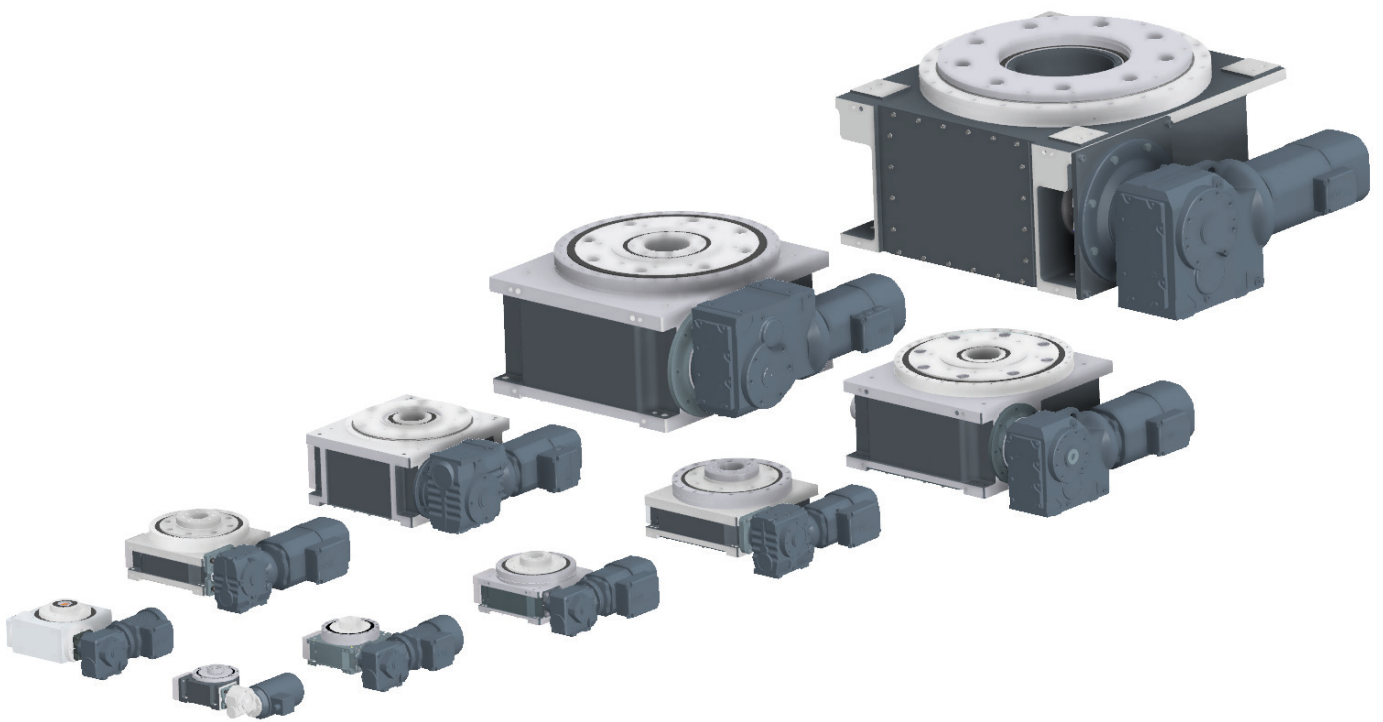


# TAKTOMAT

passion for automation

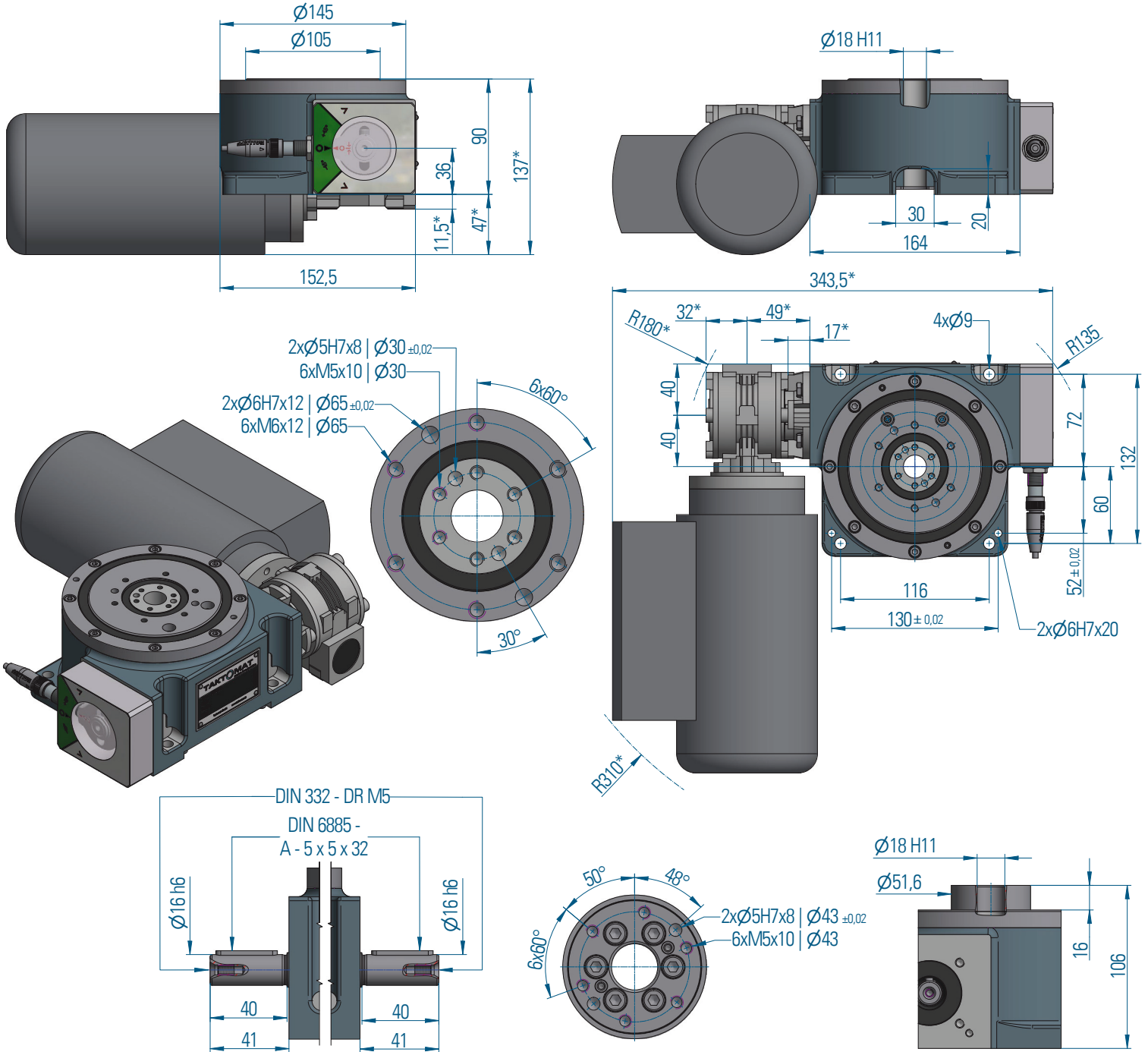


## Rotary indexers

TYPE RTX

# RTX350

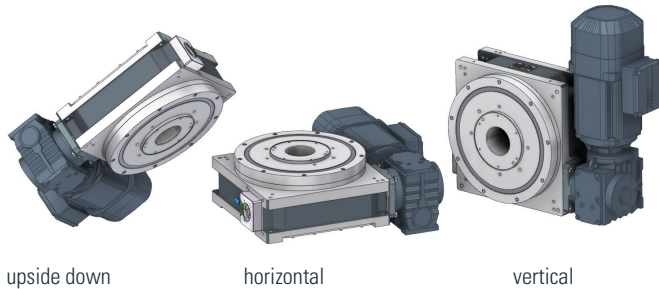
## Main dimensions



\* Dimensions depend on the used drive

# RTX350

## Fitting position

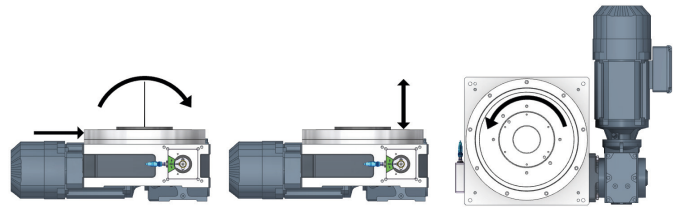


upside down

horizontal

vertical

## Load on output flange



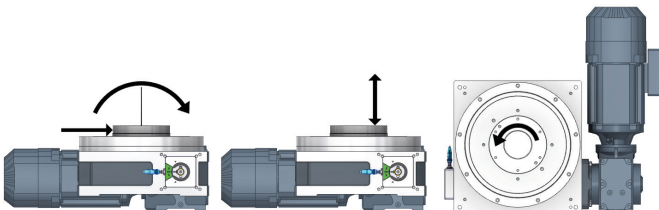
Radial force  $F_{rA}$  [kN] 10

Axial force  $F_{aA}$  [kN] 11

Torque on output flange [Nm] 376

Tilting moment  $M_{kA}$  [kNm] 0,6

## Load on central column



Radial force  $F_{rM}$  [kN] 1,5

Axial force  $F_{aM}$  [kN] 7

Torque on output flange [Nm] 10

Tilting moment  $M_{kM}$  [kNm] 0,1

## Precision

Axial runout on the output flange $\varnothing$ [mm]	0,01
Runout on the output flange $\varnothing$ [mm]	0,01
Indexing accuracy * in angular seconds ["]	$\pm 45$

