



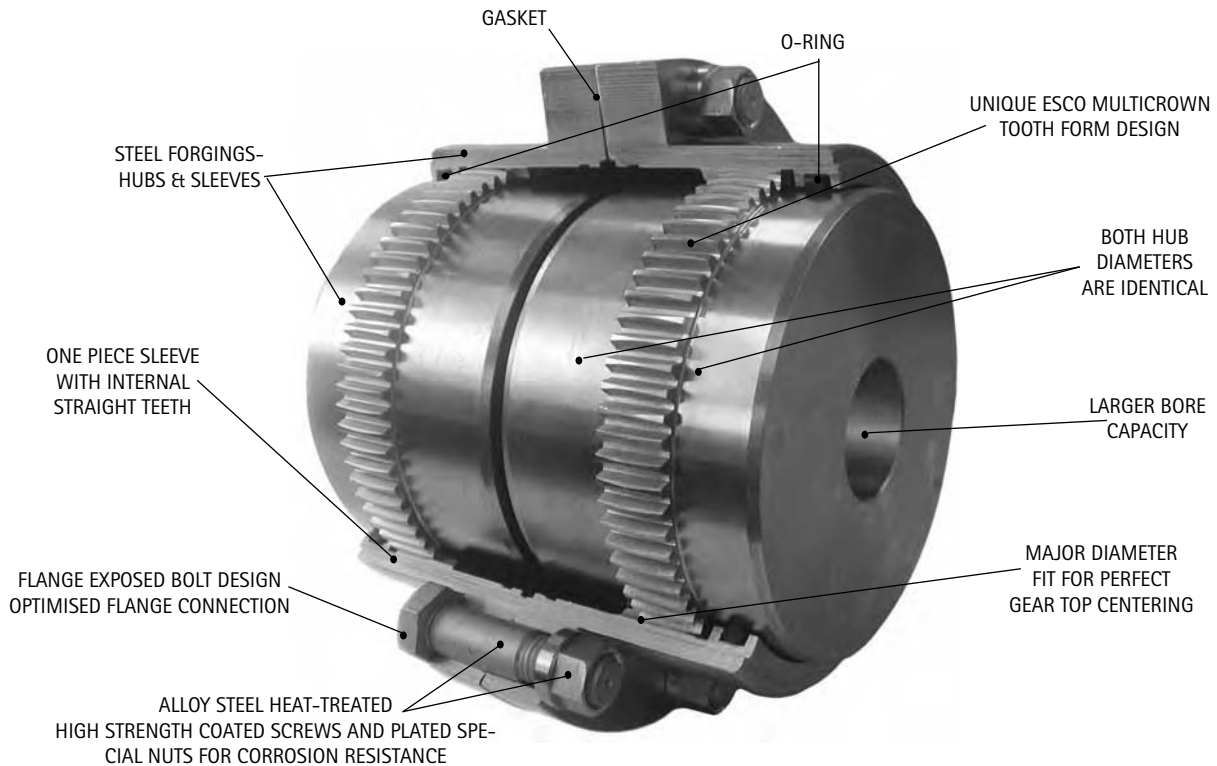
escogear

FLEXIBLE GEAR COUPLINGS

SERIES F

WITH ESCO MULTICROWN TOOTH FORM FOR LONG LIFE

Maximum torque: up to 5 040 000 Nm „ Bore: up to 1 130 mm



LOWER STRESSES

The **ESCO MULTICROWN** tooth form is a curve with constantly changing radii of curvature. The tooth contact area under misaligned conditions has a much larger radius of curvature than conventional crowning. The contact area therefore is larger thus reducing the surface stresses.

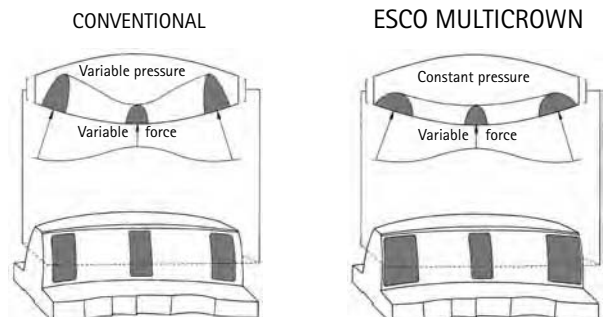
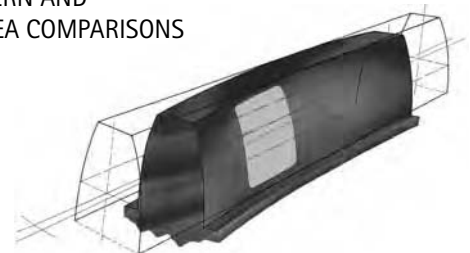
CONSTANT VELOCITY POWER TRANSMISSION

ESCO generates the **ESCO MULTICROWN** tooth in such a way that the necessary characteristics for homocinetic conjugate tooth action are perfectly achieved.

LESS BACKLASH


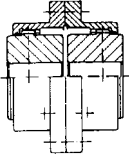

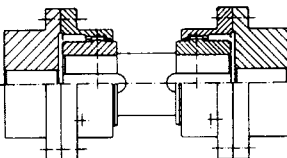

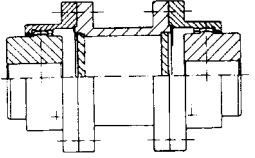

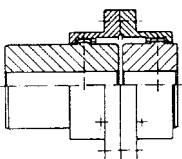

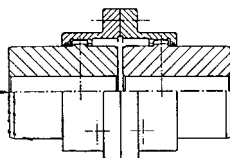

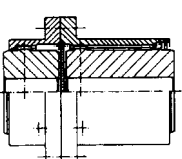

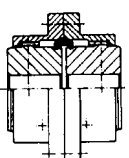
The **ESCO MULTICROWN** tooth design requires less backlash for a given angle of misalignment than the conventional crowning, thus reducing shocks in reversing application.


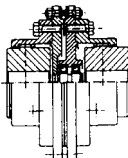

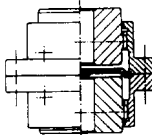

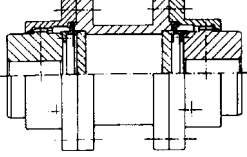

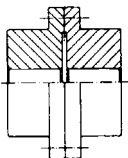

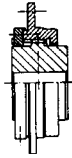

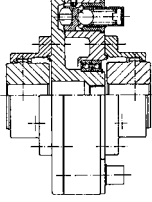
STRESS PATTERN AND CONTACT AREA COMPARISONS





AVAILABILITIES

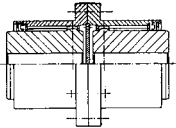
FST		← B410 & B411	
STANDARD			
FFS		← B412	
FLOATING SHAFT			
FSE		← B413	
SPACER EXECUTION			
FMM		← B414	
MILL-MOTOR			
FDMM		← B415	
DOUBLE MILL-MOTOR			
FSH		← B416	
SLIDING HUB			
FLE		← B417	
LIMITED EN FLOAT			

Bolts and nuts (metric)		Bolts and nuts (conform to AGMA 516.01)	
Exposed metric "EM"		Exposed inch "EI"	
FSP		← B418	
SHEAR PIN			
FSV		← B419	
STANDARD VERTICAL			
FSLE		← B420	
LIMITED END FLOAT			
FRR		← B421	
RIGID - RIGID			
FWD		← B422	
WINCH DRUM			
FET		← B423	
WITH ESCOTORQUE			

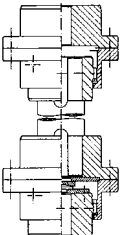


OTHER TYPES AVAILABLE (on request)

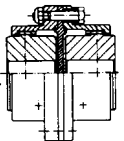
FDSH
DOUBLE SLIDING-HUB



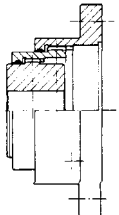
FFSV
VERTICAL
FLOATING-SHAFT



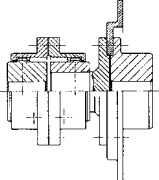
FIN
INSULATED



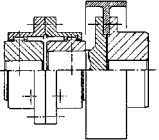
FFA
TO BE ADAPTED
ON FLYWHEEL
OR FLANGE



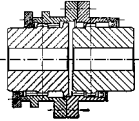
FBD
WITH
BRAKE DISC



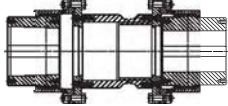
FBP
WITH
BRAKE-PULLEY



FCO
CUT-OUT

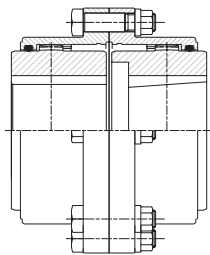


FSESP
SHEAR SPACER

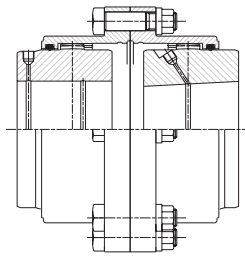


Only a few special types of couplings are illustrated. Additional special types are available on request.

