

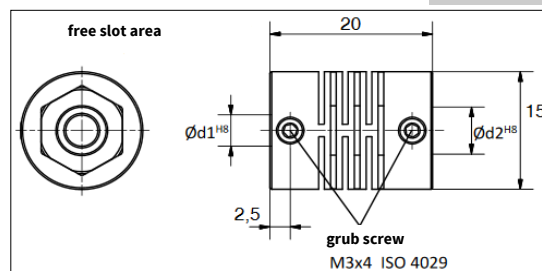
TECHNICAL DATASHEET
flexible couplings

Rotary encoders must be protected against mechanical overstressing that always occurs when there are angular, radial or axial displacements between the machine and the encoder shaft. Our flexible couplings can do this within certain limits balance.

CROSS SLOTTED COUPLING

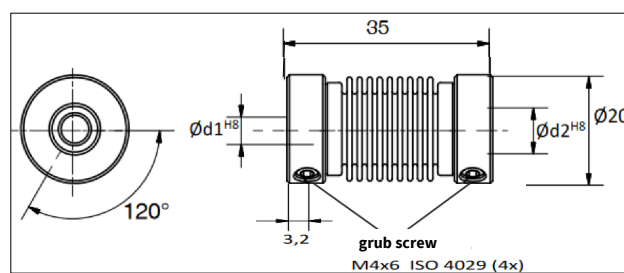

hub diameter	Part number
5/5 mm	3 520 034
5/6 mm	3 520 033
6/6 mm	1 761 026
Suitable for rotary encoder type RI32, RI41, RI42 for simple Applications	

speed max.	12.000 min ⁻¹
torque max.	30 Ncm
moment of inertia	2 gcm ²
torsion spring stiffness	12 Nm/rad
radial spring stiffness	45 N/mm
max. offset off shafts	angular ±2,5°
max. offset off shafts	radial ±0,3 mm
	axial ±0,2 mm
max. clamping torque	70 Ncm
material	middle section polyamid 6.6
	hub Fibreglass reinforced brass
weight appr.	6 g
temperature range	-10°C ... +80°C

DRAWING

BELLOW COUPLING


hub diameter	Part number
12/12 mm	0 070 666
10/10 mm	3 520 037
9,53/9,53 mm	3 520 038
6/6 mm	3 520 068
8/8 mm	3 520 077
Suitable for rotary encoder type RI 58, AC58	

speed max.	10.000 min ⁻¹
torque max.	100 Ncm
moment of inertia	9 gcm ²
torsion spring stiffness	140 Nm/rad
radial spring stiffness	10 N/mm
max. offset off shafts	angular ±4,0°
max. offset off shafts	radial ±0,3 mm
	axial ±0,5mm
max. clamping torque	150 Ncm
material	flange aluminum anodized
	bellow stainless steel
weight appr.	16g
temperature range	-30°C ... +120°C

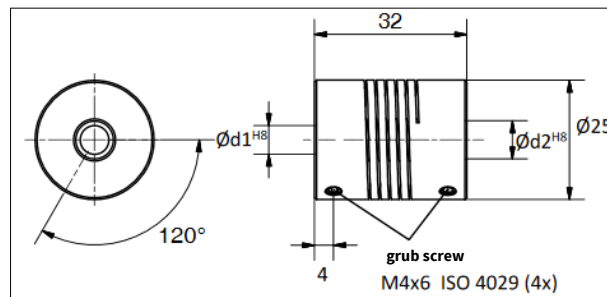


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TECHNICAL DATASHEET
flexible couplings
HELIX COUPLING

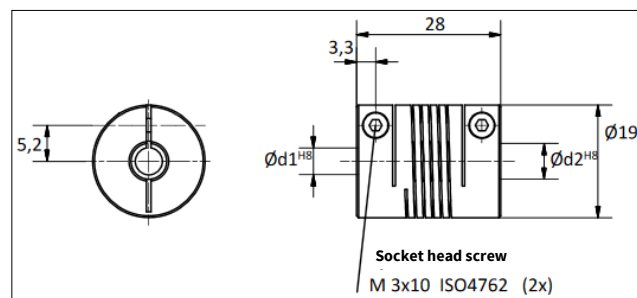

hub diameter	Part number
6/9,53 mm	3 520 052
6/10 mm	3 520 066
10/12 mm	3 520 065
10/10 mm	3 520 074
Suitable for rotary encoder type RI 58, AC58	

speed max.	6.000 min ⁻¹
torque max.	100 Ncm
moment of inertia	29 gcm ²
torsion spring stiffness	16 Nm/rad
radial spring stiffness	45 N/mm
max. offset off shafts	angular ±4,0°
max. offset off shafts	radial ±0,35 mm axial ±0,5mm
max. clamping torque	150 Ncm
material	flange aluminum, anodized
weight appr.	34 g
temperature range	-30°C... +150°C



