escogear

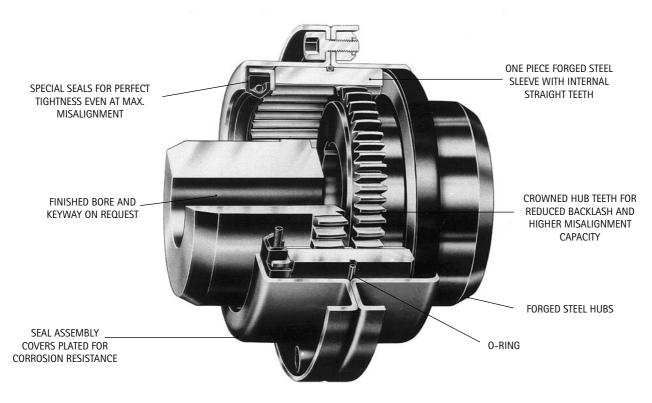
FLEXIBLE GEAR COUPLINGS





SERIES N

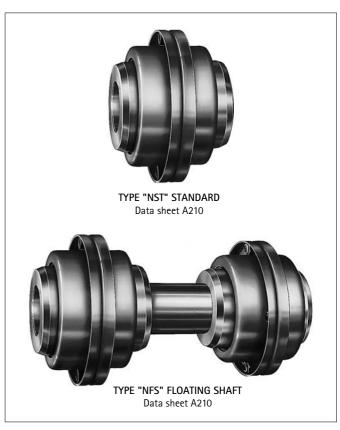
Maximum torque: up to 2 000 Nm — Bores: up to 65 mm



FEATURES

The ESCOGEAR couplings of the series N distinguish themselves by:

- maximum bores defined in function of standardized shaft diameters according to ISO and IEC.
- reduced outside dimensions and weights from which result very small axial load and thrust on the connected shafts.
- a sufficiently balanced coupling for the maximum indicated speeds, all the components being machined.
- easy installation no special tooling is required.
- an absolute reliability and minimum maintenance.
- a perfect homocinetic torque transmission.



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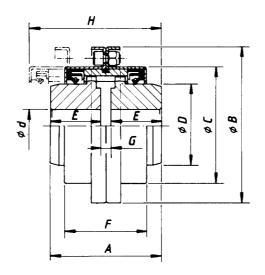
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NST 25 ⇒ 65

sales@rsvindustries.com +91 74004 33355





≥ max. 1,5°

			Type NST				
		←A150		25	38	45	65
Ø max		1	mm	25	38	45	65
	min.		mm	0	0	0	26
E Z	Tn	- 2	Nm	200	450	800	2000
<u>0</u> 1m ↓	Тр			400	900	1600	4000
/min.max.			tr/min omw/min rpm min ⁻¹	6300	4800	4100	3000
α		_	degré graad degree grad	2x0,75	2x0,75	2x0,75	2x0,75
_+-		_	mm	0,1	0,11	0,13	0,15
- J - (WR²)		4	kgm²	0,0004	0,0013	0,002	6 0,0102
4		5	kg	0,85	1,81	2,97	7,23
Grease		6	dm³	0,01	0,02	0,03	0,05
	Α		mm	58	75	95	135
	В		mm	76,5	94	109	134,5
	С		mm	57,5	74,5	86	111,5
mm: +	D		mm	40	54	64	89
	Е		mm	27	35	45	65
	F		mm	42	48	55	63
	G		mm	4	5	5	5
	Н	10	mm	70	85	105	135

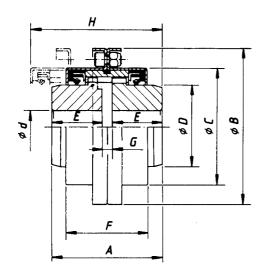
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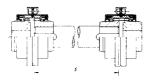


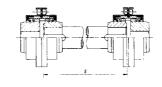
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∠ max. 0,75°

