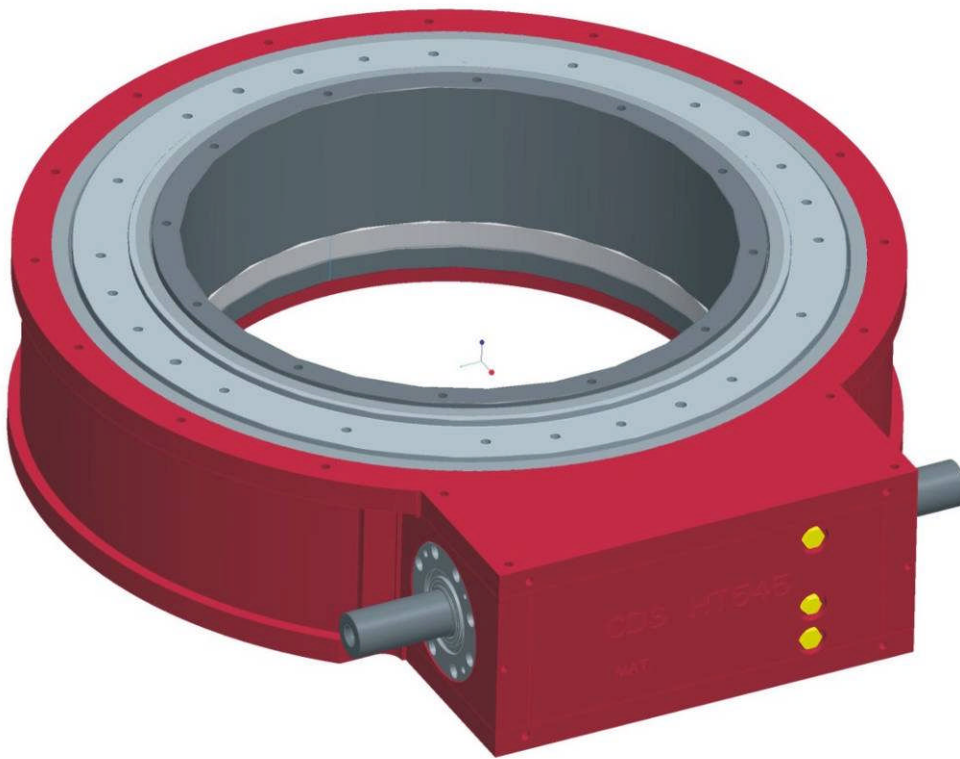




**Your Global Partner For  
Cam Motion Technology**



**RING TABLE  
HT SERIES**

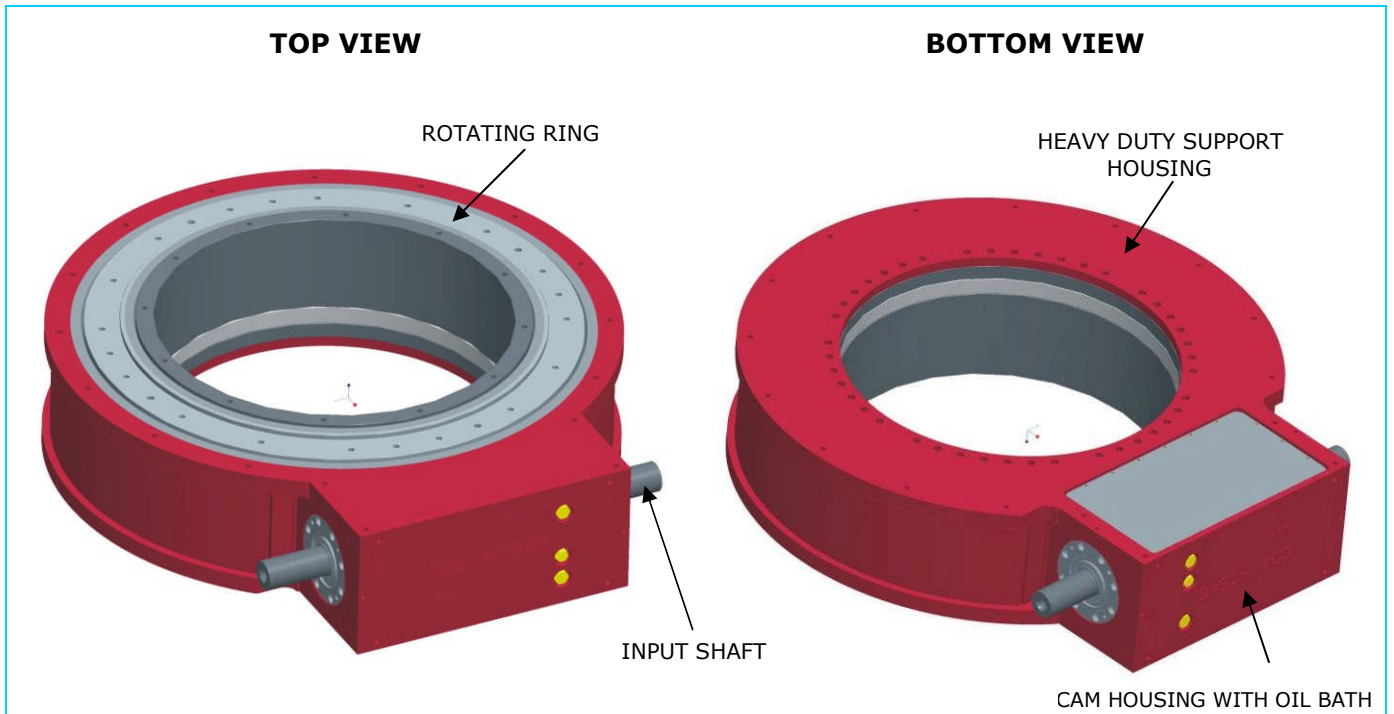
February 2011

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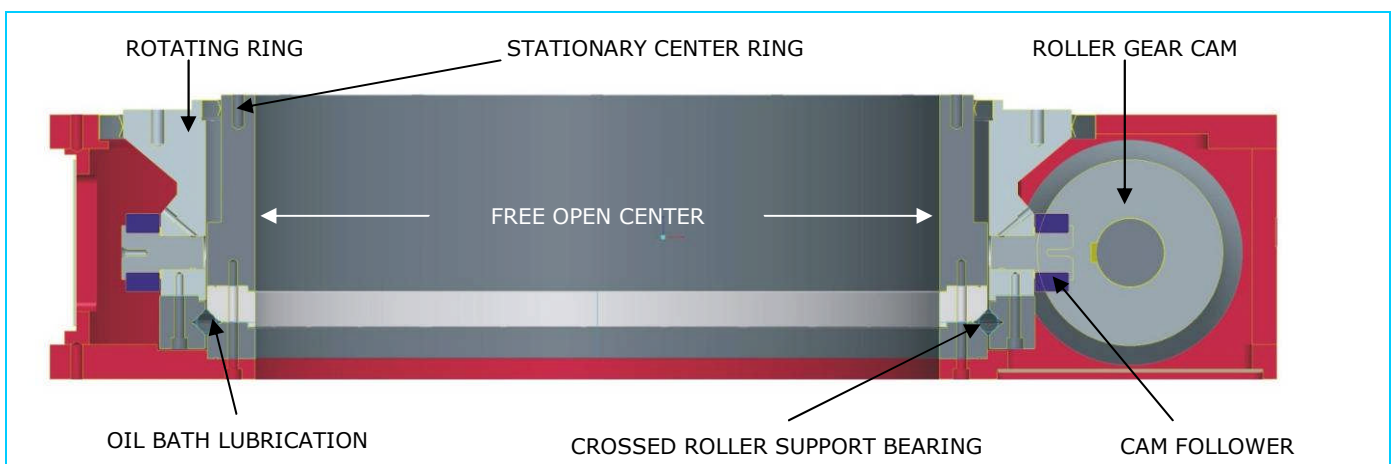
## GENERAL CHARACTERISTICS

HT series ring tables are driven by globe-shaped, roller gear cams and were developed for specific industrial automation market segments requiring the following features:

- large through central hole completely open and ready-to-be-used