\* Accessible through selected components

„From division 16, the division error due to multi-point locks on the drive cam is larger by a factor of 1.5“

**Combined loads and possible process forces must be confirmed by TAKTOMAT.**

## Dimensions

Output flange $\varnothing$	[mm]	105
Overall height (output flange screw-on surface)	[mm]	90
Center opening $\varnothing$	[mm]	18
Recommended max. size of rotating plate $\varnothing$	[mm]	600
Index table weight	[kg]	15
Number of indexes Other numbers on request	n	2, 3, 4, 6, 8, 10, 12, 16, 20, 24, 30, 36

## Standard drive

Motor size		IEC56
Gear size (Center distance)		28
Voltage (other voltages on request)	[V]	230 / 400
Power	[kW]	0,06 - 0,18

# RTX350 Load table



Speed	Step	1	2	3	4	5	6	7	8	9	10	11	12	13
<b>n</b>	t													
	J <sub>Max</sub>													
<b>2</b>	t			0,38	0,57	0,76	1,07	1,52	1,87	2,18	2,73	3,11		
	J <sub>Max</sub>			2,50	5,63	10,02	19,65	40,11	60,20	82,11	128,30	167,57		
	J <sub>L</sub>			0,75	1,91	3,70	8,04	18,26	29,13	41,63	69,56	94,57		
<b>3</b>	J			0,09	0,39	0,34	0,99	3,10	5,47	4,48	8,11	12,79		
	t			0,38	0,57	0,76	1,07	1,52	1,87	2,18	2,73	3,11		
	J <sub>Max</sub>			4,16	9,37	16,66	32,66	66,66	100,04	136,45	213,21	278,48		
<b>4</b>	J <sub>L</sub>			1,44	3,67	7,11	15,43	35,06	55,92	79,91	133,50	181,50		
	J			0,24	0,91	0,83	2,33	7,20	12,62	10,53	18,93	29,67		
	t			0,36	0,54	0,71	1,00	1,43	1,75	2,04	2,56	2,92		
<b>5</b>	J <sub>Max</sub>			4,98	11,22	19,95	39,11	79,83	119,80	163,41	255,33	333,49		
	J <sub>L</sub>			1,95	4,97	9,65	20,92	47,53	75,80	108,33	180,98	246,05		
	J			0,37	1,38	1,29	3,56	10,84	18,93	16,02	28,65	44,66		
<b>6</b>	t			0,36	0,54	0,71	1,00	1,43	1,75	2,04	2,56	2,92		
	J <sub>Max</sub>			8,21	18,49	32,88	64,46	131,55	197,42	269,27	420,74	549,54		
	J <sub>L</sub>			3,60	9,15	17,74	38,48	87,41	139,40	199,20	332,81	452,46		
<b>8</b>	J			0,85	3,09	3,02	8,08	24,08	41,77	36,18	64,22	99,24		
	t			0,36	0,54	0,71	1,00	1,43	1,75	2,04	2,56	2,92		
	J <sub>Max</sub>			11,02	24,81	44,12	86,48	176,50	264,86	361,26	564,48	737,28		
<b>10</b>	J <sub>L</sub>			5,36	13,62	26,41	57,26	130,07	207,45	296,44	495,26	673,31		
	J			1,62	5,73	5,76	15,15	44,39	76,64	67,56	119,23	183,02		
	t			0,36	0,54	0,71	1,00	1,43	1,75	2,04	2,56	2,92		
<b>12</b>	J <sub>Max</sub>			13,82	31,10	55,29	108,38	221,19	331,92	452,73	707,40	923,95		
	J <sub>L</sub>			7,25	18,43	35,72	77,46	175,94	280,60	400,97	669,89	910,73		
	J			2,67	9,25	9,54	24,71	71,49	122,93	109,91	193,08	294,83		
<b>16</b>	t			0,36	0,54	0,71	1,00	1,43	1,75	2,04	2,56	2,92		
	J <sub>Max</sub>			16,60	37,37	66,44	130,23	265,78	398,84	544,00	850,00	1110,20		
	J <sub>L</sub>			8,90	22,64	43,88	95,16	216,14	344,71	492,58	822,95	1110,20		
<b>20</b>	J			4,01	13,68	14,38	36,84	105,51	180,86	163,51	286,21	435,24		
	t	0,16	0,24	0,33	0,46	0,64	0,79	0,92	1,15	1,31				
	J <sub>Max</sub>	4,45	10,02	18,62	36,50	71,33	107,05	146,01	228,14	297,99				
<b>24</b>	J <sub>L</sub>	3,39	8,64	17,61	36,50	71,33	107,05	146,01	228,14	297,99				
	J	0,68	2,28	2,64	6,67	17,60	30,05	27,60	48,07	72,67				
	t	0,16	0,24	0,33	0,46	0,64	0,79	0,92	1,15	1,31				
<b>30</b>	J <sub>Max</sub>	5,58	12,57	23,35	45,78	89,47	134,26	183,13	286,14	373,73				
	J <sub>L</sub>	4,60	11,69	23,35	45,78	89,47	134,26	183,13	286,14	373,73				
	J	1,11	3,67	4,31	10,78	28,21	48,00	44,55	77,34	116,47				
<b>36</b>	t	0,16	0,24	0,33	0,46	0,64	0,79	0,92	1,15	1,31				
	J <sub>Max</sub>	6,71	15,12	28,07	55,03	107,56	161,41	220,15	344,00	449,30				
	J <sub>L</sub>	5,65	14,36	28,07	55,03	107,56	161,41	220,15	344,00	449,30				
<b>From n=36</b>	J	1,64	5,39	6,40	15,89	41,34	70,20	65,63	113,68	170,72				
	t	0,16	0,24	0,33	0,46	0,64	0,79	0,92	1,15	1,31				
	J <sub>Max</sub>	3,89	8,76	16,27	31,90	62,35	93,56	127,62	199,41	260,46				
<b>From n=36</b>	J <sub>L</sub>	3,36	8,55	16,27	31,90	62,35	93,56	127,62	199,41	260,46				
	J	2,64	8,55	10,29	25,39	62,35	93,56	104,78	181,10	260,46				
	t	0,16	0,22	0,31	0,44	0,61	0,77	0,88						
<b>From n=36</b>	J <sub>Max</sub>	10,08	18,71	36,68	74,87	146,76	229,31	299,51						
	J <sub>L</sub>	10,08	18,71	36,68	74,87	146,76	229,31	299,51						
	J	3,67	4,43	10,91	30,03	45,00	77,68	116,21						

n = Number of stops / 360°  
revolution of output flange  
t = Step time in [s]

J<sub>Max</sub> = Mass moment of inertia  
(base plate + fixtures and parts) in [Kgm²]  
Without motor and lifetime

J<sub>L</sub> = Mass moment of inertia by life time  
(base plate + fixtures and parts) in [Kgm²]

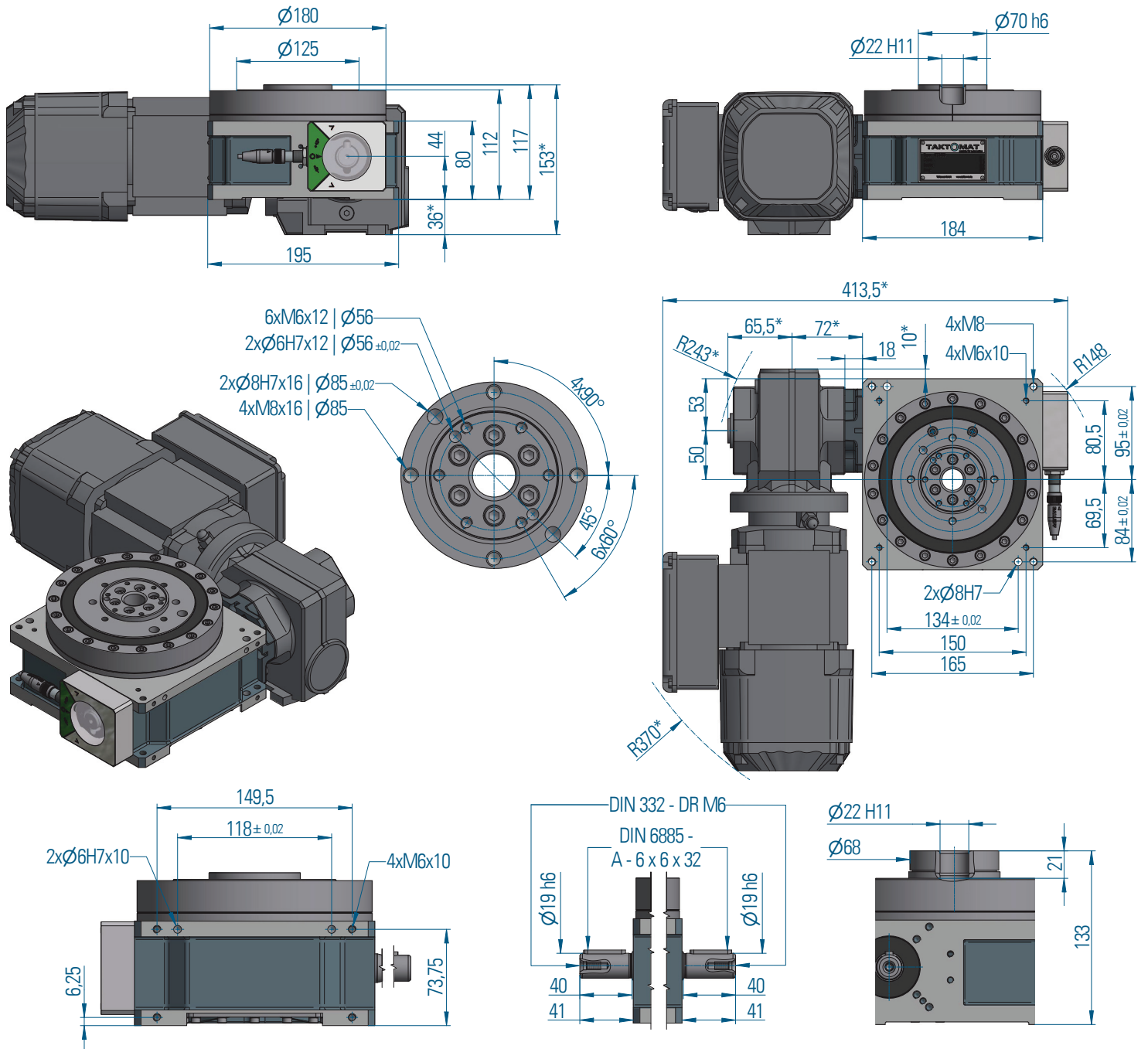
J = Mass moment of inertia with motor  
(base plate + fixtures and parts) in [Kgm²]

