to 30 mm to keep the lifetime L_{h10} over 20 000 hours

For detailled calculation, please consult us



**Data also available for 20 RPM on opposite graph*

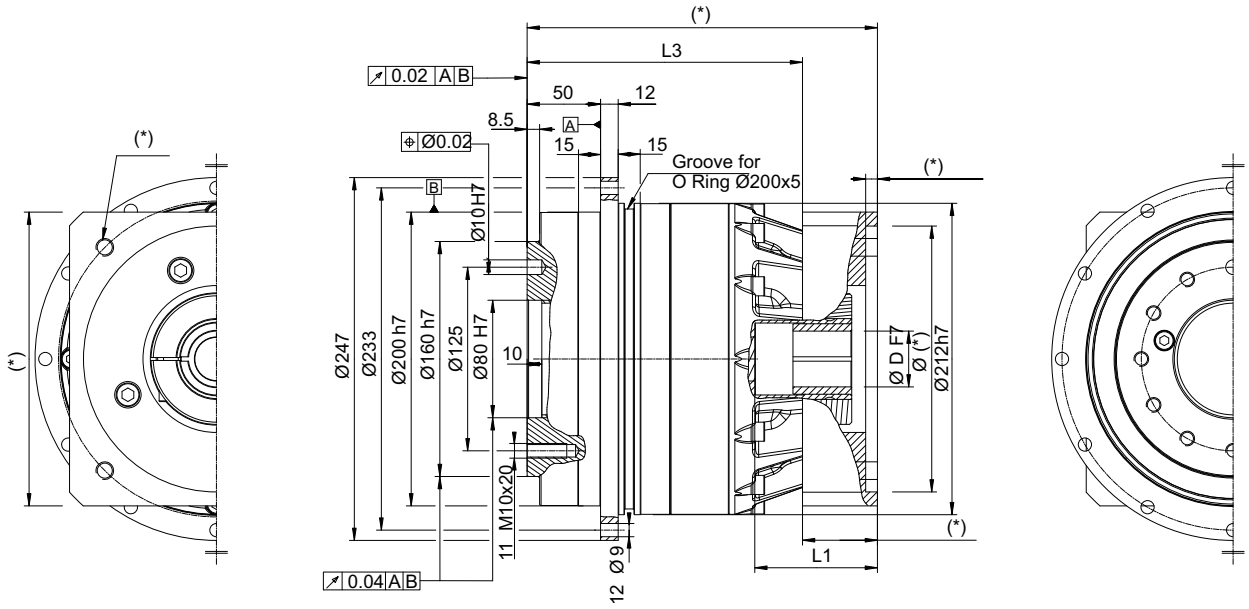
					M	R
Max. continuous Input Speed	n1N	RPM / tr/mn	1S		1600	
			2S		2100	
Max. cyclic Input Speed	n1B	RPM / tr/mn	1S		4000	
			2S		6000	
No-load running Torque (n1 < 100tr/mn)	T01	Nm		i=5	8	8.8
				i=31	2	2.3
Torsional backlash	jt	arcmin		Standard	< 3	< 4
				Reduced	< 1	< 2
Max Tilting Moment	T2K	Nm		All Ratios	3520	
Max. Axial Load	F2A	N			11 560	
Mass Moments of Inertia	J1	Kg.mm²	1S		2879	3852
			2S		533	714
Efficiency at rated input speed	η	%	1S		> 96	> 94
			2S		> 93	> 91
Weight	m	Kg	1S		33.7	41.2
			2S		35.7	40.2

1S > 1 Stage - 2S > 2 Stages

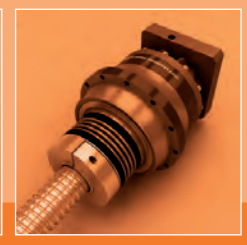
Dimensions and main data for information only - Please consult us and / or refer to Product Datasheets - For accurate selection, contact your local supplier

