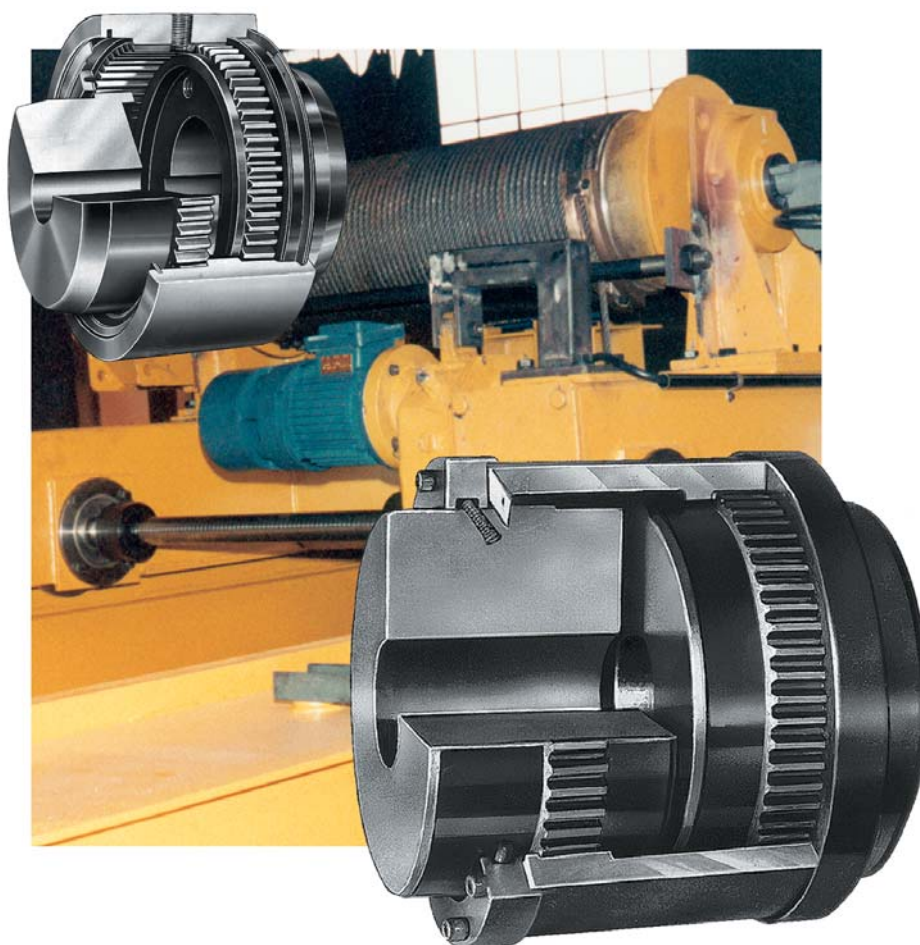




CST - CST...M



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On the Industrial World Market, there are many different kinds of couplings for rotating equipment available.

These couplings can be divided into two major categories: the lubricated and the non lubricated types; Gear type couplings, which are of course of the lubricated type, are still dominating the Industrial market.

The reasons why gear type couplings still have a leading market position are directly related to the specific requirement of the various rotating machines in the medium to heavy industries such as the steel, pulp & paper and the cement industry.

Following these requirement, a coupling must:

PRESENT: the lowest torque/weight ratio the highest available torque/max. bore ratio.

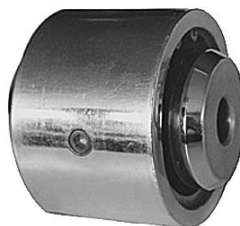
ALLOW: the combination of important angular, radial and axial misalignment, at the same time.

BE ABLE: to rotate at high rotating speeds, without vibrations. to accept the largest possible assembly options to suit the design of the driver and the driven machine.

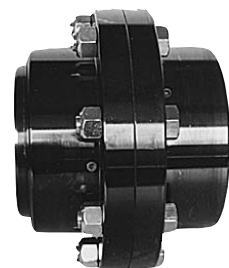
In this case, a gear type coupling is the ideal solution.



Series NST
Torque: up to 2000 Nm
Bore: up to 65 mm



Series CST / ...M
Torque: up to 174000 Nm
Bore: up to 290 mm



Series FST
Torque: up to 5040000 Nm
Bore: up to 1130 mm

Why Escogear ?

High Torque and Misalignment capacity

Thanks to the patented escogear **Multicrown** profile (used on the C and F series), the optimised coupling design and the standard use of 12.9 quality bolts, the Escogear couplings offer the user a **very high torque capacity**.

This means that for a given torque a smaller coupling can be used which results in more efficient machine design and performance. Furthermore, this high torque is available at **important angular misalignment**.

Transparent coupling selection

The torque capacity of a gear type coupling strongly depends on the angular misalignment to which it is subjected: the higher the misalignment, the lower the torque capacity. It is clear that this relationship can and will cause problems in coupling selection because misalignment during operation is almost impossible to predict. Escogear couplings of the F and C...M type are equipped with Esco **Multicrown tooth form**. Thanks to this quite unique design, the escogear has a torque capacity that is practically independent of the angular misalignment. Therefore, coupling selection is **easy** and mistakes are avoided : long coupling life is guaranteed.

High precision Gearing

Pitch error in the gearing of coupling can strongly affect, the load distribution between the teeth can be strongly influenced. In some cases, the maximum load applied on the teeth can be twice the value of the load calculated. The consequence will be higher surface and root stresses and coupling failure might be the result. Thanks to the high precision manufacturing process and equipment on which all escogear couplings are manufactured, and the sophisticated quality control, pitch error is minimized and the best possible gear quality level and life time can be guaranteed.

Reduced backlash

One of the consequences of the **Multicrown** design is that the necessary backlash between the teeth can be reduced to an absolute minimum. This will reduce the impact loads in start/stop and reversing torque applications. As a result, the teeth can be designed with a larger section and the root stresses will be reduced. Thanks to this feature the escogear couplings are ideal for use in presses, mills, punching machines, portal cranes etc...

Perfect gear top centring

Gear type couplings require, in order to operate, a "clearance" between the top of each hub tooth and the root of the sleeve teeth. Due to this clearance, the sleeve cannot be perfectly centred on the hubs. This will create vibrations in applications where the load constantly changes from no load to full load (e.g. portal cranes). These vibrations will of course influence the operation of the connected equipment. Thanks to special design and machining techniques, Esco is able to pilot the top of each hub tooth into the root of the sleeve teeth. By doing so, the sleeve will remain perfectly centred on the hub and vibrations will be avoided. This specific feature is standard on all F and C...M couplings.

Excellent protection of components

In order to guarantee optimum operation, all escogear couplings are protected with special surface treatment or coating. All bolts are coated with Dacromet and the nuts are zinc plated which gives an excellent corrosion resistance and makes disassembly possible, even after numerous years of service life. Furthermore, all the steel components are protected with a special coating to improve their corrosion resistance.