From n=16 The output flange steps  
2 times per cam revolution

From n=36 The output flange steps  
3 times per cam revolution

# RTX450

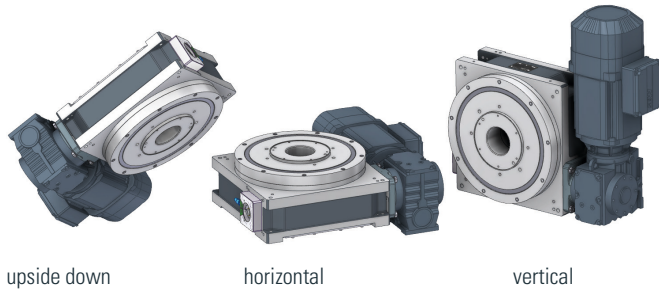
## Main dimensions



\* Dimensions depend on the used drive

# RTX450

## Fitting position

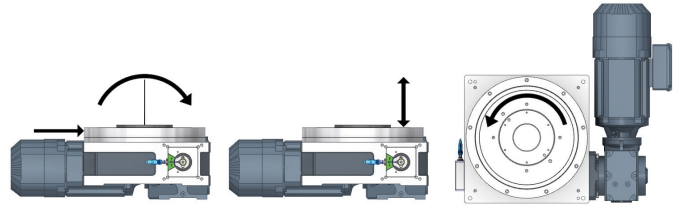


upside down

horizontal

vertical

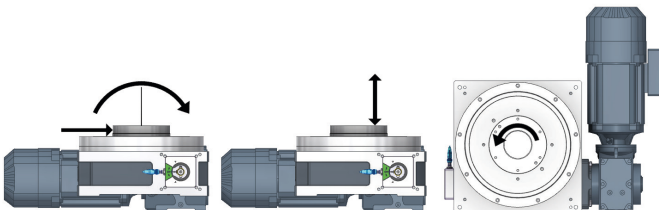
## Load on output flange



Radial force  $F_{rA}$  [kN] 17,5    Axial force  $F_{aA}$  [kN] 20    Torque on output flange [Nm] 322

Tilting moment  $M_{kA}$  [kNm] 1,3

## Load on central column



Radial force  $F_{rM}$  [kN] 2,7    Axial force  $F_{aM}$  [kN] 18    Torque on output flange [Nm] 77

Tilting moment  $M_{kM}$  [kNm] 0,36

## Precision

Axial runout on the output flange $\varnothing$ [mm]	0,01
Runout on the output flange $\varnothing$ [mm]	0,01
Indexing accuracy * in angular seconds ["]	$\pm 35$

\* Accessible through selected components

„From division 16, the division error due to multi-point locks on the drive cam is larger by a factor of 1.5“

**Combined loads and possible process forces must be confirmed by TAKTOMAT.**

## Dimensions

Output flange $\varnothing$	[mm]	125
Overall height (output flange screw-on surface)	[mm]	112
Center opening $\varnothing$	[mm]	22
Recommended max. size of rotating plate $\varnothing$	[mm]	800
Index table weight	[kg]	30
Number of indexes Other numbers on request	n	2, 3, 4, 6, 8, 10, 12, 16, 20, 24, 30, 36

## Standard drive

Motor size		IEC63-71
Gear size (Center distance)		37 / 19
Voltage (other voltages on request)	[V]	230 / 400
Power	[kW]	0,12 – 1,5

# RTX450 Load table

n = Number of stops / 360°  
revolution of output flange  
t = Step time in [s]

$J_{Max}$  = Mass moment of inertia  
(base plate + fixtures and parts) in [Kgm<sup>2</sup>]  
Without motor and lifetime

$J_L$  = Mass moment of inertia by life time  
(base plate + fixtures and parts) in [Kgm<sup>2</sup>]

J = Mass moment of inertia with motor  
(base plate + fixtures and parts) in [Kgm<sup>2</sup>]

