

## RTT

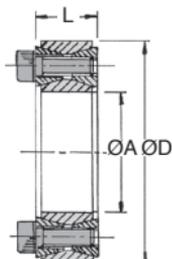
## Medium/high torque

- Inserts between the shaft and the bore
- High transmissible torque
- Contact pressure spread evenly
- Easy to assemble and dismantle
- Reduced width
- Backlash free
- **No constraints due to keyway**
- Increases the resistant part of the section of the shaft
- Suitable for alternating rotational movements
- Up to 4 units can be used together

- Materials:

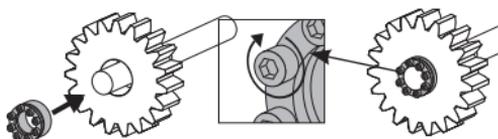
Body: steel

Screws: steel DIN 912 12.9



### Options

- Other diameters available (up to 220mm bore)
- Stainless steel version



### Info.

- \*\*P<sub>N</sub>: hub surface pressure
- \*\*P<sub>w</sub>: shaft surface pressure

### DISCOUNTS

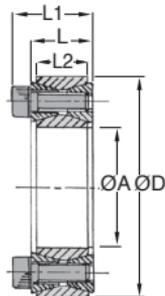
Qty	1+	6+	20+	40+	60+	100+
Disc.	List	-10%	-15%	-20%	-25%	On request

Part number	ØA	ØD	L	H	Screw M	Tightening torque TA(Nm)	Transmissible torque T (Nm)	**P <sub>w</sub> (N/mm <sup>2</sup> )	**P <sub>N</sub> (N/mm <sup>2</sup> )	Stock*	Price each 1 to 5
RTT20-47	20	47	20	28	8xM6x18	14	270	210	90	✓	16,30 €
RTT22-47	22	47	20	28	8xM6x18	14	300	195	90	✓	16,30 €
RTT24-50	24	50	20	28	9xM6x18	14	360	195	95	✓	16,82 €
RTT25-50	25	50	20	28	9xM6x18	14	380	190	85	✓	16,82 €
RTT28-55	28	55	20	28	10xM6x18	14	500	187	96	-	18,78 €
RTT30-55	30	55	20	28	10xM6x18	14	530	176	96	✓	20,39 €
RTT32-60	32	60	20	28	12xM6x18	14	630	192	105	-	20,62 €
RTT35-60	35	60	20	28	12xM6x18	14	700	180	105	-	20,68 €
RTT38-65	38	65	20	28	14xM6x18	14	860	183	107	-	22,71 €
RTT40-65	40	65	20	28	14xM6x18	14	910	180	110	✓	22,99 €
RTT42-75	42	75	24	34	12xM8x22	35	1500	226	125	-	28,34 €
RTT45-75	45	75	24	34	12xM8x22	35	1610	210	125	-	28,60 €
RTT48-80	48	80	24	34	12xM8x22	35	1700	196	115	-	29,89 €
RTT50-80	50	80	24	34	12xM8x22	35	1770	190	115	✓	29,92 €
RTT55-85	55	85	24	34	14xM8x22	35	2270	200	130	-	32,92 €
RTT60-90	60	90	24	34	14xM8x22	35	2470	180	120	✓	34,72 €
RTT65-95	65	95	24	34	16xM8x22	35	3040	190	130	-	37,79 €
RTT70-110	70	110	28	40	14xM10x25	70	4600	210	130	-	49,71 €
RTT75-115	75	115	28	40	14xM10x25	70	4900	195	125	-	53,85 €
RTT80-120	80	120	28	40	14xM10x25	70	5200	180	120	-	56,80 €
RTT85-125	85	125	28	40	16xM10x25	70	6300	195	130	-	60,46 €
RTT90-130	90	130	28	40	16xM10x25	70	6600	180	125	-	59,80 €
RTT95-135	95	135	28	40	18xM10x25	70	7900	195	135	-	66,72 €
RTT100-145	100	145	33	47	14xM12x30	125	9600	195	135	-	79,32 €