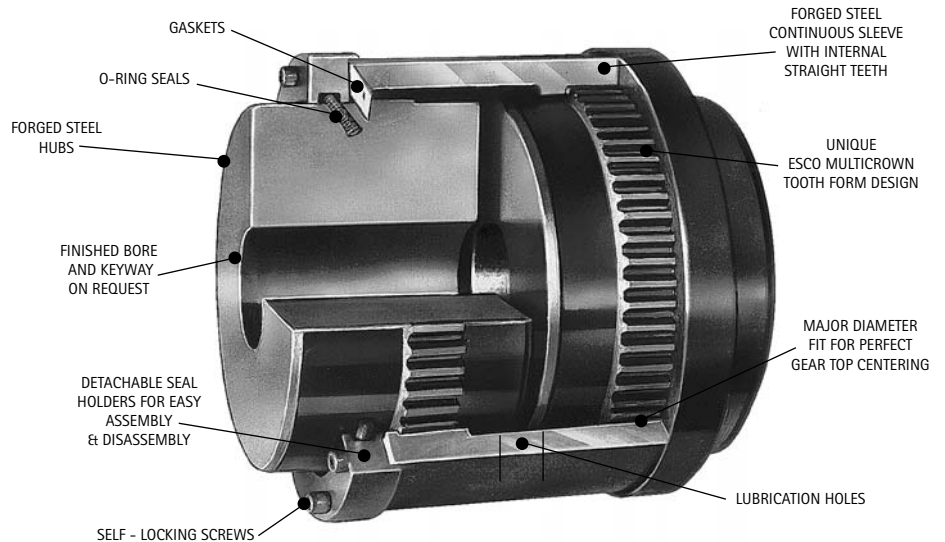


SERIES C and C... M

The most compact solution

Maximum torque: up to 174 000 Nm
Bores: up to 290 mm

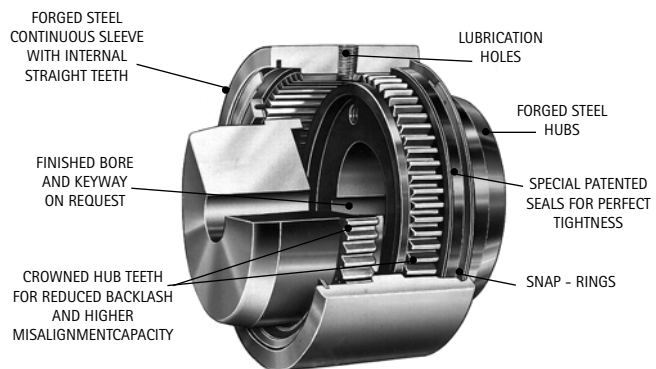
COMPACT
SIMPLE AND ROBUST
EASY TO ASSEMBLE



Maximum torque: up to 8 500 Nm
Bores: up to 110 mm

COMPACT
SIMPLE AND ROBUST
ONLY 7 PARTS:

*Two snap rings
Two hubs and one sleeve
Two seals*

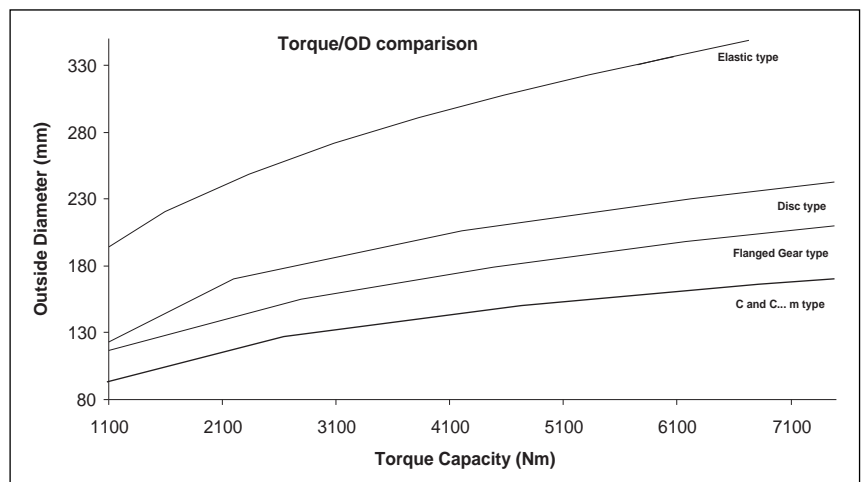


Most compact solution


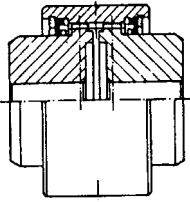

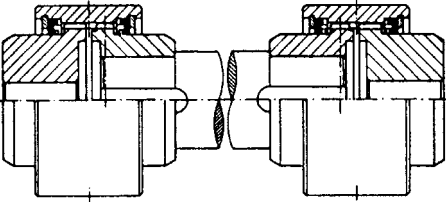

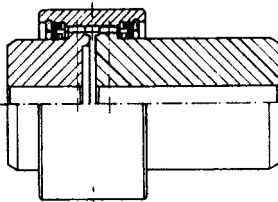

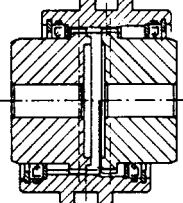

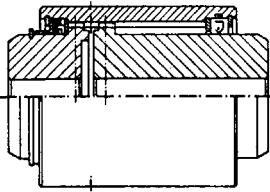

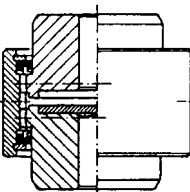
Thanks to the high torque capacity and the continuous sleeve design, the escogear C and C... M couplings are the most compact answer to any transmission applications. In comparison to other types of couplings and for a given torque they have a substantially lower weight and reduced outside diameter:


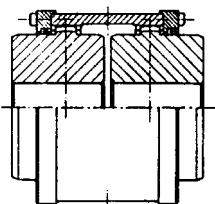

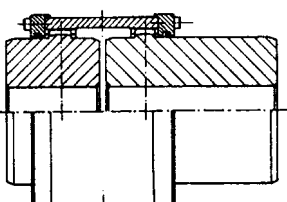

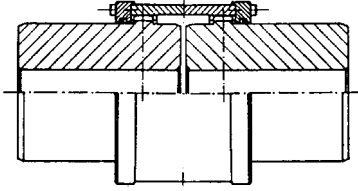

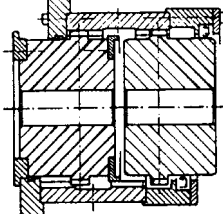

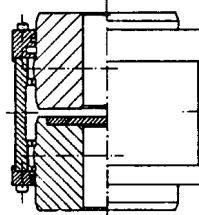
- <-> Flanged Gear type : 17% smaller O.D.
- <-> Disc type : 30% smaller O.D.
- <-> Elastic type : 52% smaller O.D.

This compactness makes the escogear C series ideal for use in applications where space is limited and weight important



AVAILABILITIES

CST	 ← A310	STANDARD
		
CFS - CFS... M	 ← A311	FLOATING SHAFT
		
CMM	 ← A312	MILL MOTOR
		
CCO	 ← A314	CUT-OUT
		
CSH	 ← A315	SLIDING HUB
		
CSV	 ← A316	STANDARD VERTICAL
		

CST... M	 ← B310	STANDARD
		
CMM... M	 ← B312	MILL MOTOR
		
CDMM... M	 ← B313	MILL-MOTOR
		
CCO... M	 ← B314	CUT-OUT
		
CSV... M	 ← B316	STANDARD VERTICAL
		

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: $\text{torque in Nm} = \frac{9550 \times P \times F_u \times F_{\text{ex}}}{n}$

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

$F_{\text{ex}} = 2$ in case of use in potentially explosive atmospheres (Ex), European Directive 94/9/EC. In normal atmospheres, $F_{\text{ex}} = 1$.











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 T_p indicated planographs A310 to B317.

Check also max. allowable misalignment using the graph of tabulations 2 and 3.

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

D. Read carefully assembly and maintenance instructions IM/A300 and IM/B300.

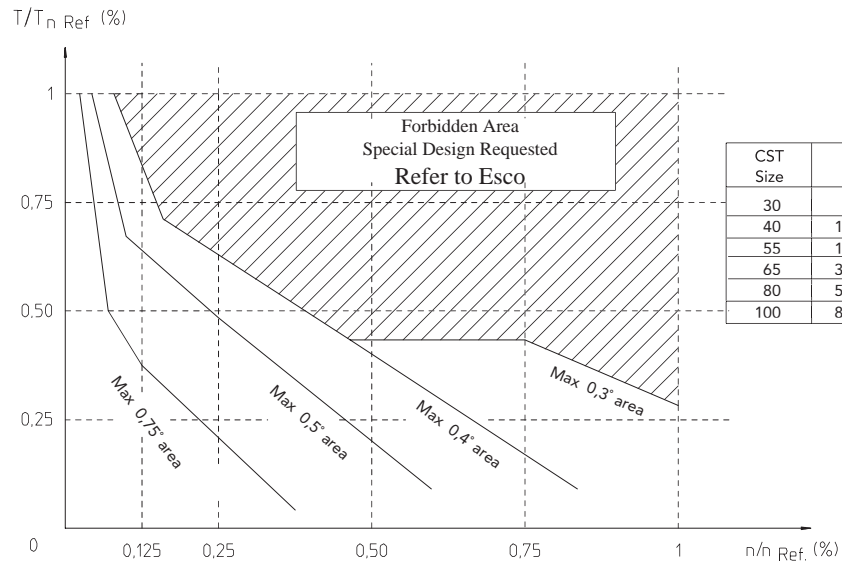
DRIVEN MACHINE		APPLICATIONS	DRIVER MACHINE		
			Electric motors Turbines	Hydraulic motors Gears drivers	Reciprocating engine Electric motors frequent starts
UNIFORM	Generators - Blowers: centrifugal vane, fans - Centrifugal pumps and compressors - Machine tools: auxiliary drives - Conveyors: belt and 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	
		Service factor F_u			
	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	

