

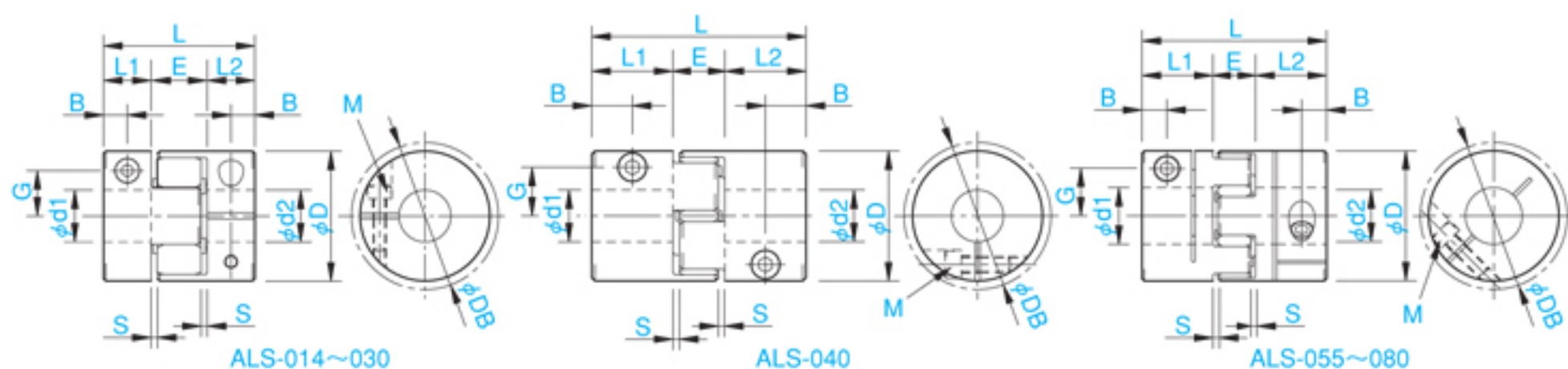
Clamp type

Specification

Model	Torque		Max. permissible misalignment			Max. rotation speed [min ⁻¹]	Torsional stiffness [N·m/rad]	Radial displacement [N/mm]	Moment of inertia [kg·m ²]	Mass [kg]	Price
	Normal [N·m]	Max. [N·m]	Parallel offset [mm]	Angular misalignment [°]	Axial displacement [mm]						
ALS-014-Y	1.2	2.4	0.10	1	0~+0.6	10000	12	200	1.98×10 ⁻⁷	0.007	—
ALS-020-Y	3	6	0.15	1	0~+0.8	10000	24	210	1.09×10 ⁻⁶	0.019	—
ALS-030-Y	7.5	15	0.15	1	0~+1.0	10000	73	330	6.19×10 ⁻⁶	0.045	—
ALS-040-Y	10	20	0.10	1	0~+1.2	10000	760	940	4.01×10 ⁻⁵	0.16	—
ALS-055-Y	35	70	0.15	1	0~+1.4	7000	1400	1160	1.63×10 ⁻⁴	0.34	—
ALS-065-Y	95	190	0.15	1	0~+1.5	5900	2100	1200	3.69×10 ⁻⁴	0.54	—
ALS-080-Y	190	380	0.15	1	0~+1.8	4800	4000	1430	1.04×10 ⁻³	1.00	—
ALS-014-R	2	4	0.1	1	0~+0.6	10000	21	380	1.98×10 ⁻⁷	0.007	—
ALS-020-R	5	10	0.1	1	0~+0.8	10000	43	400	1.09×10 ⁻⁶	0.019	—
ALS-030-R	12.5	25	0.1	1	0~+1.0	10000	136	650	6.19×10 ⁻⁶	0.045	—
ALS-040-R	17	34	0.1	1	0~+1.2	10000	1550	1700	4.01×10 ⁻⁵	0.16	—
ALS-055-R	60	120	0.1	1	0~+1.4	7000	2000	1350	1.63×10 ⁻⁴	0.34	—
ALS-065-R	160	320	0.1	1	0~+1.5	5900	3100	1400	3.69×10 ⁻⁴	0.54	—
ALS-080-R	325	650	0.1	1	0~+1.8	4800	6000	1710	1.04×10 ⁻³	1.00	—
ALS-055-B	60	120	0.22	1	-0.2~+1.4	7000	—	—	1.63×10 ⁻⁴	0.34	—
ALS-065-B	160	320	0.25	1	-0.6~+1.5	5900	—	—	3.69×10 ⁻⁴	0.54	—
ALS-080-B	325	650	0.28	1	-0.9~+1.8	4800	—	—	1.04×10 ⁻³	1.00	—