\*Depending on availability - Dimensions in mm

- Inserts between the shaft and the bore
- High transmissible torque
- Contact pressure spread evenly
- Easy to assembly and dismantle
- Reduced width
- Backlash free
- **No constraints due to keyway**
- Increases the resistant part of the shaft
- Suitable for alternating movement
- Up to 4 units can be used together
- Material

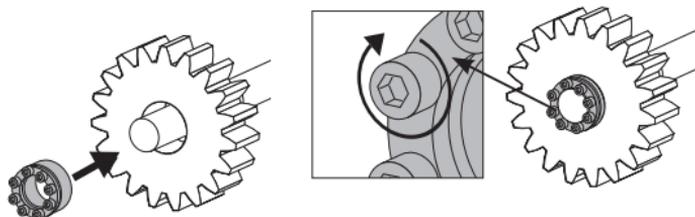
Stainless steel



Stainless steel

### Info.

- \*\*P<sub>N</sub> : hub surface pressure
- \*\*P<sub>w</sub> : shaft surface pressure



### REMISES

Qty	1+	2+	5+
Disc. List	-5%	On request	

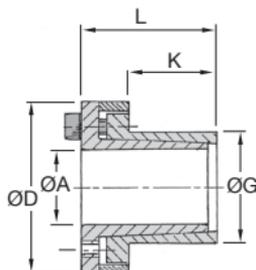
Part number	ØA	ØD	L1	L	L2	Screw M	Tightening torque		**P <sub>w</sub> (N/mm <sup>2</sup> )	**P <sub>N</sub> (N/mm <sup>2</sup> )	Price each
							TA (Nm)	T (Nm)			
RTT20-47/SS	20	47	26	20	17	8xM6x18	8	110	133	57	43,75 €
RTT22-47/SS	22	47	26	20	17	8xM6x18	8	120	131	57	44,23 €
RTT24-50/SS	24	50	26	20	17	9xM6x18	8	150	125	60	45,71 €
RTT25-50/SS	25	50	26	20	17	9xM6x18	8	155	120	60	44,99 €
RTT28-55/SS	28	55	26	20	17	9xM6x18	8	170	107	55	48,15 €
RTT30-55/SS	30	55	26	20	17	9xM6x18	8	185	100	55	49,60 €
RTT32-60/SS	32	60	26	20	17	12xM6x18	8	265	125	66	51,80 €
RTT35-60/SS	35	60	26	20	17	12xM6x18	8	290	114	67	51,88 €
RTT38-65/SS	38	65	26	20	17	15xM6x18	8	390	131	77	59,85 €
RTT40-65/SS	40	65	26	20	17	15xM6x18	8	410	125	77	67,34 €
RTT42-75/SS	42	75	32	24	20	12xM8x22	18	595	138	78	77,17 €
RTT45-75/SS	45	75	32	24	20	12xM8x22	18	635	129	78	81,17 €
RTT48-80/SS	48	80	32	24	20	12xM8x22	18	680	121	73	85,33 €
RTT50-80/SS	50	80	32	24	20	12xM8x22	18	700	116	73	91,28 €

Dimensions in mm

## RT25

## Medium/high torque

- Inserts between the shaft and the bore
- High transmissible torque
- Contact pressure spread evenly
- Easy to assembly and dismantle
- Reduced width
- Backlash free
- **No constraints due to keyway**
- Increases the resistant part of the section of the shaft
- Suitable for alternating rotational movements

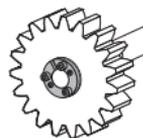
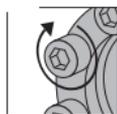
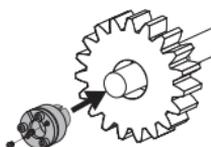


### Options

- Other diameters available (up to 100mm bore)

### Info.

- \* P<sub>N</sub>: hub surface pressure
- \* P<sub>w</sub>: shaft surface pressure