- from 4 to 36+ fixed stations or fully programmable output positions using a servo motor
- "zero backlash"
- recommended for high loads and large overturning moments because of the cross-roller bearing oil-bath lubricated

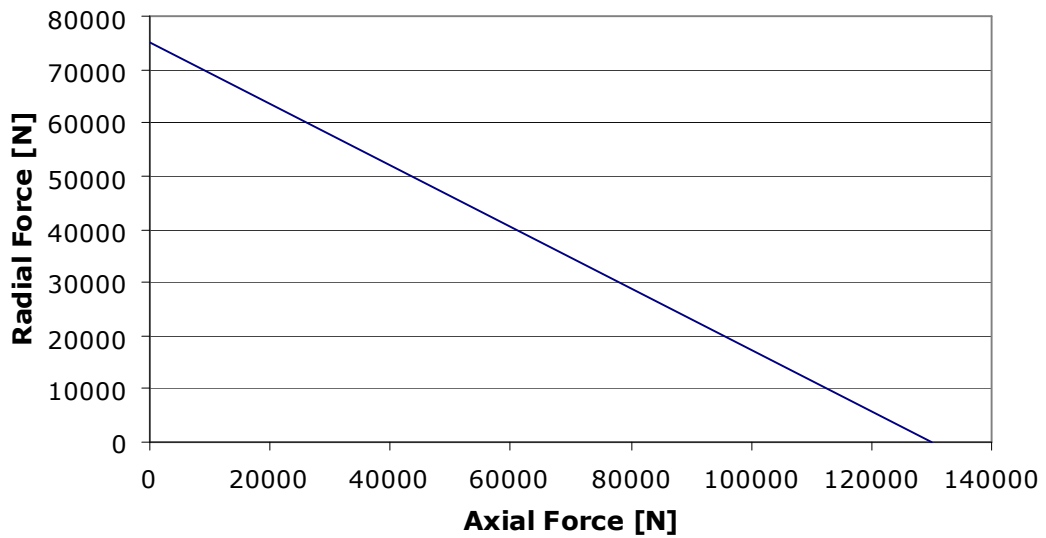
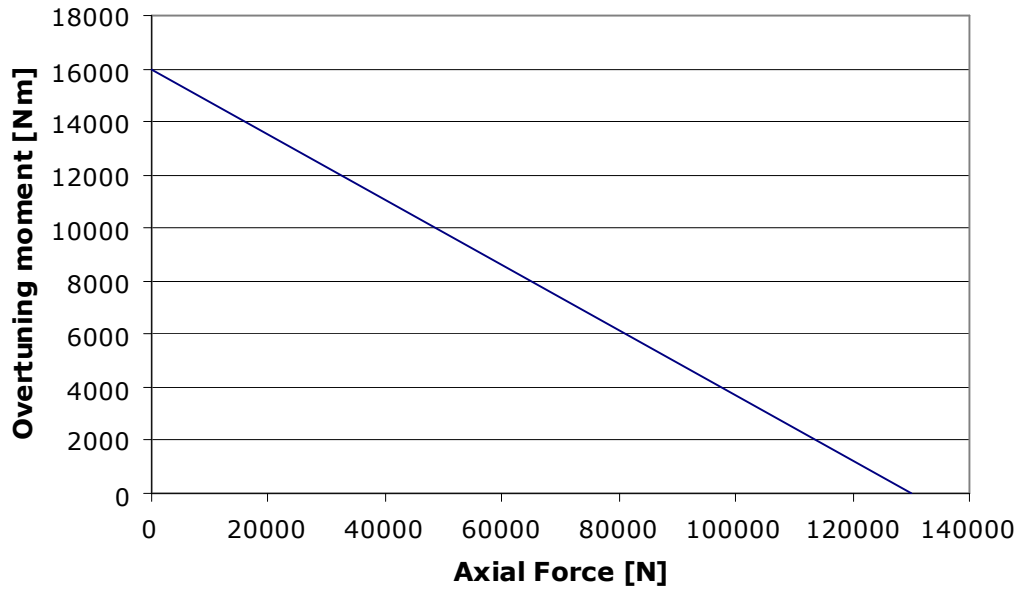


HT series ring tables are very rugged as well as extremely precise. This combination of robust construction and high precision make them especially well suited for automation equipment requiring heavy-duty load capacity and also positional accuracy.