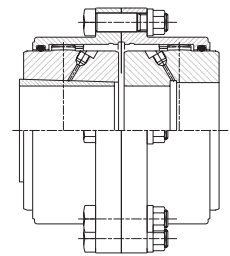
SHAFT CONNECTIONS



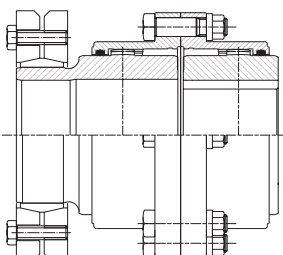
KEYWAY



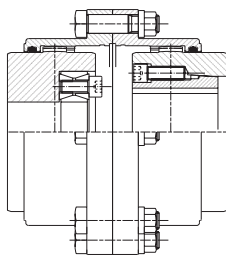
INTERFERENCE FIT



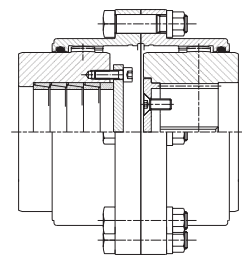
INTERFERENCE WITH
INTERMEDIATE CONICAL BUSHING



EXTERNAL CLAMPING



INTERNAL CLAMPING



SPLINES



HOW TO SELECT THE RIGHT COUPLING SIZE

A. Select the size of ESCOGEAR coupling that will accommodate the largest shaft diameter.

B. Make sure this coupling has the required torque capacity according to following formula: torque in Nm = $\frac{9550 \times P \times F_u \times F_{\epsilon_x}}{n}$

P = power in kW; n = speed in rpm; F_u = service factor according to tabulation 1.

F_{εx} = 2 in case of use in potentially explosive atmospheres (ε_x), European Directive 94/9/EC. In normal atmospheres, F_{εx} = 1.

The coupling selected per (A) must have an equal or greater torque capacity than the result of the formula (B). If not select a larger size coupling. Check if application peak torque does not exceed tabulated peak torque Tp indicated planographs B410 to B423. Check also max. allowable misalignment using the graph of tabulation 2.

C. Check if shaft/hub connection will transmit the torque. If necessary, select a longer hub.

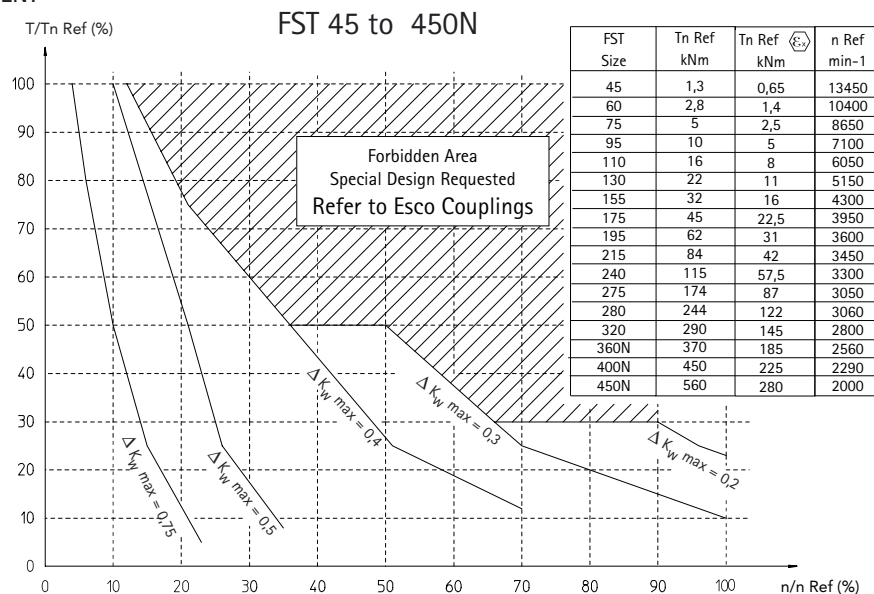
D. Read carefully assembly and maintenance instructions IM/B400.

APPLICATIONS		DRIVER MACHINE		
		Electric motors Turbines	Hydraulic motors Gears drivers	Reciprocating engine Electric motors frequent starts
UNIFORM	Generators - Blowers: centrifugal vane, fans - Centrifugal pumps and compressors - Machine tools: auxiliary drives - Conveyors: belt and chain, uniformly loaded, escalators - Can filling machines and bottling machinery - Agitators: pure liquids.	0,8 to 1,25	1 to 1,5	1,25 to 1,75
	Propeller - Waterjet pumps	1,25	1,5	1,75
MODERATE SHOCKS	Blowers: lobe - Pumps: gear and lobe types - Vane compressors - Machine tools: main drives - Conveyors: belt and chain not uniformly fed bucket and screw - Elevators, cranes, tackles and winches - Wire winding machines, reels, winders (paper industry) - Agitators liquids and solids, liquids variable density.	1,25 to 1,5	1,5 to 1,75	1,75 to 2
HEAVY SHOCKS	Generators (welding) - Reciprocating pumps and compressors - Laundry washers - Bending roll, punch press, tapping machines - Barkers, calanders, paper presses - Briquetter machines, cement furnace - Crushers: ore and stone, hammer mill, rubber mill - Metal mills: forming machines, table conveyors - Draw Bench, wire drawing and flattening machines - Road & railroad equipment.	1,5 to 2	1,75 to 2,25	2 to 2,5

1) MAXIMUM MISALIGNMENT

TABULATION 2

GRAPH (T, n)



HOW TO USE THE GRAPH (T,n) ?

Maximum torque, maximum speed and maximum misalignment may not occur simultaneously.

Graph must be used as follows:

1. Calculate Tn and Tp and select coupling size as usual. Tn = nominal torque; Tp = peak torque
2. Calculate Tn/TnRef and n/nRef and plot the resulting point in the graph.
3. If the resulting point is located in the white area, a standard coupling may be used as far as maximum misalignment doesn't exceed the maximum misalignment indicated in the graph.
4. If the resulting point is located in the shaded area, refer to ESCO COUPLINGS
5. In case of use in potentially explosive atmospheres (ε_x), proceed the same way but using Tn Ref(ε_x) for the calculation. Max misalignment may not exceed 0,5° per gear mesh.



2) MINIMUM MISALIGNMENT = $\Delta K_{w\min} = 0,1^\circ$

3) MISALIGNMENT CONTROL

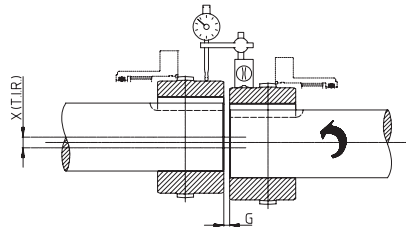
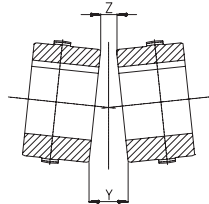
1- Measure X (TIR) - 2- Measure Y-Z - 3- Verify the relationship for the misalignment control: $\Delta K_{w\min} \leq \frac{X}{K_x} + \frac{Y-Z}{K_y} \leq 0,75 \times \Delta K_{w\max}$

$$K_x = K_{x0} + \frac{S}{30} \quad \text{with } S = \text{Spacer length (mm)}$$

(If no spacer: S = 0)

$$K_y = K_{y0}$$

FST	K _{x0}	K _{y0}
45	1,92	2,34
60	2,06	3,04
75	2,76	3,71
95	3,25	4,54
110	3,80	5,28
130	4,47	6,22
155	5,03	7,55
175	5,72	8,20
195	6,35	9,18
215	7,47	9,98
240	8,24	11,04
275	9,18	12,98
280	10,82	13,76
320	11,34	15,08
360	12,32	16,76
400	13,37	18,50
450	14,35	20,74



4) EXAMPLES:

Calculation

$$\left. \begin{array}{l} T/T_n \text{ ref} = 30\% \\ n/n \text{ ref} = 30\% \end{array} \right\} \Delta K_{w\max} = 0,4^\circ$$

FST 175: $K_x = 5,72 \quad K_y = 8,2$

Measurement

$$X \text{ (TIR)} = 0,9 \text{ mm} \quad Y-Z = 0,4 \text{ mm}$$

Control

Formule:

$$\Delta K_{w\min} \leq \frac{X}{K_x} + \frac{Y-Z}{K_y} \leq 0,75 \times \Delta K_{w\max}$$

$$\text{Calculation : } 0,1^\circ \leq \frac{0,9}{5,7} + \frac{0,4}{8,2} \leq 0,75 \times 0,4 \quad \text{ok}$$

LEGEND OF USED PICTOGRAMS		Notes for series F
	MAXIMUM NOMINAL BORE (mm)	<ol style="list-style-type: none"> For key according to ISO R 773. Gear maximum continuous transmissible torque for the tabulated misalignment. The effective transmissible torque depends on the bore and shaft/hub connection. Higher speed on special request. 1 For grease withstanding centrifugal acceleration of 1.000g. See installation and maintenance manual IM. 2 For grease withstanding centrifugal acceleration of 2.000g. See installation and maintenance manual IM. 3 Depends on S. 4 For long operation in disconnected position contact us. 4 For solid bore. 4.1 Depends on S. 4.2 For solid bore and S minimum. 4.3 Per 100 mm spacer length. 4.4 Depends on L and R. 5 For pilot bored hubs. 5.1 Depends on S. 5.2 For pilot bored hubs and S minimum. 5.3 Per 100 mm spacer length. 5.4 Depends on L and R. 6 See installation and maintenance manual IM. 6.1 Depends on S. Values given for S maximum. 7 On request. For larger S contact us. 8 Values for S minimum. S maximum depends on torque and speed. 9 G must remain constant during operation. 10 Needed to control the alignment and inspect the gears.
	MINIMUM BORE (mm)	
	MAXIMUM BORE (mm)	
	MAXIMUM NOMINAL TORQUE (Nm)	
	MAXIMUM PEAK TORQUE (Nm)	
	MAXIMUM SPEED (rpm)	
	MAXIMUM OFFSET (mm)	
	MAXIMUM ANGULAR MISALIGNMENT (degree)	
	INERTIA (kgm ²)	
	WEIGHT (kg)	
	GREASE QUANTITY (dm ³)	* Max. torque, speed and misalignment tabulated values may not be cumulated See IM/B400.