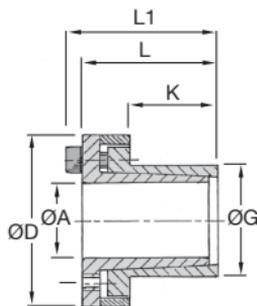
### DISCOUNTS

Qty.	1+	6+	10+	20+	40+	60+
Disc.	List	-20%	-30%	-40%	-50%	On request

Part number	ØA	ØG	ØD	L	Screw M	K	Tightening torque TA(Nm)	Transmissible torque T (Nm)	*P <sub>w</sub> (N/mm <sup>2</sup> )	*P <sub>N</sub> (N/mm <sup>2</sup> )	Stock*	Price each 1 to 5
RT25-6-14	6	14	25	22,5	3xM3x10	10,0	2,2	12	190	80	✓	26,83 €
RT25-8-15	8	15	27	25,5	3xM4x12	12,0	5,0	29	205	110	✓	23,30 €
RT25-9-16	9	16	28	27,5	3xM4x12	14,0	5,0	31	150	85	✓	23,50 €
RT25-10-16	10	16	28	27,5	3xM4x12	14,0	5,0	35	140	85	✓	23,65 €
RT25-11-18	11	18	32	27,5	4xM4x12	14,0	5,0	52	170	105	✓	23,60 €
RT25-12-18	12	18	32	27,5	4xM4x12	14,0	5,0	58	150	100	✓	23,59 €
RT25-14-23	14	23	39	27,5	4xM4x12	14,0	5,0	69	140	80	✓	21,19 €
RT25-16-24	16	24	45	36,5	4xM6x12	16,0	17,0	180	148	98	✓	23,95 €
RT25-18-26	18	26	47	39,5	4xM6x18	19,0	17,0	200	180	125	✓	24,44 €
RT25-19-27	19	27	49	39,5	4xM6x18	19,0	17,0	210	170	120	✓	24,28 €
RT25-20-28	20	28	50	39,5	4xM6x18	19,0	17,0	220	160	115	✓	24,63 €
RT25-22-32	22	32	54	46,5	4xM6x18	26,0	17,0	250	115	80	✓	26,74 €
RT25-24-34	24	34	56	46,5	6xM6x18	26,0	17,0	395	146	102	✓	26,82 €
RT25-25-34	25	34	56	46,5	6xM6x18	26,0	17,0	410	140	102	✓	27,48 €
RT25-28-39	28	39	61	46,5	6xM6x18	25,5	17,0	465	135	98	✓	30,45 €
RT25-30-41	30	41	62	46,5	6xM6x18	25,5	17,0	510	127	90	✓	31,17 €
RT25-32-43	32	43	65	46,5	8xM6x18	25,5	17,0	705	146	108	✓	33,99 €
RT25-35-47	35	47	69	52,5	8xM6x18	31,5	17,0	790	105	80	-	34,77 €
RT25-38-50	38	50	72	52,5	8xM6x18	31,5	17,0	860	100	76	✓	38,83 €
RT25-40-53	40	53	75	52,5	8xM6x18	31,5	17,0	900	96	72	✓	41,10 €
RT25-42-55	42	55	78	52,5	8xM6x18	31,5	17,0	940	90	70	-	45,34 €
RT25-45-59	45	59	86	71,0	8xM8x22	45,0	41,0	1840	110	85	-	61,31 €
RT25-48-62	48	62	87	71,0	8xM8x22	45,0	41,0	2000	105	80	-	65,86 €
RT25-50-65	50	65	92	71,0	8xM8x22	45,0	41,0	2100	100	75	-	72,01 €
RT25-55-71	55	71	98	81,0	9xM8x22	55,0	41,0	2580	85	65	-	85,73 €

\*Depending on availability - Dimensions in mm

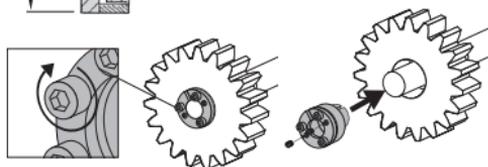
- Inserts between the shaft and the bore
- High transmissible torque
- Contact pressure spread evenly
- Easy to assembly and dismantle
- Reduced width
- Backlash free
- **No constraints due to keyway**
- Increases the resistant part of the shaft
- Suitable for alternating rotational movement
- Material  
Stainless steel



