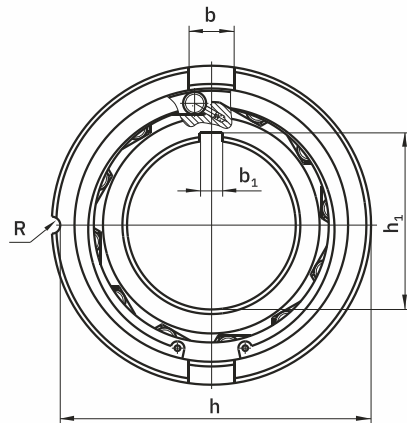
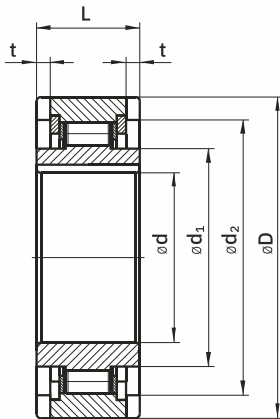


UNIDIRECTIONAL ROLLING ELEMENT COUPLINGS

Unidirectional rolling clutches are used to transmit torque in one direction while allowing free relative motion in the other direction and are used in such applications as motor vehicles, agricultural machinery, assemblies, and mechanisms (e.g., packaging machines).

They work by wedging the rollers between the outer ring and the appropriately shaped inner ring. The working surfaces of these two rings form a self-locking angle. The rollers are individually pressed against the ring raceways using springs and tappets, which allows for immediate action, and the “dead angle” resulting only from the elastic deformation of the clutch components is practically zero.



Basic parameters:

- basic operating frequency: up to 60 cycles/min,
- operating temperature of couplings: max. 120°C,
- installation conditions: housing H7, shaft h6,
- service life: average of 10^7 triggering cycles,
- lubrication with low-viscosity oils.

The use of operating frequencies higher than those given above is determined by several factors such as inertia of rotating masses, lubrication conditions, etc. They are not designed to transmit any axial (longitudinal) forces, either in operation or during assembly.

The service life of the couplings is dependent on the operating conditions, the nature of the operation (e.g. shock load nature), and the free-running duration.

In conditions of prolonged free running, at peripheral speeds not exceeding 6 m/s, it is recommended to use lubrication of couplings with low viscosity oils in

the range from 8.33 cSt to 59.34 cSt at 40°C. At low speeds, low viscosity plastic greases can be used to fill up to 30% of the free space.

To ensure proper operating conditions for the coupling, it is required that it be fixed with radial ball bearings, as the couplings themselves are not bearings.

Application:

In motor vehicles, agricultural machinery, assemblies, and mechanisms, e.g. seeders, packaging machines, etc.

Delivery status:

Not lubricated, protected by maintenance oil, and packed in corrosion inhibited anti-corrosion paper.

Designation	Dimensions											Torque Mo
	d H7	D	L	d ₁	d ₂	b	h	b ₁	h ₁	t	R	
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
O&T 023.1	8	24r6	8	11	20	-	-	2	9	-	-	2
O&T 023.2	12	35n6	13	18,5	30	4	-	4	13,8	1,5	-	6
O&T 023.11	15	35r6	11	21	30	-	-	5	16,2	-	-	8
O&T 023.3	15	42n6	18	24	36	5	-	5	16,2	1,5	-	20
O&T 023.4	20	47r6	14	28	42	-	-	6	21,6	-	-	23
O&T 023.5	20	52n6	21	30	45	6	-	6	21,6	1,8	-	50
O&T 029.25/55A	25	55+0,015	17	34	47	-	53,5	5	27,3	-	1,5	80
O&T 023.6	25	62n6	24	36,5	52	8	-	8	27	2,3	-	80
O&T 023.9	30	62r6	16	40,4	55	-	-	8	32	-	-	55
O&T 023.7	30	72n6	27	40	62	10	-	8	32	2,6	-	120
O&T 023.10	35	72r6	17	47,4	63	-	-	10	37,4	-	-	90
O&T 023.8	35	80n6	31	48	70	12	-	10	37,4	3,6	-	150
SPS 40	40	80r6	18	53,5	70	-	-	12	42,3	-	-	120
SP 40	40	90n6	33	54,5	78	12	-	12	42,3	3,6	-	230