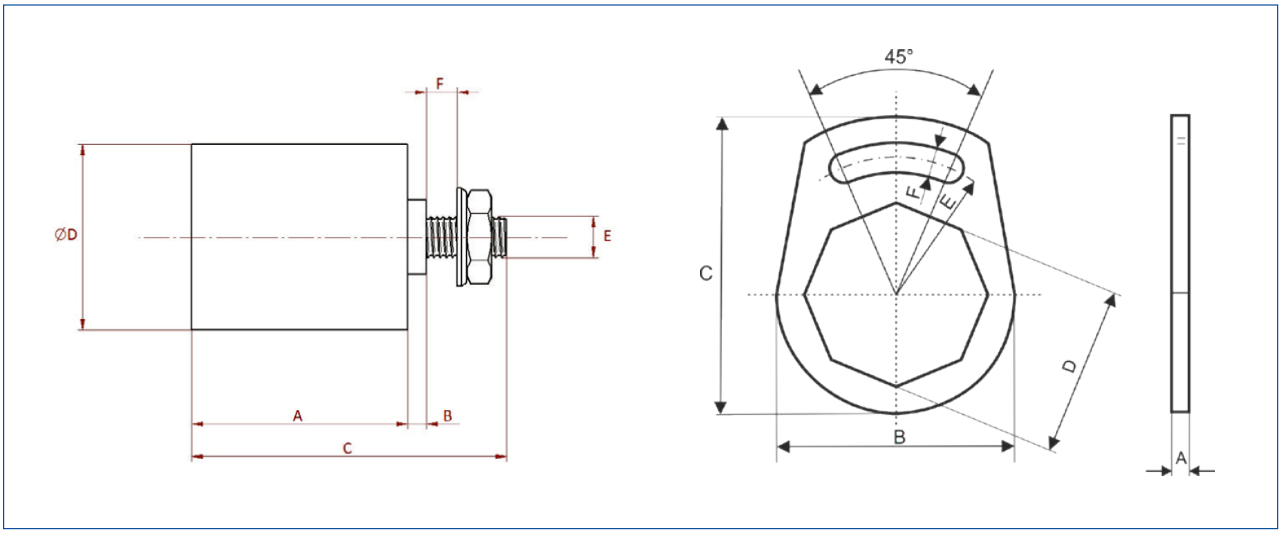
ROLLER
TYPE RE

ROLLER TYPE RE
Initially developed as a rotating pulley for tensioning flat belts and later for tensioning poly and V-belts as well as power belts, the roller type RE is widely used as a universal machine component. Would you like adaptations in material, diameter or shape? Please clarify the possibilities with us.

TWIST LOCK TYPE TL
If there is a coating or unevenness on the mounting surface that prevents a secure friction locking, it is recommended to use the RESATEC twist lock. Available for all tensioner devices of size 5 and 6.



Matching to all TE-Types
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Dimensions

type	ø D	A	E	6kt hex-nut	tightening torque	B	C	F	ball bearing	min -1 rpm max.	suitable for	weight	max. load
					Nm			max.			Typ	kg	N
RE 2	30	35	M8	M8 - 0.5d	10	3	51	7	608 - 2Z	8000	TE 2	0.08	75
RE3/4	40	45	M10	M10 - 0.5d	20	6	67	9	6200 - 2Z	8000	TE 3 / TE 4	0.17	160
RE 5	60	60	M12	M12 - 0.5d	35	7.5	89	13	6301 - 2Z	6000	TRE 5	0.4	310
RE 6	80	90	M20	M 20 - 0.5d	160	9	127	14	6304 - 2Z	5000	TE6 / TE 7	1.2	610
RE 7	80	135	M20	M 20 - 0.5d	160	7	167	12	6304 - 2Z	4500	TE 7	1.7	1210
TL 5	74.5	8	60		104	130	13				TE 5	0.12	
TL 6	94	10	75		128	160	17				TE 6	0.23	

Material roller

Roller PA6
temperature range – 40 °C until 100 °C
screw DIN 933 ISO 4017 steel 8.8 galvanised
hex-nut DIN 439 B ISO 4035 steel 8.8 galvanised
in Ex-shelters the components have to be to grounded
surface resistance ~1013 ohm, contact resistance ~1015 ohm

Selection schedule for TE + Rollers RE

V-belt type	ø smaller pulley	tensioning force [N]	type tensioner device	tensioning force [N]	type tensioner device	tensioning force [N]	type tensioner device	tensioning force [N]	type tensioner device	tensioning force [N]	type tensioner device
		1 belt		2 belt		3 belt		4 belt		5 belt	
XPZ, SPZ	56 – 71	40	TE 2 + RE 2	80	TE 4 + RE 3/4	120	TE 4 + RE 3/4	160	TE 5 + RE 5	200	TE 5 + RE 5
	75 – 90	44		88		132		176		220	
	95 – 125	50	TE 3 + RE 3/4	100		150		200		250	
	> 125	56		112		168		224		280	
XPA, SPA	80 – 100	56	TE 3 + RE 3/4	112	TE 4 + RE 3/4	168	TE 5 + RE 5	224	TE 5 + RE 5	282	TE 6 + RE 6
	106 – 140	76	TE 4 + RE 3/4	152		228		304		380	
	150 – 200	90		180		270		360		450	
	> 200	100		200		300		400	TE 6 + RE 6	500	
XPB, SPB	112 – 160	100	TE 4 + RE 3/4	200	TE 4 + RE 3/4	300	TE 5 + RE 5	400	TE 6 + RE 6	500	TE 7 + RE 7
	170 – 224	124		248	TE 5 + RE 5	372		496		620	
	236 – 355	154		308		462	TE 6 + RE 6	616		770	
	> 355	162		324		486		648		810	
XPC, SPC	224 – 250	174	TE 4 + RE 3/4	348	TE 5 + RE 5	522	TE 6 + RE 6	696	TE 7 + RE 7	870	TE 7 + RE 7
	265 – 355	230	TE 5 + RE 5	460	TE 6 + RE 6	690		920		1150	
	> 375	288		576		864	TE 7 + RE 7	1152		1440	
Z	56 – 100	15	TE 2 + RE 2	30	TE 2 + RE 2	45	TE 2 + RE 2	60	TE 3 + RE 3/4	75	TE 5 + RE 5
A	80 – 140	30	TE 2 + RE 2	60	TE 3 + RE 3/4	90	TE 4 + RE 3/4	120	TE 5 + RE 5	150	TE 6 + RE 6
B	125 – 200	60	TE 3 + RE 3/4	120	TE 4 + RE 3/4	180	TE 5 + RE 5	240	TE 6 + RE 6	300	TE 7 + RE 7
C	200 – 400	120	120 TE 4 + RE 3/4	240	TE 5 + RE 5	360	TE 6 + RE 6	480	TE 7 + RE 7	600	TE 7 + RE 7
D	335 – 600	210	TE 4 + RE 3/4	420	TE 6 + RE 6	630	TE 7 + RE 7	840	TE 7 + RE 7	1050	TE 7