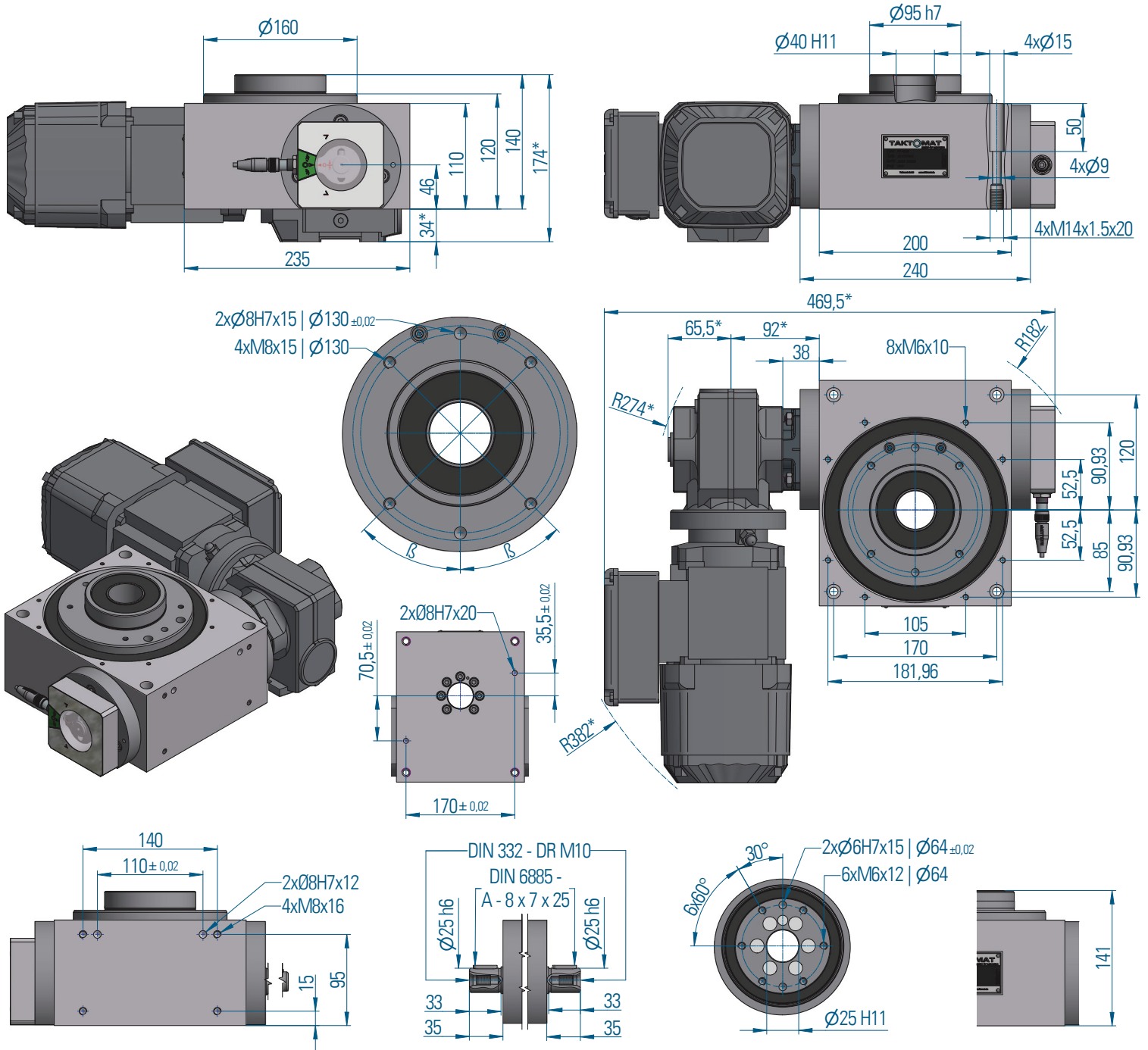
Speed	Step	1	2	3	4	5	6	7	8	9	10	11	12	13		
2	n															
	t		0,25	0,38	0,55	0,75	1,04	1,52	1,79	2,21	2,45	2,89	3,32	4,28		
	$J_{Max}$		0,81	1,96	4,13	7,68	14,88	31,78	44,09	66,96	82,25	114,40	151,48	251,87		
	$J_L$		0,21	0,59	1,4	2,86	6,14	14,7	21,41	34,63	43,87	64,11	88,55	158,9		
	J		0,06	0,59	0,58	1,55	4,05	8,93	21,41	33,11	43,87	51,06	88,55	158,90		
	3	t		0,252	0,35	0,55	0,71	1,00	1,44	1,77	2,07	2,21	2,60	3,27	3,99	
		$J_{Max}$		1,32	2,62	6,33	10,54	20,81	43,56	65,44	90,27	102,48	141,84	224,84	334,85	
		$J_L$		0,43	0,94	2,61	4,69	10,26	24,01	38,33	55,49	64,21	93,31	158,5	250,58	
		J		0,42	0,86	1,36	4,69	10,26	24,01	32,48	53,63	64,21	93,31	158,50	250,58	
		4	t		0,22	0,33	0,49	0,66	0,92	1,27	1,58	1,68	2,04	2,44	2,75	3,58
			$J_{Max}$		1,76	4,03	8,64	16,04	31,06	59,42	92,02	103,70	152,76	217,99	277,40	470,84
	$J_L$			0,59	1,53	3,68	7,51	16,07	33,89	56,04	64,3	100,39	151,11	199,37	366,34	
	J			0,47	1,22	2,52	6,77	16,07	33,89	56,04	64,30	72,44	151,11	199,37	243,26	
	5	t		0,22	0,33	0,48	0,66	0,87	1,33	1,68	1,86	2,04	2,44	2,93	3,58	
		$J_{Max}$		1,97	4,49	9,42	17,87	30,65	72,35	115,53	141,42	170,19	242,87	352,23	524,58	
$J_L$			0,67	1,75	4,1	8,57	15,94	42,81	73,33	92,53	114,49	172,34	264,28	417,83		
J			0,67	1,75	2,40	8,57	14,35	38,00	73,33	92,53	114,25	172,34	210,43	383,36		
6	t		0,22	0,33	0,48	0,66	0,87	1,27	1,58	1,68	2,04	2,59	2,93	3,58		
	$J_{Max}$		2,67	6,09	12,77	24,22	41,54	89,72	138,95	156,58	230,66	371,71	477,38	710,95		
	$J_L$		1,04	2,69	6,3	13,16	24,47	59,33	98,11	112,56	175,74	304,21	405,64	641,3		
	J		1,04	2,69	3,54	13,16	20,92	59,33	98,11	112,56	165,94	207,30	305,94	556,39		
8	t	0,19	0,22	0,33	0,48	0,66	0,87	1,33	1,58	1,86	2,03	2,59	2,93	3,58		
	$J_{Max}$	2,58	3,57	7,91	17,07	32,36	55,50	131,02	185,65	256,08	304,39	496,63	637,81	949,88		
	$J_L$	1,05	1,53	3,83	9,29	19,39	36,07	96,85	144,6	209,31	255,34	448,34	597,81	945,12		
	J	1,05	1,53	3,22	6,53	19,39	36,07	96,85	106,72	176,21	223,92	375,48	552,82	945,12		
10	t	0,19	0,22	0,28	0,48	0,60	0,87	1,33	1,58	1,86	2,03	2,59	2,93			
	$J_{Max}$	3,16	4,38	7,00	21,36	33,08	69,44	163,93	232,28	320,40	380,84	621,36	798,00			
	$J_L$	1,38	2,02	3,46	12,51	20,7	48,57	130,42	194,71	281,86	343,83	603,71	798			
	J	1,38	2,02	3,46	10,53	20,70	48,57	130,42	170,20	280,10	343,83	595,92	798,00			
12	t	0,20	0,22	0,33	0,48	0,60	0,92	1,27	1,58	1,86	2,03	2,59	2,93			
	$J_{Max}$	3,74	4,76	10,54	22,75	35,23	83,52	159,75	247,41	341,26	405,64	661,82	849,97			
	$J_L$	1,66	2,19	5,47	13,26	21,93	59,19	124,78	206,36	298,71	364,38	639,8	849,97			
	J	1,54	2,19	5,47	13,26	21,93	47,15	124,78	206,36	298,71	364,38	639,80	849,97			
16	t			0,16	0,23	0,32	0,44	0,64	0,75	0,92	1,03	1,24	1,41			
	$J_{Max}$			3,60	7,95	15,57	28,58	61,05	82,13	124,73	157,96	226,51	293,74			
	$J_L$			2,79	6,95	15,06	28,58	61,05	82,13	124,73	157,96	226,51	293,74			
	J			0,98	3,30	3,91	20,66	45,31	71,13	112,56	157,96	226,51	254,11			
20	t			0,16	0,23	0,32	0,44	0,64	0,84	0,91	1,03	1,24	1,41			
	$J_{Max}$			4,51	9,95	19,49	35,77	76,41	129,73	154,20	197,71	283,51	367,66			
	$J_L$			3,76	9,36	19,49	35,77	76,41	129,73	154,2	197,71	283,51	367,66			
	J			1,58	5,28	6,35	32,72	71,72	106,69	135,00	162,11	283,51	367,66			
24	t			0,16	0,23	0,32	0,44	0,61	0,76	0,91	1,03	1,22	1,41			
	$J_{Max}$			4,80	10,60	20,77	38,11	74,47	112,90	164,27	210,62	292,94	391,66			
	$J_L$			3,99	9,9	20,77	38,11	74,47	112,9	164,27	210,62	292,94	391,66			
	J			2,34	7,74	9,40	38,11	63,28	112,90	164,27	210,62	292,94	391,66			
30	t			0,16	0,23	0,32	0,43	0,64	0,76	0,91	1,03	1,24	1,40			
	$J_{Max}$			6,01	13,26	25,97	46,23	101,80	141,19	205,44	263,40	377,71	485,08			
	$J_L$			5,35	13,26	25,97	46,23	101,8	141,19	205,44	263,4	377,71	485,08			
	J			3,75	12,29	15,05	46,23	101,80	141,19	205,44	263,40	377,71	485,08			
36	t				0,16	0,21	0,29	0,43	0,56	0,61	0,65	0,82	0,93			
	$J_{Max}$				7,96	14,34	28,64	61,17	103,86	124,99	139,12	226,99	291,52			
	$J_L$				7,96	14,34	28,64	61,17	103,86	124,99	139,12	226,99	291,52			
	J				5,25	9,03	28,64	61,17	103,86	124,99	139,12	226,99	291,52			

From n=16 The output flange steps  
2 times per cam revolution

From n=36 The output flange steps  
3 times per cam revolution

# RTX550

## Main dimensions

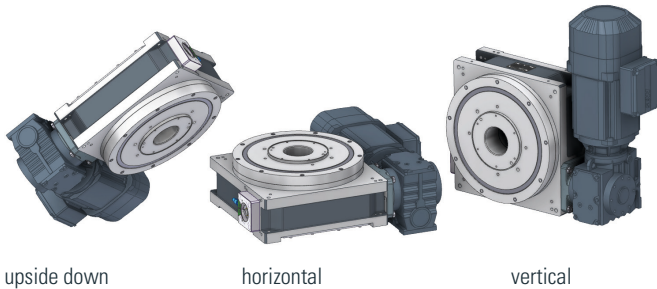


\* Dimensions depend on the used drive



# RTX550

## Fitting position

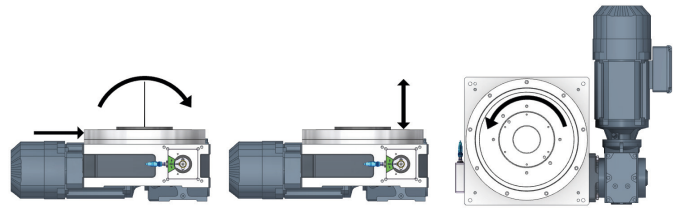


upside down

horizontal

vertical

## Load on output flange



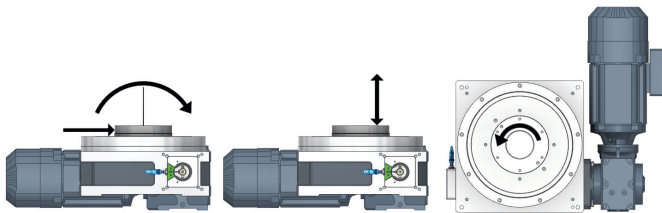
Radial force  $F_{rA}$  [kN] 23

Axial force  $F_{aA}$  [kN] 18,4

Torque on output flange [Nm] 508

Tilting moment  $M_{kA}$  [kNm] 1,0

## Load on central column



Radial force  $F_{rM}$  [kN] 2,7

Axial force  $F_{aM}$  [kN] 18

Torque on output flange [Nm] 77

Tilting moment  $M_{kM}$  [kNm] 0,36

## Precision

Axial runout on the output flange $\varnothing$ [mm]	0,015
Runout on the output flange $\varnothing$ [mm]	0,015
Indexing accuracy * in angular seconds ["]	$\pm 30$

\* Accessible through selected components

„From division 16, the division error due to multi-point locks on the drive cam is larger by a factor of 1.5“

**Combined loads and possible process forces must be confirmed by TAKTOMAT.**

## Dimensions

Output flange $\varnothing$	[mm]	160
Overall height (output flange screw-on surface)	[mm]	120
Center opening $\varnothing$	[mm]	40
Recommended max. size of rotating plate $\varnothing$	[mm]	1000
Index table weight	[kg]	24
Number of indexes Other numbers on request	n	2, 3, 4, 6, 8, 10, 12, 16, 20, 24, 30, 36

## Standard drive

Motor size		IEC63 - 71
Gear size (Center distance)		37 / 19
Voltage (other voltages on request)	[V]	230 / 400
Power	[kW]	0,12 – 1,5

# RTX550 Load table



$n$  = Number of steps / 360° revolution of output flange  
 $t$  = Step time in [s]  
 $J_{Max}$  = Mass moment of inertia (base plate + fixtures and parts) in [Kgm²] Without motor and lifetime  
 $J_L$  = Mass moment of inertia by life time (base plate + fixtures and parts) in [Kgm²]  
 $J$  = Mass moment of inertia with motor (base plate + fixtures and parts) in [Kgm²]