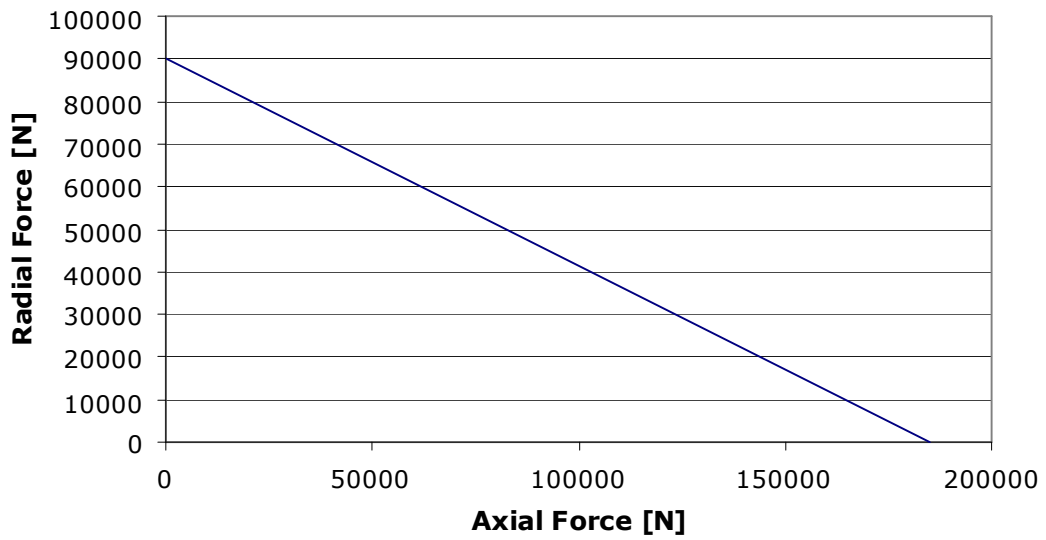
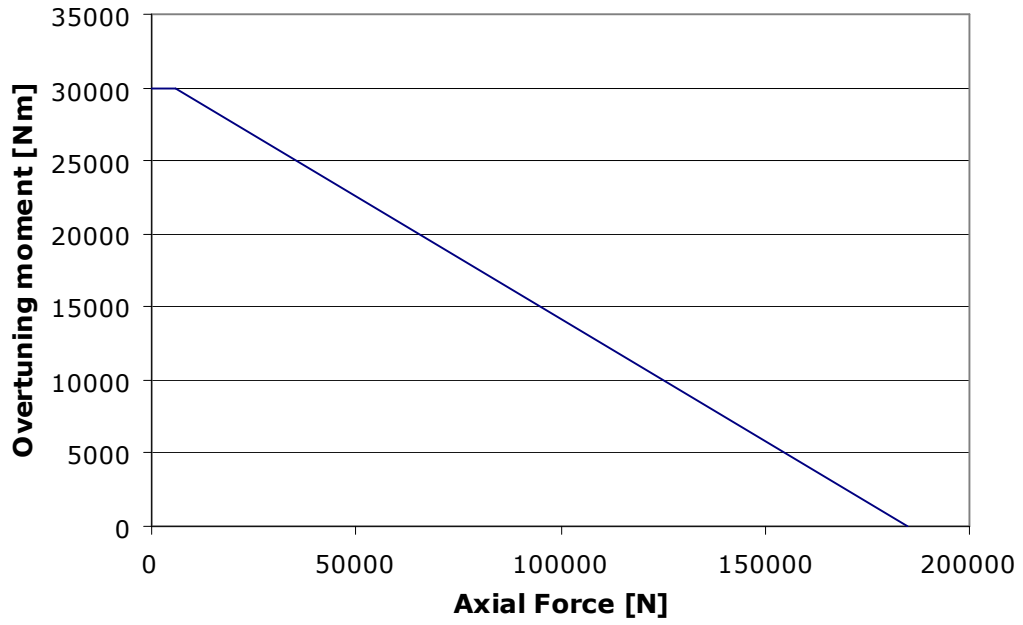
# LOADS