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Equivalence chart based on torque ratings

Torque Capacity (Nm)	Escogear FST (2 x 0,75°)	Flender Zapex (2 x 0,5°)	Maina GO-A (2 x 0,5°)	Jaure MT Series (2 x 0,5°)	Falk Lifelign (2 x 0,5°)	Kopflex Series H
175000			GO-A 11			
150000	FST 275					
125000						
100000	FST 240	ZIN 7	GO-A 10	MT 260	1070G	7H
80000	FST 215	ZIN 6		MT 230	1060G	
60000	FST 195	ZIN 5,5	GO-A9	MT 205	1055G	6H
40000	FST 175	ZIN 5	GO-A 8	MT 185	1050G	5,5H
30000	FST 155	ZIN 4,5	GO-A 7	MT 165	1045G	5H
20000	FST 130	ZIN 4	GO-A 6	MT 145	1040G	4,5H
15000	FST 110	ZIN 3,5	GO-A 5	MT 125	1035G	4H
10000						
7500	FST 95	ZIN 3	GO-A 4	MT 100	1030G	3H
5000						
5000	FST 75	ZIN 2,5	GO-A 3	MT 90	1025G	2,5H
3500						
3500	FST 75		GO-A 2	MT 70	1020G	2H
2500						
2500	FST 60	ZIN 2	GO-A 1			
2000						
2000						
1500						
1500				MT 55	1015G	1,5H
1250		ZIN 1,5				
1000						
1000	FST 45		GO-A 0			
750		ZIN 1		MT 42	1010G	1H
500						

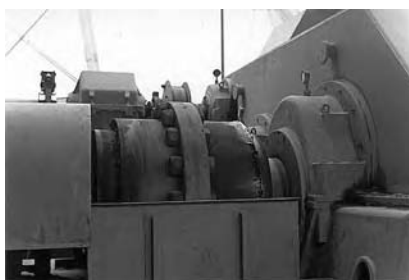
Remark: When selecting based upon the above equivalent chart, please check bore capacity of escogear coupling against the application requirements.



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Agma standard - Interchangeability Chart

ESCO	LOVEJOY	FALK	KOP-FLEX	AMERIDRIVES	AJAX
FST	F	G20, G10	H	F	6901
45	1	1010	1	101	1
60	1 1/2	1015	1 1/2	101 1/2	1,5
75	2	1020	2	102	2
95	2 1/2	1025	2 1/2	102 1/2	2,5
110	3	1030	3	103	3
130	3 1/2	1035	3 1/2	103 1/2	3,5
155	4	1040	4	104	4
175	4 1/2	1045	4 1/2	104 1/2	4,5
195	5	1050	5	105	5
215	5 1/2	1055	5 1/2	105 1/2	5,5
240	6	1060	6	106	6
275	7	1070	7	107	7



Cement kiln mill drive

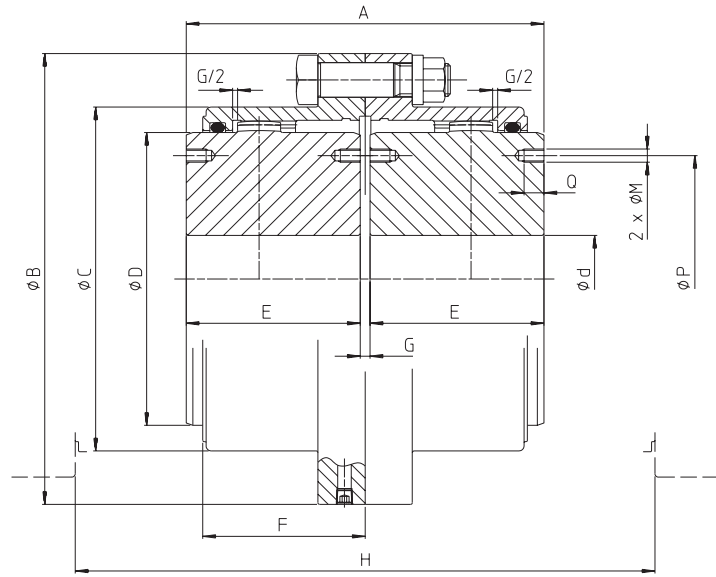


Vertical mixer drive



escogear

FST 45 ⇔ 275



max. 1,5°

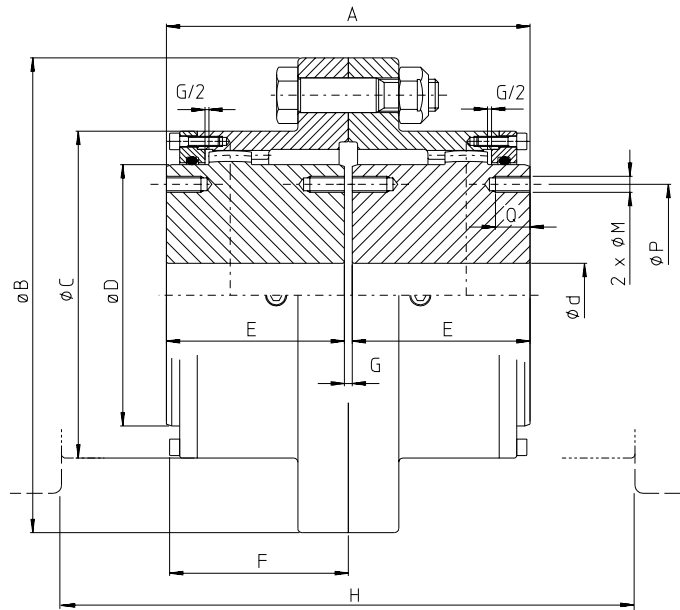
		Type FST													
			45	60	75	95	110	130	155	175	195	215	240	275	
← A150 	d Ø nominal max.	mm	45	60	75	95	110	130	155	175	195	215	240	275	
	d Ø min.	mm	0	0	0	0	0	55	65	80	90	100	120	150	
	* d Ø max.	mm	50	64	78	98	112	132	158	175	198	217	244	275	
	Tn	Nm	1300	2800	5000	10000	16000	22000	32000	45000	62000	84000	115000	174000	
	Tp		2600	5600	10000	20000	32000	44000	64000	90000	124000	168000	230000	348000	
	3.1	tr/min omw/min	5000	4400	4000	3600	3350	3100	2800	2700	2550	2450	2300	2150	
	3.2	rpm min ⁻¹	7000	6200	5650	5100	4700	4350	4000	3800	3600	3450	3300	3050	
	—	degré graad degree Grad	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	
	—	mm: ±	0,35	0,4	0,5	0,6	0,7	0,9	1	1,1	1,2	1,4	1,5	1,7	
	4	kgm ² (WR ²)	0,005	0,015	0,040	0,105	0,191	0,430	0,842	1,320	2,448	3,716	5,384	10,872	
	5	kg	4,1	8,0	14,6	26,1	38,8	59,2	89,4	117,5	167,1	222,4	275,0	413,6	
	6	dm ³	0,05	0,07	0,13	0,21	0,36	0,52	0,80	0,98	1,51	2,02	2,43	3,29	
mm: ±	A	mm	89	103	127	157	185	216	246	278	308	358	388	450	
	B	mm	111	141	171	210	234	274	312	337	380	405	444	506	
	C	mm	80	103,5	129,5	156	181	209	247	273	307	338	368	426	
	D	mm	67	87	106	130	151	178	213	235	263	286	316	372	
	E	mm	43	50	62	76	90	105	120	135	150	175	190	220	
	F	mm	41	47	58,5	68,5	82	98	108,5	121	132	151,5	165	183,5	
	G	mm	3	3	3	5	5	6	6	8	8	8	8	10	
	H	10	mm	147	166	212	249	295	350	392	440	484	562	616	688
	M	mm									M 12	M 16	M 16	M 16	M 20
	P	mm									205	226	250	276	330
Q	mm									18	24	24	24	30	