SRP Size 2

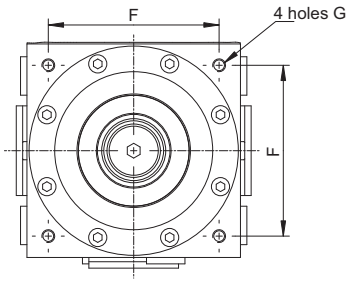
Inline version M

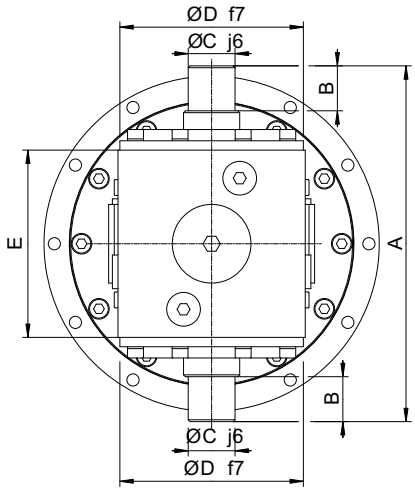


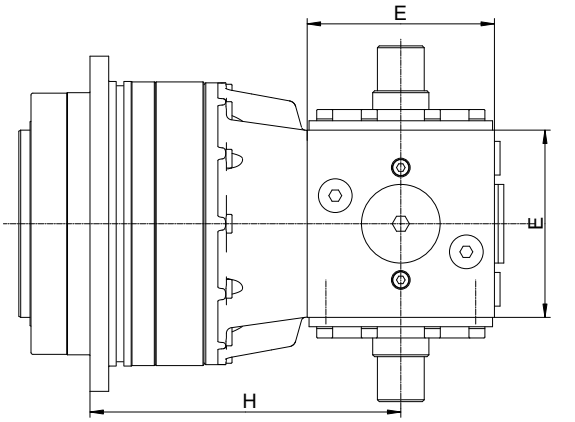
	ØD max	L1	L3
1S	48	32,5 to 82	187.5
2S	38	28 to 80	217.5

