



KTR Precision joints with plain or needle bearing

KTR universal joints are connection elements of highest quality and accuracy to connect two shafts. A maximum articulation angle of up to 45° for each joint is admissible.

The precision joints type G with plain bearing are suitable for speeds up to 1000 1/min, precision joints type H with maintenance-free needle bearing for speeds up to 4000 1/min.

This production procedure allows a high precision with positive effects on the bearing clearance, concentric running and a long service life. The KTR precision joints are available as single, double and extendable joints.

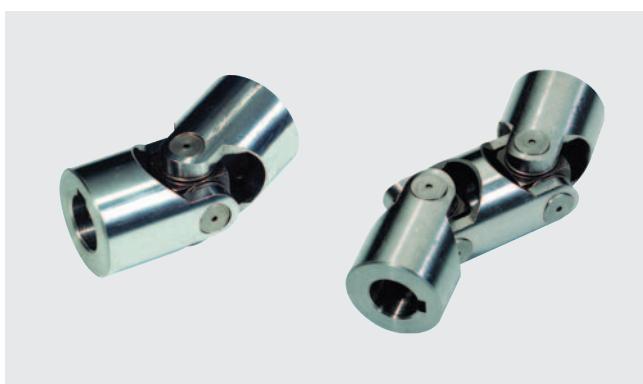
Included in our delivery programme are furthermore quick locking joints with plain and needle bearing as single joints.

KTR Precision joints

according to DIN 808 with needle bearing

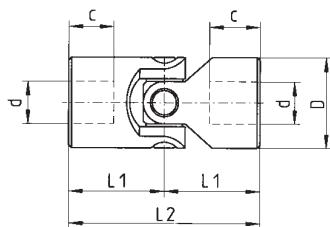
Type H and HD

For advanced
drive
technology

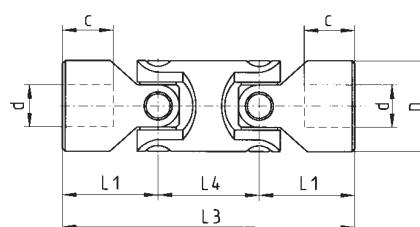


- Suitable for every application in the range of general engineering up to a maximum speed of 4000 min⁻¹
- Type H precision single joint
- Type HD precision double joint
- Maximum articulation angle 45°
- High dynamic load - small bearing clearance
- Maintenance-free due to needle bearing
- Available with finish bore H7 - on request with keyway, hexagon bore or square bore

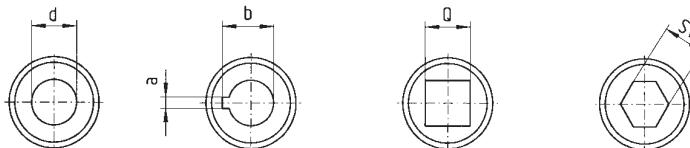
Precision single joint H



Precision double joint HD



Finish bores:



Types and size				d [H7]	D	L ₂	L ₁	C	L ₄	L ₃	a [JS9]	b	Q [H8]	SW [H8]	Weight	
Size H	DIN description H	Size HD	DIN description HD												H	HD
03 H	E10 x 22-W	03HD	D10 x 22-W	10	22	48	24	12	26	74	3	11,4	10	10	0,10	0,15
04 H	E12 x 25-W	04HD	D12 x 25-W	12	25	56	28	13	30	86	4	13,8	12	12	0,16	0,25
05 H	E14 x 28-W	05HD	D14 x 28-W	14	28	60	30	13	36	96	5	16,3	14	14	0,20	0,40
1 H	E16 x 32-W	1HD	D16 x 32-W	16	32	68	34	16	36	104	5	18,3	16	16	0,30	0,45
2 H	E18 x 36-W	2HD	D18 x 36-W	18	36	74	37	17	40	114	6	20,8	18	18	0,45	0,70
3 H	E20 x 42-W	3HD	D20 x 42-W	20	42	82	41	18	46	128	6	22,8	20	20	0,60	1,00
4 H	E22 x 45-W	4HD	D22 x 45-W	22	45	95	47,5	22	50	145	6	24,8	22	22	0,95	1,55
5 H	E25 x 50-W	5HD	D25 x 50-W	25	50	108	54	26	55	163	8	28,3	25	25	1,20	2,00
6 H	E30 x 58-W	6HD	D30 x 58-W	30	58	122	61	29	68	190	8	33,3	30	30	1,85	2,90
6 H1	E32 x 58-W	6HD1	D32 x 58-W	32	58	130	65	33	68	198	10	35,3	30	30	2,00	3,00
7 H	E35 x 70-W	7HD	D35 x 70-W	35	70	140	70	35	72	212	10	38,3	35	—	3,15	4,75
8 H	E40 x 80-W	8HD	D40 x 80-W	40	80	160	80	40	85	245	12	43,3	40	—	4,60	7,20
9 H	E50 x 95-W	9HD	D50 x 95-W	50	95	190	95	50	100	290	14	53,8	50	—	7,60	12,0