LEGEND OF USED PICTOGRAMS		Notes for series C / CST...M	
	MAXIMUM NOMINAL BORE (mm)	<ol style="list-style-type: none"> 1 For key according to ISO R 773. 2 Gear maximum continuous transmissible torque for the tabulated misalignment. The effective transmissible torque depends on the bore and shaft/hub connection. 3 Higher speed on special request. 3.1 For grease withstanding centrifugal acceleration of 1.000g. See installation and maintenance manual IM. 3.2 For grease withstanding centrifugal acceleration of 2.000g. See installation and maintenance manual IM. 3.3 Depends on S. 3.4 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)		
	T_n		MAXIMUM NOMINAL TORQUE (Nm)
	T_p		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/A300, IM/B300.

CST

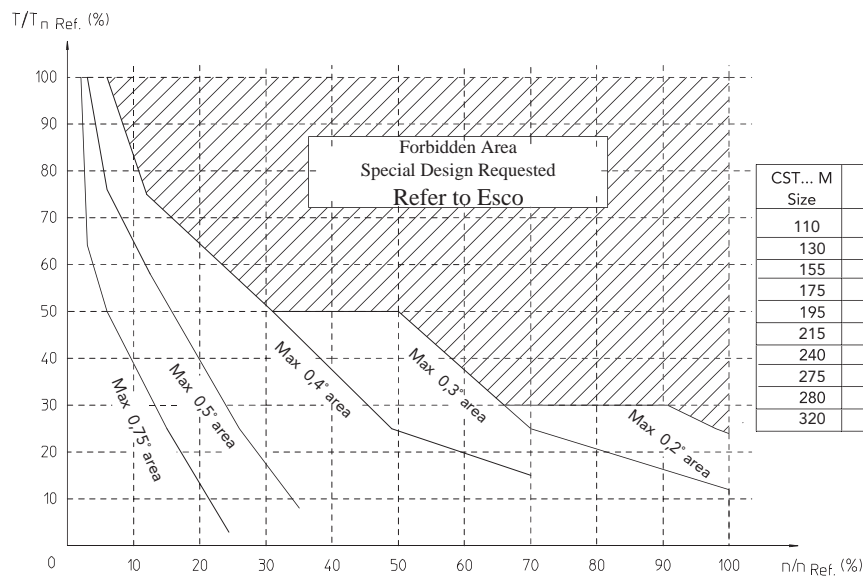
TABULATION 2



CST Size	Tn Nm	Tn \odot Nm	n Ref min-1
30	550	275	16000
40	1100	550	13800
55	1970	985	10200
65	3240	1620	8660
80	5600	2800	6900
100	8500	4250	6000

CST... M

TABULATION 3



CST... M Size	Tn kNm	Tn \odot kNm	n Ref min-1
110	16	8	6050
130	22	11	5150
155	32	16	4300
175	45	22,5	3950
195	62	31	3600
215	84	42	3450
240	115	57,5	3300
275	174	87	3050
280	244	122	2950
320	290	145	2800

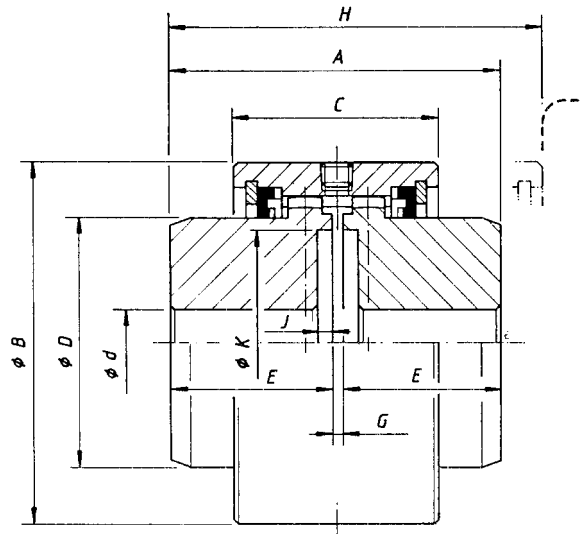


HOW TO USE THE GRAPH ?

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

Graph must be used as follows:

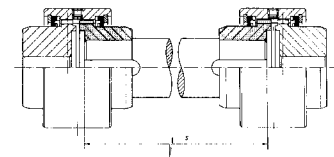
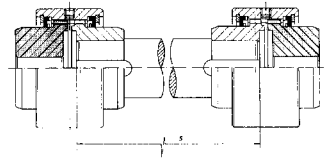
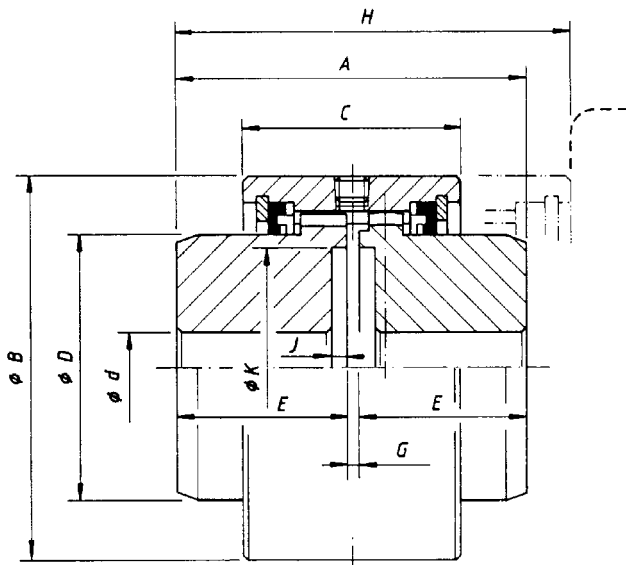
1. Calculate Tn and Tp and select coupling size as usual. Tn = nominal torque; Tp = peak torque
2. Calculate Tn/TnRef and n/nRef and plot the resulting point in the graph.
3. If the resulting point is located in the white area, a standard coupling may be used as far as maximum misalignment doesn't exceed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













max. 1,5°

←A150			Type CST					
			30	40	55	65	80	100
	d Ø nominal max.	mm	32	42	57	70	85	100
	d Ø min.	mm	0	0	22	25	38	38
	* d Ø max.	mm	35	42	63	75	90	110
	Tn	Nm	550	1100	1970	3240	5600	8500
	1m ↓ Tp		1100	2200	3940	6480	11200	17000
	3.1	tr/min omw/min	5500	5100	4400	4000	3600	3400
	3.2	rpm min ⁻¹	7750	7200	6200	5600	5100	4800
	—	degré graad degree Grad	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75
	—	mm	0,1	0,14	0,14	0,19	0,22	0,23
	4	kgm ²	0,002	0,004	0,010	0,022	0,052	0,122
	5	kg	2	3,4	6	9,1	15	29
	6	dm ³	0,022	0,036	0,063	0,114	0,201	0,270
mm: ±	A	mm	80	95	110	120	140	222
	B	mm	84	95	120	140	168	190
	C	mm	50	65	68	80	95	102
	D	mm	50,9	60,4	82,6	100	121	143
	E	mm	38,5	46	53,5	57	67	108
	G	mm	3	3	3	6	6	6
	H	mm	96	117	124	146	175	223
	J	mm	3	5	5	6	6	6
K	mm	49	57	76	95	121	140	

