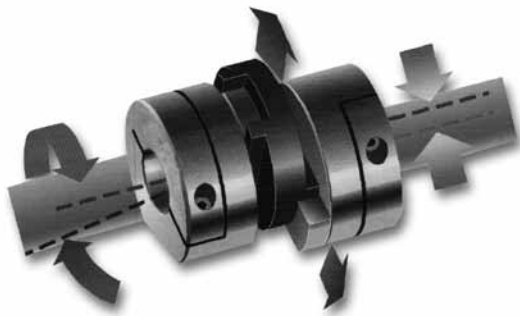


## Shaft couplings



The Oldham couplings from Nanotec are easy to install due to the short construction and can transfer high forces with low shaft offset. Damage to the shaft is excluded by the clamp fastening. A nylon transmission disc dampens noise and provides good insulation properties (3 kV between two shafts) with a potential-free construction.

### Use

Wherever play-free power transmission is needed: Stepper motors, servomotors, encoder, tacho-generator, etc.

<b>Temperature range:</b>	-20 °C to +60 °C
<b>Materials:</b>	2011T3 and 2011T8 BS4300/5FC1 aluminum alloy hub
<b>Transmission disc:</b>	Nylon 11 (colorless)
<b>Blind hole:</b>	Length of parallel borehole $\pm 0.2$ . Boreholes end with 118° angle

### Operating factors

Maximum torques based on drives with no displacement or axial movement.  
The operating ratios are multiplied by the load moments as explained, e.g.

Load moment of the application	= 1 Nm
Operating factor	= 2
<b>Required torque</b>	<b>= 2 Nm</b>

Load duration	Operating factor
Momentary load	1
1 hours per day	2
3 hours per day	4
6 hours per day	6
12 hours per day	8

### Order identifier

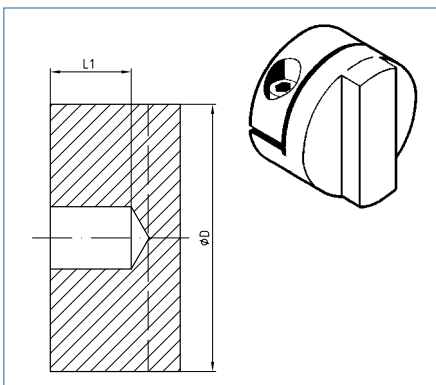
#### ZW-X (e.g. ZW-235-19-20)

#### Order 2 hubs + 1 transmission disc

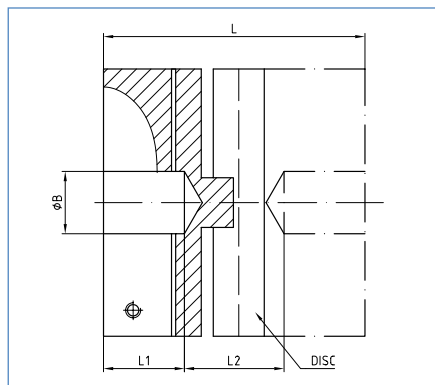
From 50 pcs, special boreholes are possible!

**Order number** for special hub boreholes:  
e.g. 8.0 mm = ZW-235-19-99-8.0

### Hubs with blind hole



### Outline drawing (in mm)



### Coupling-specific parameters

Size	Short-circuit torque Nm	Max. displacement @3000 r.p.m.			Static break torque Nm
		Angle $\pm^\circ$	Radial $\pm$ mm	Axial $\pm$ mm	
19	1.7	0.5	0.2	0.10	10
25	4.0	0.5	0.2	0.10	13
41	17.0	0.5	0.2	0.15	57

### Available shaft couplings

Hubs	Size	Hub hole +0.03/-0 mm	Ø D	Dimensions			Fixing screws		Inertia torque $\text{kgm}^2 \times 10^{-8}$	Weight	Transmission disc Order number
				L	L1	L2	Setting screw	removal torque Nm			
235-19-20	19	5	19.1	22.0	6.3	9.4	M3	0.94	67	12	235-19-0
235-19-99	19	X	19.1	22.0	6.3	9.4	M3	0.94	67	12	235-19-0
234-25-24	25	6.35	25.4	28.4	8.6	11.2	M4	2.27	252	31	234-25-0
234-25-28	25	8	25.4	28.4	8.6	11.2	M4	2.27	252	31	234-25-0
234-25-99	25	X	25.4	28.4	8.6	11.2	M4	2.27	252	31	234-25-0
234-41-31	41	9.525	41.3	50.8	16.7	17.4	M5	4.62	3327	148	234-41-0
234-41-38	41	14	41.3	50.8	16.7	17.4	M5	4.62	3327	148	234-41-0
234-41-99	41	X	41.3	50.8	16.7	17.4	M5	4.62	3327	148	234-41-0