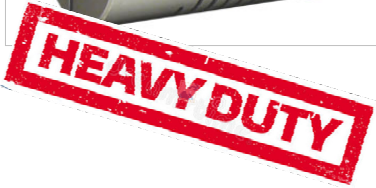
hub diameter	Part number
5/5 mm	3 520 036
5/6 mm	3 520 035
6/6 mm	0 070 653
6,35/6,35 mm	3 520 057
Suitable for rotary encoder type RI30, RI32, RI36, RI41, RI42, RI58, AC58	

speed max.	6.000 min ⁻¹
torque max.	80 Ncm
moment of inertia	8,7 gcm ²
torsion spring stiffness	8 Nm/rad
radial spring stiffness	36 N/mm
max. offset off shafts	angular ±4,0°
max. offset off shafts	radial ±0,25 mm axial ±0,4mm
max. clamping torque	120 Ncm
material	flange aluminum anodized
weight appr.	16 g
temperature range	-30°C ... +150°C



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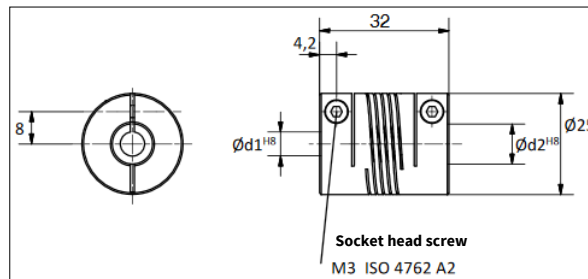
TECHNICAL DATASHEET
flexible couplings
**HELIX COUPLING
STAINLESS STEEL**


hub diameter	Part number
¹ 10/10 mm	3 520 090
10/12 mm	3 520 241

Suitable for rotary encoder type
RI59, AC58, AC61, RX71, AX71, AR63,
HD20, HD25

¹others on request

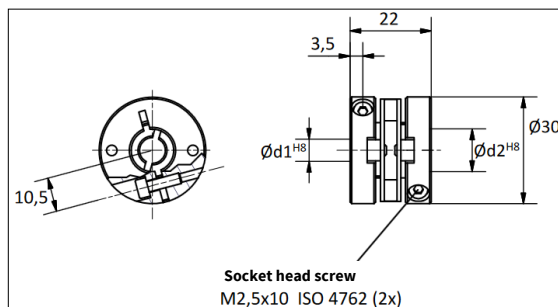
speed max.	6.000 min ⁻¹
torque max.	200 Ncm
moment of inertia	84 gcm ²
torsion spring stiffness	29 Nm/rad
radial spring stiffness	150 N/mm
max. offset off shafts angular	±4°
max. offset off shafts radial axial	±0,35 mm ±0,5 mm
max. clamping torque	150 Ncm
material	stainless steel 1.4104
weight appr.	88 g
temperature range	-30°C ... +180 °C

DRAWING

SPRING DISC COUPLING


hub diameter	Part number
5/6mm	3 520 080
6/6 mm	3 520 081
6/10 mm	3 520 082
6/9,53 mm	3 520 084
7/7 mm	3 520 086
10/10 mm	3 520 088

Suitable for rotary encoder type
RI30, RI32, RI36, RI41, RI42, RI58, AC58

speed max.	12.000 min ⁻¹
torque max.	60 Ncm
moment of inertia	35 gcm ²
max. offset off shaft angular	±2,5°
max. offset off shafts radial axial	±0,3 mm ±0,4 mm
torsion spring stiffness	30 Nm/rad
radial spring stiffness	40 N/mm
material flange membran	aluminum anodized polyamid 6.6, fiberglass reinforced
max. clamping torque	120 Ncm
temperature range	-10°C ... +80°C
weight appr.	30 g

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TECHNICAL DATASHEET

flexible couplings

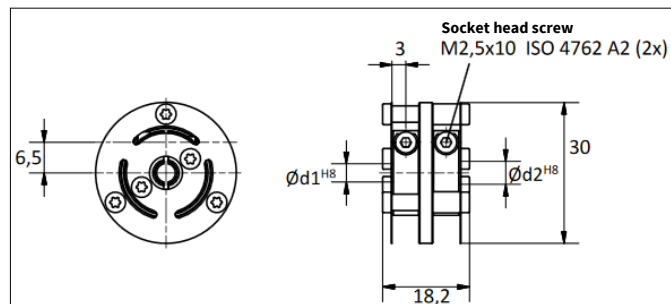
SPRING DISC COUPLING



hub diameter	Part number
d1 6/6H8 d2	0 070 663
d1 10/10 d2	3 520 092
Suitable for rotary encoder type RI36, RI 58, AC58	

speed max.	12.000 min ⁻¹
torque max.	80 Ncm
moment of inertia	19 gcm ²
torsion spring stiffness	150 Nm/rad
radial spring stiffness	6 N/mm
max. offset off shafts angular	±3,0°
max. offset off shafts radial	±0,4mm
max. offset off shafts axial	±0,4 mm
max. clamping torque	80 Ncm
material flange	aluminum, anodized
material spring disc	stainless steel
weight appr.	16 g
temperature range	-30°C ... +120°C

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