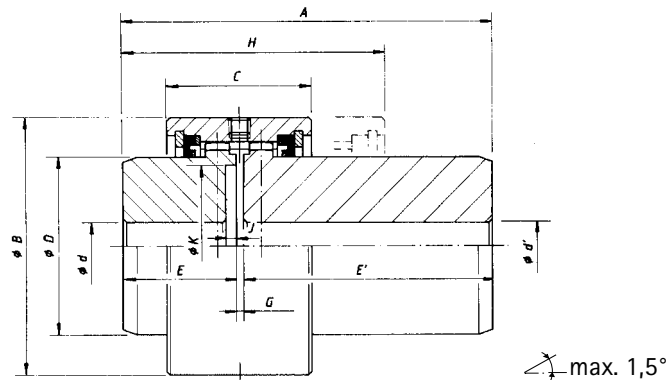
* Consult us













∠ max. 1,5°

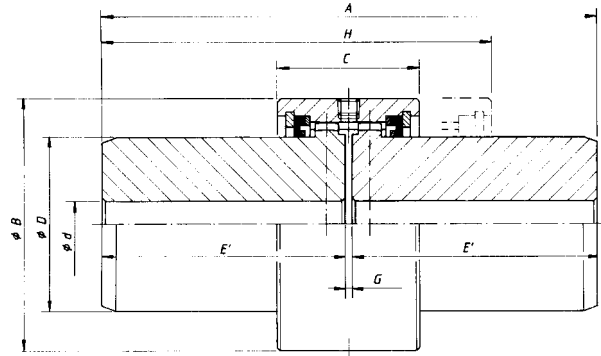
 ← A150			Type CFS						
			30	40	55	65	80	100	
 d Ø nominal max.	1	mm	32	42	57	70	85	100	
		 d Ø min.	mm	0	0	22	25	38	38
		 * d Ø max.	mm	35	42	63	75	90	110
 1m Nm	2	Tn	550	1100	1970	3240	5600	8500	
		Tp	1100	2200	3940	6480	11200	17000	
 /min.max.	3.3	tr/min omw/min rpm min ⁻¹							
 α	—	degré graad degree Grad	0,75	0,75	0,75	0,75	0,75	0,75	
 J (WR ²)	4	kgm ²	0,002	0,004	0,010	0,022	0,052	0,122	
	5	kg	2	3,4	6	9,1	15	29	
 Grease	6	dm ³	0,022	0,036	0,063	0,114	0,201	0,270	
mm: ±	A	mm	80	95	110	120	140	222	
	B	mm	84	95	120	140	168	190	
	C	mm	50	65	68	80	95	102	
	D	mm	50,9	60,4	82,6	100	121	143	
	E	mm	38,5	46	53,5	57	67	108	
	G	mm	3	3	3	6	6	6	
	H 10	mm	96	117	124	146	175	223	
	J	mm	3	5	5	6	6	6	
min.	K	mm	49	57	76	95	121	140	
	S 8	mm	76	92	105	114	133	204	

* Consult us












 ←A150		Type CMM							
		30	40	55	65	80	100		
	d Ø nominal max.	mm	32	42	57	70	85	100	
	d Ø min.	mm	0	0	22	25	38	38	
	* d Ø max.	mm	35	42	63	75	90	110	
	d' Ø nominal max.	mm	32	42	57	70	85	100	
	d' Ø min.	mm	0	0	0	0	40	40	
	* d' Ø max.	mm	35	42	63	75	90	110	
	Tn	Nm	550	1100	1970	3240	5600	8500	
	1m Tp		1100	2200	3940	6480	1120	17000	
	3.1	tr/min omw/min	5500	5100	4400	4000	3600	3400	
	3.2	rpm min ⁻¹	7750	7200	6200	5600	5100	4800	
	—	degré graad degree Grad	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	
	—	mm	0,1	0,14	0,14	0,19	0,22	0,23	
	J (WR ²)	kgm ²	0,002	0,004	0,012	0,028	0,065	0,140	
		kg	2,8	4,5	8,5	13,3	21,4	35,7	
		dm ³	0,022	0,036	0,063	0,114	0,201	0,270	
mm: ±	A	mm	136,7	150	174	193	219	279	
	B	mm	84	95	120	140	168	190	
	C	mm	50	65	68	80	95	102	
	D	mm	50,9	60,4	82,6	100	121	143	
	E	mm	38,5	46	53,5	57	67	108	
	E'	mm	95,2	101	117,5	130	146	165	
	G	mm	3	3	3	6	6	6	
	H	10 mm	mm	96	117	124	146	175	223
	J	mm	mm	3	5	5	6	6	6
	K	mm	mm	49	57	76	95	121	140

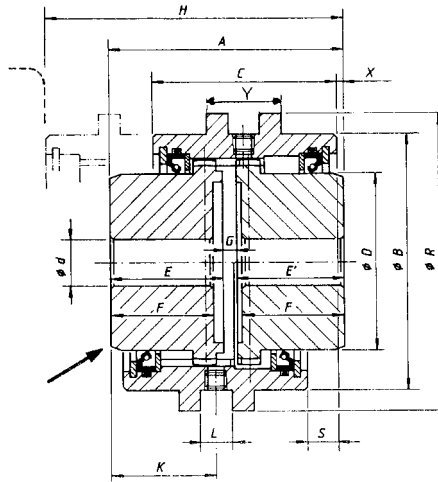
* Consult us



∠ max. 1,5°

 ←A150			Type CDMM						
			30	40	55	65	80	100	
	d Ø nominal max.	1	mm	32	42	57	70	85	100
	d Ø min.		mm	0	0	0	0	40	40
	* d Ø max.		mm	35	42	63	75	90	110
	Tn	2	Nm	550	1100	1970	3240	5600	8500
	1m Tp			1100	2200	3940	6480	11200	17000
	/min.max.	3.1	tr/min omw/min rpm	5500	5100	4400	4000	3600	3400
		3.2	min ⁻¹	7750	7200	6200	5600	5100	4800
		—	degré graad degree Grad	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75
		—	mm	0,1	0,14	0,14	0,19	0,22	0,23
	J (WR ²)	4	kgm ²	0,003	0,005	0,015	0,033	0,078	0,158
		5	kg	3,8	8,5	11,4	18	27,6	42,2
	Grease	6	dm ³	0,022	0,036	0,063	0,114	0,201	0,270
mm: ±	A		mm	193,4	205	238	266	298	336
	B		mm	84	95	120	140	168	190
	C		mm	50	65	68	80	95	102
	D		mm	50,9	60,4	82,6	100	121	143
	E'		mm	95,2	101	117,5	130	146	165
	G		mm	3	3	3	6	6	6
	H	10	mm	152	172	188	219	254	280

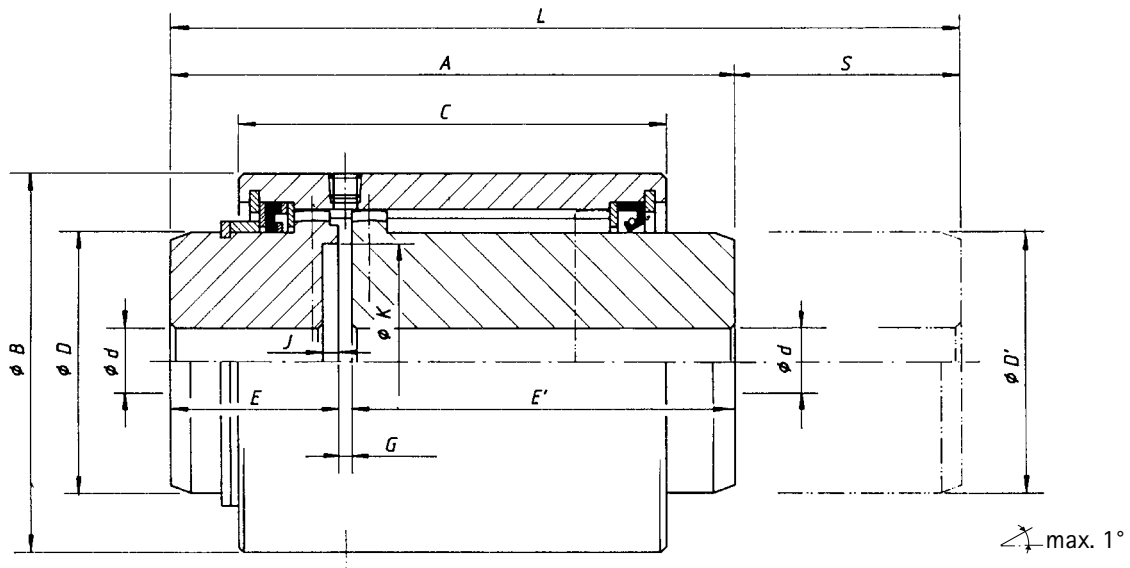
* Consult us








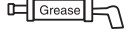


CE MOYEU A L'ARRET EN CONDITION DEBRAYEE
 WANNEER UITGESCHAKELD STAAT DEZE NAAF STIL
 THIS HUB IN STAND STILL WHEN DISCONNECTED
 Im ausgeschalteten Zustand steht die Nabe still