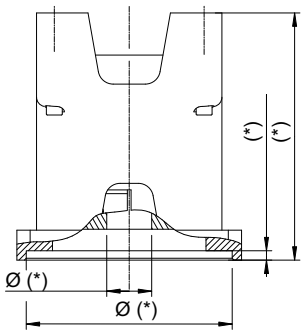


Right-angle version R







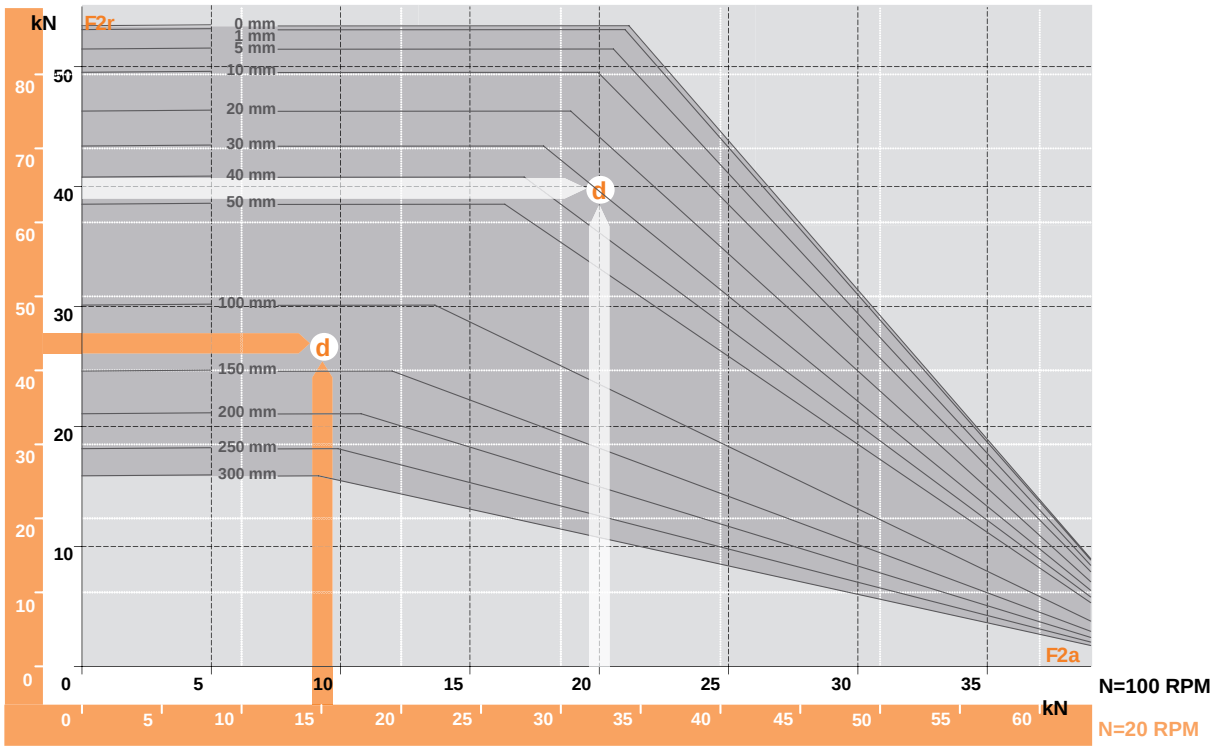


	A	B	C	D	E	F	G	H
1S	289	44.5	35	155	160	125	M10x15	228
2S	216	46	25	98	100	80	M6x10	225.5

(*) according to motor's data

Planetary
Servo-reducer

SRP Size 3



Technical features

					M	R
Max. Output Acceleration Torque	T2B	Nm	1S	i=5, 7		-
			1S	i=10		-
			2S	i=21		2450
			2S	i=31		3500
			2S	i=46		2450
			2S	i=61, 91		2700
Nominal Output Torque	T2N	Nm	1S	i=5, 7		-
			1S	i=10		-
			2S	i=21		1370
			2S	i=31		2160
			2S	i=46		1370
			2S	i=61, 91		1540
E-Stop torque	T2NOT	Nm		i=21		6700
				Other Ratios		8750
Torsional Stiffness	C2t	Nm/rd	1S		-	-
		Nm/arcmin			-	-
		Nm/rd	2S			1 732 000
		Nm/arcmin				504
Tilting Stiffness	C2K	Nm/rd				21 980 000
		Nm/arcmin				6394

1S > 1 Stage - 2S > 2 Stages

Bearing capacity

As shown on opposite page - *with output speed = 100 RPM**

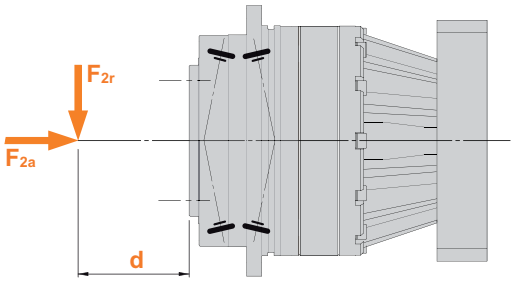
With

F_{2a} = 20 00 N (axial force)
F_{2r} = 40 00 N (radial force)

the distance between the force application point and the flange : **d**
can be up to 30 mm to keep the lifetime L_{h10} over 20 000 hours