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Order form:

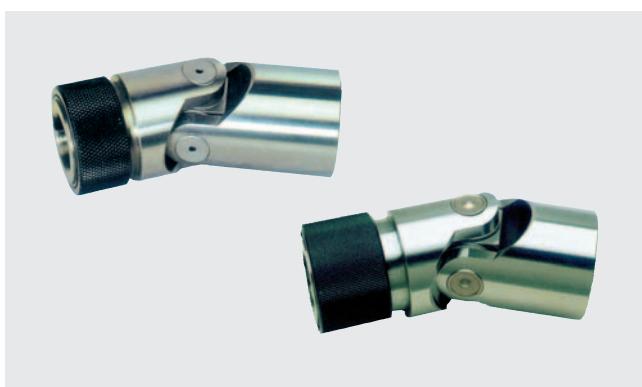
1H	Ø 16	Ø 16 keyway to DIN
Size/type of joint	Finish bore (H7)	Finish bore (H7) keyway to DIN 6885 sheet 1 (JS 9)

KTR Precision joints

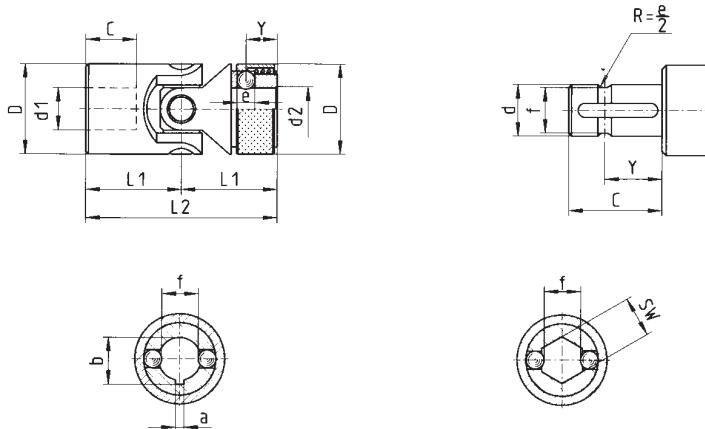
with quick locking

Type GR and HR/Protection muffs

For advanced drive technology **KTR**

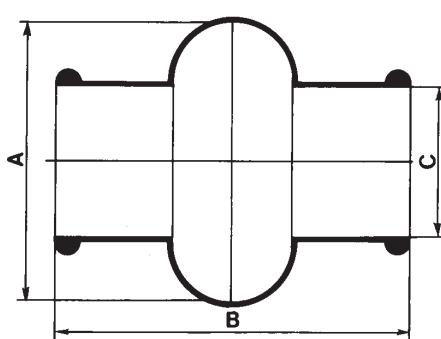


- Precision single joint with quick locking (separable)
- Type GR with plain bearing $n_{\max} = 1000 \text{ min}^{-1}$
- Type HR with needle bearing $n_{\max} = 4000 \text{ min}^{-1}$
- Maximum articulation angle 45°
- Quick locking (d_2) only available with H7 bore and keyway to DIN 6885 sheet 1 - JS9 or hexagon bore



Type GR with plain bearing $n_{\max} 1000 \text{ min}^{-1}$				Type HR with needle bearing $n_{\max} 4000 \text{ min}^{-1}$								
Size		d_1 d_2	D	L2	L1	C	Y	e	f	a [JS9]	b	SW [H8]
GR	HR											
02GR	-	8	16	52	26	14	9,5	3,5	7	2	9	8
03GR	03HR	10	22	62	31	17	11,5	4	8,7	3	11	10
04GR	04HR	12	25	74	37	21	13,5	4	11	4	13,3	12
1GR	1HR	16	32	86	43	24	14	6,35	14,8	5	17,3	16
3GR	3HR	20	42	108	54	31	19	8	18	6	22,3	20
5GR	5HR	25	50	132	66	38	20,5	10	23	8	28,3	25
6GR	6HR	30	58	166	83	49	25	10	28	8	33,3	30

Protection muffs for joints type G; H; GA; HA



Size	Joints	A	B	C
M 01	01G; 02G	28	34	15
M 02	-	32	40	16,5
M 03	09G; 03H; GA; HA	40	45	20,5
M 04	04G; 04H; GA; HA	48	50	24,5
M 05	05G; 05H; GA; HA	52	56	27,5
M 1	1G; 1H; GA; HA	56	65	30,5
M 2	2G; 2H; GA; HA	66	72	35,5
M 3	3G; 3H; GA; HA	75	82	40
M 4	4G; 4H; GA; HA	84	95	45
M 5	5G; 5H; GA; HA	92	108	50
M 6	6G; 6G1; 6H; 6H1; GA; HA	100	122	56

Order form:

03 HR	$d_1 = \emptyset 10$	$d_2 = \emptyset 10$ keyway DIN
Size / type of joint	Finish bore (H7)	Finish bore (H7) Keyway to DIN 6885 sheet 1 (JS9) – only available with keyway or as hexagon bore –