max. 1°

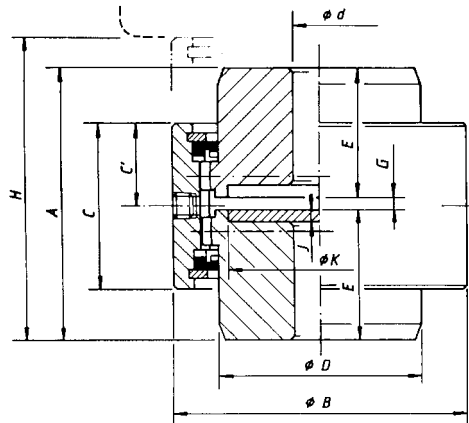
← A150			Type CCO						
			30	40	55	65	80	100	
	1	mm	32	42	57	70	85	100	
		mm	0	0	22	25	38	38	
	2	Tn	550	1100	1970	3240	5600	8500	
		1m Tp	Nm	1100	2200	3940	6480	11200	17000
	3.4	tr/min omw/min rpm min ⁻¹	4500	3800	2750	2200	1850	1600	
	—	degré graad degree Grad	2x0,5	2x0,5	2x0,5	2x0,5	2x0,5	2x0,5	
	4.4	J (WR ²)	kgm ²	0,004	0,009	0,022	0,035	0,08	0,17
	5.4	kg	kg	3,0	5,0	8,5	11,4	18,5	33
	6	dm ³	dm ³	0,035	0,058	0,094	0,172	0,295	0,435
mm: ±	A	mm	80	94,8	110	117	139	222,5	
	B	mm	84	95	120	140	168	190	
	C	mm	68	87	93,5	101	111	125,5	
	D	mm	50	60	82	100	120	140	
	E	mm	38,5	46	53,5	57	67	108	
	E'	mm	35,5	42,8	50,5	53	61	102	
	F	mm	35,5	41	48,5	51	61	102	
	G	mm	6	6	6	7	11	12,5	
	H	mm	125	140	155	165	195	250	
	K	mm	35,5	39,5	47,5	50,5	60	101,5	
max. max.	R	mm	120	135	170	180	215	240	
	L	mm	30	35	40	45	45	50	
	S	mm	9,5	16	14	17,5	19	20,5	
	X	mm	0,9	-4,1	1,4	-1,5	4,3	37,5	
	Y	mm	45	55	60	65	70	75	













 ← A150			Type CSH						
			30	40	55	65	80	100	
 d \varnothing max. \varnothing min.	1	mm	32	42	57	70	85	100	
		mm	0	0	22	25	38	38	
 T_n T_p	2	Nm	550	1100	1970	3240	5600	8500	
			1100	2200	3940	6480	11200	17000	
 tr/min omw/min rpm min ⁻¹	3.3								
 α	—	degré graad degree Grad	2x0,5	2x0,5	2x0,5	2x0,5	2x0,5	2x0,5	
 J (WR ²)	4.1	kgm ²							
	5.1	kg							
	6.1	dm ³							
mm: ±	A	6.1	mm	109,2	117	179,5	186,2	216,2	263
	B		mm	84	95	120	140	168	190
	C	6.1	mm	83	90,5	142,5	143,5	166,5	169,5
	D		mm	50,9	60,4	82,6	100	121	143
	D'		mm	50	60	82	100	120	140
	E		mm	38,5	46	53,5	57	67	108
	E'	6.1	mm	67	67	122	125	145	150
	G		mm	3,7	4	4	4,2	4,2	5
	J		mm	3	5	5	6	6	6
	K		mm	49	57	76	95	121	140
max.	L	6.1	mm	139,7	141	250,9	253,5	297,2	342
	S	7	mm	30,5	24	71,4	67,3	81	79

TAILLES SUPERIEURES A LA DEMANDE
 GROTERE MODELLEN OP AANVRAAG
 LARGER SIZES ON REQUEST
 GROESSERE ABMESSUNGEN AUF ANFRAGE

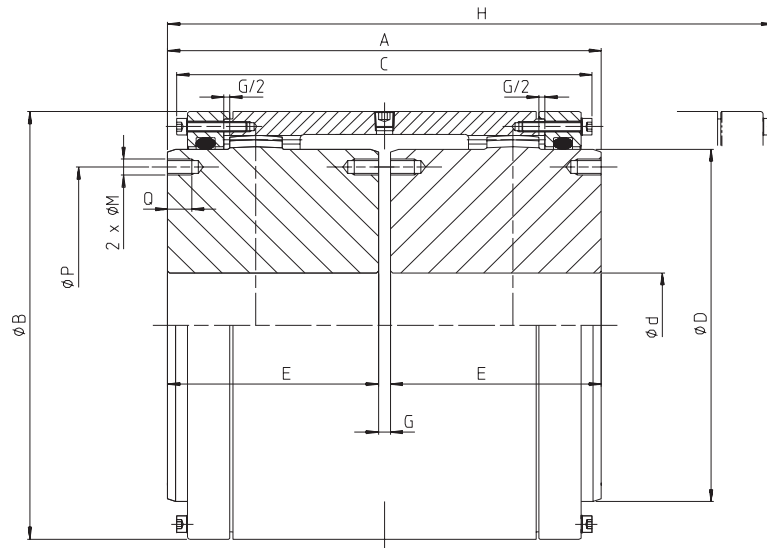
* Consult us



 max. 1°

 ← A150			Type CSV					
			30	40	55	65	80	100
	1	d Ø nominal max. mm	32	42	57	70	85	100
		d Ø min. mm	0	0	22	25	38	38
		* d Ø max. mm	35	42	63	75	90	110
	2	Tn Nm	550	1100	1970	3240	5600	8500
		Tp Nm	1100	2200	3940	6480	11200	17000
	3	tr/min omw/min rpm min ⁻¹	5500	5100	4400	4000	3600	3400
	—	degré graad degree Grad	2x0,5	2x0,5	2x0,5	2x0,5	2x0,5	2x0,5
	—	mm	0,07	0,09	0,09	0,12	0,14	0,15
	4	J (WR ²) kgm ²	0,002	0,004	0,010	0,022	0,052	0,122
	5	kg	2	3,4	6	9,1	15	29
	6	dm ³	0,022	0,036	0,063	0,120	0,201	0,273
mm: ±	A	mm	80	95	110	120	140	222
	B	mm	84	95	120	140	168	190
	C	mm	50	65	68	80	95	102
	C'	mm	25	32,5	34	40	47,5	51
	D	mm	50,9	60,4	82,6	100	121	143
	E	mm	38,5	46	53,5	57	67	108
	G	9 mm	3	3	3	6	6	6
	H	mm	96	117	124	146	175	223
	J	mm	3	5	5	6	6	6
	K	mm	49	57	76	95	121	140

