

TOP-M... flexible coupling is used to transmit torque in drive system. The coupling consists of two hubs designed and made especially for a specific drive system configuration and of a split flexible insert (size of insert is specified in the catalogue). Properly selected and installed coupling guarantees optimal cooperation of coupled units as well as long-term failure-free operation. The flexible insert consists of two split-in-two parts which enable coupling and uncoupling of units without the necessity of their shifting. The coupling can operate at temperatures from -40°C to +65°C.

The couplings with size from TOP-M2 to TOP-M80 are equipped with flexible inserts of two lengths (figures 1 and 2). This solution makes it possible to couple shafts even if they are located at a considerable distance from each other.

TOP-MB... couplings equipped with safety break-joints (figure 3) are used in drive systems in which sudden and frequent overloads occur.

Advantages of the coupling:

- simple design
- maintenance-free operation
- easy installation and disassembly (the coupled units do not have to be relocated in order to replace the flexible insert)
- vibration damping
- considerable compensation of shaft misalignment

The basic versions of TOP-M... couplings presented on the previous page are most frequently used in drive units of the following equipment: pumps, fans, crushers, mills, belt conveyors, blowers, compressors, paper-making machines, construction machinery, power industry equipment and many other machines.

TOP-Marko offers also:

- OMEGA, ROTEX... flexible couplings
- Hydrodynamic couplings
- Overload couplings
- Toothed and multiple-plate couplings
- Unidirectional couplings
- Coil chains, connecting links, chain routes
- Accessories for chain routes (sprocket wheels, scrapers, locks...)
- Transmissions, motors and gear-motors
- Disk brakes and drum brakes

