

Additional preferred bores for ROBA®-ES with clamping hubs /clamping hubs Compact/split clamping hubs Sizes 14 – 38

Technical Data and Main Dimensions					Size									
					14			19			24		28	
ROBA®-ES with clamping hubs Type 94...00...	Standard bore range ^{1) 2)}	d ₃ ^{F7} [mm]	6 – 15			10 – 20			15 – 28		19 - 35		20 – 45	
	Additional preferred bores ^{1) 2)}	d ₃ ^{F7} [mm]	-	-	16	22	24	25	30	32	36	38	-	
	Tightening torque clamping screws	T _A [Nm]	-	-	1.4	8			10		25		-	
ROBA®-ES with clamping hubs Compact Type 94...55...	Standard bore range ^{1) 2)}	d ₃ ^{F7} [mm]	5 – 12			8 – 20			10 – 32		14 – 35		15 – 45	
	Additional preferred bores ^{1) 2)}	d ₃ ^{F7} [mm]	14	15	16	22	24	25	-	-	36	-	-	
	Tightening torque clamping screws	T _A [Nm]	3			8			-		25		-	-
ROBA®-ES with split clamping hubs Type 94...33...	Standard bore range ^{1) 2)}	d ₃ ^{H7} [mm]	8 – 15			8 – 20			10 – 28		14 – 35		18 – 45	
	Additional preferred bores ^{1) 2)}	d ₃ ^{H7} [mm]	-	-	16	22	24	25	30	32	36	38	-	
	Tightening torque clamping screws	T _A [Nm]	-	-	3	8			10		25		-	

Mass Moments of Inertia J [10⁻³ kgm²] ^{3) 4)}

Size		14	19	24	28	38
Clamping hub	Type 94...00...	0.0025	0.0256	0.0737	0.1618	0.481
Single-joint short	Type 940...00...	0.0055	0.0524	0.1541	0.339	1.004
Clamping hub Compact	Type 94...55...	0.0032	0.0198	0.0501	0.12	0.328
Single-joint short	Type 940...55...	0.0069	0.0408	0.1069	0.2554	0.698
Split clamping hub	Type 94...33...	0.0055	0.0245	0.074	0.174	0.5003
Single-joint short	Type 940...33...	0.0115	0.0502	0.1547	0.3634	1.0426

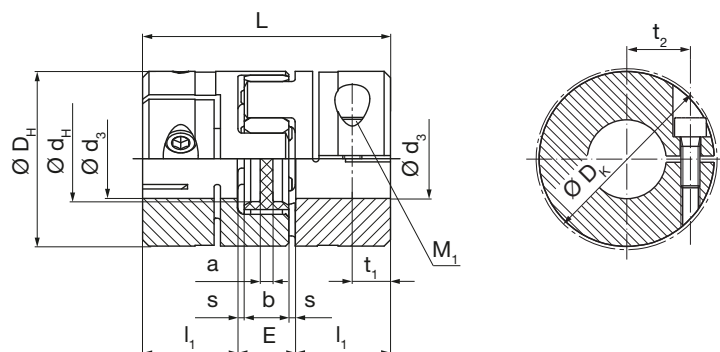
Frictionally-locking Transmittable Torques		Clamping hubs Type 94...00...					Clamping hubs Compact Type 94...55...					Split clamping hubs Type 94...33...				
		Size					Size					Size				
		14	19	24	28	38	14	19	24	28	38	14	19	24	28	38
Suitable for F7 / k6 for Types 94...00... and 94...55... Suitable for H7 / g6 for Types 94...33... With larger fit clearance, the transmittable torque is reduced.	T _R [Nm]	Preferred Bore														
		Ø5	-	-	-	-	5	-	-	-	-	-	-	-	-	-
		Ø6	2.5	-	-	-	6	-	-	-	-	-	-	-	-	-
		Ø7	3.0	-	-	-	7	-	-	-	-	-	-	-	-	-
		Ø8	3.4	-	-	-	8	18	-	-	-	4	18	-	-	-
		Ø9	3.8	-	-	-	9	20	-	-	-	4.5	20	-	-	-
		Ø10	4.2	23	-	-	10	23	23	-	-	5	23	23	-	-
		Ø11	4.7	25	-	-	11	25	25	-	-	5.5	25	25	-	-
		Ø12	5.1	27	-	-	12	27	27	-	-	6	27	27	-	-
		Ø14	6.0	32	-	-	13	32	32	58	-	7	32	32	-	-
		Ø15	6.4	34	34	-	14	34	34	62	98	7.5	34	34	-	-
		Ø16	7.5	36	36	-	15	36	36	66	105	15.5	36	36	66	-
		Ø18	-	41	41	-	-	41	41	75	118	-	41	41	75	75
		Ø19	-	43	43	79	-	43	43	79	124	-	43	43	79	79
		Ø20	-	45	45	83	83	-	45	45	83	131	-	45	45	83
		Ø22	-	50	50	91	91	-	55	50	91	144	-	51	50	91
		Ø24	-	55	54	100	100	-	60	54	100	157	-	56	54	100
		Ø25	-	58	57	104	104	-	62	57	104	163	-	58	57	104
		Ø28	-	-	63	116	116	-	-	63	116	183	-	-	63	116
		Ø30	-	-	69	124	124	-	-	68	124	196	-	-	68	124
		Ø32	-	-	74	133	133	-	-	72	133	209	-	-	73	133
		Ø35	-	-	-	145	145	-	-	-	145	229	-	-	-	145
		Ø36	-	-	-	150		-	-	-	150	235	-	-	-	150
		Ø38	-	-	-	159	158	-	-	-	248	-	-	-	158	158
		Ø40	-	-	-	-	166	-	-	-	261	-	-	-	-	166
		Ø42	-	-	-	-	174	-	-	-	274	-	-	-	-	170
		Ø45	-	-	-	-	187	-	-	-	294	-	-	-	-	187

1) Recommended hub / shaft tolerance:
F7 / k6 for Types 94...00... and Types 94...55...
H7 / g6 for Types 94...33...