Stainless  
steel

### Info.

- \*\*P<sub>N</sub> : hub surface pressure
- \*\*P<sub>w</sub> : shaft surface pressure



### DISCOUNTS

Qty	1+	2+	5+
Disc.	List	-5%	On request

Part number	ØA	ØG	ØD	L1	L	K	Screw M	Tightening torque		**P <sub>w</sub> (N/mm <sup>2</sup> )	**P <sub>N</sub> (N/mm <sup>2</sup> )	Price each
								TA (Nm)	T (Nm)			
RT25-10-16/SS	10	16	29	31	27	14	4xM4x12	2	22	82	51	27,48 €
RT25-12-18/SS	12	18	32	32	28	14	4xM4x12	2	26	69	46	28,73 €
RT25-14-23/SS	14	23	38	32	28	14	4xM4x12	2	30	59	36	31,92 €
RT25-15-24/SS	15	24	44	43	37	16	4xM6x18	8	73	107	67	44,13 €
RT25-16-24/SS	16	24	44	43	37	16	4xM6x18	8	78	101	67	44,19 €
RT25-18-26/SS	18	26	47	45	39	18	4xM6x18	8	87	79	55	44,02 €
RT25-19-27/SS	19	27	49	45	39	18	4xM6x18	8	92	75	53	44,55 €
RT25-20-28/SS	20	28	50	45	39	18	4xM6x18	8	97	71	51	47,99 €
RT25-22-32/SS	22	32	54	52	46	25	4xM6x18	8	105	47	32	53,68 €
RT25-24-34/SS	24	34	56	52	46	25	6xM6x18	8	175	64	45	62,23 €
RT25-25-34/SS	25	34	56	52	46	25	6xM6x18	8	180	62	45	61,52 €
RT25-28-39/SS	28	39	61	52	46	25	6xM6x18	8	200	55	40	66,58 €
RT25-30-41/SS	30	41	62	52	46	25	6xM6x18	8	220	51	38	74,88 €
RT25-32-43/SS	32	43	65	52	46	25	8xM6x18	8	310	64	48	80,69 €
RT25-35-47/SS	35	47	66	59	53	32	8xM6x18	8	340	46	34	85,93 €
RT25-38-50/SS	38	50	72	59	53	32	8xM6x18	8	370	42	32	93,10 €
RT25-40-53/SS	40	53	75	59	53	32	8xM6x18	8	390	40	30	110,45 €
RT25-42-55/SS	42	55	78	59	53	32	8xM6x18	8	410	39	29	115,39 €
RT25-45-59/SS	45	59	86	78	70	45	8xM8x22	18	820	48	36	161,45 €
RT25-48-62/SS	48	62	87	78	70	45	8xM8x22	18	880	45	35	165,96 €
RT25-50-65/SS	50	65	92	78	70	45	8xM8x22	18	910	43	33	199,73 €

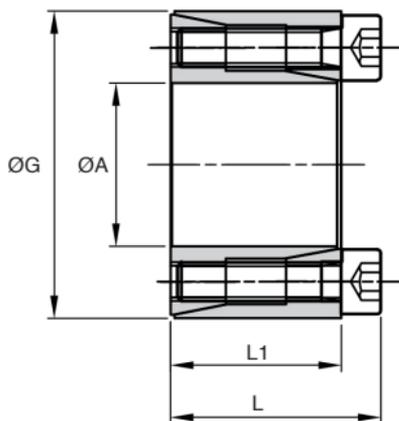
Dimensions in mm

- Inserts between the shaft and the bore
- Contact pressure spread evenly
- Easy to assembly and dismantle
- Reduced width
- Backlash free
- **No constraints due to keyway**
- Increases the resistant part of the shaft
- Suitable for alternating rotational movement
- Material  
Steel C45E



### Info.

- \*\*P<sub>N</sub>: hub surface pressure
- \*\*P<sub>w</sub>: shaft surface pressure