- * The spring constant values are measured at 20 °C.
- * The indicated values in the moment of inertia and mass are measured with the maximum bore diameter.
- * Dynamic balance is not considered for the maximum rotation speed.
- * ALS-Y-R type's minus axial displacements in the maximum permissible misalignment are not allowed.
- * The allowable transmission torque of the clamp type may be restricted by the hole diameter. Refer to "Standard hole diameter and allowable transmission torque" on page 60.

Dimensions

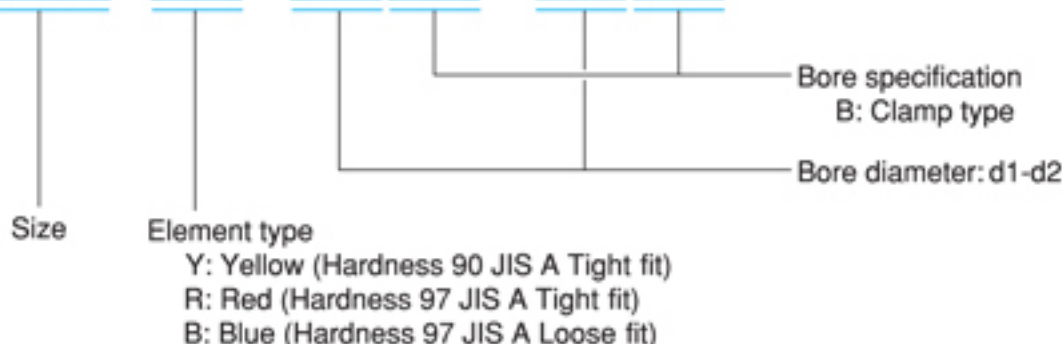


Model	d1 · d2		D	DB	L	L1 · L2	E	S	B	G	M	Tightening torque [N·m]	CAD file No.
	Min.	Max.											
ALS-014	3	6	14	16.1	22	7	8	1	3.5	4.8	M2	0.4	ALS-BB1
ALS-020	4	8	20	20	30	10	10	1	5	6.5	M2.5	1	ALS-BB2
ALS-030	6	14	30	30	35	11	13	1.5	5.5	10.5	M3	1.5	ALS-BB3
ALS-040	8	20	40	43.2	66	25	16	2	12.5	15	M5	7	ALS-BB4
ALS-055	10	28	55	55	78	30	18	2	10.5	20	M6	14	ALS-BB5
ALS-065	14	35	65	69.8	90	35	20	2.5	11.5	24.5	M8	30	ALS-BB6
ALS-080	19	45	80	80	114	45	24	3	11.5	30	M8	30	ALS-BB7

The DB dimension is applicable when the head of the clamp bolt is larger than the hub outer diameter.

Ordering Information

ALS - 040 - R - 14 B - 15 B



Standard bore diameter and permissible transmission torque for the clamp type

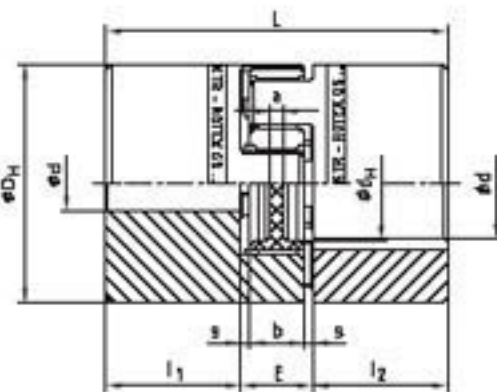
Model	Standard bore diameter d1-d2 [mm] permissible transmission torque [N·m]																						
	3	4	5	6	6.35	7	8	10	11	12	14	15	16	18	19	20	22	24	25	28	30	35	42
ALS-014	0.31	0.42	0.54	0.65																			
ALS-020		1.2	1.6	2.1	2.2	2.6	3.0																
ALS-030				2.0	2.2		3.4	4.7	5.4	6.0	7.4												
ALS-040							8	16		23	31	34	34		34								
ALS-055												38	41	48	51	54	61	67	71	80			
ALS-065																61	68	75	79	89	96	114	
ALS-080																				108	121	151	194