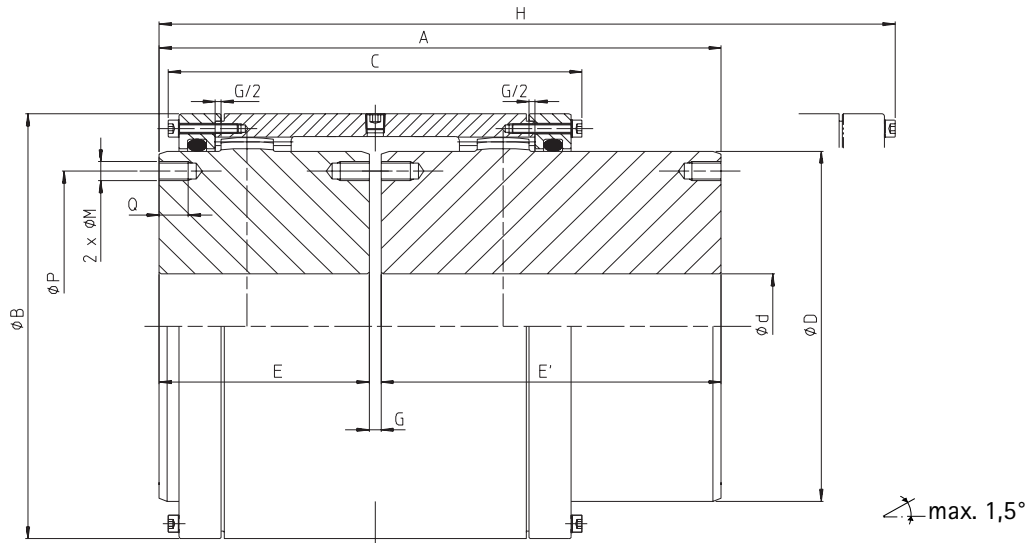
* Consult us



max. 1,5°

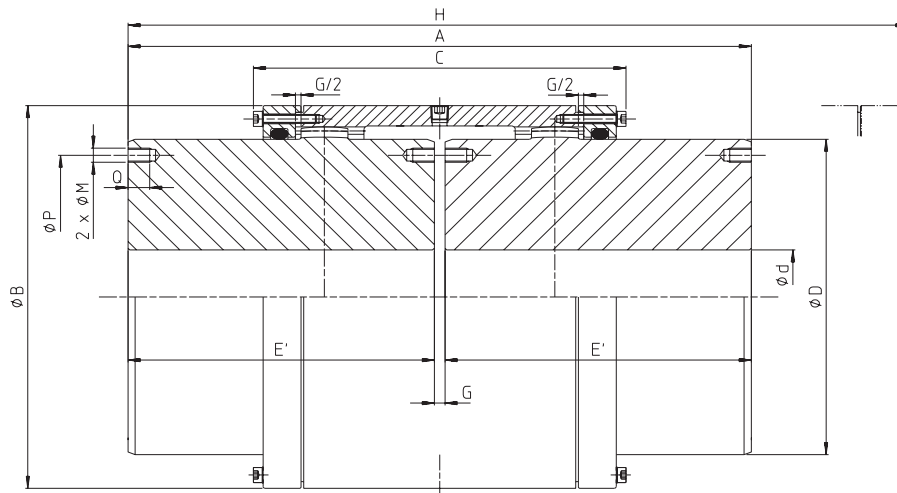
←A150		Type CST ... M									
		110	130	155	175	195	215	240	275		
d Ø nominal max. d Ø min. * d Ø max.	1	mm	110	130	155	175	195	215	240	275	
		mm	0	55	65	80	90	100	120	150	
		mm	112	132	158	175	198	217	244	290	
Tn 1m ↓ Tp	2	Nm	16000	22000	32000	45000	62000	84000	115000	174000	
			32000	44000	64000	90000	124000	168000	230000	348000	
/min.max.	3.1	tr/min omw/min	3350	3100	2800	2700	2550	2450	2300	2150	
	3.2	rpm min ⁻¹	4700	4350	4000	3800	3600	3450	3300	3050	
	—	degré graad degree Grad	2 x 0,75	2 x 0,75	2 x 0,75	2 x 0,75	2 x 0,75	2 x 0,75	2 x 0,75	2 x 0,75	
	—	mm	0,7	0,9	1	1,1	1,2	1,4	1,5	1,7	
J (WR ²)	4	kgm ²	0,159	0,340	0,735	1,25	2,19	3,49	5,33	10,90	
	5	kg	35	51	81	111	153	207	262	398	
Grease	6	dm ³	0,36	0,52	0,80	0,98	1,51	2,02	2,43	3,29	
mm: ±	A	mm	185	216	246	278	308	358	388	450	
	B	mm	186	216	254	282	317	346	376	436	
	C	mm	174	206	227	254	276	319	346	383	
	D	mm	151	178	213	235	263	286	316	372	
	E	mm	90	105	120	135	150	175	190	220	
	G	mm	5	6	6	8	8	8	8	10	
	H	10	mm	313	368	415	468	516	602	657	743
	M	mm				M12	M16	M16	M16	M20	
	P	mm				205	226	250	276	330	
	Q	mm				18	24	24	24	30	

* Consult us



← A150		Type CMM ... M									
		110	130	155	175	195	215	240	275		
	d Ø nominal max.	mm	110	130	155	175	195	215	240	275	
		d Ø min.	mm	0	55	65	80	90	100	120	150
		* d Ø max.	mm	112	132	158	175	198	217	244	290
	Tn	Nm	16000	22000	32000	45000	62000	84000	115000	174000	
	Tp		32000	44000	64000	90000	124000	168000	230000	348000	
	/min.max.	3.1	tr/min omw/min	3350	3100	2800	2700	2550	2450	2300	2150
		3.2	rpm min ⁻¹	4700	4350	4000	3800	3600	3450	3300	3050
	—	degré graad degree Grad	2 x 0,75	2 x 0,75	2 x 0,75	2 x 0,75	2 x 0,75	2 x 0,75	2 x 0,75	2 x 0,75	
	—	mm	0,7	0,9	1	1,1	1,2	1,4	1,5	1,7	
	J (WR ²)	kgm ²	0,189	0,390	0,845	1,40	2,45	3,88	6,02	12,82	
		kg	45	63	99	130	180	240	310	491	
		dm ³	0,36	0,52	0,80	0,98	1,51	2,02	2,43	3,29	
mm: ±	A	mm	260	281	316	343	378	433	478	580	
	B	mm	186	216	254	282	317	346	376	436	
	C	mm	174	206	227	254	276	319	346	383	
	D	mm	151	178	213	235	263	286	316	372	
	E	mm	90	105	120	135	150	175	190	220	
	E'	mm	165	170	190	200	220	250	280	350	
	G	mm	5	6	6	8	8	8	8	10	
	H	10 mm	313	368	415	468	516	602	657	743	
	M	mm				M12	M16	M16	M16	M20	
	P	mm				205	226	250	276	330	
Q	mm				18	24	24	24	30		

