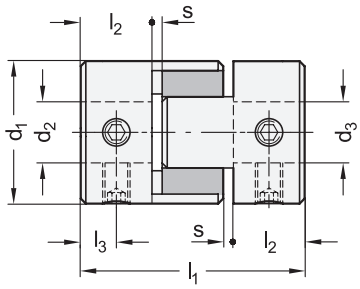
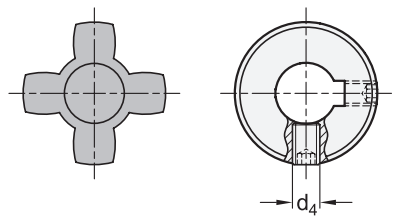
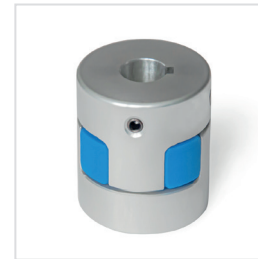
d_1 = 14...30



Coupling spider

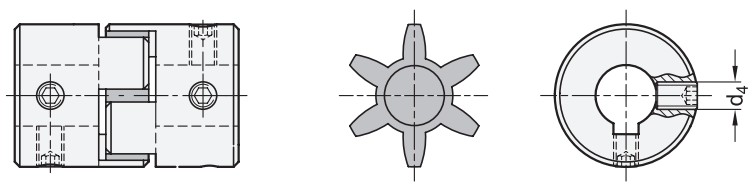




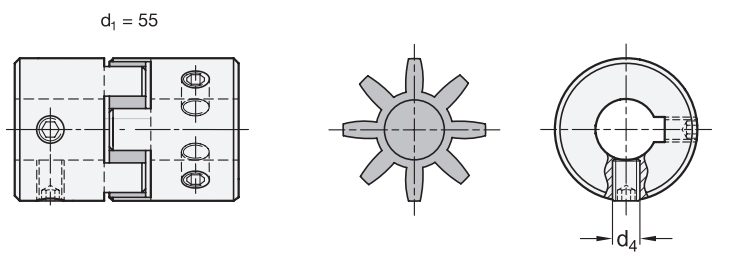
2 Bore code

B Without keyway
K With keyway (from d_1 = 30)

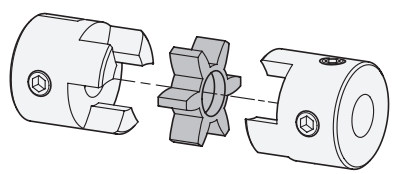
d_1 = 40



d_1 = 55



Assembly instruction



1 **3**

d_1	d_2 - d_3 H8 Recommended shaft tolerance h7									
14	3-3	3-4	3-5	3-6	4-4	4-5	4-6	5-5	5-6	6-6
20	5-5	5-6	5-8	6-6	6-8	8-8	-	-	-	-
30	8-8	8-10	8-12	8-14	10-10	10-12	10-14	12-12	12-14	14-14
40	12-12	12-14	12-15	12-16	14-14	14-15	14-16	15-15	15-16	16-16
55	18-18	18-19	18-20	18-25	19-19	19-20	19-25	20-20	20-25	25-25

d_1	d_4	l_1	l_2 Recommended shaft insertion depth	l_3	s Recommended installation spacing	Tightening torque of the screw in Nm ≈
14	M 3	22	7	3,5	1	0,7
20	M 3	30	10	5	1	0,7
30	M 4	35	11	5,5	1,5	1,7
40	M 5	66	25	8,5	2	4
55	M 6	78	30	10,5	2	7

d_1	Coupling spider	Shore hardness coupling spider	Rated torque in Nm	Max. torque in Nm	Max. speed (min^{-1})	Moment of inertia in kgm^2	Static torsional stiffness in Nm/rad	Max. shaft misalignment		
								Lateral in mm	Axial in mm	Angular in °
14	BS	80A	0,7	1,4	45.000	$2,0 \times 10^{-7}$	8	0,15	0,6	1
	WS	92A	1,2	2,4	45.000	$2,0 \times 10^{-7}$	14	0,1	0,6	1
	RS	98A	2	4	45.000	$2,0 \times 10^{-7}$	22	0,1	0,6	1
20	BS	80A	1,8	3,6	31.000	$1,1 \times 10^{-6}$	16	0,2	0,8	1
	WS	92A	3	6	31.000	$1,1 \times 10^{-6}$	29	0,15	0,8	1
	RS	98A	5	10	31.000	$1,1 \times 10^{-6}$	55	0,1	0,8	1
30	BS	80A	4	8	21.000	$6,2 \times 10^{-6}$	46	0,2	1	1
	WS	92A	7,5	15	21.000	$6,2 \times 10^{-6}$	73	0,15	1	1
	RS	98A	12,5	25	21.000	$6,2 \times 10^{-6}$	130	0,1	1	1
40	BS	80A	4,9	9,8	15.000	$3,7 \times 10^{-5}$	380	0,15	1,2	1
	WS	92A	10	20	15.000	$3,7 \times 10^{-5}$	570	0,1	1,2	1
	RS	98A	17	34	15.000	$3,7 \times 10^{-5}$	1200	0,1	1,2	1
55	BS	80A	17	34	11.000	$1,6 \times 10^{-4}$	1400	0,2	1,4	1
	WS	92A	35	70	11.000	$1,6 \times 10^{-4}$	1600	0,15	1,4	1
	RS	98A	60	120	11.000	$1,6 \times 10^{-4}$	2600	0,1	1,4	1

Specification

4 5

- Hub
  Aluminum **AL**
  Anodized, natural color
- Coupling spider
  Thermoplastic polyurethane (TPU)
  - Temperature resistant up to 60 °C
  - Hardness
    80 Shore A, blue **BS**
    92 Shore A, white **WS**
    98 Shore A, red **RS**
- Grub screws
  - Steel, blackened
  - For d_2 / d_3 ≤ 4, one grub screw
  - For d_2 / d_3 > 4, two grub screws
- Temperature range: -20 °C up to +60 °C
- *Keyway P9 DIN 6885 → Page 2078*
- *ISO Fundamental Tolerances → Page 2151*
- *Elastomer Characteristics → Page 2158*
- RoHS

Accessory

- Coupling Spiders GN 2240.1 → *Page 1692*

Information

Elastomer jaw couplings GN 2241 can transmit very high torques while compensating for shaft misalignments and runout tolerances. They are preferred in applications where the focus lies on pure torque and power transmission.

The choice of three coupling spiders with different hardness values allows the properties of the coupling to be optimally matched to the specific requirements. The use of grub screws for clamping and the simple plug-in installation make jaw couplings very easy to assemble.

With the bore code K, the keyway is always integrated into both bores d_2 and d_3.

see also...

- *Assembly Instructions on Couplings → Page 1694*
- *Technical Information on Couplings → Page 1696*
- *Elastomer Jaw Couplings GN 2240 (with Clamping Hub) → Page 1680*
- *Oldham Couplings GN 2243 (with Grub Screw) → Page 1686*

How to order

1 2 3 4 5
GN 2241-30-B10-10-AL-BS

1	d_1
2	Bore code
3	d_2 - d_3
4	Material
5	Hardness