## HT 300



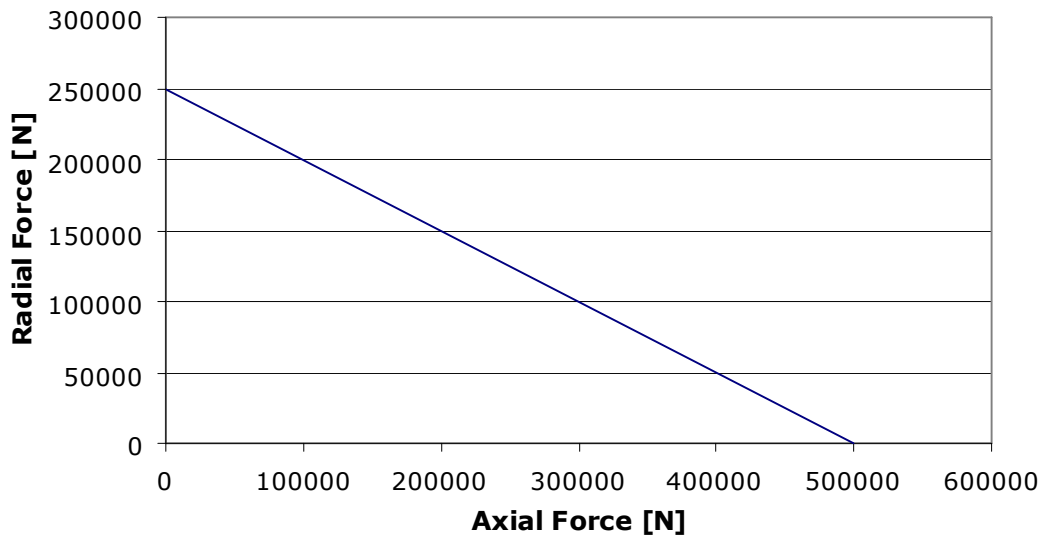
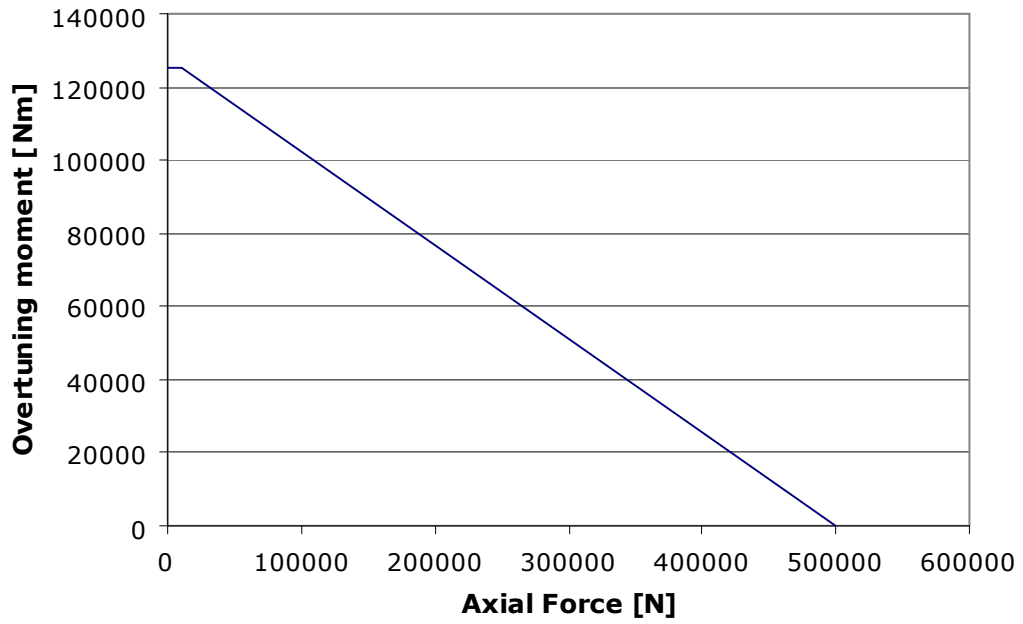
# LOADS

## HT 365



# LOADS

## HT 545



## TECHNICAL DATA - HT 300

N° of Stops Index Angle	Cycle time (sec)	Mt s (Nm)	Mt d (Nm)	J (Kgm <sup>2</sup> )	Mt in max (Nm)	Ca	Ø Roller	N° Roller
4/300°-60°	0.5	1350	700	14	210	5.53	25	16
	1	1350	700	56	210	5.53	25	16
	1.5	1350	700	126	210	5.53	25	16
4/330°-30°	0.5	1350	700	17	190	5.53	25	16
	1	1350	700	68	190	5.53	25	16
	1.5	1350	700	163	190	5.53	25	16
4/360°-0°	0.5	1500	1500	53	560	SCREW	35	16
	1	1500	1500	212	560	SCREW	35	16
	1.5	1500	1500	417	560	SCREW	35	16
6/270°-90°	0.5	2800	1500	37	340	5.53	35	12
	1	2800	1500	148	340	5.53	35	12
	1.5	2800	1500	333	340	5.53	35	12
6/330°-30°	0.5	3700	2000	72	360	5.53	40	12
	1	3700	2000	288	360	5.53	40	12
	1.5	3700	2000	648	360	5.53	40	12
6/360°-0°	0.5	3200	3200	169	800	SCREW	50	12
	1	3200	3200	676	800	SCREW	50	12
	1.5	3200	3200	1521	800	SCREW	50	12
8/220°-140°	0.5	2800	1500	32	310	5.53	35	16
	1	2800	1500	128	310	5.53	35	16
	1.5	2800	1500	288	310	5.53	35	16
8/330°-30°	0.5	3700	2000	96	270	5.53	40	16
	1	3700	2000	384	270	5.53	40	16
	1.5	3700	2000	864	270	5.53	40	16
8/360°-0°	0.5	3500	3500	245	650	SCREW	50	16
	1	3500	3500	980	650	SCREW	50	16
	1.5	3500	3500	2205	650	SCREW	50	16
16/120°-240°	0.5	3600	1600	20	300	5.53	40	16
	1	3600	1600	80	300	5.53	40	16
	1.5	3600	1600	180	300	5.53	40	16
16/330°-30°	0.5	5800	4000	390	280	5.53	40	16
	1	5800	4000	1560	280	5.53	40	16
	1.5	5800	4000	3510	280	5.53	40	16
16/360°-0°	0.5	3500	3500	600	400	SCREW	50	16
	1	3500	3500	2400	400	SCREW	50	16
	1.5	3500	3500	5400	400	SCREW	50	16
24/90°-270°	0.5	1900	800	8	130	5.53	30	24
	1	1900	800	32	130	5.53	30	24
	1.5	1900	800	72	130	5.53	30	24
24/330°-30°	0.5	3500	2800	405	130	5.53	40	24
	1	3500	2800	1620	130	5.53	40	24
	1.5	3500	2800	3645	130	5.53	40	24
24/360°-0°	0.5	4250	4250	610	180	SCREW	40	24
	1	4250	4250	2440	180	SCREW	40	24
	1.5	4250	4250	5490	180	SCREW	40	24
36/70°-290°	0.5	1000	400	2.8	68	5.53	20	36
	1	1000	400	11.2	68	5.53	20	36
	1.5	1000	400	25.2	68	5.53	20	36
36/330°-30°	0.5	1350	1200	260	38	5.53	25	36
	1	1350	1200	1040	38	5.53	25	36
	1.5	1350	1200	2340	38	5.53	25	36
36/360°-0°	0.5	1600	1600	510	66	SCREW	30	36
	1	1600	1600	2040	66	SCREW	30	36
	1.5	1600	1600	4590	66	SCREW	30	36