### DISCOUNT

Qty	1+	6+	20+	40+	60+	100+
Disc.	List	-10%	-15%	-20%	-25%	On request

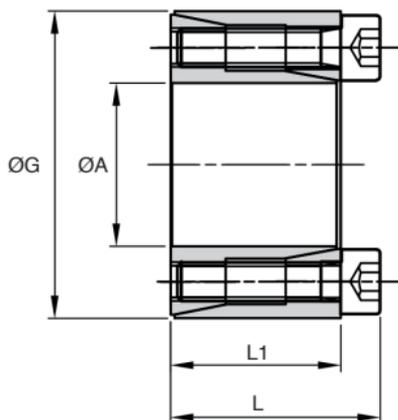
Part number	ØA	ØG	L	L1	Screw M	Tightening torque TA (Nm)	Transmissible torque T (Nm)	P <sub>w</sub> ** (N/mm <sup>2</sup> )	P <sub>N</sub> * (N/mm <sup>2</sup> )	Price each 1 to 5
RT61-10-20	10	20	15,5	13	4xM2,5x12	1,2	19	89	45	7,48 €
RT61-12-22	12	22	15,5	13	4xM2,5x12	1,2	23	75	41	7,75 €
RT61-14-26	14	26	20,0	17	4xM3x16	2,1	39	71	38	8,19 €
RT61-15-28	15	28	20,0	17	4xM3x16	2,1	42	66	35	8,19 €
RT61-16-32	16	32	21,0	17	4xM4x16	4,9	77	107	54	9,17 €
RT61-18-35	18	35	25,0	21	4xM4x20	4,9	87	77	40	9,48 €
RT61-19-35	19	35	25,0	21	4xM4x20	4,9	91	73	40	9,48 €
RT61-20-38	20	38	26,0	21	4xM5x20	10,0	157	113	60	9,83 €
RT61-22-40	22	40	26,0	21	4xM5x20	10,0	173	103	57	11,18 €
RT61-24-47	24	47	32,0	26	4xM6x24	17,0	268	110	56	13,08 €
RT61-25-47	25	47	32,0	26	4xM6x24	17,0	279	105	56	13,27 €

Dimensions in mm

- Inserts between the shaft and the bore
- Contact pressure spread evenly
- Easy to assembly and dismantle
- Reduced width
- Backlash free
- **No constraints due to keyway**
- Increases the resistant part of the shaft
- Suitable for alternating rotational movement
- Material  
Stainless steel

stainless  
steel**Info.**

- \*\*P<sub>N</sub>: hub surface pressure
- \*\*P<sub>w</sub>: shaft surface pressure

**DISCOUNT**

Qty	1+	2+	5+
Disc. List	-5%		On request

Part number	ØA	ØG	L	L1	Screw M	Tightening torque TA (Nm)	Transmissible torque T (Nm)	Pw** (N/mm <sup>2</sup> )	PN* (N/mm <sup>2</sup> )	Price each
RT61-10-20/SS	10	20	15,5	13	4xM2,5x12	0,5	6	33	17	20,53 €
RT61-12-22/SS	12	22	15,5	13	4xM2,5x12	0,5	7	26	15	20,79 €
RT61-14-26/SS	14	26	20,0	17	4xM3x16	0,9	13	28	15	22,24 €
RT61-15-28/SS	15	28	20,0	17	4xM3x16	0,9	14	26	14	22,66 €
RT61-16-32/SS	16	32	21,0	17	4xM4x16	2,2	28	45	23	23,96 €
RT61-18-35/SS	18	35	25,0	21	4xM4x20	2,2	32	32	17	26,02 €
RT61-19-35/SS	19	35	25,0	21	4xM4x20	2,2	34	31	17	26,09 €
RT61-20-38/SS	20	38	26,0	21	4xM5x20	4,2	55	45	24	28,02 €
RT61-22-40/SS	22	40	26,0	21	4xM5x20	4,2	61	41	23	31,44 €
RT61-24-47/SS	24	47	32,0	26	4xM6x24	7,3	96	44	23	36,62 €
RT61-25-47/SS	25	47	32,0	26	4xM6x24	7,3	100	43	23	39,49 €

