

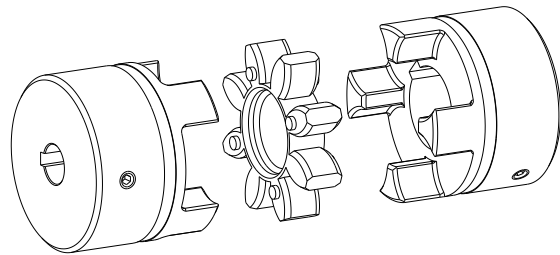


ROTEX® GS

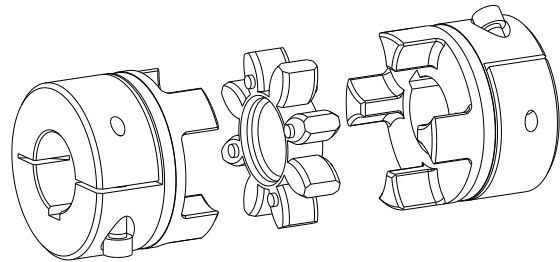
Torsionally flexible jaw couplings
type

shaft coupling,
clamping hubs,
Compact,
clamping ring hubs light,
clamping ring hubs,
DKM and their combinations

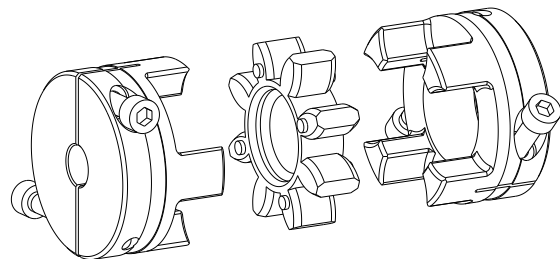
according to directive 2014/34/EU



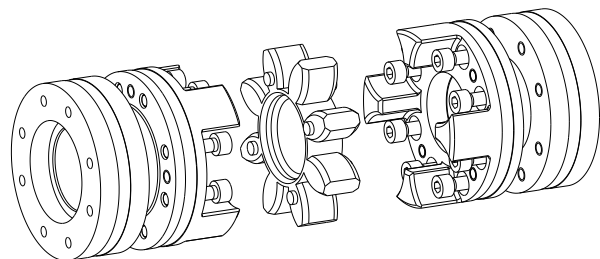
ROTEX® GS, shaft coupling



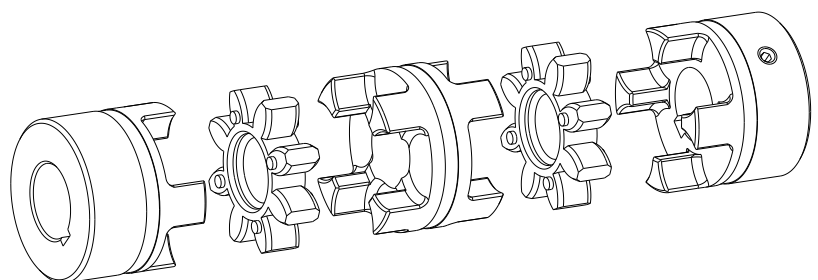
ROTEX® GS, clamping hubs



ROTEX® GS, Compact



ROTEX® GS, clamping ring hubs light
ROTEX® GS, clamping ring hubs steel
ROTEX® GS, clamping ring hubs

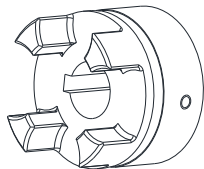


ROTEX® GS, DKM



1 Technical data

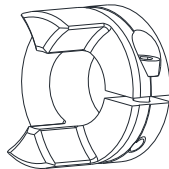
1.1 Types of hubs



Type 1.0
Hub with feather keyway and setscrew

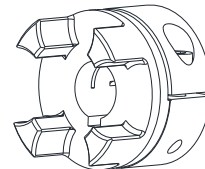
Type 1.1 ¹⁾
Hub without feather keyway, with setscrew