**Mts** = Static output torque  
**Mt in max** = torque to the input camshaft

**Mtd** = Dynamic output torque  
**Ca** = Coefficient of acceleration

**J** = max. mass inertia  
of the loads

## TECHNICAL DATA - HT 365

N° of Stops Index Angle	Cycle time (sec)	Mt s (Nm)	Mt d (Nm)	J (Kgm <sup>2</sup> )	Mt in max (Nm)	Ca	Ø Roller	N° Roller
4/300°-60°	0.5	2400	1000	20	300	5.53	30	16
	1	2400	1000	80	300	5.53	30	16
	1.5	2400	1000	180	300	5.53	30	16
4/330°-30°	0.5	2400	1000	24	280	5.53	30	16
	1	2400	1000	96	280	5.53	30	16
	1.5	2400	1000	216	280	5.53	30	16
4/360°-0°	0.5	2500	2500	88	950	SCREW	40	16
	1	2500	2500	352	950	SCREW	40	16
	1.5	2500	2500	792	950	SCREW	40	16
6/270°-90°	0.5	3500	1700	40	370	5.53	35	18
	1	3500	1700	160	370	5.53	35	18
	1.5	3500	1700	360	370	5.53	35	18
6/330°-30°	0.5	4500	2500	90	450	5.53	40	18
	1	4500	2500	340	450	5.53	40	18
	1.5	4500	2500	810	450	5.53	40	18
6/360°-0°	0.5	4000	4000	210	1000	SCREW	50	18
	1	4000	4000	840	1000	SCREW	50	18
	1.5	4000	4000	1890	1000	SCREW	50	18
8/220°-140°	0.5	4500	2400	51	490	5.53	40	16
	1	4500	2400	204	490	5.53	40	16
	1.5	4500	2400	459	490	5.53	40	16
8/330°-30°	0.5	7200	4500	220	620	5.53	50	16
	1	7200	4500	880	620	5.53	50	16
	1.5	7200	4500	1980	620	5.53	50	16
8/360°-0°	0.5	6800	6800	480	1300	SCREW	60	16
	1	6800	6800	1920	1300	SCREW	60	16
	1.5	6800	6800	4320	1300	SCREW	60	16
16/120°-240°	0.5	4500	2000	25	380	5.53	40	16
	1	4500	2000	100	380	5.53	40	16
	1.5	4500	2000	225	380	5.53	40	16
16/330°-30°	0.5	10000	7000	680	470	5.53	60	16
	1	10000	7000	2720	470	5.53	60	16
	1.5	10000	7000	6120	470	5.53	60	16
16/360°-0°	0.5	7500	7500	1060	700	SCREW	60	16
	1	7500	7500	4240	700	SCREW	60	16
	1.5	7500	7500	9540	700	SCREW	60	16
24/90°-270°	0.5	3500	1200	12	200	5.53	35	24
	1	3500	1200	48	200	5.53	35	24
	1.5	3500	1200	108	200	5.53	35	24
24/330°-30°	0.5	7100	5300	770	240	5.53	40	24
	1	7100	5300	3080	240	5.53	40	24
	1.5	7100	5300	6930	240	5.53	40	24
24/360°-0°	0.5	5500	5500	1170	350	SCREW	40	24
	1	5500	5500	4680	350	SCREW	40	24
	1.5	5500	5500	10530	350	SCREW	40	24
36/70°-290°	0.5	1600	650	6	95	5.53	25	36
	1	1600	650	24	95	5.53	25	36
	1.5	1600	650	54	95	5.53	25	36
36/330°-30°	0.5	3400	3000	650	90	5.53	35	36
	1	3400	3000	2600	90	5.53	35	36
	1.5	3400	3000	5850	90	5.53	35	36
36/360°-0°	0.5	3000	3000	950	125	SCREW	35	36
	1	3000	3000	3800	125	SCREW	35	36
	1.5	3000	3000	8550	125	SCREW	35	36

