

MULTI MONT SELLA

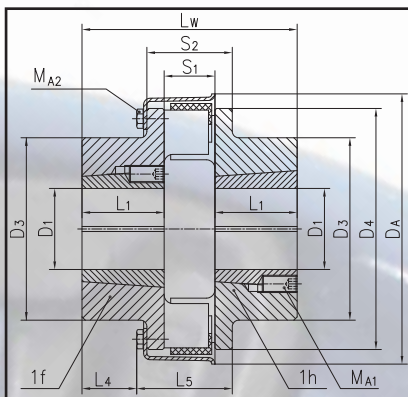
Torsionally flexible claw couplings

MMS-T...W with taper bush



The MULTI MONT SELLA claw coupling of type MMS-T... is equipped with a taper bush as a connection element for the shaft. The taper bush is bolted in place in the coupling hub so that a shrink-fit-like connection free from backlash is established between the coupling hub and the shaft after assembly.

Due to the use of commercially available taper bushes with a number of different bore dimensions, the need for finishing the bore and keyway of the coupling hub is omitted for the MULTI MONT SELLA coupling type MMS-T. The maximum torque depends on the respective taper bush. Assembly and disassembly are possible with no need for special tools!



Main features of the MULTI MONT SELLA with taper bush

- Easy and simple assembly of the shaft connections thanks to taper bushes
- Easy assembly and alignment thanks to the plug-in design
- Compensation of axial, radial and angular offsets
- Shock and vibration damping
- Fail-safe operation and high overload capability
- Maintenance-free
- Simple radial element replacement by sliding back the retaining cap

Coupling size	Technical details of the SN standard element design										maximum shaft displacement		
	Nominal torque	Maximum torque	Fatigue torque	Dynamic torsional stiffness C_{Tdyn} [10 ³ Nm/rad]				rel. damping ψ	max. Drehzahl n_{max}	ΔK_r [mm]	ΔK_a [mm]	ΔK_u [mm]	
	T_{KN} [Nm]	T_{Kmax} [Nm]	$T_{KW(10Hz)}$ [Nm]	0,25 T_{KN}	0,5 T_{KN}	0,75 T_{KN}	1,0 T_{KN}	[-]	[1/min]				
MMS-T 25	250	500	130	4,0	5,8	7,1	9,2	1,0	5700	0,7	1,0	1,4	
MMS-T 40	400	1000	210	6,3	9,2	11,3	14,5	1,0	5100	0,7	1,2	1,5	
MMS-T 63	630	1500	330	10,0	14,4	17,8	23,0	1,0	4500	0,8	1,2	1,6	
MMS-T 100	1250	2500	530	15,8	23,0	29,0	37,0	1,0	3900	0,9	1,2	1,7	
MMS-T 160	2000	4000	840	25,0	36,0	45,0	58,0	1,0	3400	1,0	1,5	1,8	
MMS-T 250	3000	7500	1300	40,0	58,0	71,0	92,0	1,0	3000	1,2	1,5	2,0	
MMS-T 400	5000	10000	2100	63,0	92,0	113,0	145,0	1,0	2700	1,4	1,5	2,2	
MMS-T 630	7500	13000	3300	100	144	178	230	1,0	2300	1,5	1,5	2,4	
MMS-T1000	12500	20000	5000	160	230	290	370	1,0	2000	1,6	2,0	2,6	

Materials: Coupling hubs and taper bushes of grey cast iron; See the main catalogue for further technical details, design and elastomers.

Coupling size	D_A	TB Nr.	D_1 max.	D_3	D_4	L_1	L_4	L_5	L_w	S_1	S_2	m [kg]	J [kgm ²]	M_{A1} [Nm]	M_{A2} [Nm]
MMS-T 25	135	1610	40	85	120	25*	6	49	72	22	38	3,04	0,0061	20	10
MMS-T 40	155	2012	48	102	135	32*	15	52	90	26	44	4,86	0,0120	31	10
MMS-T 63	174	2517	60	123	152	45	27	58	120	30	50	8,36	0,0260	49	10
MMS-T 100	195	3030	75	145	173	76	51	75	187	35	65	16,92	0,0674	92	25
MMS-T 160	221	3030	75	150	198	76	54,2	76,8	193	41	69	20,83	0,1007	92	25
MMS-T 250	250	3535	90	180	223	89	63,6	88,4	225	47	79	33,10	0,2127	115	49
MMS-T 400	282	4040	100	210	251	102	75,6	99,4	260	56	90	51,36	0,4222	172	49
MMS-T 630	330	4040	100	215	294	102	65,5	119,5	268	64	102	69,53	0,8030	172	86
MMS-T1000	378	4545	110	240	338	115	65,5	136,5	285	75	119	98,10	1,4774	195	86

* The slid-back retaining cap protrudes the hub by max. 7mm in case of radial dismantling of the elements

Mounting instruction for type MMS-T...W with taper bush

Mounting the element hub with taper bush

The general mounting instruction for the MMS also applies to this instruction and is to be equally taken into account.