Dimensions in mm

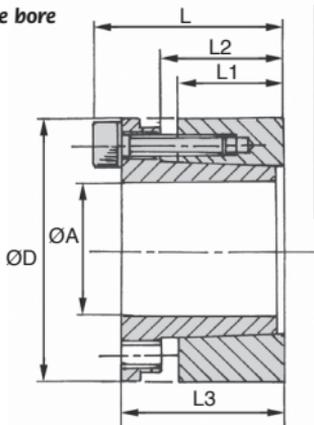
# Self-centering locking assembly Ste ★★★

## RT70

## Medium/high torque

**- Inserts between the shaft and the bore**

- High transmissible torque
- Contact pressure spread evenly
- Easy to assemble and dismantle
- Backlash free
- No constraints due to keyway
- **Increases the resistant part of the section of the shaft**
- Suitable for alternating rotational movements
- Materials:  
Body: steel  
Screws: steel DIN 912 12.9



### Options

- Other diameters available (up to 180mm bore)

### Info.

- \* PN: hub surface pressure
- \* PW: shaft surface pressure



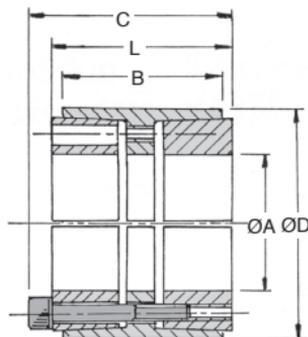
### DISCOUNTS

Qty	1+	6+	20+	40+	60+	100+
Disc.	List	-10%	-15%	-20%	-25%	On request

Part number	ØA	ØD	L1	L2	L3	L	Transmissible torque (Nm)	Pw (N/mm²)	PN (N/mm²)	Screws No.	Screws Type	Tightening torque (Nm)	Stock*	Price each 1 to 5
													✓	
RT70-19-47	19	47	26	31	39	45	350	228	98	4	M6x25	17	✓	13,69 €
RT70-20-47	20	47	26	31	39	45	390	231	100	4	M6x25	17	✓	13,69 €
RT70-22-47	22	47	26	31	39	45	440	220	95	4	M6x25	17	✓	13,69 €
RT70-24-50	24	50	26	31	39	45	519	215	102	6	M6x25	17	-	14,86 €
RT70-25-50	25	50	26	31	39	45	590	230	105	6	M6x25	17	✓	14,94 €
RT70-28-55	28	55	26	31	39	45	700	220	110	6	M6x25	17	✓	16,91 €
RT70-30-55	30	55	26	31	39	45	760	200	120	6	M6x25	17	✓	16,47 €
RT70-32-60	32	60	26	31	39	45	930	230	114	8	M6x25	17	✓	18,37 €
RT70-35-60	35	60	26	31	39	45	1030	200	119	8	M6x25	17	✓	18,50 €
RT70-38-65	38	65	26	31	39	45	1240	210	124	8	M6x25	17	-	20,85 €
RT70-40-65	40	65	26	31	39	45	1350	200	125	8	M6x25	17	✓	20,88 €
RT70-42-75	42	75	30	36	47	55	2170	236	140	6	M8x30	41	-	26,96 €
RT70-45-75	45	75	30	36	47	55	2350	236	140	6	M8x30	41	-	27,10 €
RT70-48-80	48	80	30	36	47	55	2510	218	135	6	M8x30	41	-	30,14 €
RT70-50-80	50	80	30	36	47	55	2580	218	135	6	M8x30	41	✓	30,25 €
RT70-55-85	55	85	30	36	47	55	3200	223	145	8	M8x30	41	-	34,35 €
RT70-60-90	60	90	30	36	47	55	3380	198	157	8	M8x30	41	✓	36,79 €
RT70-65-95	65	95	30	36	47	55	4160	213	140	8	M8x30	41	-	37,62 €
RT70-70-110	70	110	40	46	57	67	6840	225	143	8	M10x35	83	-	56,95 €

\*Depending of availability - Dimensions in mm

- Inserts between the shaft and the bore
- High transmissible torque
- Contact pressure spread evenly
- Easy to assembly and dismantle
- Reduced width
- Backlash free
- No constraints due to keyway
- **Increases the resistant part of the section of the shaft**
- Suitable for alternating rotational movements
- Up to 3 units can be used together
- Material: Steel