- * The bore diameters with a value are supported as standard bore diameters.
- * The permissible transmission torque of the shaft diameter with a value is limited by the holding power at the shaft fixing mechanism. The value indicates the permissible transmission torque [N·m].
- * The range of bore diameters that can be supported is from the minimum diameter to the maximum diameter in the table. For bore diameters other than above, contact us for separate arrangement.

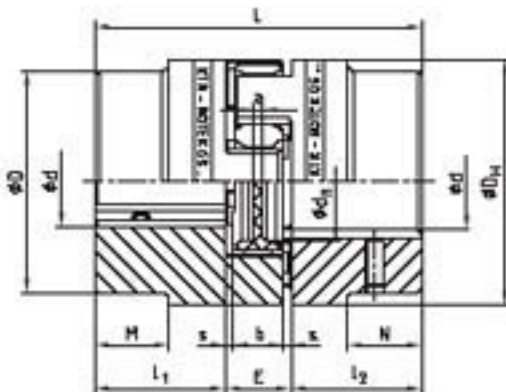
MONITEX®
coupling monitoring
p. 274
NEW



- Backlash-free shaft connection under prestress for spindle drives, elevating platforms, machine tool drives, etc.
- Single cardanic coupling in three parts
- Axial plug-in ability - easy blind assembly, without any time-consuming screw connections
- Small dimensions - low flywheel mass
- Maintenance-free, easy to check visually
- Different elastomer hardness of spiders
- Available from stock for all usual shaft dimensions
- Finish bore acc. to ISO fit H7 (apart from clamping hub), keyway, from Ø 6 mm acc. to DIN 6885 sheet 1 - JS9
- Ex Approved according to EC Standard 94/9/EC (only for hub design 1.0 and 2.1/2.6)
- Basic programme see page 107

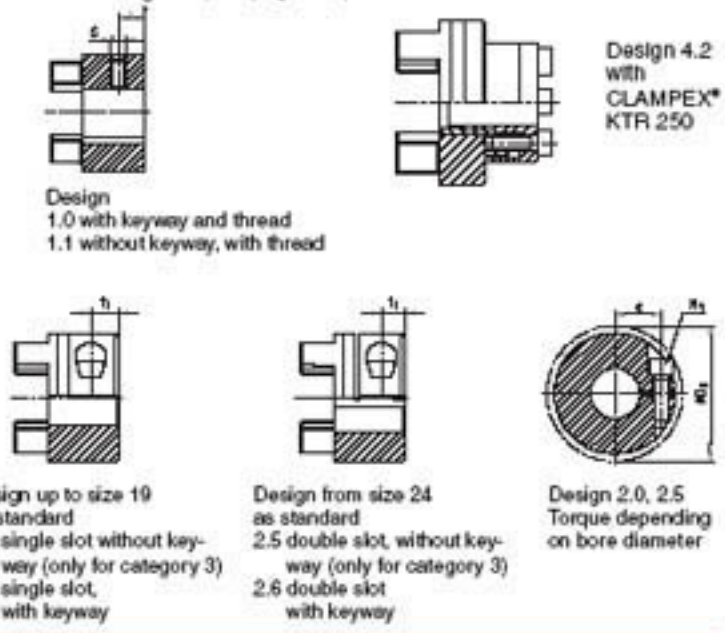


ROTEX® GS 5 - 38



ROTEX® GS 42 - 75

Hub designs: (see page 106)