For detailled calculation, please consult us

**Data also available for 20 RPM on opposite graph*



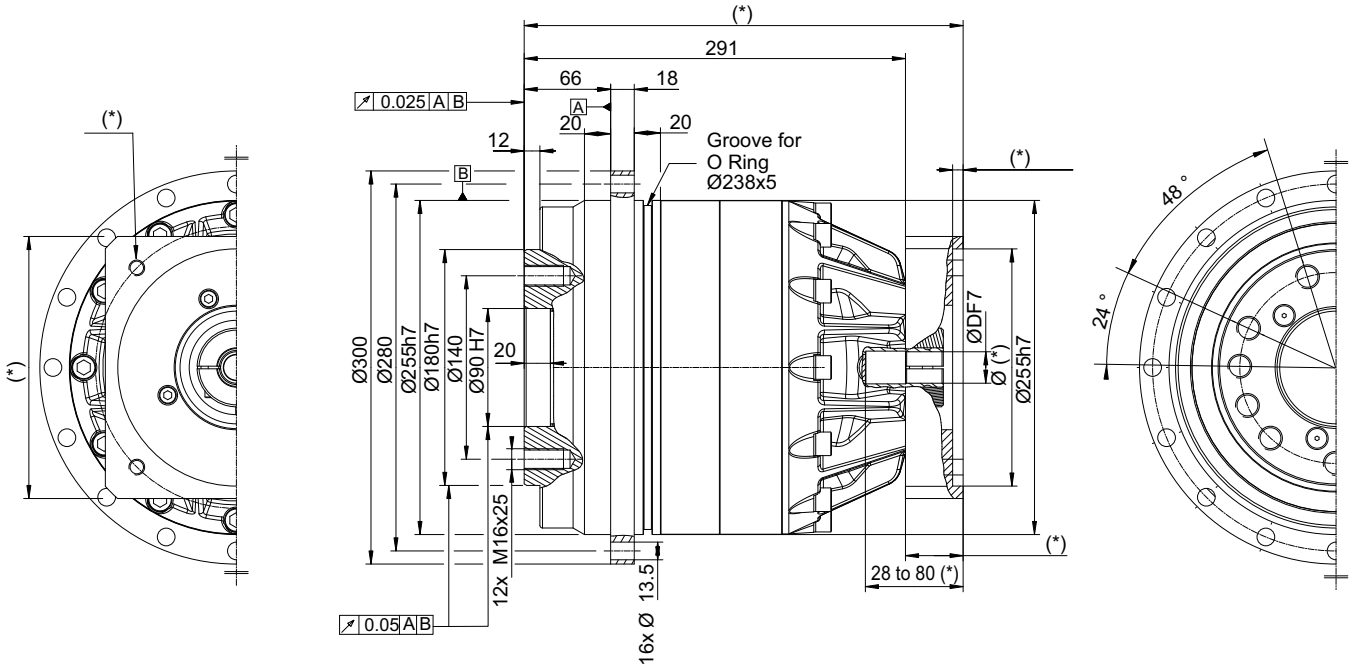
					M	R
Max. continuous Input Speed	n1N	RPM / tr/mn	1S 2S		- 1600	
Max. cyclic Input Speed	n1B	RPM / tr/mn	1S 2S		- 5000	
No-load running Torque (n1 < 100tr/mn)	T01	Nm		i=5 i=31	- 2.5	- 2.8
Torsional backlash	jt	arcmin		Standard	< 3	< 4
Max Tilting Moment	T2K	Nm		All Ratios	6790	
Max. Axial Load	F2A	N			37 900	
Mass Moments of Inertia	J1	Kg.mm²	1S 2S		- 859	- 1149
Efficiency at rated input speed	η	%	1S 2S		- > 93	- > 91
Weight	m	Kg	1S 2S		- 76	- 83

1S > 1 Stage - 2S > 2 Stages

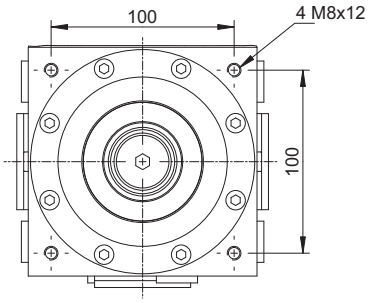
Dimensions and main data for information only - Please consult us and / or refer to Product Datasheets - For accurate selection, contact your local supplier