**Mts** = Static output torque  
**Mt in max** = torque to the input camshaft

**Mtd** = Dynamic output torque  
**Ca** = Coefficient of acceleration

**J** = max. mass inertia  
of the loads

## TECHNICAL DATA - HT 545

N° of Stops Index Angle	Cycle time (sec)	Mt s (Nm)	Mt d (Nm)	J (Kgm^2)	Mt in max (Nm)	Ca	Ø Roller	N° Roller
4/300°-60°	0.5	6800	2500	40	760	5.53	40	16
	1	6800	2500	160	760	5.53	40	16
	1.5	6800	2500	360	760	5.53	40	16
4/330°-30°	0.5	6800	2600	62	710	5.53	40	16
	1	6800	2600	248	710	5.53	40	16
	1.5	6800	2600	558	710	5.53	40	16
4/360°-0°	0.5	6500	6500	220	2400	SCREW	60	16
	1	6500	6500	880	2400	SCREW	60	16
	1.5	6500	6500	1980	2400	SCREW	60	16
6/270°-90°	0.5	6600	3200	75	700	5.53	40	18
	1	6600	3200	300	700	5.53	40	18
	1.5	6600	3200	675	700	5.53	40	18
6/330°-30°	0.5	10600	6000	210	1100	5.53	50	18
	1	10600	6000	840	1100	5.53	50	18
	1.5	10600	6000	1890	1100	5.53	50	18
6/360°-0°	0.5	13000	13000	680	3200	SCREW	80	18
	1	13000	13000	2720	3200	SCREW	80	18
	1.5	13000	13000	6120	3200	SCREW	80	18
8/220°-140°	0.5	10700	5400	110	1100	5.53	50	16
	1	10700	5400	440	1100	5.53	50	16
	1.5	10700	5400	990	1100	5.53	50	16
8/330°-30°	0.5	14600	8800	420	1200	5.53	60	16
	1	14600	8800	1680	1200	5.53	60	16
	1.5	14600	8800	3780	1200	5.53	60	16
8/360°-0°	0.5	13000	13000	910	2400	SCREW	80	16
	1	13000	13000	3640	2400	SCREW	80	16
	1.5	13000	13000	8190	2400	SCREW	80	16
16/120°-240°	0.5	14600	6000	73	1120	5.53	60	16
	1	14600	6000	292	1120	5.53	60	16
	1.5	14600	6000	657	1120	5.53	60	16
16/330°-30°	0.5	23600	15000	1400	1000	5.53	80	16
	1	23600	15000	5600	1000	5.53	80	16
	1.5	23600	15000	12600	1000	5.53	80	16
16/360°-0	0.5	16000	16000	2260	1500	SCREW	80	16
	1	16000	16000	9040	1500	SCREW	80	16
	1.5	16000	16000	20340	1500	SCREW	80	16
24/90°-270°	0.5	10500	3700	36	620	5.53	50	24
	1	10500	3700	144	620	5.53	50	24
	1.5	10500	3700	324	620	5.53	50	24
24/330°-30	0.5	23000	17000	2460	770	5.53	80	24
	1	23000	17000	9840	770	5.53	80	24
	1.5	23000	17000	22140	770	5.53	80	24
24/360°-0°	0.5	18000	18000	3800	1100	SCREW	80	24
	1	18000	18000	15200	1100	SCREW	80	24
	1.5	18000	18000	34200	1100	SCREW	80	24
36/70°-290°	0.5	5000	2100	18	290	5.53	35	36
	1	5000	2100	72	290	5.53	35	36
	1.5	5000	2100	162	290	5.53	35	36
36/330°-30°	0.5	10400	9200	2000	280	5.53	50	36
	1	10400	9200	8000	280	5.53	50	36
	1.5	10400	9200	18000	280	5.53	50	36
36/360°-0°	0.5	9400	9400	3000	400	SCREW	50	36
	1	9400	9400	12000	400	SCREW	50	36
	1.5	9400	9400	27000	400	SCREW	50	36

**Mts** = Static output torque  
**Mt in max** = torque to the input camshaft

**Mtd** = Dynamic output torque  
**Ca** = Coefficient of acceleration

**J** = max. mass inertia  
of the loads

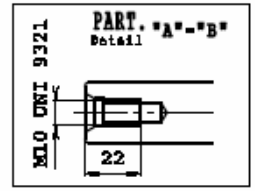
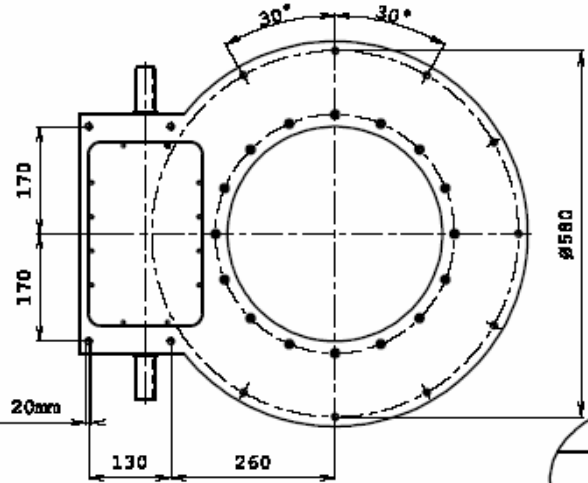
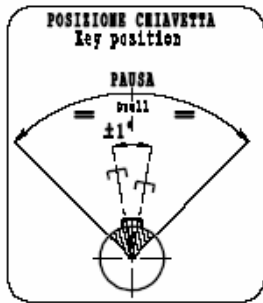


Rif.to CAD Reference  
 File : HT 300.DXF

# TAVOLA ROTANTE HT 300

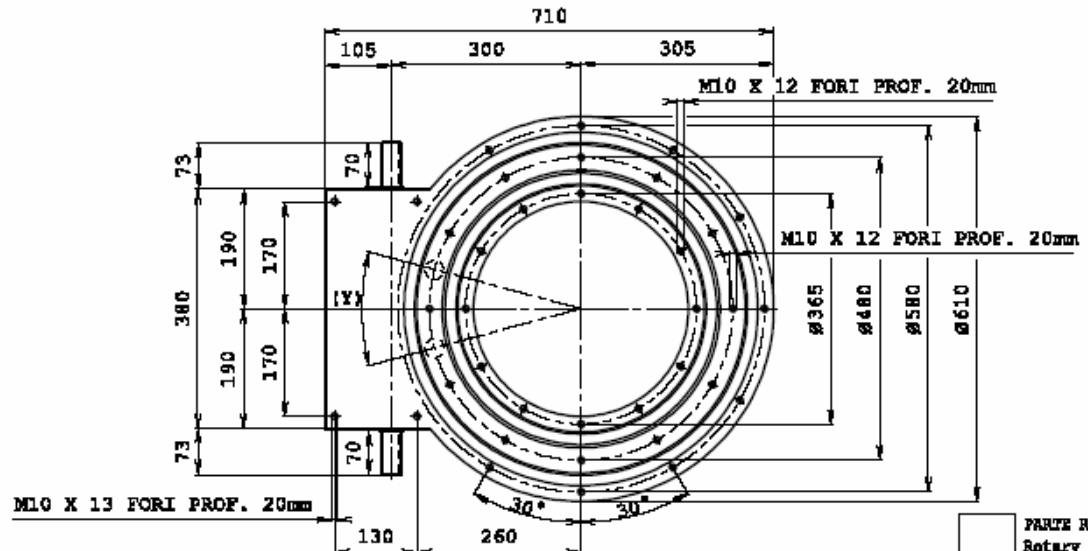
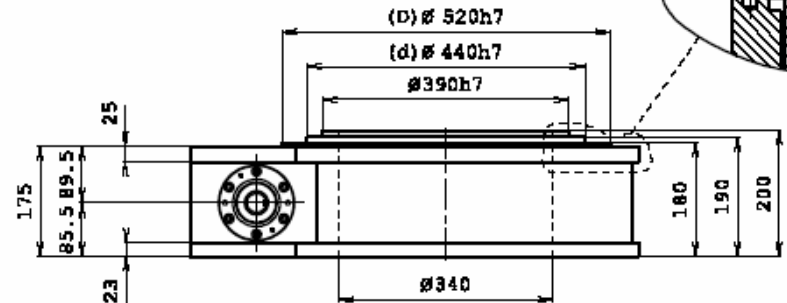
## Rotary Index Table