Speed	Step	1	2	3	4	5	6	7	8	9	10	11	12	13
<b>2</b>	$n$													
	$t$			0,55	0,77	1,04	1,52	1,79	2,11	2,30	2,89	3,32		
	$J_{Max}$			5,46	10,70	19,66	42,00	58,26	80,37	95,54	151,19	200,20		
	$J$			1,71	3,73	7,51	18,01	26,25	38,00	46,37	78,62	108,58		
<b>3</b>	$t$			0,54	0,72	1,00	1,44	1,77	1,98	2,21	2,89			
	$J_{Max}$			8,89	15,55	30,13	63,09	94,78	119,62	148,42	253,57			
	$J_L$			3,00	5,72	12,26	28,70	45,83	59,90	76,78	142,15			
	$J$			0,32	5,72	12,26	21,42	26,52	59,90	64,55	98,52			
<b>4</b>	$t$		0,36	0,52	0,73	0,98	1,43	1,68	1,97	2,30	2,75			
	$J_{Max}$		5,38	11,33	22,45	40,76	87,08	120,79	166,61	225,34	323,14			
	$J_L$		2,20	5,20	11,42	22,69	54,34	79,16	114,60	162,18	245,49			
	$J$		2,01	1,45	2,43	11,69	25,86	67,45	107,25	162,18	239,92			
<b>5</b>	$t$		0,36	0,56	0,72	0,98	1,45	1,68	2,12	2,30	2,75			
	$J_{Max}$		6,76	16,99	27,89	51,19	112,73	151,66	241,19	282,94	405,73			
	$J_L$		3,00	8,69	15,37	30,91	76,64	107,79	183,79	220,82	334,25			
	$J$		3,00	5,83	12,80	18,82	67,79	106,98	149,62	220,82	334,25			
<b>6</b>	$t$		0,36	0,56	0,72	0,98	1,43	1,68	2,07	2,30	2,75			
	$J_{Max}$		11,02	27,69	45,43	83,37	178,07	246,99	375,13	460,77	660,73			
	$J_L$		5,15	14,86	26,28	52,83	126,45	184,21	297,88	377,35	571,17			
	$J$		4,48	8,15	17,75	26,23	57,87	147,27	222,49	377,35	520,14			
<b>8</b>	$t$		0,36	0,52	0,73	0,98	1,43	1,68	2,07					
	$J_{Max}$		14,74	31,01	61,42	111,48	238,11	330,26	501,59					
	$J_L$		7,62	17,93	39,35	78,12	186,97	272,37	440,44					
	$J$		7,62	6,81	11,75	48,72	107,33	267,99	404,90					
<b>10</b>	$t$		0,31	0,48	0,60	0,87	1,27	1,58	1,86					
	$J_{Max}$		14,34	33,72	52,23	109,66	236,85	366,81	505,97					
	$J_L$		7,69	20,57	34,03	79,87	193,64	320,23	463,55					
	$J$		7,69	8,71	18,39	54,47	73,29	150,52	252,95					
<b>12</b>	$t$		0,33	0,48	0,60	0,87	1,27	1,58						
	$J_{Max}$		15,01	32,40	50,18	105,35	227,55	352,40						
	$J_L$		8,12	19,69	32,57	76,44	185,32	306,47						
	$J$		6,61	13,35	27,72	76,44	111,12	225,39						
<b>16</b>	$t$	0,23	0,32	0,44	0,64	0,76	0,89	1,03						
	$J_{Max}$	12,54	24,57	45,10	96,33	133,62	184,31	249,28						
	$J_L$	11,41	24,57	45,10	96,33	133,62	184,31	249,28						
	$J$	3,00	12,91	19,61	43,08	102,90	161,35	249,28						
<b>20</b>	$t$	0,23	0,32	0,44	0,64	0,84	0,92	1,03						
	$J_{Max}$	12,56	23,32	45,18	96,51	163,86	197,20	249,74						
	$J_L$	11,54	23,32	45,18	96,51	163,86	197,20	249,74						
	$J$	4,96	12,49	31,56	69,27	102,54	172,78	249,74						
<b>24</b>	$t$	0,23	0,32	0,44	0,64	0,76	0,91	1,03						
	$J_{Max}$	15,09	28,02	54,27	115,92	160,79	233,95	299,96						
	$J_L$	14,71	28,02	54,27	115,92	160,79	233,95	299,96						
	$J$	7,40	18,48	46,38	101,73	160,79	191,29	299,96						
<b>30</b>	$t$	0,23	0,32	0,44	0,61	0,71	0,88	1,03						
	$J_{Max}$	18,88	35,05	67,89	132,67	178,48	271,08	375,21						
	$J_L$	18,88	35,05	67,89	132,67	178,48	271,08	375,21						
	$J$	11,98	29,62	67,89	98,10	148,04	234,82	366,41						
<b>36</b>	$t$	0,15	0,21	0,29	0,43	0,50	0,61	0,65	0,82					
	$J_{Max}$	9,75	18,11	36,17	77,28	107,19	155,97	175,76	286,77					
	$J_L$	9,75	18,11	36,17	77,28	107,19	155,97	175,76	286,77					
	$J$	3,38	8,88	31,69	69,46	107,19	130,89	175,76	286,77					

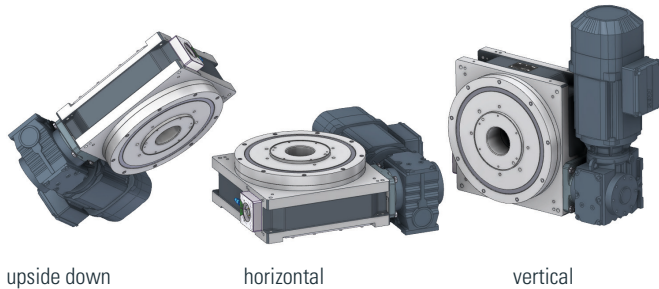
From n=16 The output flange steps 2 times per cam revolution

From n=36 The output flange steps 3 times per cam revolution



# RTX650

## Fitting position

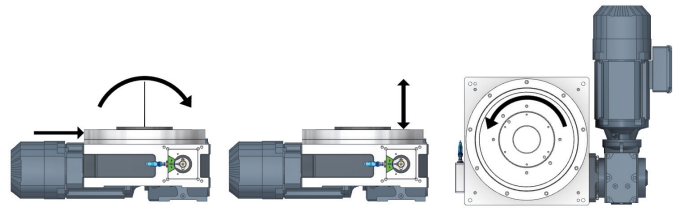


upside down

horizontal

vertical

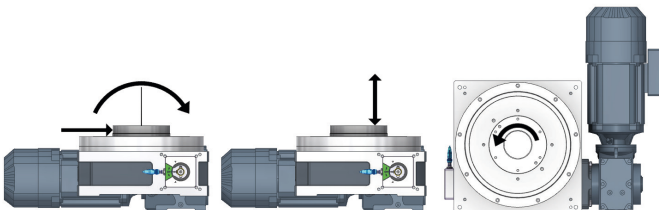
## Load on output flange



Radial force  $F_{rA}$  [kN] 20    Axial force  $F_{aA}$  [kN] 22,5    Torque on output flange [Nm] 833

Tilting moment  $M_{kA}$  [kNm] 2,3

## Load on central column



Radial force  $F_{rM}$  [kN] 4,1    Axial force  $F_{aM}$  [kN] 14    Torque on output flange [Nm] 170

Tilting moment  $M_{kM}$  [kNm] 0,85

## Precision

Axial runout on the output flange $\varnothing$ [mm]	0,01
Runout on the output flange $\varnothing$ [mm]	0,01
Indexing accuracy * in angular seconds ["]	$\pm 25$

\* Accessible through selected components

„From division 16, the division error due to multi-point locks on the drive cam is larger by a factor of 1.5“

**Combined loads and possible process forces must be confirmed by TAKTOMAT.**

## Dimensions

Output flange $\varnothing$	[mm]	185
Overall height (output flange screw-on surface)	[mm]	140
Center opening $\varnothing$	[mm]	50
Recommended max. size of rotating plate $\varnothing$	[mm]	1300
Index table weight	[kg]	38
Number of indexes Other numbers on request	n	2, 3, 4, 6, 8, 10, 12, 16, 20, 24, 30, 36

## Standard drive

Motor size		IEC71 / 80
Gear size (Center distance)		37 / 19
Voltage (other voltages on request)	[V]	230 / 400
Power	[kW]	0,12 – 1,5

# RTX650 Load table

n = Number of stops / 360°  
revolution of output flange  
t = Step time in [s]  
J<sub>Max</sub> = Mass moment of inertia  
(base plate + fixtures and parts) in [Kgm²]  
Without motor and lifetime  
J<sub>L</sub> = Mass moment of inertia by life time  
(base plate + fixtures and parts) in [Kgm²]  
J = Mass moment of inertia with motor  
(base plate + fixtures and parts) in [Kgm²]