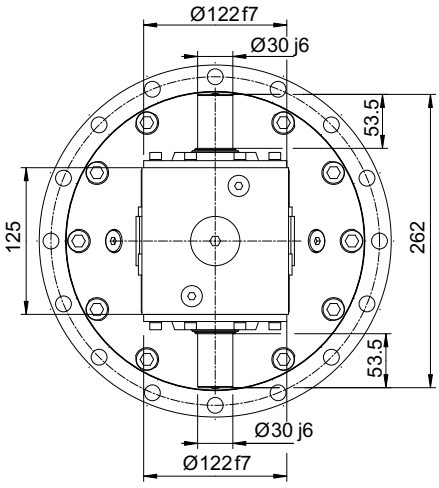
SRP Size 3

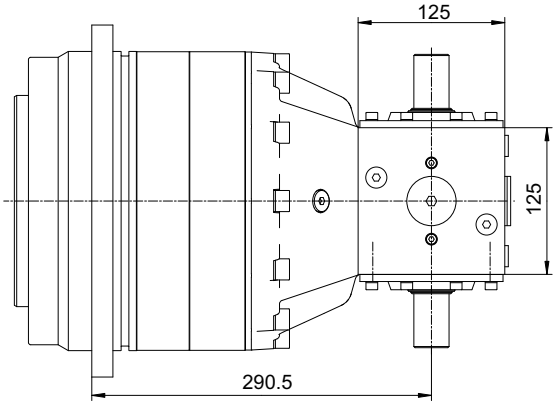
Inline version M

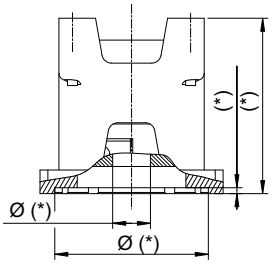


Right-angle version R



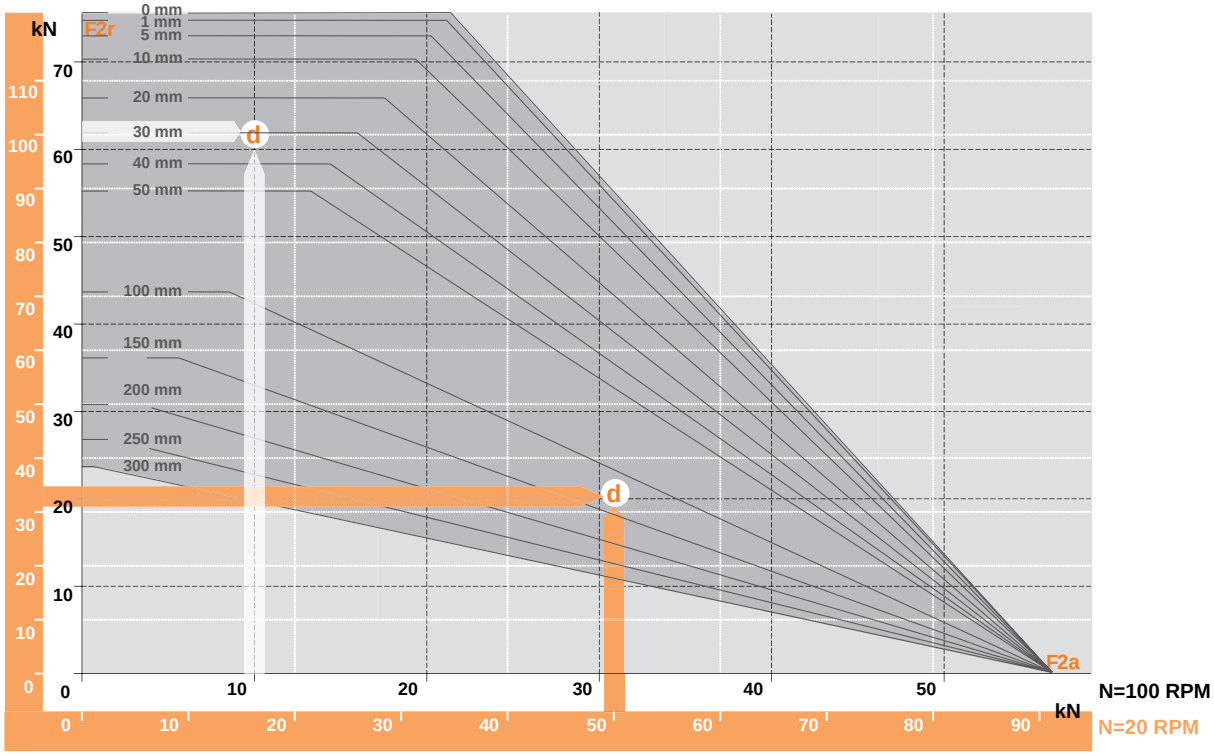






(*) according to motor's data

SRP Size 4



					M	R
Max. Output	T2B	Nm	1S	i=5, 7		-
Acceleration			1S	i=10		-
Torque			2S	i=21		4200
			2S	i=31		6000
			2S	i=46		4200
			2S	i=61, 91		4800
Nominal	T2N	Nm	1S	i=5, 7		-
Output			1S	i=10		-
Torque			2S	i=21		2560
			2S	i=31		3600
			2S	i=46		2560
			2S	i=61, 91		2840
E-Stop torque	T2NOT	Nm		i=21		10 000
				Other Ratios		15 000
Torsional	C2t	Nm/rd	1S		-	-
Stiffness		Nm/arcmin			-	-
		Nm/rd	2S			2 404 000
		Nm/arcmin				699
Tilting	C2K	Nm/rd				33 275 000
Stiffness		Nm/arcmin				9480

1S > 1 Stage - 2S > 2 Stages

Technical features

Bearing capacity

As shown on opposite page - *with output speed = 100 RPM**