* Consult us



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FST 280 ⇨ 1130



max. 1,5°

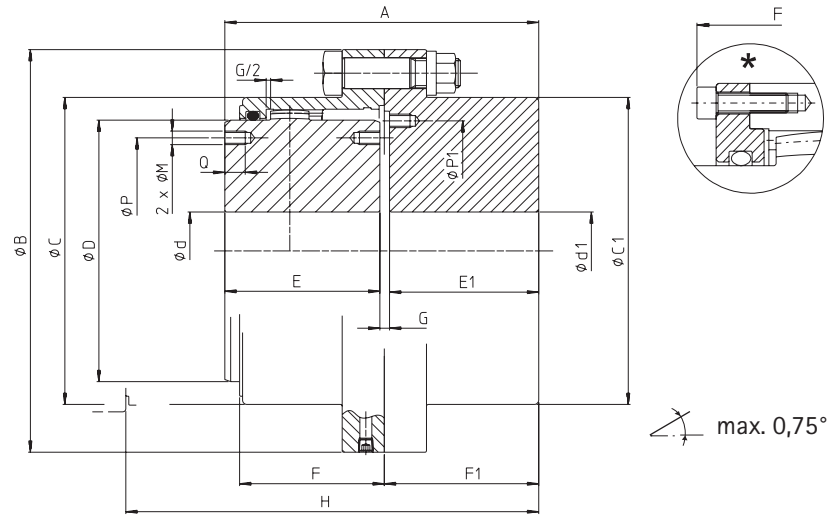
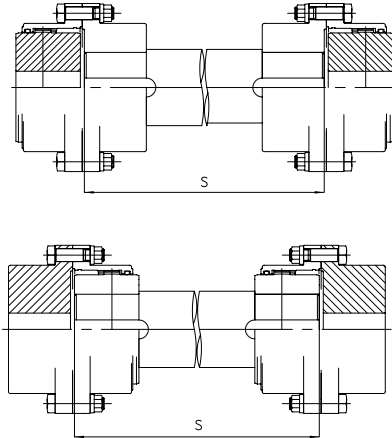
←A150		Type FST																
		280	320	360N	400N	450N	500	530	560	600	660	730	830	900	1000	1060	1130	
	d Ø nominal max.	mm	280	320	360	400	450	500	530	560	600	660	730	830	900	1000	1060	1130
	d Ø min.	mm	180	200	220	260	280	300	330	350	380	420	480	540	580	640	680	740
	* d Ø max.	mm	310	340	375	420	470	500	530	560	600	660	730	830	900	1000	1060	1130
	Tn	Nm	244000	290000	370000	450000	560000	630000	750000	860000	1020000	1290000	2020000	2450000	3070000	3610000	4390000	5040000
	1m Tp		488000	580000	740000	900000	1120000	1260000	1500000	1720000	2040000	2580000	4040000	4900000	6140000	7220000	8780000	10080000
	tr/min omw/min rpm min ⁻¹		1900	1800	1500	1400	1300	1150	1050	900	800	550	450	380	325	280	240	220
	degré graad degree Grad		2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75
	mm: ±		2	2,1	2,3	2,5	2,7	2,8	3	3,2	3,4	3,6	3,7	4	4,4	4,8	5,2	5,4
	J (WR ²)	kgm ²	20,1	31	45	68	105	164	228	313	430	685	1161	1756	2580	3690	5090	6730
	kg		591	760	932	1180	1532	1950	2330	2840	3370	4370	6110	7810	9730	11860	14220	16380
	dm ³		6,44	7,6	11	12	16	18	23	25	29	39	57	77	105	130	160	180
mm: ±	A	mm	570	597	623	673	713	759	809	859	905	945	1105	1205	1285	1365	1405	1425
	B	mm	591	640	684	742	804	908	965	1029	1092	1200	1330	1440	1545	1650	1750	1860
	C	mm	472	518	562	620	682	733	787	841	892	997	1130	1240	1345	1450	1550	1660
	D	mm	394	432	480	530	594	629	673	724	772	870	965	1062	1156	1254	1346	1448
	E	mm	280	292	305	330	350	370	395	420	440	460	540	590	630	670	690	700
	F	mm	225	234	251	269	283	301	318	333	361	375	408	448	483	528	538	548
	G	mm	10	13	13	13	13	19	19	19	25	25	25	25	25	25	25	25
	H	10 mm	632	660	705	745	770	825	870	900	990	1020	1130	1210	1290	1400	1420	1440
	M	mm	M 20	M 20	M 24	M 24	M 24	M 24	M 42	M 42	M 42	M 48	M 48	M 48	M 48	M 48	M 48	M 48
	P	mm	336	377	420	480	544	568	600	642	680	765	860	950	1040	1130	1230	1300
Q	mm	30	30	40	40	40	40	76	76	76	82	82	82	82	82	82	82	

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FFS 45 ⇨ 320



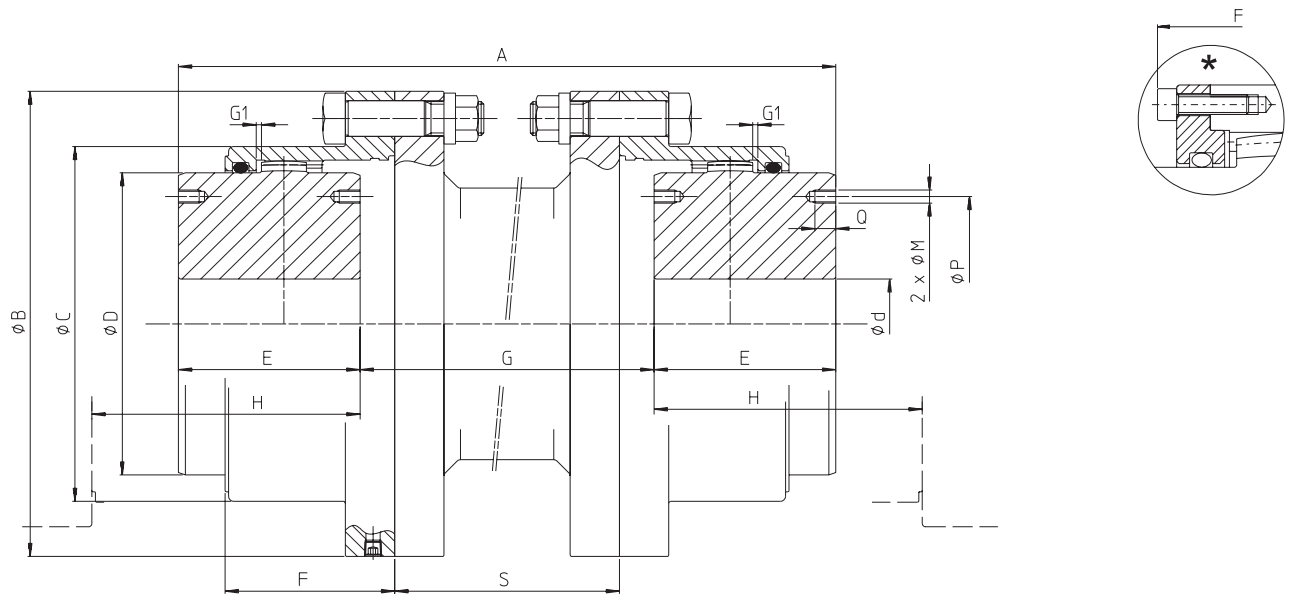
		Type FFS														
			45	60	75	95	110	130	155	175	195	215	240	275	* 280	* 320
	d Ø nominal max.	mm	45	60	75	95	110	130	155	175	195	215	240	275	280	320
	d Ø min.	mm	0	0	0	0	0	55	65	80	90	100	120	150	180	200
	* d Ø max.	mm	50	64	78	98	112	132	158	175	198	217	244	290	310	340
	Ø max.	mm	55	75	95	110	130	155	180	200	230	250	280	330	360	400
	Ø min.	mm	0	0	0	0	0	55	65	80	90	100	120	150	180	200
	Tn	Nm	1300	2800	5000	10000	16000	22000	32000	45000	62000	84000	115000	174000	244000	290000
	Tp	Nm	2600	5600	10000	20000	32000	44000	64000	90000	124000	168000	230000	348000	488000	580000
	min.max.	tr/min omw/min rpm min ⁻¹														
	α	degré graad degree Grad	0,75	0,75	0,75	0,75	0,75	0,75	0,75	0,75	0,75	0,75	0,75	0,75	0,75	0,75
	J (WR ²)	kgm ²	0,005	0,016	0,040	0,107	0,197	0,446	0,868	1,362	2,584	3,900	5,650	11,446	22,6	34,5
		kg	4,1	8,2	14,6	26,5	39,6	60,3	90,3	119,0	174,3	231,1	285,2	429,3	648	822
		dm ³	0,023	0,037	0,065	0,104	0,181	0,261	0,398	0,488	0,756	1,009	1,215	1,643	3,2	3,8
mm: ±	A	mm	88	102	125	156	183	212,5	239,5	272	308	358	390	453	573	598,5
	B	mm	111	141	171	210	234	274	312	337	380	405	444	506	591	640
	C	mm	80	103,5	129,5	156	181	209	247	273	307	338	368	426	472	518
	C1	mm	80	103,5	126	152	178	208	245	270	305	330	362	416		
	D	mm	67	87	106	130	151	178	213	235	263	286	316	372	394	432
	E	mm	43	50	62	76	90	105	120	135	150	175	190	220	280	292
	E1	mm	40	47	58	74	87	101	113	129	150	175	190	220	280	292
	F	mm	41	47	58,5	68,5	82	98	108,5	121	132	151,5	165	183,5	225	234
	F1	mm	43,5	50,5	61,5	77,5	90,5	104,5	116,5	133	154	179	196	228	288	300
	G	mm	5	5	5	6	6	6,5	6,5	8	8	8	10	13	13	14,5
	H	mm	117	133,5	167,5	202	238	279,5	312,5	353	396	460	504	572	606	637
	M	mm								M 12	M 16	M 16	M 16	M 20	M 20	M 20
	P	mm								205	226	250	276	330	336	377
	P1	mm								235	265	290	320	370	416	456
Q	mm								18	24	24	24	30	30	30	

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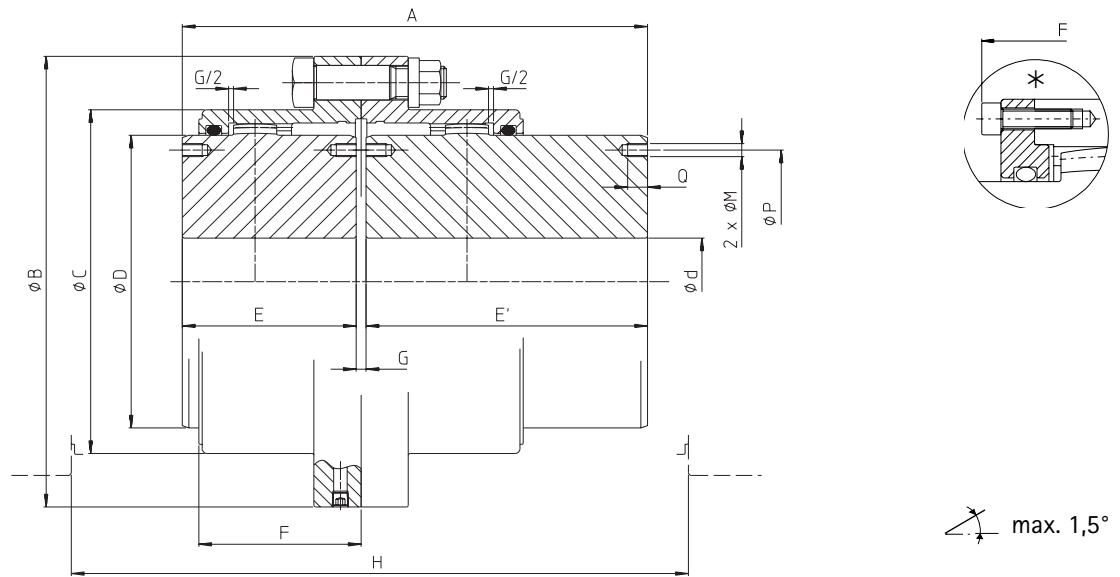
FSE 45 ⇨ 320