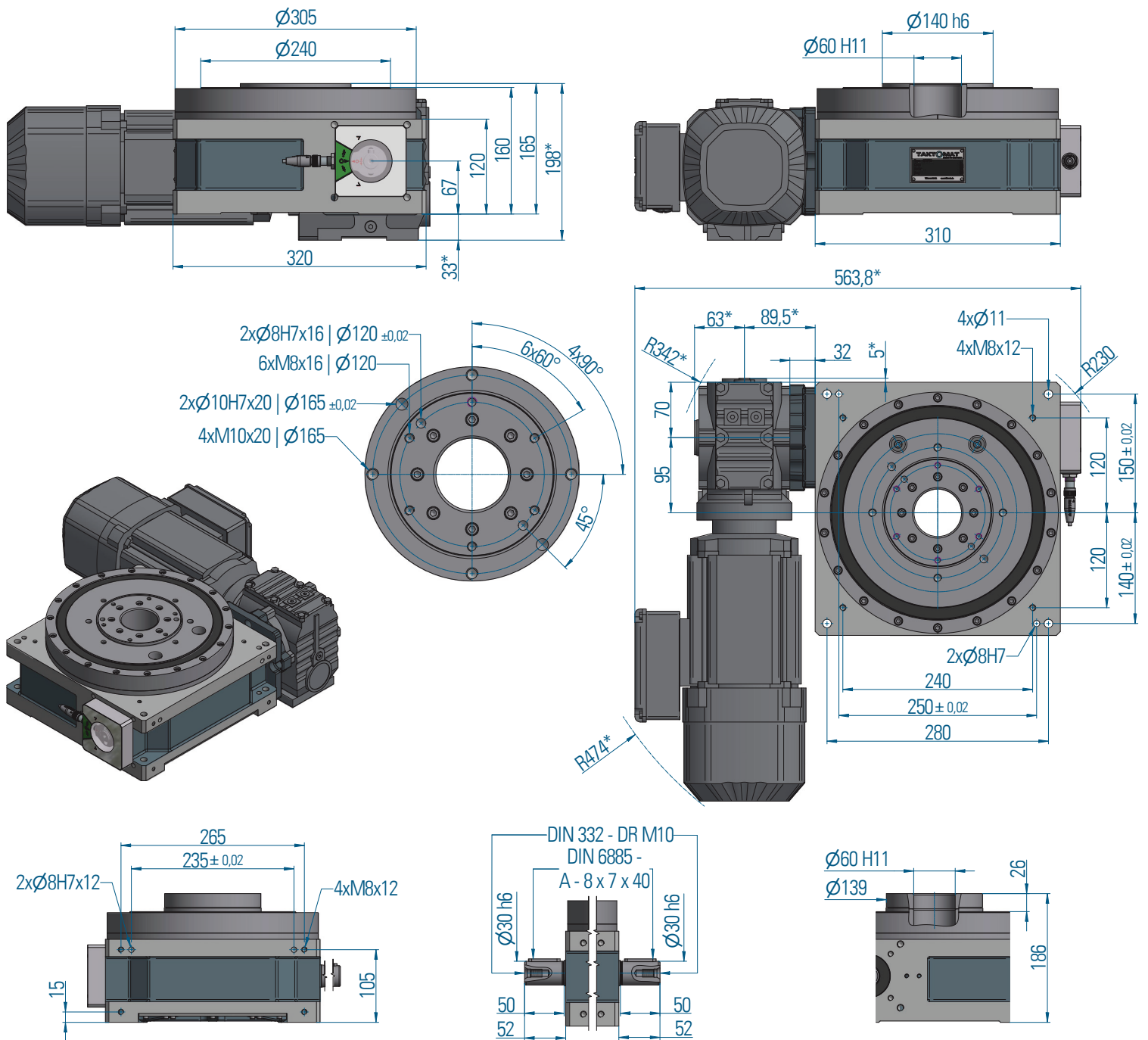
Speed	Step	1	2	3	4	5	6	7	8	9	10	11	12	13		
2	n															
	t		0,25	0,38	0,55	0,75	1,04	1,52	1,79	2,08	2,45	2,93	3,32	4,28		
	J <sub>Max</sub>		2,23	5,20	10,98	20,52	39,56	84,52	117,24	158,02	218,73	313,67	402,85	669,83		
	J <sub>L</sub>		0,65	1,77	4,22	8,68	18,49	44,31	64,56	91,01	132,28	200,24	267,00	479,16		
	J		0,19	0,51	0,30	3,05	3,03	6,77	18,59	38,56	63,19	67,10	99,76	140,48		
	3	t		0,23	0,35	0,55	0,71	1,00	1,42	1,77	1,98	2,26	2,76	3,13	4,05	
		J <sub>Max</sub>		3,53	8,26	19,98	33,25	65,66	133,35	206,53	260,65	338,64	505,51	649,23	1089,56	
		J <sub>L</sub>		1,09	2,94	8,16	14,68	32,13	72,59	120,06	156,90	212,02	336,11	448,18	812,91	
		J		0,40	0,63	0,83	8,91	17,97	13,74	27,40	95,60	61,93	51,41	78,82	426,00	
		4	t		0,22	0,31	0,49	0,66	0,92	1,33	1,66	1,94	2,12	2,44	2,93	3,58
			J <sub>Max</sub>		3,05	6,23	15,01	28,18	54,04	113,00	175,02	241,42	286,97	379,36	550,19	819,40
	J <sub>L</sub>			1,08	2,48	6,84	14,14	29,92	69,91	115,63	167,40	204,21	281,49	431,67	682,47	
	J			0,35	1,27	2,03	13,24	15,60	20,89	41,29	69,98	92,59	171,50	119,05	224,80	
	5	t		0,22	0,31	0,49	0,66	0,92	1,33	1,66	1,94	2,12	2,44	2,75	3,58	
		J <sub>Max</sub>		4,16	8,48	21,02	37,91	73,43	153,55	237,82	328,05	389,94	515,47	655,96	1113,38	
J <sub>L</sub>			1,48	3,39	9,66	19,06	40,78	95,28	157,59	228,13	278,29	383,61	506,13	930,03		
J			0,56	1,95	5,68	9,14	23,49	31,80	62,43	105,30	139,01	256,13	354,02	338,58		
6	t		0,22	0,33	0,49	0,67	0,92	1,27	1,58	1,86	2,03	2,59	2,93	3,58		
	J <sub>Max</sub>		5,01	11,13	24,57	46,98	88,38	169,06	261,84	361,18	429,32	700,48	899,62	1339,79		
	J <sub>L</sub>		1,91	4,82	12,01	25,33	52,41	110,53	182,80	264,62	322,81	566,83	755,81	1194,93		
	J		0,86	1,22	4,73	22,60	34,48	21,71	46,97	81,12	104,56	176,32	266,16	497,17		
8	t	0,20	0,22	0,33	0,49	0,66	0,92	1,33	1,66	1,94	2,07	2,44	3,07			
	J <sub>Max</sub>	5,27	6,71	14,89	32,86	61,00	118,15	247,03	382,58	527,71	599,07	829,19	1314,39			
	J <sub>L</sub>	2,15	2,84	7,13	17,74	36,16	77,36	180,67	298,80	432,53	500,44	727,30	1235,35			
	J	0,33	1,67	2,45	8,98	25,08	63,31	87,98	169,95	283,51	400,91	677,60	895,26			
10	t	0,20	0,23	0,33	0,48	0,66	0,87	1,27	1,58	1,86	2,03	2,59	2,93			
	J <sub>Max</sub>	6,61	9,16	18,64	40,26	76,35	130,95	282,85	438,05	604,24	718,23	1171,84	1504,97			
	J <sub>L</sub>	2,90	4,24	9,62	23,34	48,74	90,64	219,77	363,45	526,11	641,80	1126,91	1502,62			
	J	0,65	1,21	4,19	8,42	40,55	53,55	71,32	147,48	248,76	318,30	535,18	797,63			
12	t	0,20	0,22	0,33	0,49	0,66	0,92	1,33	1,66	1,94	2,12	2,40	2,93			
	J <sub>Max</sub>	7,94	10,11	22,39	49,39	91,69	177,55	371,20	574,88	792,97	942,58	1208,51	1807,03			
	J <sub>L</sub>	3,71	4,90	12,26	30,48	62,09	132,77	310,07	512,77	742,26	905,46	1205,02	1807,03			
	J	1,09	4,19	6,44	22,18	60,04	132,77	212,45	404,82	668,83	874,78	1048,87	1180,64			
16	t			0,17	0,23	0,32	0,47	0,64	0,76	0,89	1,03	1,24	1,40			
	J <sub>Max</sub>			7,73	14,96	29,34	61,38	115,06	159,60	220,15	297,75	426,98	548,37			
	J <sub>L</sub>			6,05	12,94	28,06	61,38	115,06	159,60	220,15	297,75	426,98	548,37			
	J			1,60	2,94	12,81	36,93	42,74	102,43	160,70	297,75	355,27	519,99			
20	t			0,16	0,23	0,32	0,44	0,64	0,76	0,89	0,97	1,22	1,40			
	J <sub>Max</sub>			8,48	18,74	34,81	67,44	144,06	199,83	275,64	327,65	518,51	686,57			
	J <sub>L</sub>			7,01	17,44	34,81	67,44	144,06	199,83	275,64	327,65	518,51	686,57			
	J			1,39	4,89	12,39	31,37	68,88	162,95	255,10	327,65	381,81	686,57			
24	t			0,16	0,23	0,32	0,44	0,64	0,76	0,91	0,97	1,22	1,41			
	J <sub>Max</sub>			10,20	22,52	44,13	81,00	173,02	239,99	349,20	393,50	622,72	832,59			
	J <sub>L</sub>			8,93	22,21	44,13	81,00	173,02	239,99	349,20	393,50	622,72	832,59			
	J			2,14	7,34	30,18	46,19	101,33	237,62	190,50	393,50	557,49	568,89			
30	t			0,16	0,23	0,32	0,44	0,64	0,76	0,91	0,97	1,22	1,38			
	J <sub>Max</sub>			12,76	28,17	55,20	101,32	216,42	300,18	436,77	492,19	778,89	1000,32			
	J <sub>L</sub>			12,00	28,17	55,20	101,32	216,42	300,18	436,77	492,19	778,89	1000,32			
	J			3,56	11,91	48,01	73,73	161,64	300,18	304,31	492,19	778,89	1000,32			
36	t			0,16	0,21	0,29	0,44	0,50	0,59	0,69	0,82	0,93	1,21			
	J <sub>Max</sub>			15,00	27,87	53,99	118,92	160,00	220,71	298,50	428,05	549,75	914,08			
	J <sub>L</sub>			15,00	27,87	53,99	118,92	160,00	220,71	298,50	428,05	549,75	914,08			
	J			5,14	12,70	31,63	104,04	160,00	220,71	157,11	428,05	549,75	914,08			