Size	Un-bored	Finish 1) bores		Dimensions [mm]										Setscrew		Clamping screws				
		d _{min.}	d _{max.}	D	D _H	d _H	L	l ₁ , l ₂	M, N	E	b	s	a	G	t	M ₁	t ₁	e	D _K	T _A [Nm]
Hub material - Aluminium (Al-H)																				
19	●	6	24	-	40	18	66	25	-	16	12	2,0	3,0	M5	10	M6	12,0	14,5	46	10,5
24	●	8	28	-	55	27	78	30	-	18	14	2,0	3,0	M5	10	M6	10,5	20,0	57	10,5
28	●	10	38	-	65	30	90	35	-	20	15	2,5	4,0	M8	15	M8	11,5	25,0	73	25
38	●	12	45	-	80	38	114	45	-	24	18	3,0	4,0	M8	15	M8	15,5	30,0	83	25
Hub material - (Steel St-H)																				
42	●	14	55	85	95	46	126	50	28	26	20	3,0	4,0	M8	20	M10	18	32,0	94	69
48	●	15	62	95	105	51	140	56	32	28	21	3,5	4,0	M8	20	M12	21	36,0	105	120
55	●	20	74	110	120	60	160	65	37	30	22	4,0	4,5	M10	20	M12	26	42,5	120	120
65	●	22	80	115	135	68	185	75	47	35	26	4,5	4,5	M10	20	M12	33	45,0	124	120
75	●	30	95	135	160	80	210	85	53	40	30	5,0	5,0	M10	25	M16	36	51,0	147,5	295

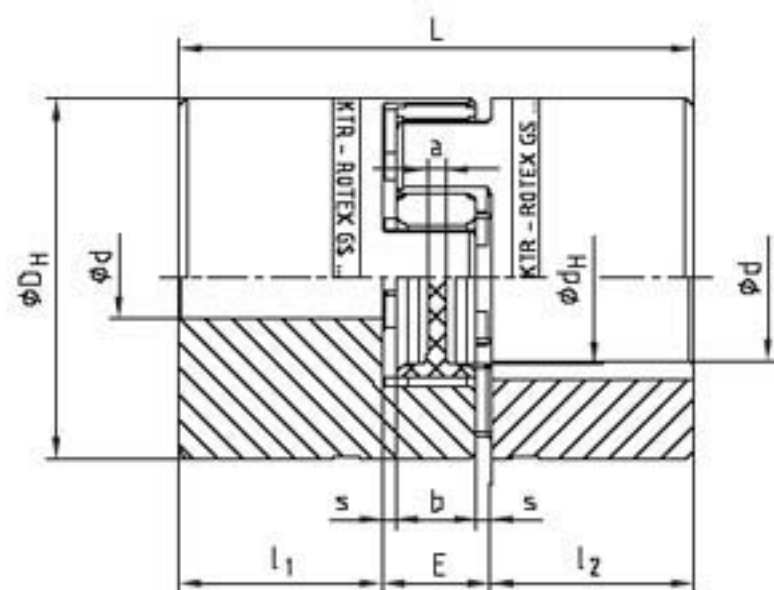
Size	Bores and the corresponding transmittable torques of the clamping hub design 2.0/2.5 [Nm]																													
	Ø8	Ø10	Ø11	Ø14	Ø15	Ø16	Ø18	Ø19	Ø20	Ø22	Ø24	Ø25	Ø28	Ø30	Ø32	Ø35	Ø38	Ø40	Ø42	Ø45	Ø48	Ø50	Ø55	Ø60	Ø65	Ø70	Ø75	Ø80		
19	25	27	27	29	30	31	32	32	34	30 ²⁾	32 ²⁾																			
24		34	35	36	38	38	39	40	41	42	43	45	46																	
28				80	81	81	84	85	87	89	91	92	97	99	102	105	109													
38					92	94	97	98	99	102	104	105	109	112	113	118	122	123	126	130										
42										232	238	244	246	255	260	266	274	283	288	294	301	309								
48												393	405	413	421	434	445	454	462	473	486	494	514							
55														473	486	498	507	514	526	539	547	567	587	608						
65																507	518	526	535	547	559	567	587	608	627	648				
75																			1102	1124	1148	1183	1201	1239	1278	1316	1354	1393		