max. 1,5°

←A150			Type FSE														
			45	60	75	95	110	130	155	175	195	215	240	275	* 280	* 320	
 d Ø nominal max.	1	mm	45	60	75	95	110	130	155	175	195	215	240	275	280	320	
		 d Ø min.	mm	0	0	0	0	55	65	80	90	100	120	150	180	200	
		 * d Ø max.	mm	50	64	78	98	112	132	158	175	198	217	244	290	310	340
 1m Nm	Tn	Nm	1300	2800	5000	10000	16000	22000	32000	45000	62000	84000	115000	174000	244000	290000	
	Tp	Nm	2600	5600	10000	20000	32000	44000	64000	90000	124000	168000	230000	348000	488000	580000	
 /min.max.	3.3	tr/min omw/min rpm min ⁻¹															
 α	-	degré graad degree Grad	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	
 J (WR ²)	4.1	kgm ²															
	5.1	kg															
 Grease	6	dm ³	2x0,025	2x0,037	2x0,065	2x0,105	2x0,18	2x0,26	2x0,40	2x0,49	2x0,76	2x1,01	2x1,21	2x1,64	2x3,2	2x3,8	
min.	A	8	mm	167	195	245	291	323	380	412	450	516	580	624	676	780	827
	B		mm	111	141	171	210	234	274	312	337	380	405	444	506	591	640
	C		mm	80	103,5	129,5	156	181	209	247	273	307	338	368	426	472	518
	D		mm	67	87	106	130	151	178	213	235	263	286	316	372	394	432
	E		mm	43	50	62	76	90	105	120	135	150	175	190	220	280	292
	F		mm	41	47	58,5	68,5	82	98	108,5	121	132	151,5	165	183,5	225	234
	G	8	mm	81	95	121	139	143	170	172	180	216	230	244	236	226	243
	H	10	mm	63	76	91	110	131	155	175	195	214	246	266	306	305	320
mm: ±	M		mm							M 12	M 16	M 16	M 16	M 20	M 20	M 20	
	P		mm							205	226	250	276	330	336	377	
	Q		mm							18	24	24	24	30	30	30	
	S	8	mm	60	80	90	110	110	130	130	130	160	160	160	160	176	190
min	G1		mm	1,5	1,5	1,5	2,5	2,5	3	3	4	4	4	4	5	5	6,5

* Consult us



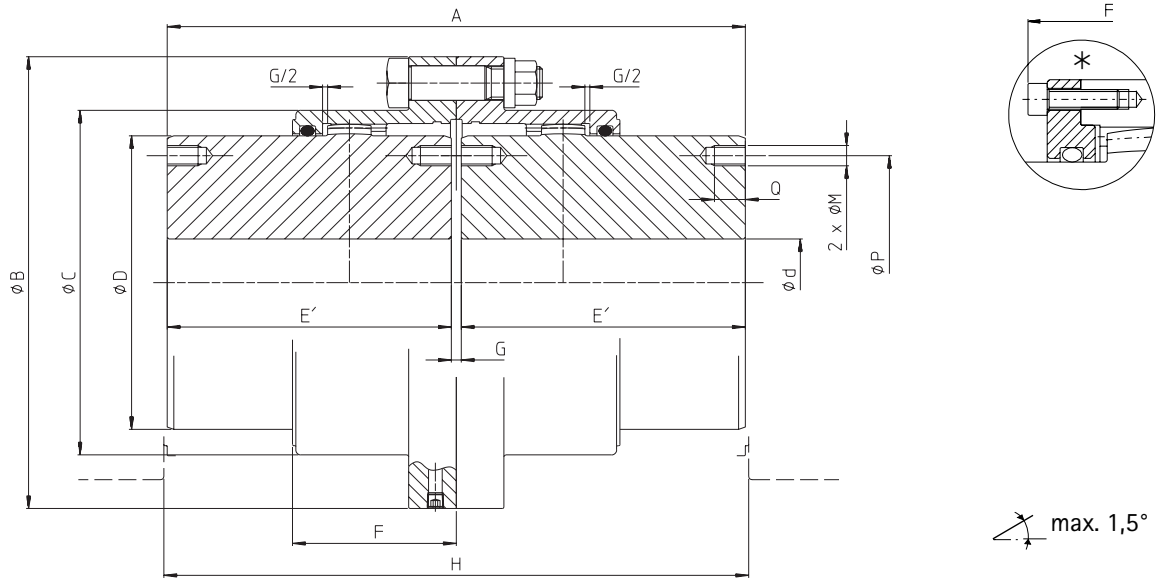
← A150		Type FMM															
		45	60	75	95	110	130	155	175	195	215	240	275	* 280	* 320		
	d Ø nominal max.	mm	45	60	75	95	110	130	155	175	195	215	240	275	280	320	
	d Ø min.	mm	0	0	0	0	0	55	65	80	90	100	120	150	180	200	
	* d Ø max.	mm	50	64	78	98	112	132	158	175	198	217	244	290	310	340	
	Tn	Nm	1300	2800	5000	10000	16000	22000	32000	45000	62000	84000	115000	174000	244000	290000	
	1m Tp		2600	5600	10000	20000	32000	44000	64000	90000	124000	168000	230000	348000	488000	580000	
	3.1	tr/min omw/min rpm min ⁻¹	5000	4400	4000	3600	3350	3100	2800	2700	2550	2450	2300	2150	1900	1800	
	3.2		7000	6200	5650	5100	4700	4350	4000	3800	3600	3450	3300	3050	2950	2800	
	—	degré graad degree Grad	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	
	—	mm: ±	0,35	0,4	0,5	0,6	0,7	0,9	1	1,1	1,2	1,4	1,5	1,7	2	2,1	
	4	kgm ²	0,005	0,018	0,047	0,121	0,221	0,480	0,953	1,47	2,71	4,10	6,07	12,79	22,4	35,6	
	5	kg	5,1	11,0	19,3	33,4	49,3	70,7	107	137	193	256	322	506	689	920	
	6	dm ³	0,05	0,07	0,13	0,21	0,36	0,52	0,80	0,98	1,51	2,02	2,43	3,29	6,44	7,6	
mm: ±	A	mm	126	167	195	227	260	281	316	343	378	433	478	580	700	775	
	B	mm	111	141	171	210	234	274	312	337	380	405	444	506	591	640	
	C	mm	80	103,5	129,5	156	181	209	247	273	307	338	368	426	472	518	
	D	mm	67	87	106	130	151	178	213	235	263	286	316	372	394	432	
	E	mm	43	50	62	76	90	105	120	135	150	175	190	220	280	292	
	E'	mm	80	114	130	146	165	170	190	200	220	250	280	350	410	470	
	F	mm	41	47	58,5	68,5	82	98	108,5	121	132	151,5	165	183,5	225	234	
	G	mm	3	3	3	5	5	6	6	8	8	8	8	10	10	13	
	H	10	mm	157	200	239	276	318	351	392	440	484	562	616	704	765	805
	M	mm									M 12	M 16	M 16	M 16	M 20	M 20	M 20
	P	mm									205	226	250	276	330	336	377
Q	mm									18	24	24	24	30	30	30	

* Consult us



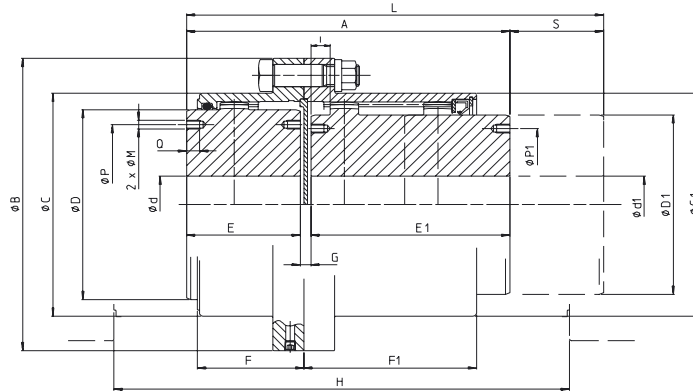
escogear

FDMM 45 ⇨ 320



← A150			Type FDMM														
			45	60	75	95	110	130	155	175	195	215	240	275	* 280	* 320	
 d Ø nominal max.	1	mm	45	60	75	95	110	130	155	175	195	215	240	275	280	320	
		d Ø min.	mm	0	0	0	0	0	55	65	80	90	100	120	150	180	200
		* d Ø max.	mm	50	64	78	98	112	132	158	175	198	217	244	290	310	340
 Tn	2	Nm	1300	2800	5000	10000	16000	22000	32000	45000	62000	84000	115000	174000	244000	290000	
			 Tp	2600	5600	10000	20000	32000	44000	64000	90000	124000	168000	230000	348000	488000	580000
 min.max.	3.1	tr/min omw/min	5000	4400	4000	3600	3350	3100	2800	2700	2550	2450	2300	2150	1900	1800	
	3.2	rpm min ⁻¹	7000	6200	5650	5100	4700	4350	4000	3800	3600	3450	3300	3050	2950	2800	
 α	—	degré graad degree Grad	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	
 mm: ±	—	mm: ±	0,35	0,4	0,5	0,6	0,7	0,9	1	1,1	1,2	1,4	1,5	1,7	2	2,1	
 J (WR ²)	4	kgm ²	0,006	0,021	0,053	0,136	0,251	0,530	1,06	1,62	2,96	4,49	6,76	14,70	24,7	40,2	
 kg	5	kg	6,1	14,0	24,0	40,7	59,9	82,1	125	157	220	289	370	599	787	1080	
 Grease	6	dm ³	0,05	0,07	0,13	0,21	0,36	0,52	0,80	0,98	1,51	2,02	2,43	3,29	6,44	7,6	
mm: ±	A	mm	163	231	263	297	335	346	386	408	448	508	568	710	830	953	
	B	mm	111	141	171	210	234	274	312	337	380	405	444	506	591	640	
	C	mm	80	103,5	129,5	156	181	209	247	273	307	338	368	426	472	518	
	D	mm	67	87	106	130	151	178	213	235	263	286	316	372	394	432	
	E'	mm	80	114	130	146	165	170	190	200	220	250	280	350	410	470	
	F	mm	41	47	58,5	68,5	82	98	108,5	121	132	151,5	165	183,5	225	234	
	G	mm	3	3	3	5	5	6	6	8	8	8	8	10	10	13	
	H	10	mm	163	231	263	297	335	350	392	440	484	562	616	710	895	935
	M	mm								M 12	M 16	M 16	M 16	M 20	M 20	M 20	
	P	mm								205	226	250	276	330	336	377	
Q	mm								18	24	24	24	30	30	30		