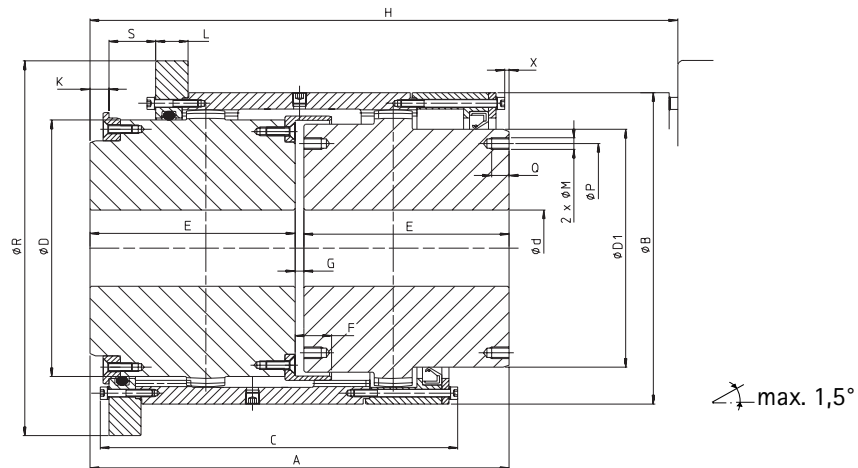
* Consult us



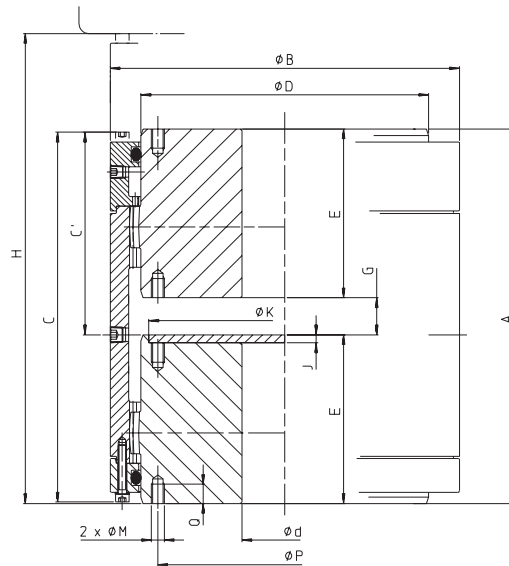
max. 1,5°

←A150		Type CDMM ... M								
		110	130	155	175	195	215	240	275	
d Ø nominal max. d Ø min. * d Ø max.	1	mm	110	130	155	175	195	215	240	275
		mm	0	55	65	80	90	100	120	150
		mm	112	132	158	175	198	217	244	290
Tn 1m Nm Tp	2	Nm	16000	22000	32000	45000	62000	84000	115000	174000
			32000	44000	64000	90000	124000	168000	232000	348000
/min.max. tr/min omw/min rpm min ⁻¹	3.1		3350	3100	2800	2700	2550	2450	2300	2150
	3.2		4700	4350	4000	3800	3600	3450	3300	3050
α	—	degré graad degree Grad	2 x 0,75	2 x 0,75	2 x 0,75	2 x 0,75	2 x 0,75	2 x 0,75	2 x 0,75	2 x 0,75
	—	mm	0,7	0,9	1	1,1	1,2	1,4	1,5	1,7
J (WR ²)	4	kgm ²	0,219	0,440	0,956	1,55	2,71	4,27	6,71	14,73
	5	kg	55,7	74,4	116	150	206	273	357	584
Grease	6	dm ³	0,36	0,52	0,80	0,98	1,51	2,02	2,43	3,29
mm: ±	A	mm	335	346	386	408	448	508	568	710
	B	mm	186	216	254	282	317	346	376	436
	C	mm	174	206	227	254	276	319	346	383
	D	mm	151	178	213	235	263	286	316	372
	E'	mm	165	170	190	200	220	250	280	350
	G	mm	5	6	6	8	8	8	8	10
	H	10 mm	313	368	415	468	516	602	657	743
	M	mm				M12	M16	M16	M16	M20
	P	mm				205	226	250	276	330
	Q	mm				18	24	24	24	30

* Consult us



← A150			Type CCO...M							
			120	150	165	185	210	230	270	
 d \varnothing max. d \varnothing min.	1	mm	120	150	165	185	210	230	270	
		mm	55	65	80	90	100	120	150	
 T_n T_p	2	Nm	22000	32000	45000	62000	84000	115000	174000	
			44000	64000	90000	124000	168000	230000	348000	
 tr/min omw/min rpm min ⁻¹	3.4		1300	1100	1000	900	800	750	620	
 degré graad degree Grad	—		2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	
	—	mm	0,9	1	1,1	1,2	0,9	1	1,1	
 J (WR ²)	4.4	kgm ²	0,433	0,924	1,59	2,69	4,28	6,42	13,22	
	5.4	kg	67,2	103,6	143	193	263	328	494	
	6	dm ³	0,62	0,96	1,18	1,82	2,44	2,94	4,02	
mm: ±	A	mm	286	316	358	388	448	488	550	
	B	mm	216	254	282	317	346	376	436	
	C	mm	247	272	306	332	382	417	468	
	D	mm	178	213	235	263	286	316	372	
	D1	mm	165	200	224	250	280	300	360	
	E	mm	140	155	175	190	220	240	270	
	F	mm	22	22,5	27	30	35,5	39	39,5	
	G	mm	6	6	8	8	8	8	10	
	H	10	mm	404	445	503	547	633	691	768
	K	mm	12	12,5	16	16	19,5	21	23,5	
	R	mm	260	300	330	365	390	420	480	
	L	mm	22	25	25	25	25	25	30	
	M	mm			M12	M16	M16	M16	M20	
	P	mm			205	226	250	276	330	
	Q	mm			18	24	24	24	30	
S	mm	32	37	42	46	53	58	68		
X	mm	0,45	1	1	1	3	1	-1		



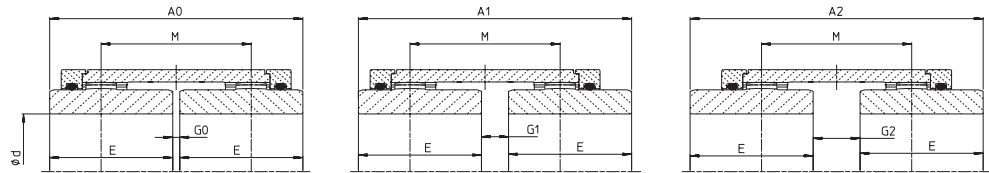
max. 1,5°



← A150		Type CSV ... M									
		110	130	155	175	195	215	240	275		
	d Ø nominal max.	mm	110	130	155	175	195	215	240	275	
	d Ø min.	mm	0	55	65	80	90	100	120	150	
	* d Ø max.	mm	112	132	158	175	198	217	244	290	
	Tn	Nm	16000	22000	32000	45000	62000	84000	115000	174000	
	Tp		32000	44000	64000	90000	124000	168000	230000	348000	
	3.1	tr/min omw/min	3350	3100	2800	2700	2550	2450	2300	2150	
	3.2	rpm min ⁻¹	4700	4350	4000	3800	3600	3450	3300	3050	
	—	degré graad degree Grad	2 x 0,75	2 x 0,75	2 x 0,75	2 x 0,75	2 x 0,75	2 x 0,75	2 x 0,5	2 x 0,5	
	—	mm	0,7	0,9	1	1,1	1,2	0,9	1	1,1	
	J (WR ²)	kgm ²	0,159	0,340	0,735	1,25	2,19	3,49	5,33	10,90	
		kg	35	51	81	111	153	207	262	398	
		dm ³	0,45	0,67	1,01	1,32	1,95	2,53	3,06	4,37	
mm ±	A	mm	199	233	264	299	332	389	426	483	
	B	mm	186	216	254	282	317	346	376	436	
	C	mm	196	228	249	276	298	341	368	408	
	C'	mm	109	125	135,5	149	160	181,5	195	216,5	
	D	mm	151	178	213	235	263	286	316	372	
	E	mm	90	105	120	135	150	175	190	220	
	G	9	mm	19	23	24	29	32	39	46	43
	H	10	mm	349	408	455	508	556	642	697	786
	J	mm	5	6	6	6	6	6	6	6	
	K	mm	140	165	195	224	250	274	302	356	
	M	mm				M12	M16	M16	M16	M20	
P	mm				205	226	250	276	330		
Q	mm				18	24	24	24	30		

* Consult us

Caractéristiques principales – Voornaamste karakteristieken – Main features – Viktiga fördelar
 Charakteristische Hauptmerkmale – Características principales – Caratteristiche principali