			Type NFS				
		←A150		25	38	45	65
K W	Ø max.	- 1	mm	25	38	45	65
	Ø min.		mm	0	0	0	26
Tn		2	Nm	200	450	800	2000
O1m \	Тр	1 2	INITI	400	900	1600	4000
/min.max.		3.3	tr/min omw/min rpm min ⁻¹				
α		_	degré graad degree grad	0,75	0,75	0,75	0,75
- J (WR ²)		4	kgm²	0,0004	0,0013	0,0026	0,0102
		5	kg	0,85	1,81	2,97	7,23
Grease		6	dm³	0,01	0,02	0,03	0,05
	Α		mm	58	75	95	135
	В		mm	76,5	94	109	134,5
	С		mm	57,5	74,5	86	111,5
	D		mm	40	54	64	89
mm: ±	E		mm	27	35	45	65
	F		mm	42	48	55	63
	G		mm	4	5	5	5
	Н	10	mm	70	85	105	135
(min)	S	8	mm	60	70	90	130

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SERIES N

HOW TO SELECT THE RIGHT COUPLING SIZE

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

torque in Nm = $\frac{9550 \times P \times F_u \times F}{U}$

B. Make sure this coupling has the required torque capacity according to following formula: $P = \text{power in kW}; \quad n = \text{speed in rpm}; \quad F_{\parallel} = \text{service factor according to tabulation 1}.$

F 🔊 = 2 in case of use in potentionally explosive atmospheres 🐼 , European Directive 94/9/EC. In normal atmospheres, F 🚱 = 1.

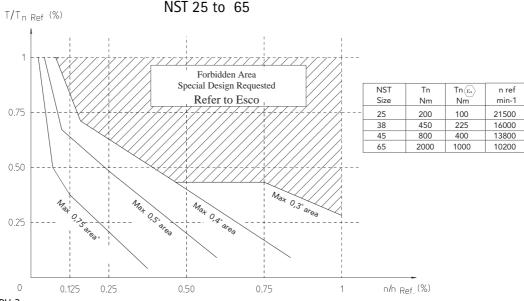
The coupling selected per (A) must have an equal or greater torque capacity than the result of the formula (B). If not select a larger size coupling. Check if application peak torque does not exceed tabulated peak torque Tp indicated planographs A210 and A211. Check also max. allowable misalignment using the graph of tabulations 1 and 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.

TABULATION 1 APPLICATIONS				DRIVER MACHINE			
				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	Service factor F _u 1 to 1,5	1,25 to 1,75		
DRIVEN MACHINE HEAVY SHOCKS SHOCKS U		Propeller - Waterjet pumps	1,25	1,5	1,75		
	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	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		





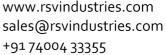
HOW TO USE THE GRAPH?

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 potentionally explosive atmospheres 🗟 , proceed the same way but using Tn Ref 🚭 for the calculation. Max misalignement may not exceed 0,5° per gear mesh.









escogear

LEGE	ND OF USED PICTOGRAMS	Notes for series N		
d Ø nominal max.	MAXIMUM NOMINAL BORE (mm)	1 For key according to ISO R 773.		
d Ø min.	MINIMUM BORE (mm)	2 Gear maximum continuous transmissible torque for the tabulated mis-		
d Ø max.	MAXIMUM BORE (mm)	alignment. The effective transmissible torque depends on the bore and		
Tn	MAXIMUM NOMINAL TORQUE (Nm)	shaft/hub connection.		
O 1m ↓ Tp	MAXIMUM PEAK TORQUE (Nm)	 3 Higher speed on special request. 3.1 For grease withstanding centrifugal acceleration of 1.000g. See installation and maintenance manual IM. 		
/min.max.	MAXIMUM SPEED (rpm)	3.2 For grease withstanding centrifugal acceleration of 2.000g. See installation and maintenance manual IM.3.3 Depends on S.		
	MAYIMIM OFFCET	3.4 For long operation in disconnected position contact us. 4 For solid bore.		
:+:-	MAXIMUM OFFSET (mm)	4 For solid bore. 4.1 Depends on S.		
	()	4.2 For solid bore and S minimum.		
	MAXIMUM ANGULAR	 4.3 Per 100 mm spacer length. 4.4 Depends on L and R. 5 For pilot bored hubs. 		
α	MISALIGNMENT (degree)	 5.1 Depends on S. 5.2 For pilot bored hubs and S minimum. 5.3 Per 100 mm spacer length. 		
- J - (WR²)	INERTIA (kgm²)	 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. 		
<u></u>	WEIGHT (kg)	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.		
Grease	GREASE QUANTITY (dm³)	* Max. torque, speed and misalignment tabulated values may not be cumulated. See IM/A200.		