From n=16 The output flange steps  
2 times per cam revolution

From n=36 The output flange steps  
3 times per cam revolution

# RTX750

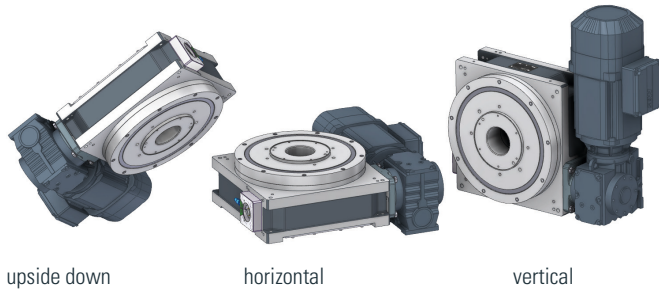
## Main dimensions



\* Dimensions depend on the used drive

# RTX750

## Fitting position

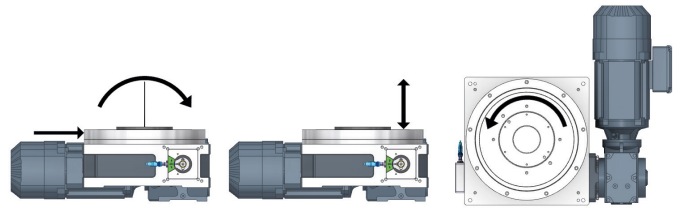


upside down

horizontal

vertical

## Load on output flange



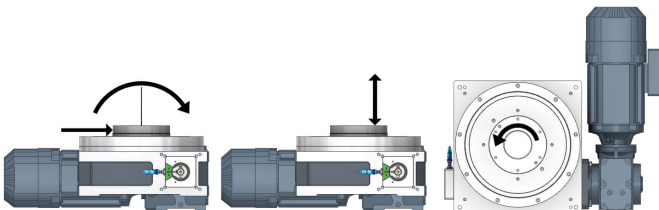
Radial force  $F_{rA}$  [kN] 20

Axial force  $F_{aA}$  [kN] 25

Torque on output flange [Nm] 1063

Tilting moment  $M_{kA}$  [kNm] 2,9

## Load on central column



Radial force  $F_{rM}$  [kN] 3,8

Axial force  $F_{aM}$  [kN] 15

Torque on output flange [Nm] 200

Tilting moment  $M_{kM}$  [kNm] 0,95

## Precision

Axial runout on the output flange $\varnothing$ [mm]	0,01
Runout on the output flange $\varnothing$ [mm]	0,01
Indexing accuracy * in angular seconds ["]	$\pm 20$

\* Accessible through selected components

„From division 16, the division error due to multi-point locks on the drive cam is larger by a factor of 1.5“

**Combined loads and possible process forces must be confirmed by TAKTOMAT.**

## Dimensions

Output flange $\varnothing$	[mm]	240
Overall height (output flange screw-on surface)	[mm]	160
Center opening $\varnothing$	[mm]	60
Recommended max. size of rotating plate $\varnothing$	[mm]	1800
Index table weight	[kg]	85
Number of indexes Other numbers on request	n	2, 3, 4, 6, 8, 10, 12, 16, 20, 24, 30, 36

## Standard drive

Motor size		IEC71 / 80
Gear size (Center distance)		47 / 57
Voltage (other voltages on request)	[V]	230 / 400
Power	[kW]	0,18 – 2,2

# RTX750 Load table



Speed	Step	1	2	3	4	5	6	7	8	9	10	11	12	13	
<b>n</b> n = Number of steps / 360° revolution of output flange t = Step time in [s] J <sub>Max</sub> = Mass moment of inertia (base plate + fixtures and parts) in [Kgm²] Without motor and lifetime J <sub>L</sub> = Mass moment of inertia by life time (base plate + fixtures and parts) in [Kgm²] J = Mass moment of inertia with motor (base plate + fixtures and parts) in [Kgm²]	<b>n</b>														
	<b>2</b>	t			0,36	0,56	0,75	1,07	1,50	1,86	2,11	2,47	2,90	3,39	4,28
		J <sub>Max</sub>			6,78	16,30	29,12	60,62	118,22	181,19	234,23	319,98	442,37	606,36	964,10
		J <sub>L</sub>			1,91	5,39	10,57	24,67	53,26	87,06	116,99	167,50	243,12	349,41	595,60
	<b>3</b>	J			0,12	1,07	7,39	13,96	27,27	53,48	48,51	80,77	42,39	73,59	84,38
		t			0,36	0,53	0,71	1,00	1,42	1,75	2,10	2,24	2,72	3,25	4,28
		J <sub>Max</sub>			10,43	22,94	41,90	82,91	166,08	254,51	364,31	415,68	611,02	873,56	1518,06
	<b>4</b>	J <sub>L</sub>			3,50	8,79	17,65	38,77	86,26	140,96	212,95	247,85	386,02	582,29	1099,39
		J			0,07	3,46	0,50	2,70	75,10	139,70	199,31	85,12	84,37	336,3	752,67
		t			0,32	0,49	0,64	0,90	1,25	1,68	1,79	2,07	2,45	2,76	3,56
	<b>5</b>	J <sub>Max</sub>			12,25	28,49	48,97	96,90	187,87	337,85	386,89	514,94	725,21	917,24	1529,67
		J <sub>L</sub>			4,26	11,36	21,24	46,63	99,90	196,25	229,36	318,67	472,46	619,01	1114,65
		J			1,05	11,00	4,31	12,85	22,16	37,97	47,91	73,70	188,70	227,21	340,38
	<b>6</b>	t			0,32	0,49	0,63	0,89	1,25	1,47	1,79	2,07	2,51	3,04	3,56
		J <sub>Max</sub>			15,25	36,21	60,76	120,68	236,65	327,90	487,32	648,60	958,87	1405,22	1926,64
J <sub>L</sub>				5,78	15,76	28,63	63,10	136,95	199,29	314,34	436,72	684,65	1062,57	1527,48	
<b>8</b>	J			5,78	12,21	3,60	11,50	35,91	61,94	77,44	118,56	131,76	181,95	541,80	
	t			0,32	0,49	0,65	0,91	1,25	1,68	1,79	2,07	2,51	3,04	3,56	
	J <sub>Max</sub>			18,39	43,63	76,56	151,41	285,03	512,53	586,92	781,16	1154,83	1692,38	2320,34	
<b>10</b>	J <sub>L</sub>			7,47	20,30	38,81	85,08	176,16	345,95	404,31	561,70	880,57	1366,60	1964,52	
	J			7,47	17,89	19,15	52,70	53,39	91,64	114,89	175,21	196,34	271,65	793,40	
	t			0,31	0,47	0,63	0,89	1,39	1,60	1,79	2,07	2,42	2,76	3,56	
<b>12</b>	J <sub>Max</sub>			23,83	52,82	97,96	194,49	468,82	627,29	785,14	1044,96	1427,34	1861,23	3103,85	
	J <sub>L</sub>			10,67	26,75	54,48	119,95	330,00	461,27	597,12	829,55	1187,38	1611,22	2901,17	
	J			1,57	3,56	11,43	33,66	49,10	81,29	214,68	325,33	544,42	962,93	1451,43	
<b>16</b>	t			0,31	0,47	0,63	0,89	1,39	1,60	1,82	1,98	2,45	2,76		
	J <sub>Max</sub>			29,86	66,14	122,65	243,49	586,90	785,26	1013,33	1196,81	1842,16	2329,89		
	J <sub>L</sub>			14,42	36,08	73,46	161,68	444,74	621,64	833,47	1009,27	1657,32	2171,28		
<b>20</b>	J			2,93	6,55	19,62	56,03	84,90	137,94	515,04	1009,27	1271,85	1536,85		
	t			0,32	0,47	0,62	0,90	1,25	1,68	1,82	1,98	2,45	3,04		
	J <sub>Max</sub>			36,95	79,46	142,88	295,82	573,27	1030,74	1216,94	1437,28	2212,28	3403,25		
<b>24</b>	J <sub>L</sub>			19,04	45,99	90,36	208,71	446,71	877,08	1061,65	1285,57	2111,01	3403,25		
	J			8,74	10,59	17,46	30,71	242,69	418,67	758,65	1285,57	1862,32	3403,25		
	t	0,15	0,23	0,32	0,45	0,62	0,81	0,93	0,95	1,20	1,39	1,81			
<b>30</b>	J <sub>Max</sub>	10,94	26,20	49,15	100,14	189,59	317,56	422,67	435,78	704,17	942,92	1591,43			
	J <sub>L</sub>	7,86	21,51	44,37	100,14	189,59	317,56	422,67	435,78	704,17	942,92	1591,43			
	J	0,98	4,32	25,35	70,64	85,38	87,56	130,91	198,69	408,55	942,92	1591,43			
<b>36</b>	t	0,16	0,24	0,32	0,47	0,65	0,77	0,89	1,04	1,22	1,43	1,81			
	J <sub>Max</sub>	15,49	35,91	61,59	136,61	259,58	363,92	484,37	661,64	914,66	1253,68	1993,27			
	J <sub>L</sub>	12,22	32,17	59,83	136,61	259,58	363,92	484,37	661,64	914,66	1253,68	1993,27			
<b>48</b>	J	1,28	3,67	40,38	60,83	74,15	76,60	116,31	196,99	393,30	647,72	799,96			
	t	0,16	0,24	0,32	0,47	0,65	0,77	0,93	1,04	1,24	1,43	1,81			
	J <sub>Max</sub>	18,63	43,16	74,01	164,13	311,86	430,22	636,01	794,85	1132,86	1506,06	2394,52			
<b>72</b>	J <sub>L</sub>	15,59	41,00	74,01	164,13	311,86	430,22	636,01	794,85	1132,86	1506,06	2394,52			
	J	2,08	5,75	58,92	89,24	109,84	243,85	309,52	794,85	863,77	947,32	1175,12			
	t	0,16	0,24	0,32	0,47	0,65	0,81	0,89	1,04	1,24	1,43	1,81			
<b>96</b>	J <sub>Max</sub>	23,33	54,02	92,61	205,34	390,14	597,80	727,94	994,33	1417,17	1884,02	2995,42			
	J <sub>L</sub>	20,97	54,02	92,61	205,34	390,14	597,80	727,94	994,33	1417,17	1884,02	2995,42			
	J	3,59	9,69	92,61	141,93	176,31	332,62	727,94	994,33	1366,51	1502,58	2995,42			
<b>144</b>	t	0,11	0,16	0,32	0,43	0,51	0,62	0,73	0,82	0,96	1,20	1,80			
	J <sub>Max</sub>	12,38	29,63	109,38	207,87	286,78	423,97	579,14	732,50	1004,02	1596,33	3557,90			
	J <sub>L</sub>	12,38	29,63	109,38	207,87	286,78	423,97	579,14	732,50	1004,02	1596,33	3557,90			
<b>180</b>	J	1,52	5,98	60,74	75,87	165,88	211,45	342,87	393,37	642,85	802,71	3557,90			