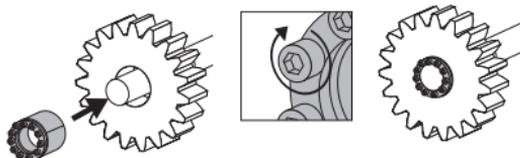


### Options

- Other diameters available (up to 300mm bore)

### Info.

- \*PN: hub surface pressure
- \*PW: shaft surface pressure



### DISCOUNTS

Qty	1+	6+	20+	40+	60+	100+
Disc.	List	-10%	-15%	-20%	-25%	On request

Part number	ØA	ØD	B	L	C	Screw M	Tightening Torque		*PW (N/mm²)	*PN (N/mm²)	Price each 1 to 5
							TA (Nm)	T (Nm)			
RTL450-25-55	25	55	32	40	46	6xM6x35	17	295	295	134	✓ 28,72 €
RTL450-30-55	30	55	32	40	46	6xM6x35	17	246	246	134	✓ 29,65 €
RTL450-35-60	35	60	44	54	60	7xM6x45	17	174	174	101	✓ 35,99 €
RTL450-38-75	38	75	44	54	62	7xM8x50	41	296	296	150	- 44,60 €
RTL450-40-75	40	75	44	54	62	7xM8x50	41	281	281	150	✓ 45,79 €
RTL450-42-75	42	75	44	54	62	7xM8x50	41	268	268	150	- 48,20 €
RTL450-45-75	45	75	44	54	62	7xM8x50	41	250	250	150	- 48,38 €
RTL450-48-80	48	80	44	54	62	8xM8x50	41	207	207	124	- 55,55 €
RTL450-50-80	50	80	56	64	72	8xM8x50	41	200	200	98	✓ 55,60 €
RTL450-55-85	55	85	56	64	72	9xM8x50	41	205	205	104	✓ 62,96 €
RTL450-60-90	60	90	56	64	72	10xM8x50	41	202	202	106	✓ 67,78 €
RTL450-65-95	65	95	56	64	72	10xM8x50	41	187	187	100	- 72,83 €
RTL450-70-110	70	110	70	78	88	10xM10x60	83	223	223	114	- 98,29 €
RTL450-75-115	75	115	70	78	88	10xM10x60	83	223	223	114	✓ 106,70 €
RTL450-80-120	80	120	70	78	88	11xM10x60	83	215	215	115	- 113,46 €
RTL450-85-125	85	125	70	78	88	12xM10x60	83	215	215	115	- 122,09 €
RTL450-90-130	90	130	70	78	88	12xM10x60	83	208	208	115	- 125,75 €
RTL450-95-135	95	135	70	78	88	12xM10x60	83	208	208	115	- 142,37 €
RTL450-100-145	100	145	90	100	112	11xM12x80	145	200	200	107	- 188,49 €

\*Depending of availability - Dimensions in mm

# Clamping assemblies

## Technical information

### Principle of operation

These parts operate on the basis of an interference fit between two conical rings screwed together. The outer ring expands and exerts a pressure on the part being held whilst the inner ring exerts a pressure on a shaft.

### Assembly

Carefully clean all the component parts and then apply a light coating of oil to the contact surfaces. Place one part in the hub and insert the shaft, then tighten the screws in a uniform fashion until the prescribed torque is reached. The Torque ( $T$ ) and Axial Force ( $F_{ax}$ ) figures in the tables have been calculated for an oiled assembly.

### Note:

Do not use Molybdenum Bisulphate based oils or greases as these can significantly reduce the frictional torque.

### Dismantling

Unscrew the screws, inserting them in the extraction holes and increasing the pressure in a gradual and uniform manner until the cones are released. When re-using the pieces, ensure that the screws and threaded holes are oiled.

### Tolerance

A good machine-finish is sufficient.

### Roughness

Maximum admissible roughness:  $R_t \text{ max } 16\mu\text{m}$

### Recommended assembly tolerances