Type 1.2 ²⁾
Hub without feather keyway, without setscrew



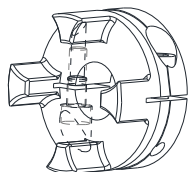
Type 2.0 ¹⁾
Clamping hub single slot without feather keyway (up to size 14 standard)

Type 2.1
Clamping hub single slot with feather keyway (up to size 14 standard)



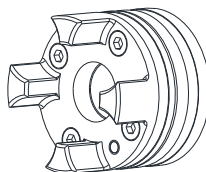
Type 2.5 ¹⁾
Clamping hub double slot without feather keyway (from size 19 standard)

Type 2.6
Clamping hub double slot with feather keyway (from size 19 standard)



Type 2.8 (Compact) ¹⁾
Short clamping hub C with axial slot, without feather keyway (from size 24 standard) (size 7 - 19 single slot)

Type 2.9 (Compact)
Short clamping hub C with axial slot, with feather keyway (from size 24 standard) (size 7 - 19 single slot)



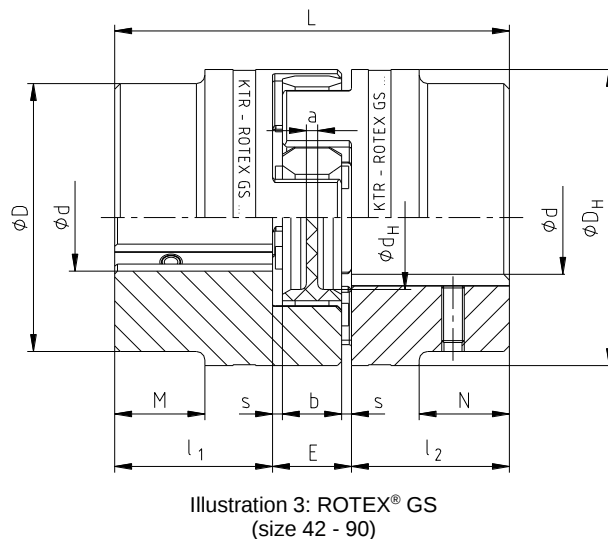
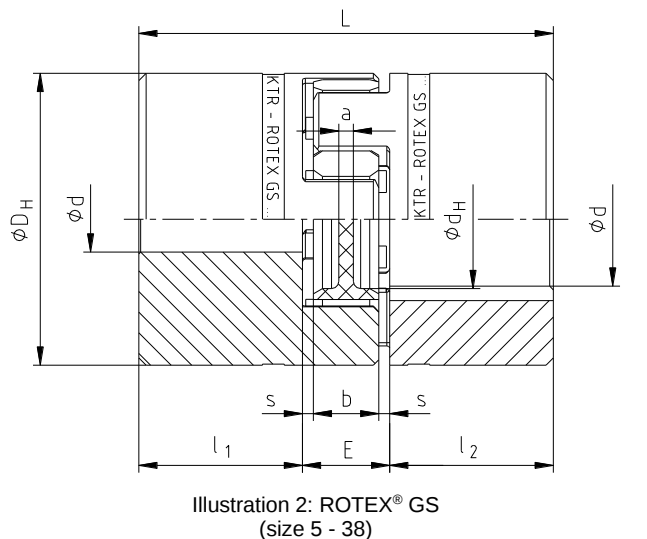
Type 6.0 light
Clamping ring hub light (size 14 - 48)

Type 6.0 (steel)
Clamping ring hub steel (size 19 - 90)

Type 6.0 ³⁾
Clamping ring hub (size 14 - 38)