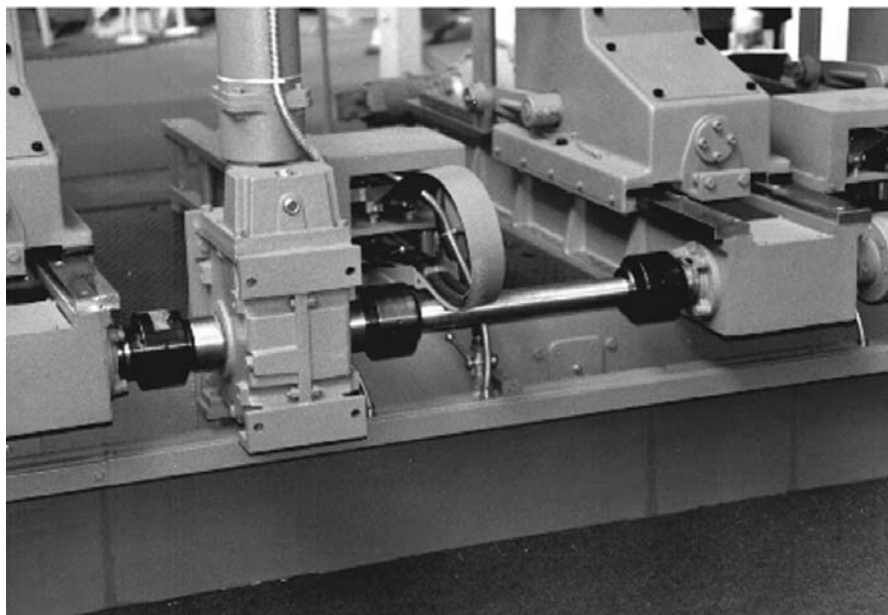
- 3 POSITIONS MOYEUX
- 3 NAVENPOSITIES
- 3 HUBS POSITIONS
- 3 EINBAUMÖGLICHKEITEN
- 3 NAVKOMBINATIONER
- 3 POSICIONES CUBO
- 3 POSIZIONI DEI MOZZI



 ← A150		Type CST... M								
		110	130	155	175	195	215	240	275	
	d Ø nominal max.	mm	110	130	155	175	195	215	240	275
	d Ø min.	mm	0	55	65	80	90	100	120	150
	* d Ø max.	mm	112	132	158	175	198	212	244	290
	A0	mm	185	216	246	278	308	358	388	450
	A1	mm	199	233	264	299	332	389	426	483
	A2	mm	213	250	282	320	356	420	464	516
	E	mm	90	105	120	135	150	175	190	220
	G0	mm	5	6	6	8	8	8	8	10
	G1	mm	19	23	24	29	32	39	46	43
	G2	mm	33	40	42	50	56	70	84	76
	M	mm	109	128	144	164	182	214	236	263

* Consult us

4 ALTERNATIVES – 4 ALTERNATIEVEN – 4 ALTERNATIV – 4 AUSFUEHRUNGEN – 4 ALTERNATIVAS – 4 ALTERNATIVE



Escogear References

Since 1966 escogear standard, as well as special couplings have been in use in various industries such as the steel, pulp & paper, cement, textile and general machine building industry to full customer satisfaction.

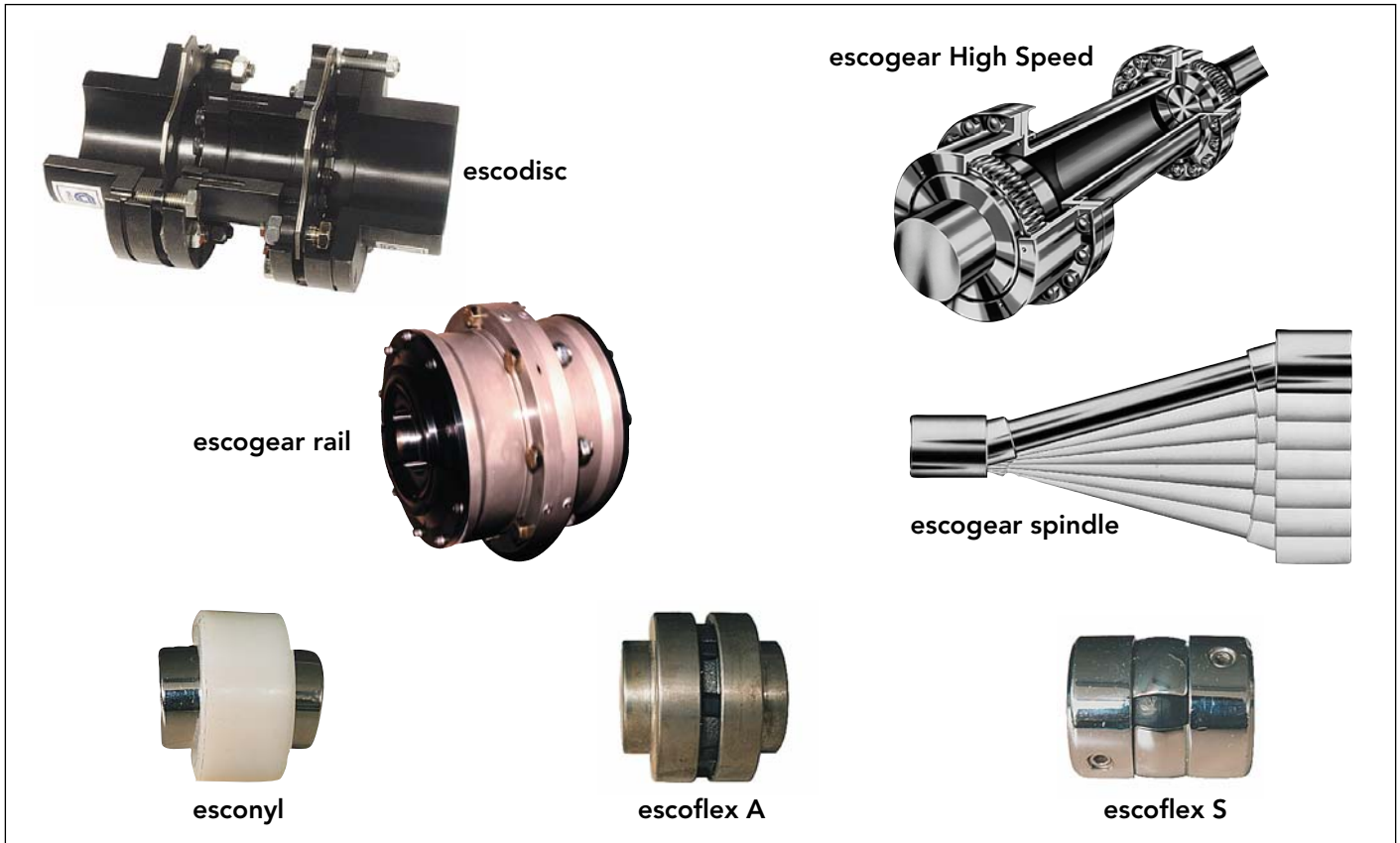
The field of application is various going from rolling mills, galvanizing lines, rubber mixers, wood chippers and debarking drums, compactors and briquetting machines to presses, heavy lifting equipment, industrial ovens, turbines, compressors, fans and gearboxes...

Thanks to this, esco has built up a level of expertise and knowledge from which our customers can benefit.

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Andritz
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CMI Cockerill
Corus Steel
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Other Available Esco Coupling Series



esco transmissions n.v./s.a.

Kouterveld
Culliganlaan, 3
B - 1831 Diegem
(tel) + 32 02 715 65 60
(fax) + 32 02 720 83 62 - 02 721 28 27
e-mail: info@escotrans.be
web site: www.escocoupling.com
www.esco-transmissions.be

Eugen Schmidt und Co Getriebe und Antriebselemente GmbH

Biberweg 10
D - 53842 Troisdorf
(tel) + 49 (02241) 48070
(fax) + 49 (02241) 480710
e-mail: esco-antriebstechnik@t-online.de
web site: www.esco-antriebstechnik.de

esco transmissions s.a.

Z.I. 34, rue Ferme Saint-Ladre
Saint Witz
F - 95471 Fosses Cedex
(tel) + 33 (1) 34 31 95 95
(fax) + 33 (1) 34 31 95 99
e-mail: info@esco-transmissions.fr
web site: www.esco-transmissions.fr

esco aandrijvingen b.v.

Ondernemingsweg, 19 - P.B. 349
NL - 2404 HM Alphen A/D Rijn
(tel) + 31 (0) 172 / 42 33 33
(fax) + 31 (0) 172 / 42 33 42
e-mail: info@esco-aandrijvingen.nl
web site: www.esco-aandrijvingen.nl