PESO - Weight  
 Kg 250 | Lbs 550



M10 X 13 FORI PROF. 20mm

PARTE ROTANTE



PARTE ROTANTE  
 Rotary

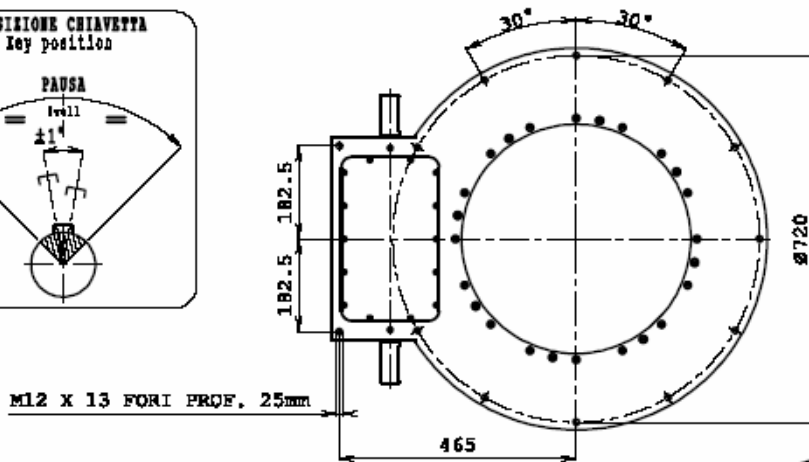
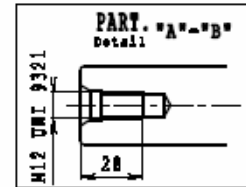
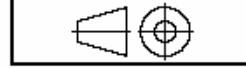
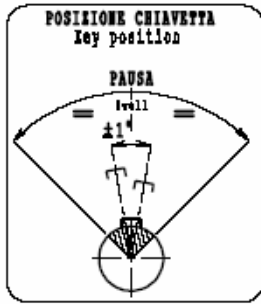
 ALBERO SERAFI A - B	Riferimento Referred to	Concentricita' Concentricity	Planarita' Flatness	Ripetibilita' - Repeatability			(Y) Posizione Fori Bolt holes position
				Standard	3 Principles 3 Cycles	3 Principles 3 Cycles	
d		±0.05			*		0.7mm 10'
D		±0.05					
Dp				±0.05	±0.06	±0.07	

Rif. to CAD Reference  
File : HT 365.DXF

# TAVOLA ROTANTE HT 365

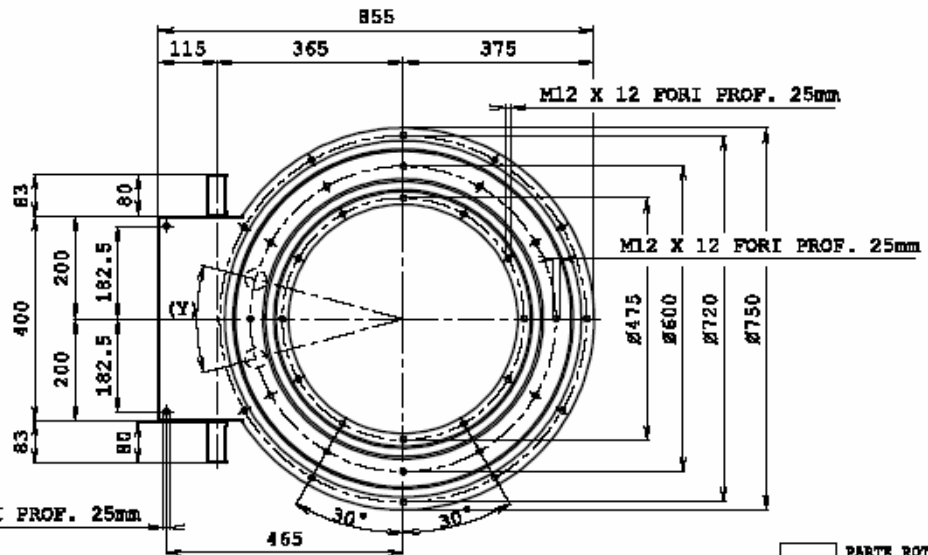
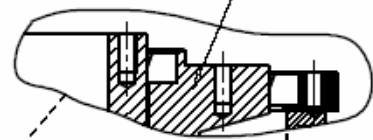
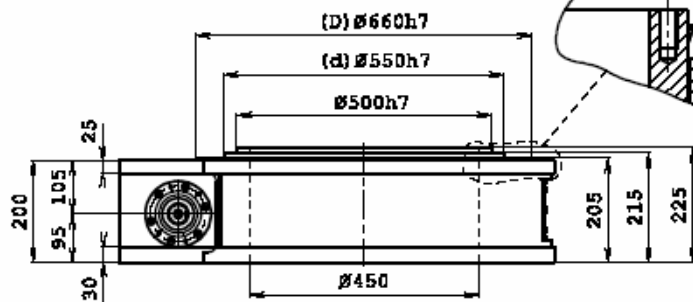
## Rotary Index Table