* Consult us



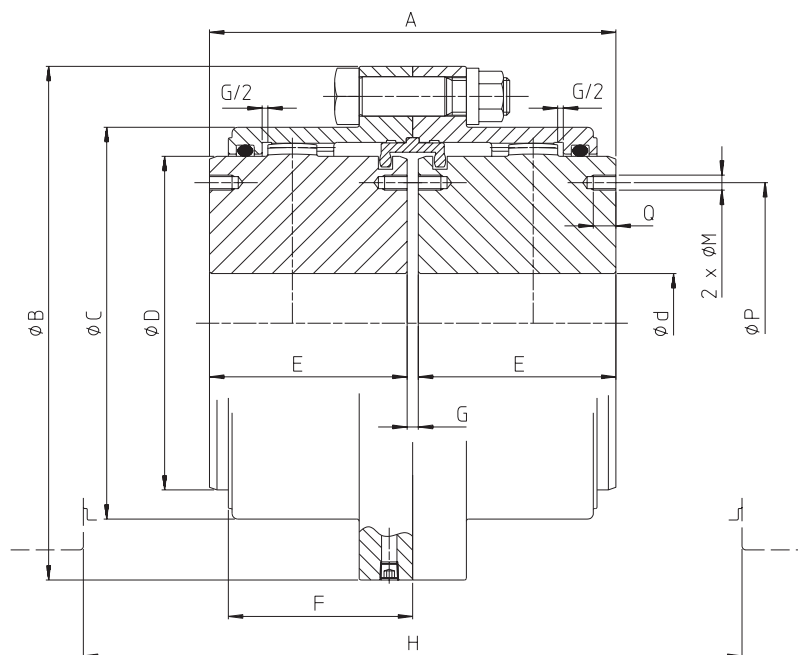
← A150			Type FSH									
			60	75	95	110	130	155	175	195	215	
	d Ø nominal max.	mm	60	75	95	110	130	155	175	195	215	
	d Ø min.	mm	0	0	0	0	55	65	80	90	100	
	* d Ø max	mm	64	78	98	112	132	158	175	198	217	
	d1 Ø max.	mm	0	0	0	0	55	65	80	90	100	
	Ø min.	mm	55	70	85	100	120	140	170	190	210	
	Tn	Nm	2800	5000	10000	16000	22000	32000	45000	62000	84000	
	1m Tp		5600	10000	20000	32000	44000	64000	90000	124000	168000	
	3.3	tr/min omw/min rpm min ⁻¹										
	4.1	degré graad degree Grad										
	4.1	J (WR ²)										
	5.1	kg										
	6.1	dm ³										
max.	A	6.1	mm	193	210	231	250	276	291	319	344	381
	B		mm	141	171	210	234	274	312	337	380	405
	C		mm	103,5	129,5	156	181	209	247	273	307	338
	C1		mm	108	129,5	156	181	209	247	270	305	330
	D		mm	87	106	130	151	178	213	235	263	286
	D1		mm	78	98	115	140	165	195	230	260	280
	E		mm	50	62	76	90	105	120	135	150	175
	E1	6.1	mm	135	140	145	150	160	160	170	180	190
	F		mm	47	58,5	68,5	82	98	108,5	121	132	151,5
	F1	6.1	mm	138	139	144	157	159	162	168	168	179
min.	G	min	mm	8	8	10	10	11	11	14	14	16
max.	H	10	mm	247	276	300	330	370	385	425	460	510
	I		mm	10	10	10	10	10	10	15	15	15
max.	L	6.1	mm	278	290	311	340	361	371	394	414	451
	M		mm							M12	M 12	M 16
	P		mm							205	226	250
	P1		mm							200	225	245
	Q		mm							18	18	24
max.	S	7	mm	85	80	80	90	85	80	75	70	70

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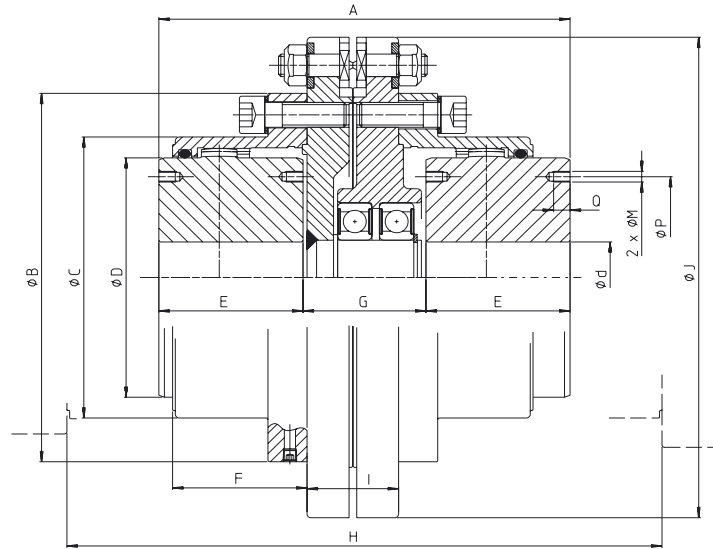
FLE 45 ⇨ 275



max.
NOUS CONSULTER
ONS RAADPLEGEN
REFER TO FACTORY
AUF ANFRAGE

			Type FLE												
			45	60	75	95	110	130	155	175	195	215	240	275	
 	1	mm	45	60	75	95	110	130	155	175	195	215	240	275	
		mm	0	0	0	0	0	55	65	80	90	100	120	150	
		mm	50	64	78	98	112	132	158	175	198	217	244	290	
	2	Tn	1300	2800	5000	10000	16000	22000	32000	45000	62000	84000	115000	174000	
		Tp	2600	5600	10000	20000	32000	44000	64000	90000	124000	168000	230000	348000	
	3.1	tr/min	5000	4400	4000	3600	3350	3100	2800	2700	25550	2450	2300	2150	
		rpm	7000	6200	5650	5100	4700	4350	4000	3800	3600	3450	3300	3050	
	4	kgm²	0,005	0,015	0,040	0,105	0,191	0,430	0,842	1,32	2,45	3,72	5,38	10,87	
		kg	4,1	8,0	14,6	26,1	38,8	59,2	89,4	118	167	222	275	414	
	6	dm³	2x0,025	2x0,037	2x0,065	2x0,105	2x0,18	2x0,26	2x0,40	2x0,49	2x0,76	2x1,01	2x1,21	2x1,64	
		mm: ±	A	89	103	127	157	185	216	246	278	308	358	388	450
		B	117	141	171	210	234	274	312	337	380	405	444	506	
		C	80	103,5	129,5	156	181	209	247	273	307	338	368	426	
		D	67	87	106	130	151	178	213	235	263	286	316	372	
		E	43	50	62	76	90	105	120	135	150	175	190	220	
		F	41	47	58,5	68,5	82	98	108,5	121	132	151,5	165	183,5	
		G	3	3	3	5	5	6	6	8	8	8	8	10	
		H	10	147	166	212	249	295	350	392	440	484	562	616	688
		M								M 12	M 16	M 16	M 16	M 20	
		P								205	226	250	276	330	
		Q								18	24	24	24	30	

* Consult us



max. 1,5°

←A150			Type FSP												
			45	60	75	95	110	130	155	175	195	215	240	275	
	d Ø nominal max.	mm	45	60	75	95	110	130	155	175	195	215	240	275	
	d Ø min.	mm	0	0	0	0	0	55	65	80	90	100	120	150	
	*d Ø max.	mm	50	64	78	98	112	132	158	175	198	217	244	290	
	Tn	Nm	750	1800	3500	7000	11000	15500	22000	31500	43500	55000	81000	122500	
	1m Tp		1500	3600	7000	14000	22000	31000	44000	63000	87000	110000	162000	245000	
	/min.max.	tr/min omw/min rpm min ⁻¹	4000	3600	3300	2950	2550	2150	2000	1800	1650	1450	1400	1350	
	α	degré graad degree Grad	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	
		mm: ±	0,6	0,7	0,8	0,9	1	1,2	1,3	1,4	1,5	1,9	2,0	2,3	
	J (WR ²)	kgm ²	0,019	0,055	0,098	0,272	0,448	1,01	1,75	2,77	4,61	6,82	9,68	18,4	
		kg	8,5	16,9	26,5	45,1	62,5	99,5	139	183	247	316	395	579	
	Grease	dm ³	2x0,025	2x0,037	2x0,065	2x0,105	2x0,18	2x0,26	2x0,40	2x0,49	2x0,76	2x1,01	2x1,21	2x1,64	
mm: ±	A	mm	131	153	185	217	247	293	324	363	396	467	504	579	
	B	mm	111	141	171	210	234	274	312	337	380	405	444	506	
	C	mm	80	103,5	129,5	156	181	209	247	273	307	338	368	426	
	D	mm	67	87	106	130	151	178	213	235	263	286	316	372	
	E	mm	43	50	62	76	90	105	120	135	150	175	190	220	
	F	mm	41	47	58,5	68,5	82	98	108,5	121	132	151,5	165	183,5	
	G	9	mm	45	53	61	65	67	83	84	93	96	117	124	139
	H	10	mm	189	216	270	309	357	427	470	525	572	671	732	817
	I	mm	33	44	44	48	48	60	60	64	64	78	78	96	
	J	mm	155	194	228	267	300	358	384	428	470	524	560	656	
	M	mm									M 12	M 16	M 16	M 16	M 20
	P	mm									205	226	250	276	330
Q	mm									18	24	24	24	30	