Illustration 1: Types of hubs

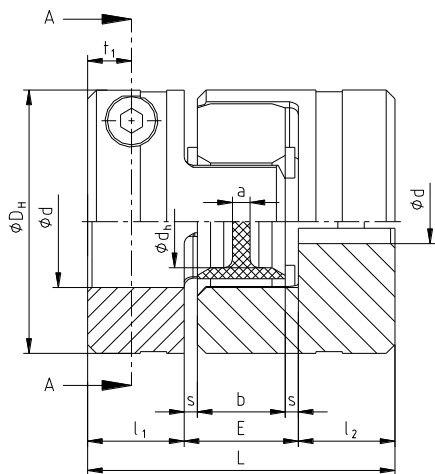
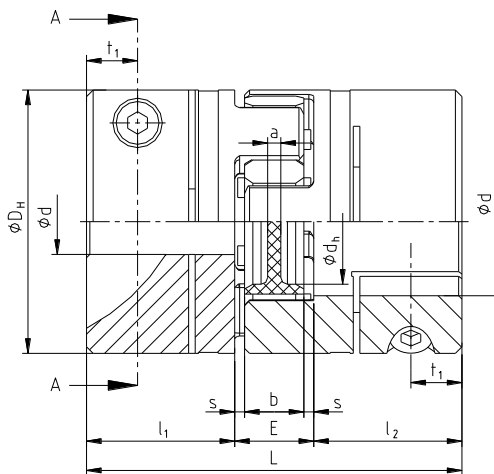
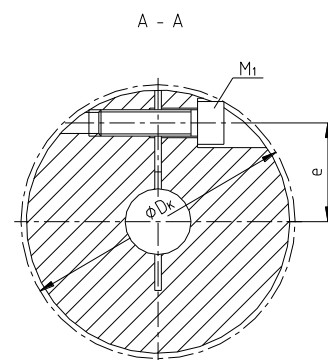
- 1)  Hubs, clamping hubs or similar types without feather keyway may be used in category 3 only and are marked with category 3 accordingly.
- 2)  Hub type 1.2 is not approved for potentially explosive atmospheres!
- 3) Hub material - aluminium (Al-H); clamping ring material - steel


1 Technical data
1.3 Coupling dimensions
Standard shaft coupling


Please refer to table 1 for torques and table 2 for finish bores.

Table 3: Dimensions - Standard shaft coupling

Size	Dimensions [mm]										Setscrew DIN EN ISO 4029	
	D	D _H	d _H	L	l ₁ , l ₂	M, N	E	b	s	a	G	t
Hub material - aluminium												
5	-	10	-	15	5	-	5	4	0.5	4.0	M2	2.5
7	-	14	-	22	7	-	8	6	1.0	6.0	M3	3.5
9	-	20	7.2	30	10	-	10	8	1.0	1.5	M4	5.0
12	-	25	8.5	34	11	-	12	10	1.0	3.5	M4	5.0
14	-	30	10.5	35	11	-	13	10	1.5	2.0	M4	5.0
19	-	40	18	66	25	-	16	12	2.0	3.0	M5	10
24	-	55	27	78	30	-	18	14	2.0	3.0	M5	10
28	-	65	30	90	35	-	20	15	2.5	4.0	M8	15
38	-	80	38	114	45	-	24	18	3.0	4.0	M8	15
Hub material - steel												
42	85	95	46	126	50	28	26	20	3.0	4.0	M8	20
48	95	105	51	140	56	32	28	21	3.5	4.0	M8	20
55	110	120	60	160	65	37	30	22	4.0	4.5	M10	20
65	115	135	68	185	75	47	35	26	4.5	4.5	M10	20
75	135	160	80	210	85	53	40	30	5.0	5.0	M10	25
90	160	200	104	245	100	62	45	34	5.5	6.5	M12	30


1 Technical data
1.3 Coupling dimensions
Clamping hubs

 Illustration 4: ROTEX® GS
 hub type 2.0 (from size 5 - 14)

 Illustration 5: ROTEX® GS
 hub type 2.5 (from size 19 - 90)


Please refer to table 1 for torques and table 2 for finish bores.