2) For transmittable torques dependent on bore, see table below.
3) Mass moments of inertia are valid for one elastomeric element.
4) Mass moments of inertia are valid for maximum bore.

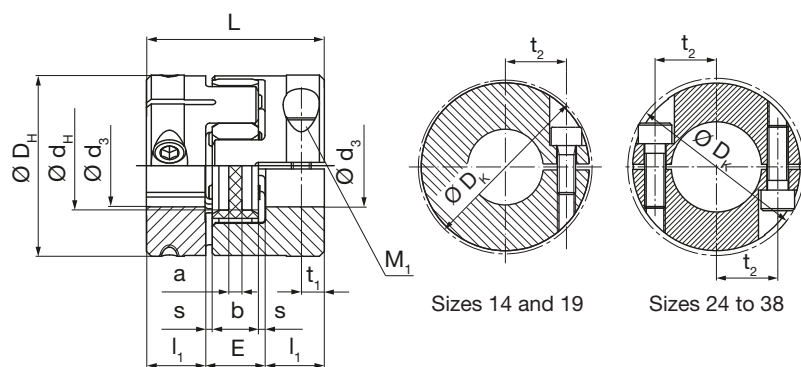
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Single-jointed coupling with clamping hubs Type 940._00._



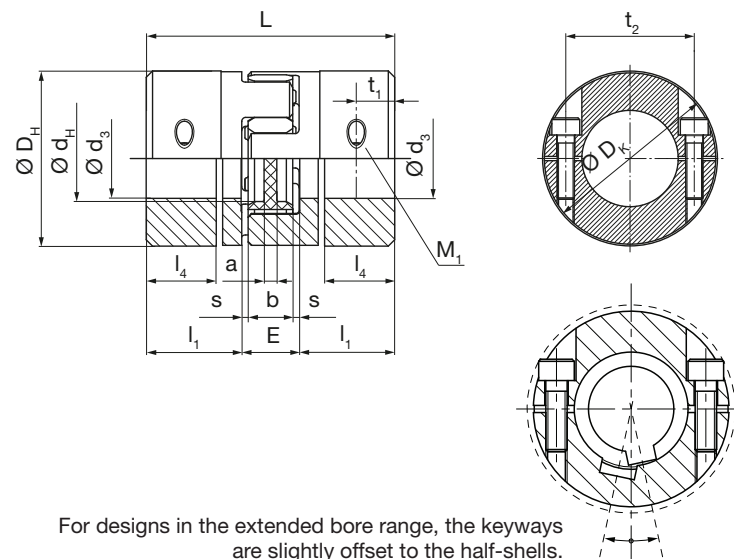
Dimensions Type 94._.00._	Size				
	14	19	24	28	38
a	2	3	4	5	6
b	10	12	14	15	18
D _H	30	45	55	65	80
D _K	32.2	47.6	58.5	71	83.3
d _H	10.5	18	27	30	38.5
E	13	16	18	20	24
L	35	66	78	90	114
l ₁	11	25	30	35	45
M ₁	M3	M5	M6	M8	M8
s	1.5	2	2	2.5	3
t ₁	5.5	12	12	13.5	20
t ₂	11	16	21	24.5	30

Single-jointed coupling with clamping hubs Compact Type 940._55._



Dimensions Type 94._.55._	Size				
	14	19	24	28	38
a	2	3	4	5	6
b	10	12	14	15	18
D _H	32	45	55	65	80
D _K	33	47.6	58.5	71	86
d _H	10.5	18	27	30	38.5
E	13	16	18	20	24
L	32	50	54	62	76
l ₁	9.5	17	18	21	26
M ₁	M4	M5	2xM6	2xM8	2xM10
s	1.5	2	2	2.5	3
t ₁	5	8	7	9	10
t ₂	10.6	16	21	24.5	30.5

Single-jointed coupling with split clamping hubs Type 940._33._



For designs in the extended bore range, the keyways are slightly offset to the half-shells.

Dimensions Type 94._.33._	Size				
	14	19	24	28	38
a	2	3	4	5	6
b	10	12	14	15	18
D _H	32	45	55	65	80
D _K	33	47.6	58.5	71	83
d _H	10.5	18	27	30	38.5
E	13	16	18	20	24
L	50	66	78	90	114
l ₁	18.5	25	30	35	45
l ₄	14.25	17	22	26	32
M ₁	2xM4	2xM5	2xM6	2xM8	2xM8
s	1.5	2	2	2.5	3
t ₁	7	8.5	12	13.5	16
t ₂	21.2	32	42	49	60

We reserve the right to make dimensional and constructional alterations.