1. The outer taper of the taper bush and the bore with the inner taper of the element hub shall show bright metal and must be free of grease prior to mounting. Preservatives must be removed completely.
2. Insert the taper bush into the element hub and line up all connecting bores. Make sure that half threaded holes coincide with half plain bores (Fig. 1).
3. Screw in lightly greased or oiled assembly screws. Do not tighten the screws yet (Fig. 2).
4. Slide the element hub with inserted taper bush onto the cleaned shaft with key. Put it into the mounting position and tighten it uniformly according to Fig. 3 and Table 1.
5. The screws can be retightened again by slight tapping against the taper bush with a hammer using an intermediate plate. Repeat this process, if necessary.

Dismantling the element hub with taper bus

1. Loosen and remove all screws. Depending on the taper bush size, screw either 1 or 2 greased screws into the half pulling-off thread(s) of the taper bush (Fig. 4).
2. Tighten the screws uniformly until the taper bush is loose in the element hub.
3. As soon as the taper bush is loose, the element hub can be pulled off the shaft together with the taper bush.

Available taper bushes

Nr.	Metric bores with keyway acc. to DIN 6885/1																		
1610	12	14	15	16	18	19	20	22	24	25	28	30	32	35	38	40			
2012	14	16	17	19	20	22	24	25	28	30	32	35	38	40	42	45	48		
2517	16	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55	60
3030	25	28	30	32	35	38	40	42	45	48	50	55	60	65	70	75			
3535	35	38	40	42	45	48	50	55	60	65	70	75	80	85	90				
4040	40	42	45	48	50	55	60	65	70	75	80	85	90	95	100				
5040	70	75	80	85	90	95	100	105	110	115	120	125							

Screw tightening torques for mounting the taper bush

Coupling size	MMS 25	MMS 40	MMS 63	MMS 100/160	MMS 250	MMS 400/630	MMS 1000
Taper bush No.	1610	2012	2517	3030	3535	4040	4545
B.S.W. screw size *)	$3/8 \times 16$	$7/16 \times 22$	$1/2 \times 25$	$5/8 \times 32$	$1/2 \times 38$	$5/8 \times 45$	$3/4 \times 50$
Tightening torque M_{A1} [Nm]	20	31	49	92	115	172	195
Width across flats SW [mm]	5	6	6	8	10	12	14

*) Nr.1610/2012/2517/3030 set screw
Nr.3535/4040/4545 cap screw

Table 1

Dipl.-Ing. Herwarth Reich GmbH
P.O.Box 10 20 66
D-44720 Bochum
Vierhausstr. 53
D-44807 Bochum
Phone: +49 2 34 9 59 16 0
Fax: +49 2 34 9 59 16 16
E-Mail: mail@reich-kupplungen.de
Internet: http://www.reich-kupplungen.de

Ordering example:

MMS-T 160.SN.W.FH

Coupling designation: _____
Coupling size: _____
Element design: _____
Shaft coupling: _____
Hub design F and H: _____

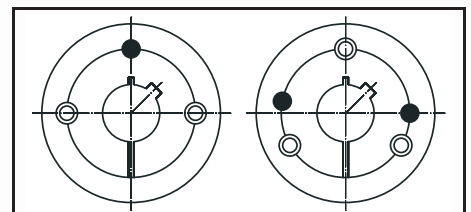


Fig.1

Nr. 1610	Nr. 3535
2012	4040
2517	4545
3030	5040

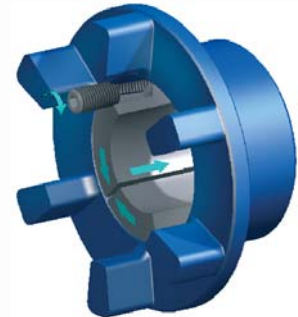


Fig.2

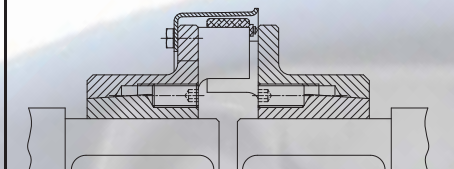


Fig.3

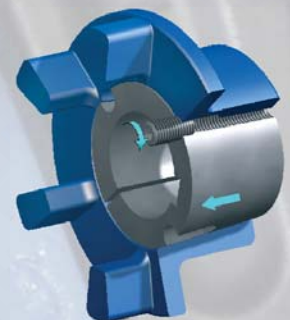
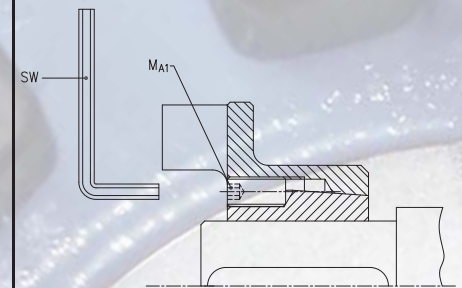


Fig.4



Safety precautions

It is the customer's and user's responsibility to observe the national and international regulations and safety rules.

Check all bolted connections for proper fit preferably after the test run.

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In conjunction with this MMS-T leaflet see also the general details contained in the MMS catalogue.
All dimensions in millimetres.
We reserve the right to change dimensions and / or design details without prior notice.

www.Reich-Kupplungen.de

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