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FSV 45 ⇨ 275

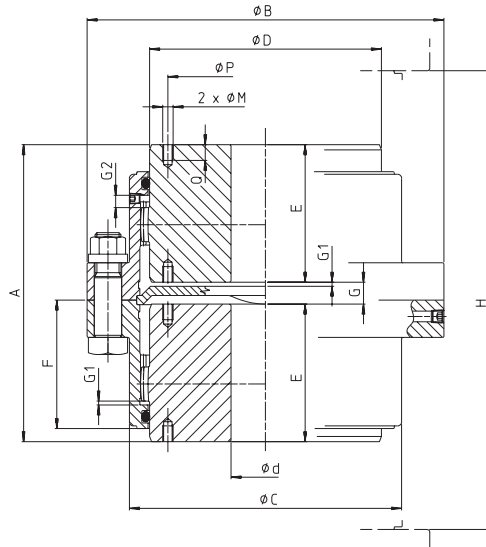


Riddhi Engineering Company

www.couplings-mounts.com

sales@riddhiengineeringco.com

+91 74900 32784

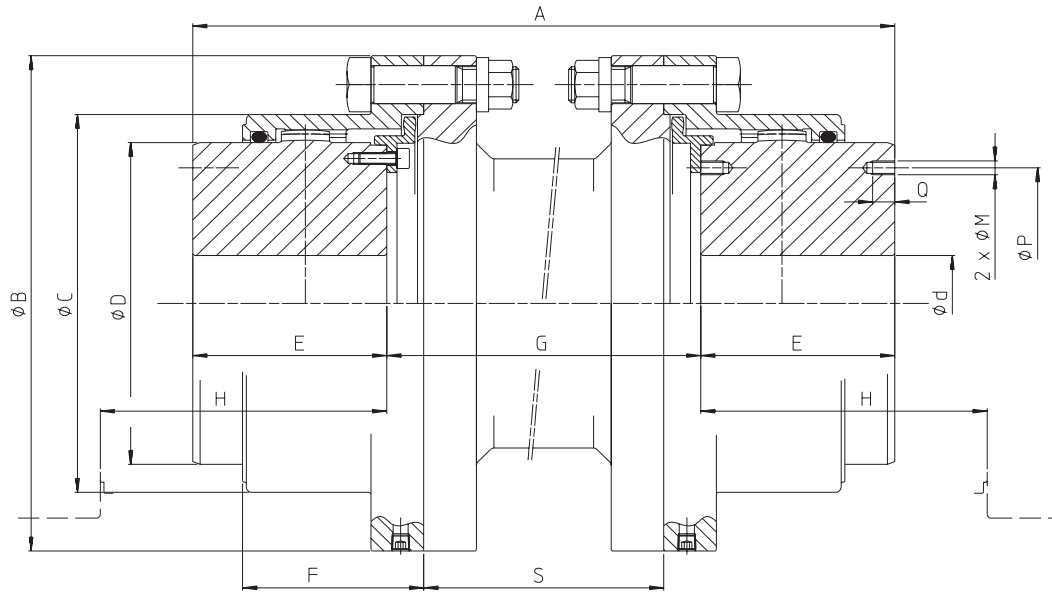


max. 1,5°

La cote G ne peut varier en cours de fonctionnement
 Maat G mag niet gewijzigd worden bij werking
 Distance G may not vary during operation
 Das Maß "G" muß während des Betriebs konstant bleiben

← A150		Type FSV												
		45	60	75	95	110	130	155	175	195	215	240	275	
	d Ø nominal max.	mm	45	60	75	95	110	130	155	175	195	215	240	275
	d Ø min.	mm	0	0	0	0	0	55	65	80	90	100	120	150
	* d Ø max.	mm	50	64	78	98	112	132	158	175	198	217	244	290
	Tn	Nm	1300	2800	5000	10000	16000	22000	32000	45000	62000	84000	115000	174000
	Tp		2600	5600	10000	20000	32000	44000	64000	90000	124000	168000	230000	348000
	tr/min omw/min rpm min ⁻¹		5000	4400	4000	3600	3350	3100	2800	2700	2550	2450	2300	2150
	degré graad degree Grad		2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,5	2x0,5	2x0,5
	mm: ±		0,35	0,4	0,5	0,6	0,7	0,9	1	1,1	1,2	0,9	1	1,1
	J (WR ²)	kgm ²	0,005	0,015	0,040	0,105	0,191	0,430	0,842	1,32	2,45	3,72	5,38	10,9
	kg		4,1	8,0	14,6	26,1	38,8	59,2	89,4	118	167	222	275	414
	dm ³		2x0,021	2x0,037	2x0,057	2x0,104	2x0,164	2x0,254	2x0,387	2x0,514	2x0,741	2x0,940	2x1,12	2x1,69
mm: ±	A	mm	94	105	136,5	163	193	224	255	287	320	377	414	468
	B	mm	111	141	171	210	234	274	312	337	380	405	444	506
	C	mm	80	103,5	129,5	156	181	209	247	273	307	338	368	426
	D	mm	67	87	106	130	151	178	213	235	263	286	316	372
	E	mm	43	50	62	76	90	105	120	135	150	175	190	220
	F	mm	41	47	58,5	68,5	82	98	108,5	121	132	151,5	165	183,5
	G	mm	8	5	12,5	11	13	14	15	17	20	27	34	28
	G1	mm	1,5	1,5	1,5	2,5	2,5	3	3	4	4	4	4	5
	G2	mm	5,5	5,5	6	8,5	8,5	12	12	16	16	16	16	20
	H	mm	147	166	212	249	295	350	392	440	484	562	616	688
	M	mm								M 12	M 16	M 16	M 16	M 20
P	mm								205	226	250	276	330	
Q	mm								18	24	24	24	30	

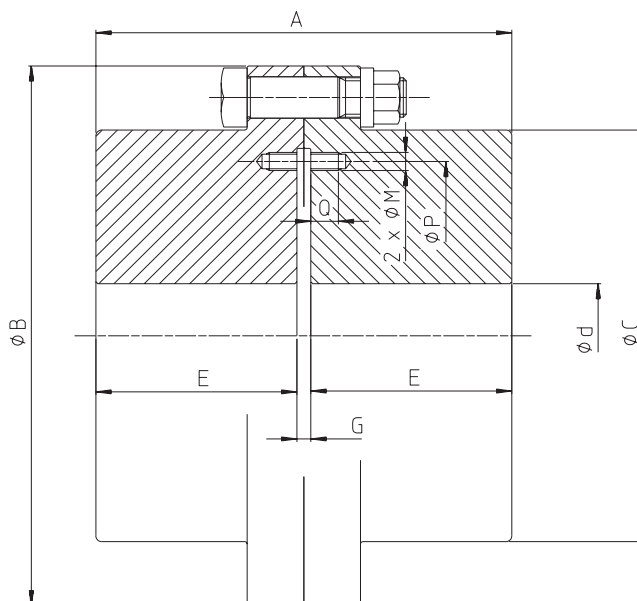
* Consult us



max.
NOUS CONSULTER
ONS RAADPLEGEN
REFER TO FACTORY
AUF ANFRAGE

← A150			Type FSLE											
			45	60	75	95	110	130	155	175	195	215	240	275
d Ø nominal max. d Ø min. * d Ø max	1	mm	45	60	75	95	110	130	155	175	195	215	240	275
		mm	0	0	0	0	0	55	65	80	90	100	120	150
		mm	50	64	78	98	112	132	158	175	198	217	244	290
1m Nm Tn Tp	2	Nm	1300	2800	5000	10000	16000	22000	32000	45000	62000	84000	115000	174000
			2600	5600	10000	20000	32000	44000	64000	90000	124000	168000	230000	348000
/min.max.	3.3	tr/min omw/min rpm min ⁻¹												
J (WR ²)	4.1	kgm ²												
	5.1	kg												
Grease	6	dm ³	2x0,025	2x0,037	2x0,065	2x0,105	2x0,18	2x0,26	2x0,40	2x0,49	2x0,76	2x1,01	2x1,21	2x1,64
mini mm: ± mini mini	A	mm	167	195	245	291	323	380	412	450	516	580	624	676
	B	mm	111	141	171	210	234	274	312	337	380	405	444	506
	C	mm	80	103,5	129,5	156	181	209	247	273	307	338	368	426
	D	mm	67	87	106	130	151	178	213	235	263	286	316	372
	E	mm	43	50	62	76	90	105	120	135	150	175	190	220
	F	mm	41	47	58,5	68,5	82	98	108,5	121	132	151,5	165	183,5
	G	8 mm	81	95	121	139	143	170	172	180	216	230	244	236
	G1	mm	1,5	1,5	1,5	2,5	2,5	3	3	4	4	4	4	5
	H	10 mm	63	76	91	110	131	155	175	195	214	246	266	306
	M	mm								M 12	M 16	M 16	M 16	M 20
	P	mm								205	226	250	276	330
	Q	mm								18	24	24	24	30
	S	8 mm	60	80	90	110	110	130	130	130	10	160	160	160