Table 4: Dimensions - clamping hubs

Size	Dimensions ³⁾ [mm]										Clamping screw DIN EN ISO 4029 (ROTEX® GS 5 - DIN EN ISO 1207)				
	D	D _H	d _H	L	l ₁ , l ₂	M, N	E	b	s	a	M ₁	t ₁	e	D _K	T _A [Nm]
Hub material - aluminium															
5	-	10	-	15	5	-	5	4	0.5	4.0	M1.2	2.5	3.5	11.4	- ¹⁾
7	-	14	-	22	7	-	8	6	1.0	6.0	M2	3.5	5.0	16.5	0.37
9	-	20	7.2	30	10	-	10	8	1.0	1.5	M2.5	5.0	7.5	23.4	0.76
12	-	25	8.5	34	11	-	12	10	1.0	3.5	M3	5.0	9.0	27.5	1.34
14	-	30	10.5	35	11	-	13	10	1.5	2.0	M3	5.0	11.5	32.2	1.34
19	-	40	18	66	25	-	16	12	2.0	3.0	M6 ²⁾	11.0	14.5 ²⁾	46.0	10.5 ²⁾
24	-	55	27	78	30	-	18	14	2.0	3.0	M6	10.5	20.0	57.5	10.5
28	-	65	30	90	35	-	20	15	2.5	4.0	M8	11.5	25.0	73.0	25
38	-	80	38	114	45	-	24	18	3.0	4.0	M8	15.5	30.0	83.5	25
Hub material - steel															
42	85	95	46	126	50	28	26	20	3.0	4.0	M10	18	32.0	93.5	69
48	95	105	51	140	56	32	28	21	3.5	4.0	M12	21	36.0	105.0	120
55	110	120	60	160	65	37	30	22	4.0	4.5	M12	26	42.5	119.5	120
65	115	135	68	185	75	47	35	26	4.5	4.5	M12	33	45.0	124.0	120
75	135	160	80	210	85	53	40	30	5.0	5.0	M16	36	51.0	147.5	295
90	160	200	104	245	100	62	45	34	5.5	6.5	M20	40	60.0	176.0	580

1) Slotted screw, tightening torque not defined

 2) Size 19: Bore Ø22 - Ø24 with 2-off clamping screws M4, T_A = 2.9 Nm and dimension e = 15.0

3) Transmittable friction torques of clamping hubs see table 5



4 Assembly

The coupling is generally supplied in individual parts. Before assembly the coupling has to be inspected for completeness.

4.1 Components of the coupling

Features of standard spiders

Spider hardness (Shore)	Increasing hardness 						
	80 ShA-GS (blue)	92 ShA-GS (yellow)	98 ShA-GS (red)	64 ShD-H-GS (green)	64 ShD-GS (green)	72 ShD-H-GS (grey)	72 ShD-GS (grey)
Size	5 - 24	5 - 55	5 - 90	7 - 38	42 - 90	24 - 38	42 - 90
Material	Polyurethane	Polyurethane	Polyurethane	Hytrel	Polyurethane	Hytrel	Polyurethane
Marking (colour)							

Components of ROTEX® GS, hub type 1.0, 1.1 or 1.2

Component	Quantity	Description
1	2	Hub
2	1	Spider
3	2	Setscrew DIN EN ISO 4029

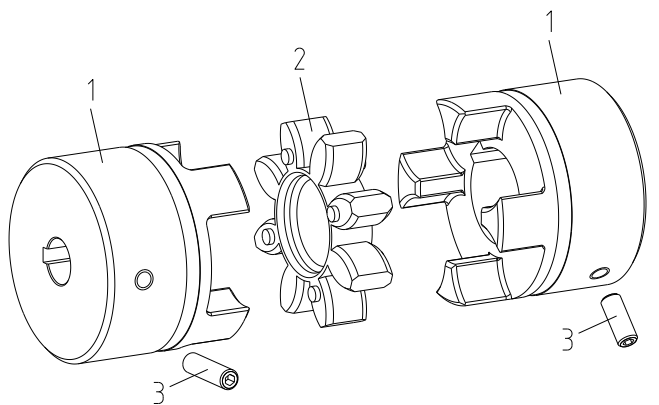


Illustration 12: ROTEX® GS
(size 5 - 38)