1) depending on hub design 2) 2 x clamping screw M4

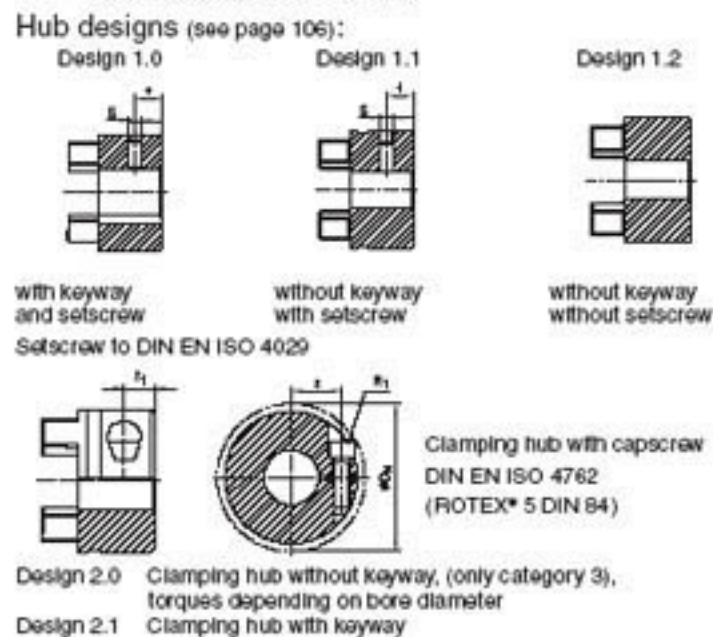
Miniature couplings



- Backlash-free shaft connections for measurement drive with small torques
- Single cardanic coupling in three parts
- Axial plug-in ability - easy blind assembly, without any time-consuming screw connections
- Small dimensions - low flywheel mass
- Maintenance-free, easy to check visually
- Different elastomer hardness of spiders
- Available from stock for all usual shaft dimensions
- Finish bore acc. to ISO fit H7 (apart from clamping hub), keyway, from $\varnothing 6$ mm acc. to DIN 6885 sheet 1 - JS9
- Approved according to EC Standard 94/9/EC (only for hub design 1.0 and 2.1)
- Basic programme see page 107



Hub designs (see page 106):



Size	Finish bore				Dimensions [mm]									Setscrew		Clamping screw			
	d_{min}	1.0 d_{max}	1.1, 1.2 d_{max}	2.0, 2.1 d_{max}	D_H	d_H	L	l_1, l_2	E	b	s	a	G	t	M_1	t_1	e	$\varnothing D_K$	T_A [Nm]
Hub material - Aluminium (Al - H)																			
5	2	-	5	5	10	-	15	5	5	4	0,5	4,0	M2	2,5	M1,2	2,5	3,5	11,4	-
7	3	7	7	7	14	-	22	7	8	6	1,0	6,0	M3	3,5	M2	3,5	5,0	16,5	0,37
9	4	10	11	11	20	7,2	30	10	10	8	1,0	1,5	M4	5,0	M2,5	5,0	7,5	23,4	0,76
12	4	12	12	12	25	8,5	34	11	12	10	1,0	3,5	M4	5,0	M3	5,0	9,0	27,5	1,34
14	5	15	16	16	30	10,5	35	11	13	10	1,5	2,0	M4	5,0	M3	5,0	11,5	32,2	1,34

Size	Bores and the corresponding transmittable torques of the clamping hub design 2.0 [Nm]														
	$\varnothing 2$	$\varnothing 3$	$\varnothing 4$	$\varnothing 5$	$\varnothing 6$	$\varnothing 7$	$\varnothing 8$	$\varnothing 9$	$\varnothing 10$	$\varnothing 11$	$\varnothing 12$	$\varnothing 14$	$\varnothing 15$	$\varnothing 16$	
5	*	*	*	*											
7		0,8	0,9	0,95	1,00	1,10									
9			2,1	2,2	2,3	2,4	2,5	2,6	2,7	2,8					
12			3,6	3,8	4,0	4,1	4,3	4,5	4,7	4,8	5,0				
14				4,7	4,8	5,0	5,1	5,3	5,5	5,6	5,8	6,1	6,3	6,5	

Other designs

ROTEX® GS for hollow shaft connections