PESO - Weight  
Kg 370  
Lbs 814



M12 X 13 FORI PROF. 25mm

PARTE ROTANTE



M12 X 13 FORI PROF. 25mm

PARTE ROTANTE  
Rotary

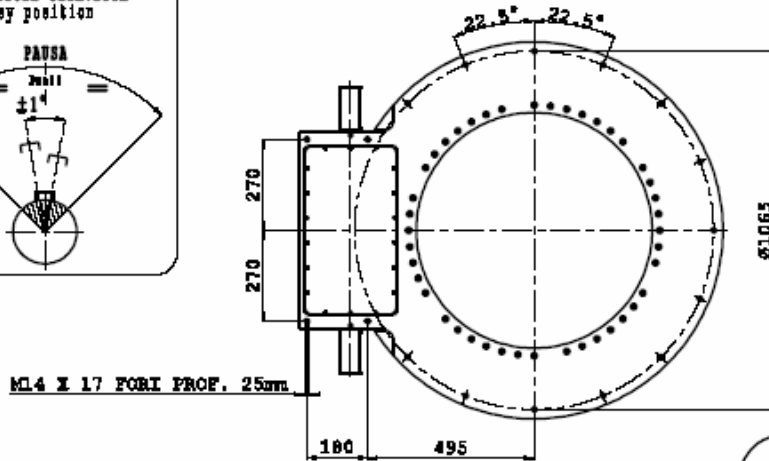
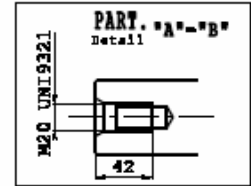
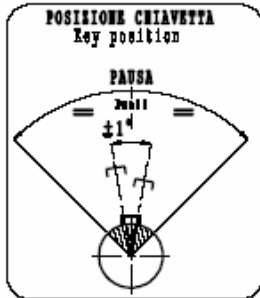
ALBERO SHAFT A - B					Riferimento Referred to	Concentricita' Concentricity	Planarita' Flatness	Ripetibilita' - Repeatability			(Y)
d	d1	a	b	c	d	D	Dp	±0.05	±0.06	±0.07	Posizione fori Bolt holes position
Diametro STD Standard o.d.	k6 35	38	10	3	D	±0.05					0.8mm
Diametro MAX Maximum o.d.	h6 40	43	12	5	Dp		±0.05	±0.06	±0.07		9°

Rif. to CAD Reference  
File : HT 545.DXF

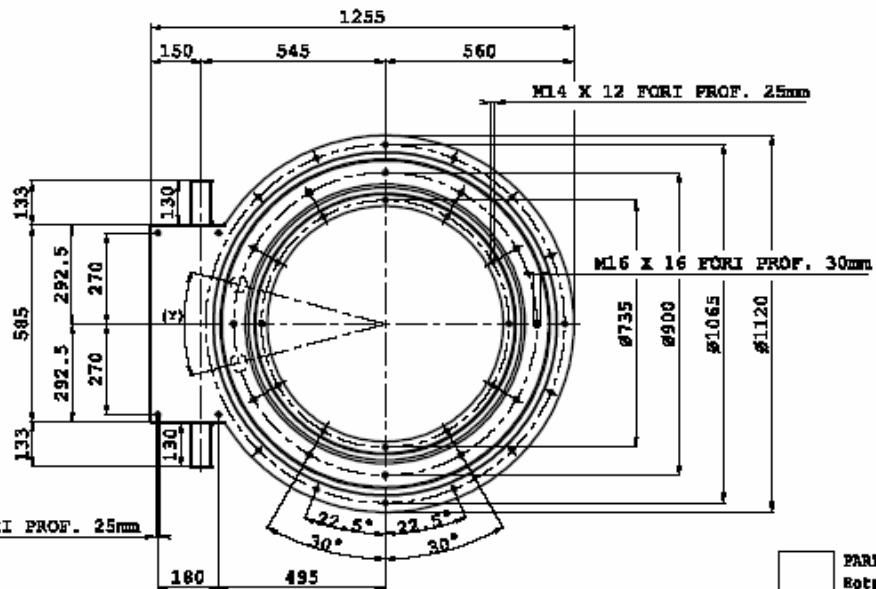
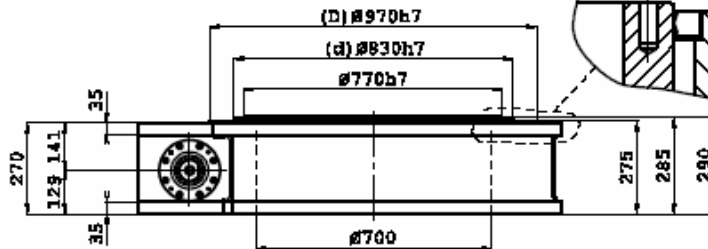
# TAVOLA ROTANTE HT 545

## Rotary Index Table

PESO - Weight  
Kg Lbs  
950 2090



PARTE ROTANTE



PARTE ROTANTE  
Rotary

	ALBERO SHAFT A - B				Riferimento Referred to	Concentricità Concentricity	Planarità Flatness	Ripetibilità - Repeatability			(Y) Posizione fori Bolt holes position
	d1	a	b	c				Standard	2 scalini 2 steps	3 scalini 3 steps	
Diametro MD Standard s.d. Diametro MM Maximo s.d.	x6 60 x6 65	64	18	11	D	±0.07	±0.07	±0.06	±0.07	±0.08	Inum 7'
					Dp						



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