„TOP-M®” FLEXIBLE COUPLINGS

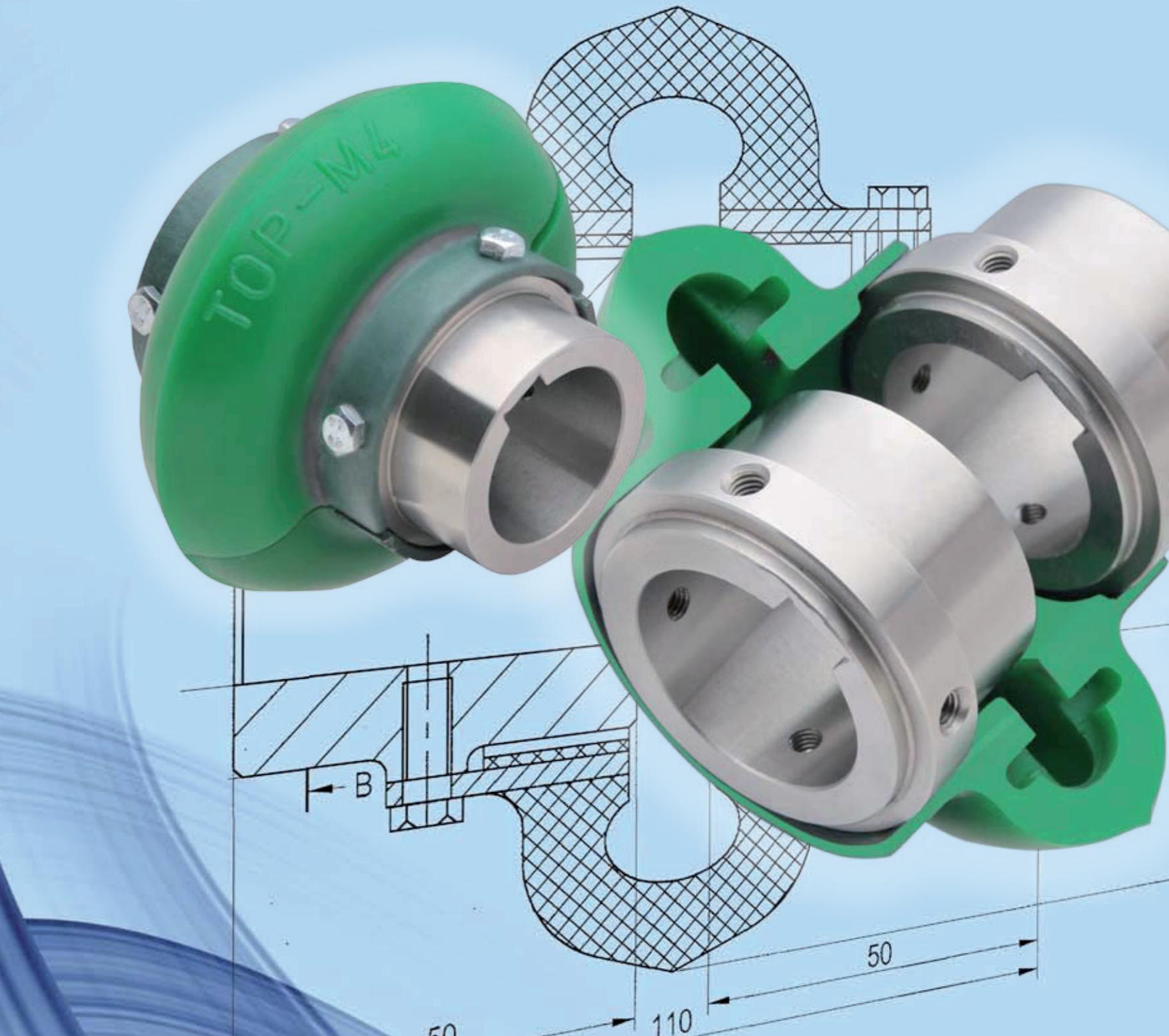


Fig. 1

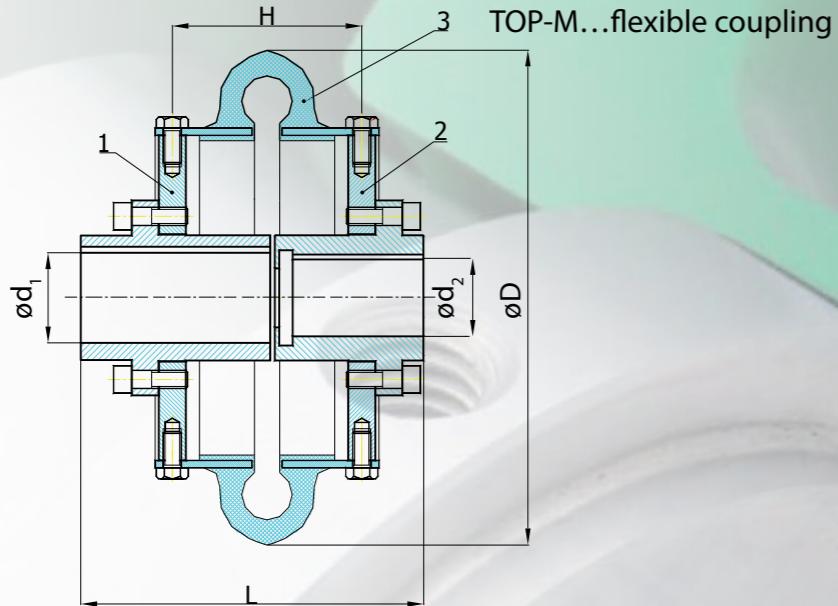


Fig. 2

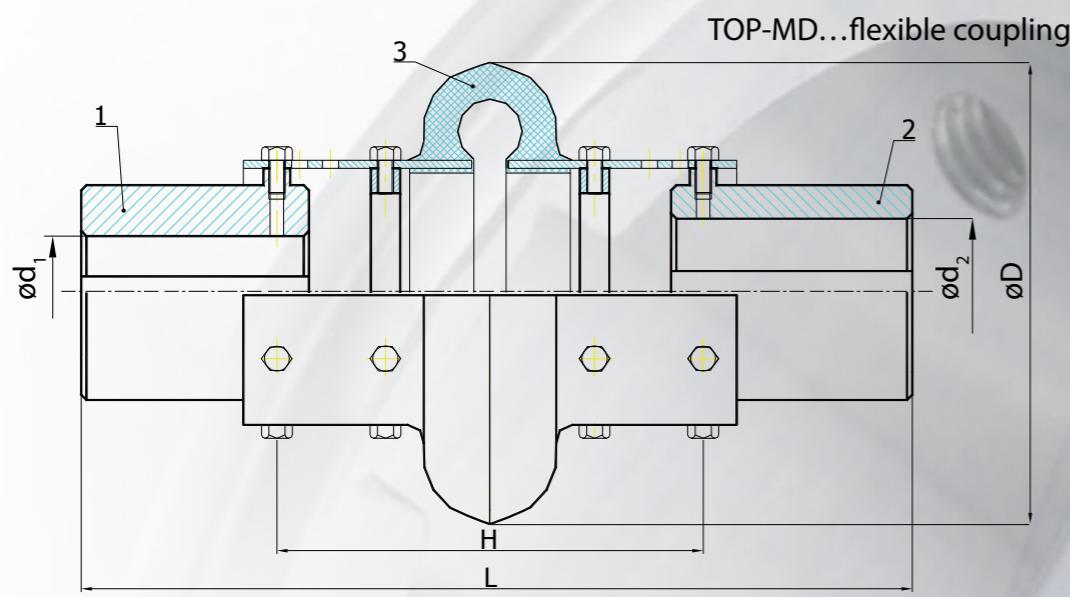
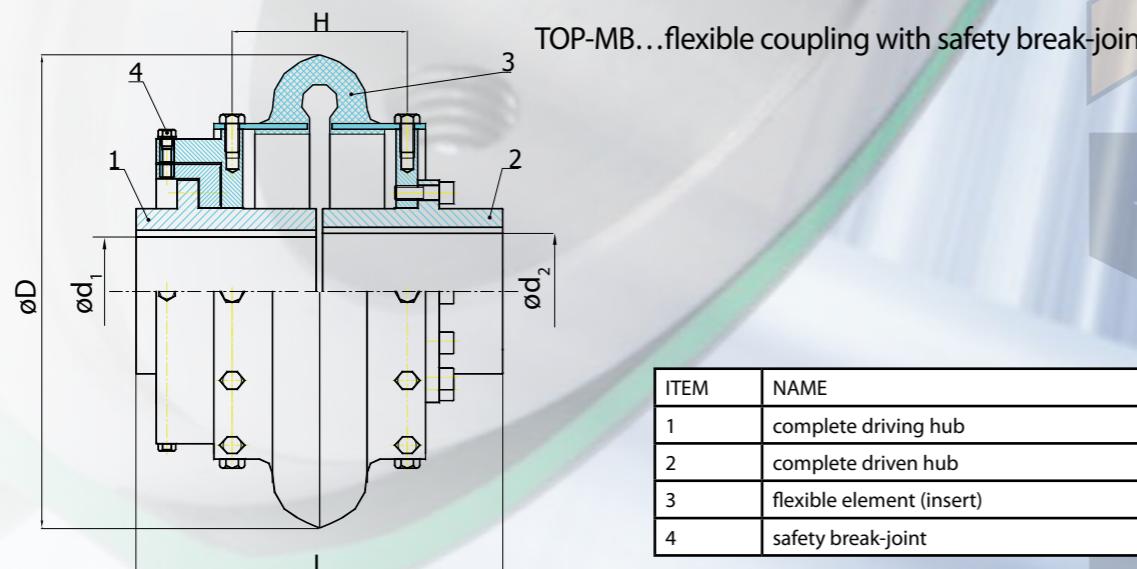


Fig. 3



BASIC TECHNICAL PARAMETERS AND OPERATING CONDITIONS OF TOP-M... COUPLINGS

Size of flexible element (insert)	Torque		Maximum rotational speed rpm	Allowable assembly deviations			Coupling dimensions			
	T_{KN}	T_{Kmax}		Axial	Radial	Angular	L_{min}	D	H	d_1, d_2_{max}
	Nm			mm	mm	°	mm	mm	mm	mm
M 2 MD 2	28	56	7 500	4,7	1,6	4	78 146	95	62 119	28
M 3 MD 3	51	102	7 500	4,7	1,6	4	78 184	110	62 159	34
M 4 MD 4	75	150	7 500	4,7	1,6	4	78 184	125	64 159	42
M 5 MD 5	128	256	7 500	6,3	1,6	4	97 184	142	77 159	48
M 10 MD 10	198	396	7 500	6,3	1,6	4	97 184	172	77 159	55
M 20 MD 20	330	660	6 600 4 800	6,3	2,4	3	108 238	190	87,5 199	60
M 30 MD 30	490	980	5 800 4 200	6,3	2,4	3	116 238	218	96 199	75
M 40 MD 40	740	1.480	5 000 3 600	6,3	2,4	3	124 238	250	104 199	85
M 50 MD 50	990	1.980	4 200 3 100	6,3	2,4	3	140 238	292	120 199	90
M 60 MD 60	1.610	3.220	3 800 2 800	9,5	3,2	2	160 318	327	133 275	105
M 70 MD 70	2.790	5.580	3 600 2 600	9,5	3,2	2	175 318	370	148 275	120
M 80 MD 80	4.960	9.920	2 000 1 800	9,5	3,2	2	235 318	420	195 275	155
M 100	10.200	20.400	1 900	9,5	4,8	1,5	248	550	207	170
M 120	20.600	41.200	1 800	9,5	4,8	1,5	294	654	238	190
M 140	39.400	78.800	1 500	9,5	4,8	1,5	352	780	275	230

- T_{KN} - Nominal torque transmitted by coupling during continuous work
- T_{Kmax} - Maximum torque
- L - Minimum length of coupling for the short version and long version
- D - External diameter of coupling (of TOP insert)
- H - Assembling distance
- d_1, d_2 - Maximum diameters of holes in hubs