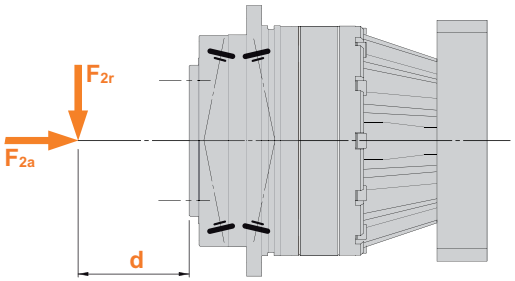
With

F_{2a} = 10 000 N (axial force)
F_{2r} = 63 000 N (radial force)

the distance between the force application point and the flange : **d**
can be up to 30 mm to keep the lifetime L_{h10} over 20 000 hours

For detailled calculation, please consult us

**Data also available for 20 RPM on opposite graph*



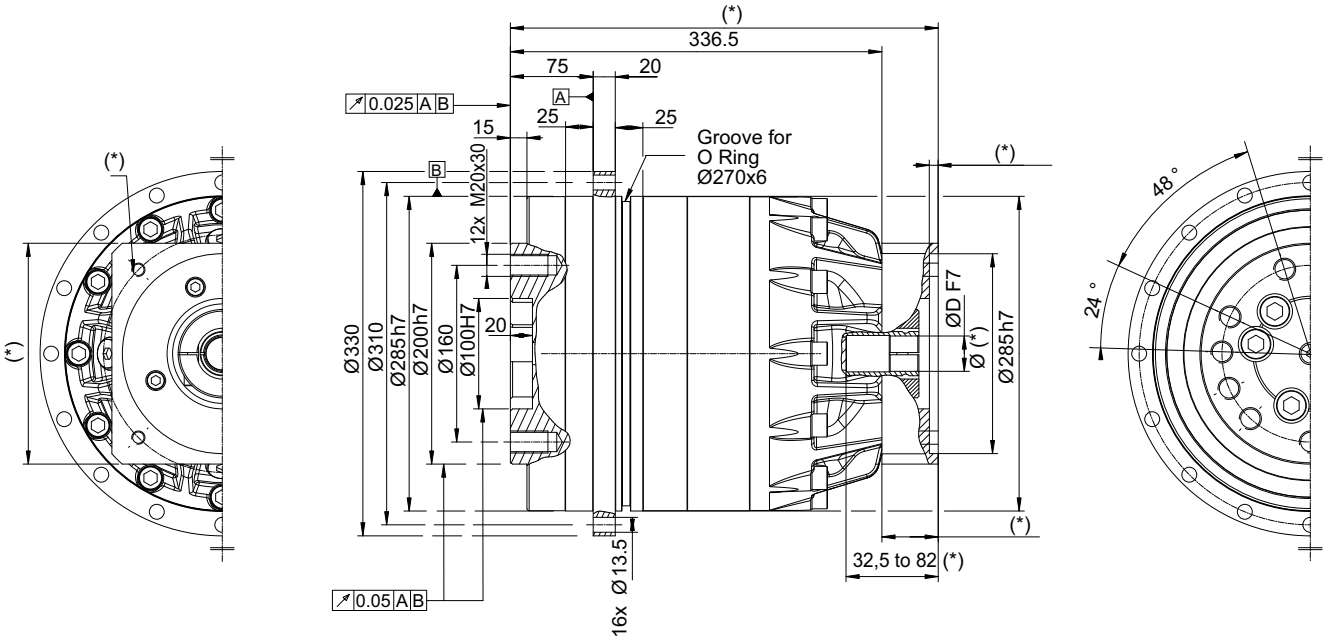
					M	R
Max. continuous Input Speed	n1N	RPM / tr/mn	1S 2S		- 1300	
Max. cyclic Input Speed	n1B	RPM / tr/mn	1S 2S		- 4000	
No-load running Torque (n1 < 100tr/mn)	T01	Nm		i=5 i=31	- 3	- 3.6
Torsional backlash	jt	arcmin		Standard	< 3	< 4
Max Tilting Moment	T2K	Nm		All Ratios	10 100	
Max. Axial Load	F2A	N			57 500	
Mass Moments of Inertia	J1	Kg.mm²	1S 2S		- 2886	- 3861
Efficiency at rated input speed	η	%	1S 2S		- > 93	- > 91
Weight	m	Kg	1S 2S		- 123	- 144