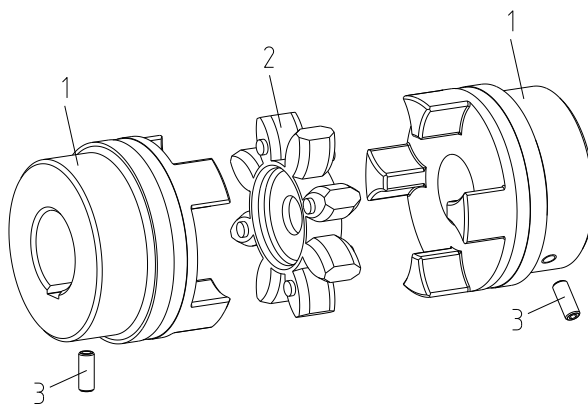


Illustration 13: ROTEX® GS
(size 42 - 90)



Hubs, clamping hubs or similar types without feather keyway may be used in category 3 only and are marked with category 3 accordingly.
Hub type 1.2 is not approved for potentially explosive atmospheres!



4 Assembly

4.1 Components of the coupling

Components of ROTEX® GS clamping hubs, hub type 2.0, 2.1, 2.5 or 2.6

Component	Quantity	Description
1	2	Clamping hub
2	1	Spider
3	2	Cap screw DIN EN ISO 4762

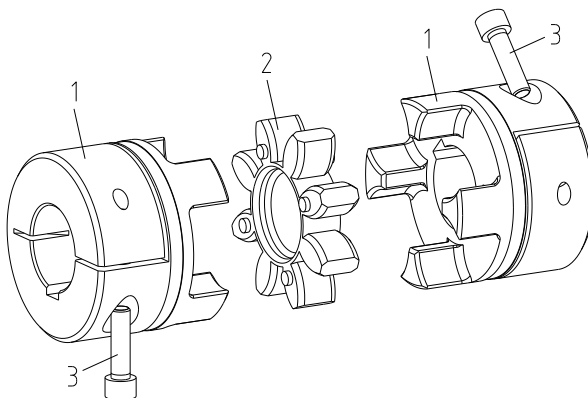


Illustration 14: ROTEX® GS clamping hub



Hubs, clamping hubs or similar types without feather keyway may be used in category 3 only and are marked with category 3 accordingly.

Components of ROTEX® GS Compact, hub type 2.8 or 2.9

Component	Quantity	Description
1	2	Clamping hub C
2	1	Spider
3	2 / 4	Cap screw DIN EN ISO 4762

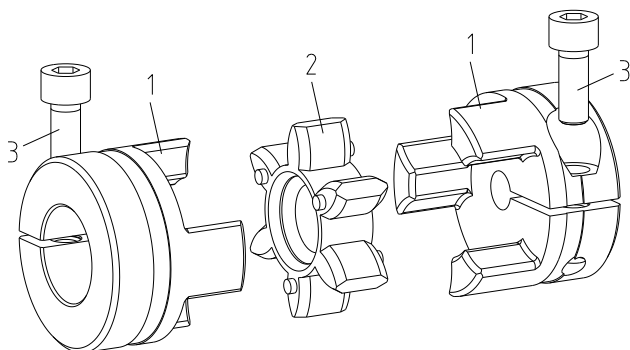


Illustration 15: ROTEX® GS Compact
(size 7 - 19)

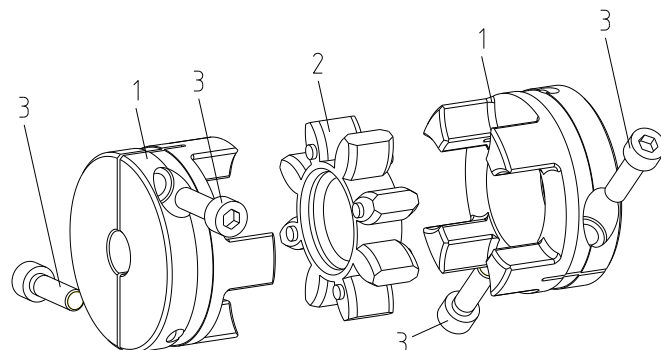


Illustration 16: ROTEX® GS Compact
(size 24 - 38)



Hubs, clamping hubs or similar types without feather keyway may be used in category 3 only and are marked with category 3 accordingly.