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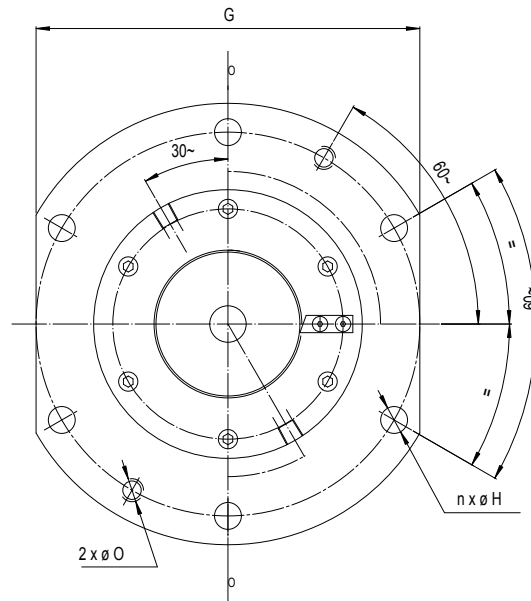
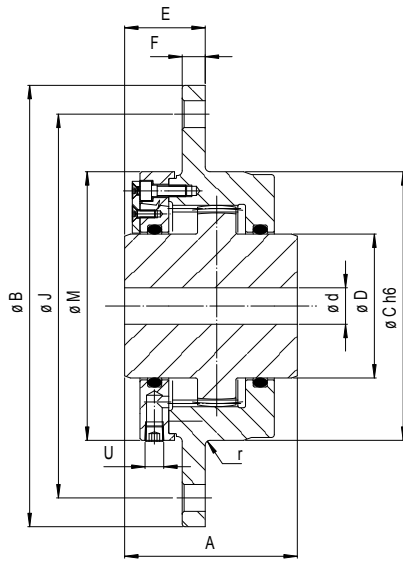


←A150			Type FRR												
			45	60	75	95	110	130	155	175	195	215	240	275	
 $\frac{d \text{ } \varnothing \text{ max.}}{d \text{ } \varnothing \text{ min.}}$	1	mm	55	75	95	110	130	155	180	200	230	250	280	330	
		mm	0	0	0	0	0	55	65	80	90	100	120	150	
 $\frac{M}{1m}$	2	Tn	1300	2800	5000	10000	16000	22000	32000	45000	62000	84000	115000	174000	
		TP	2600	5600	10000	20000	32000	44000	64000	90000	124000	168000	230000	348000	
 $\frac{tr}{min}$ / min.max.	3.3	tr/min omw/min rpm min ⁻¹	6000	5500	5000	4400	4000	3500	3000	2700	2500	2200	2100	2000	
 $\frac{J}{(WR^2)}$	4	kgm ²	0,005	0,017	0,041	0,109	0,203	0,459	0,9	1,4	2,7	4,1	6,0	12,0	
	5.1	kg	4,4	8,4	14,6	26,9	40,4	62,2	92,1	123	185	244	308	461	
mini mm: ±	A	mm	87	101	123	155	181	209	233	266	308	358	392	456	
	B	mm	111	141	171	210	234	274	312	337	380	405	444	506	
	C	mm	80	103,5	126	152	178	208	245	270	305	330	362	416	
	E	mm	40	47	58	74	87	101	113	129	150	175	190	220	
	G	mm	7	7	7	7	7	7	7	8	8	8	12	16	
	M	mm									M 12	M 16	M 16	M 16	M 20
	P	mm									235	265	290	320	370
Q	mm									18	24	24	24	30	



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FWD 150 ⇌ 420



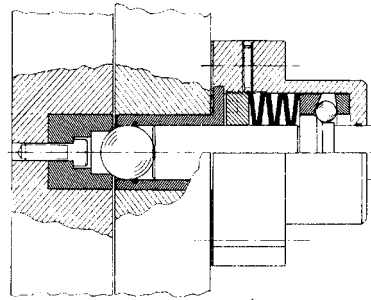
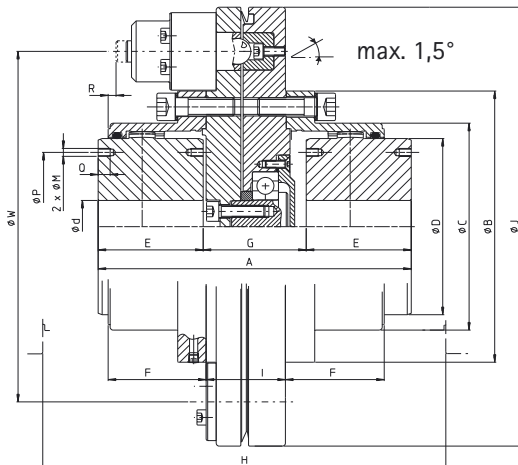
←A150	ESCO	150	170	220	250	280	300	320	380	420	
	SEB	SG130	SG140	SG185	SG200	SG240	SG270	SG315	SG355	SG400	
$\frac{\varnothing \text{ max.}}{\varnothing \text{ min.}}$	1	mm	150	170	220	250	280	300	320	380	420
		mm	65	80	120	150	180	190	200	220	260
$\frac{Nm}{1m}$	2	Tn	37	62	130	160	310	385	500	660	800
		Tp	74	124	260	320	620	770	1000	1320	1600
RADIAL LOAD	—	kN	88	112	188	221	314	343	399	499	587
ΔK_w	—	degré grad degree Grad	0,75	0,75	0,75	0,75	0,75	0,75	0,75	0,75	0,75
ΔK_a	—	mm: ±	7	8	8	8	8	8	10	10	10
$\frac{J}{(WR^2)}$	4	kgm ²	0,78	1,69	4,7	6,4	13,6	18,1	25,2	42,2	62
	5	kg	69	105	198	235	370	460	560	760	940
	6	dm ³	0,20	0,39	0,54	0,59	0,91	1,17	1,83	1,98	2,41
mm: ±	A	mm	170	185	240	260	315	350	380	410	450
	B	mm	400	450	550	580	650	680	710	780	850
	C	mm	280	340	420	450	530	560	600	670	730
	D	mm	220	240	320	350	410	440	470	536	580
	E	mm	45	60	60	60	65	65	81	81	81
	F	mm	15	20	20	20	25	25	35	35	35
	G	mm	360	400	500	530	580	600	640	700	760
	H	mm	19	24	24	24	24	24	28	28	28
	J	mm	360	400	500	530	600	630	660	730	800
	M	mm	279	339	419	449	529	559	599	669	729
	O	mm	M 16	M 20	M 20	M 20	M 20	M 20	M 20	M 20	M 20
	n	—	10	10	10	14	14	26	26	26	26
	r	mm	2,5	2,5	2,5	2,5	2,5	4	4	4	4
	u	R"	1/8	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4



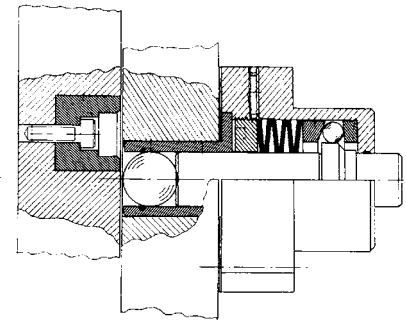
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FET 60 ⇨ 275

TORQUE CONTROL DEVICES



engagé - eingeschaltet - engaged



désengagé - ausgeschaltet - disengaged

← A150			Type FET											
			60/1	75/1	95/2	110/2	130/3	155/3	175/4	195/4	215/5	240/5	275/6	
	d Ø nominal max.	mm	60	75	95	110	130	155	175	195	215	240	275	
	d Ø min.	mm	0	0	0	0	55	65	80	90	100	120	150	
	* d Ø max.	mm	64	78	98	112	132	158	175	198	217	244	290	
	Tn	Nm	2800	5000	10000	16000	22000	32000	45000	62000	84000	115000	174000	
	TR	min.	1010	1010	1930	1930	7140	7140	11320	11320	34900	34900	57600	
		max.	5600	8180	15600	15600	44000	57200	90000	90750	168000	230000	348000	
	3	tr/min omw/min rpm min ⁻¹	3600	3300	2950	2550	2150	2000	1800	1650	1450	1400	1350	
	—	degré graad degree Grad	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	
	—	mm: ±	0,7	0,8	1	1,1	1,4	1,5	1,7	1,8	2,2	2,3	2,7	
	4	kgm ²	0,271	0,323	0,733	0,862	3,84	4,59	7,83	9,28	26,4	31,6	58,9	
	5	kg	33,1	41,6	67,9	82,5	184	222	290	345	587	681	1017	
	6	dm ³	2x0,037	2x0,065	2x0,105	2x0,18	2x0,26	2x0,40	2x0,49	2x0,76	2x1,01	2x1,21	2x1,64	
mm: ±	A	mm	161	193	228	258	325	356	391	424	512	549	630	
	B	mm	141	171	210	234	274	312	337	380	405	444	506	
	C	mm	103,5	129,5	156	181	209	247	273	307	338	368	426	
	D	mm	87	106	130	151	178	213	235	263	286	316	372	
	E	mm	50	62	76	90	105	120	135	150	175	190	220	
	F	mm	47	58,5	68,5	82	98	108,5	121	132	151,5	165	183,5	
	G	mm	61	69	76	78	115	116	121	124	162	169	190	
	H	mm	224	278	320	368	459	502	553	600	716	777	868	
	I	mm	52	52	59	89	92	92	92	92	123	123	147	
	J	mm	288	288	350	350	464	464	538	538	706	706	844	
	M	mm							M 12	M 16	M 16	M 16	M 20	
	P	mm							205	226	250	276	330	
	Q	mm							18	24	24	24	30	
	R	mm		- 9,5	1	16	28,5	13	20,5	35	45	12,5	37	80,5
	W	mm		230	230	292	292	390	390	464	464	582	582	720

* Consult us