1S > 1 Stage - 2S > 2 Stages

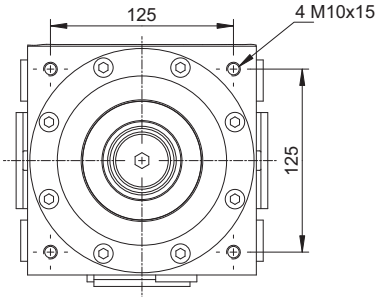
Dimensions and main data for information only - Please consult us and / or refer to Product Datasheets - For accurate selection, contact your local supplier

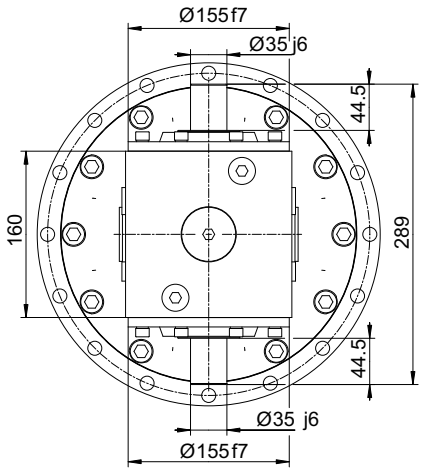
SRP Size 4

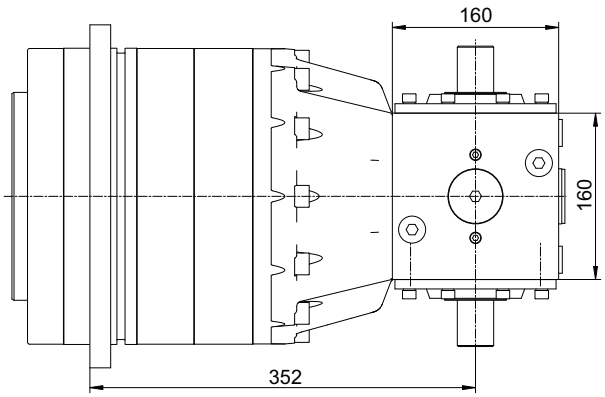
Inline version M

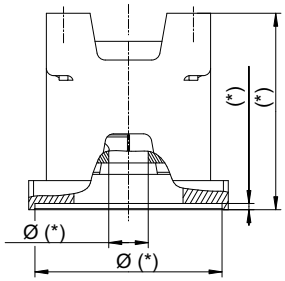


Right-angle version R









(*) according to motor's data

info@machine-tool-drives.com
www.machine-tool-drives.com

ANDANTEX USA Inc.

www.andantex.com

REDEX
The Machine Tool Drives Company

RX_GB_206_04