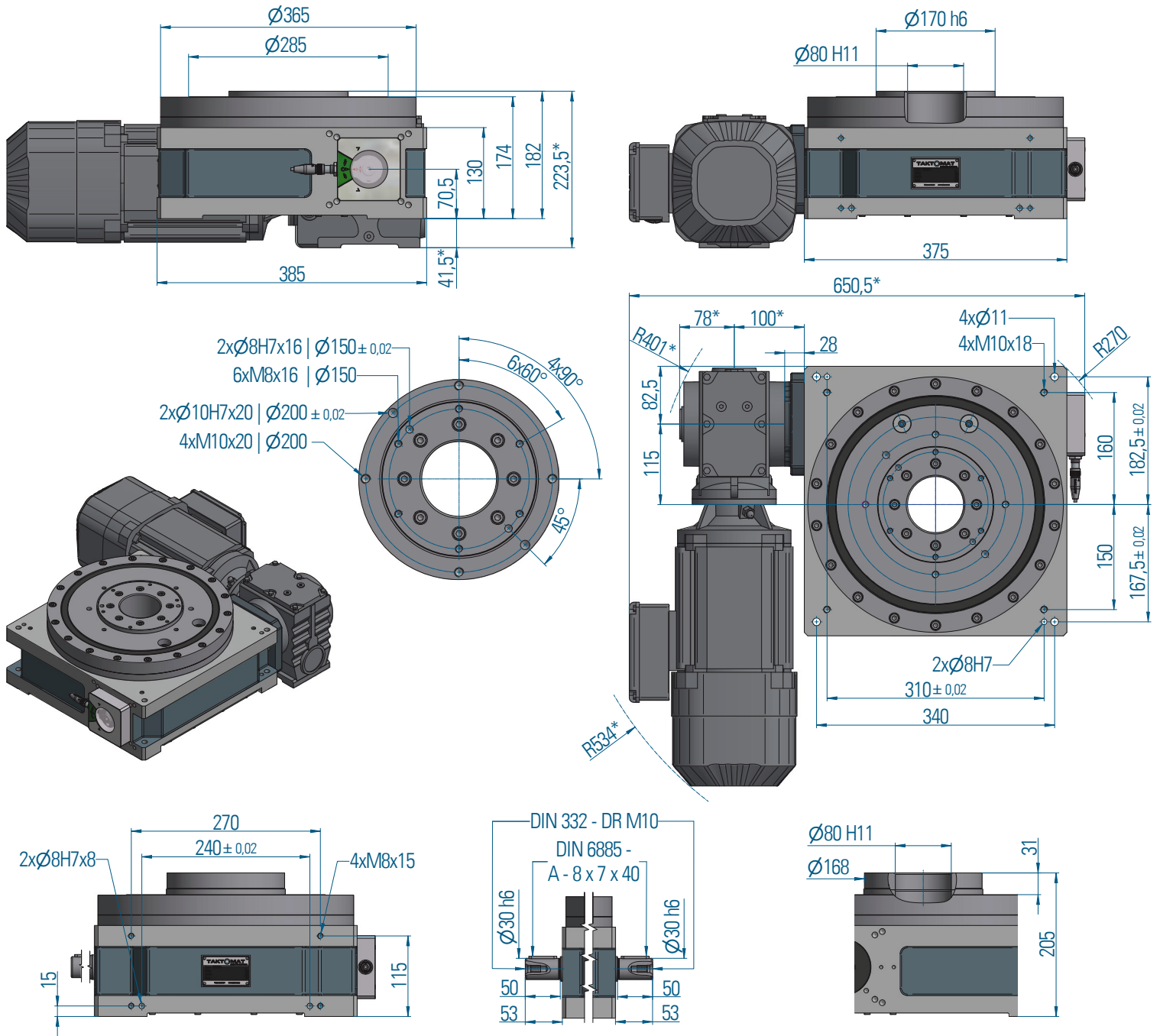
From n=16 The output flange steps  
2 times per cam revolution

From n=36 The output flange steps  
3 times per cam revolution



# RTX900

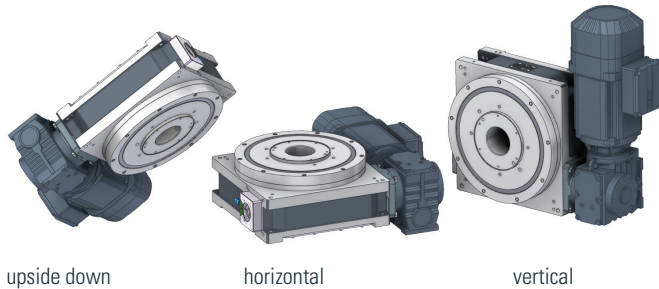
## Main dimensions



\* Dimensions depend on the used drive

# RTX900

## Fitting position

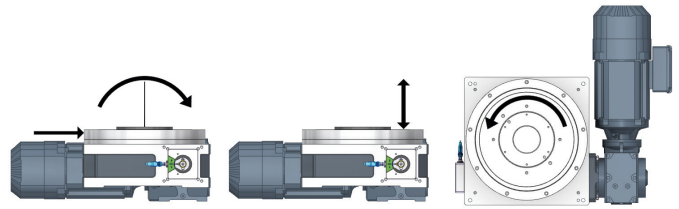


upside down

horizontal

vertical

## Load on output flange



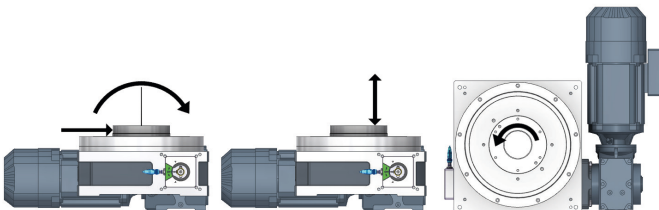
Radial force  $F_{rA}$  [kN] 22

Axial force  $F_{aA}$  [kN] 25

Torque on output flange [Nm] 1572

Tilting moment  $M_{kA}$  [kNm] 3,5

## Load on central column



Radial force  $F_{rM}$  [kN] 7

Axial force  $F_{aM}$  [kN] 25

Torque on output flange [Nm] 450

Tilting moment  $M_{kM}$  [kNm] 2,2

## Precision

Axial runout on the output flange $\varnothing$ [mm]	0,01
Runout on the output flange $\varnothing$ [mm]	0,01
Indexing accuracy * in angular seconds ["]	$\pm 16$

\*Accessible through selected components

„From division 16, the division error due to multi-point locks on the drive cam is larger by a factor of 1.5“

**Combined loads and possible process forces must be confirmed by TAKTOMAT.**

## Dimensions

Output flange $\varnothing$	[mm]	285
Overall height (output flange screw-on surface)	[mm]	174
Center opening $\varnothing$	[mm]	80
Recommended max. size of rotating plate $\varnothing$	[mm]	2200
Index table weight	[kg]	125
Number of indexes Other numbers on request	n	2, 3, 4, 6, 8, 10, 12, 16, 20, 24, 30, 36

## Standard drive

Motor size		IEC71 / 90
Gear size (Center distance)		47 / 57
Voltage (other voltages on request)	[V]	230 / 400
Power	[kW]	0,25 – 3

# RTX900 Load table

Speed	Step	1	2	3	4	5	6	7	8	9	10	11	12	13
<b>n</b>	t													
	J <sub>Max</sub>													
<b>2</b>	t	0,48	0,56	0,75	1,07	1,50	1,86	2,14	2,46	3,11	3,48	4,34		
	J <sub>Max</sub>	14,22	19,78	35,40	73,78	143,96	220,69	293,78	389,02	620,71	778,67	1209,43		
	J <sub>L</sub>	4,27	6,31	12,47	29,20	63,15	103,29	143,57	198,34	339,51	440,68	731,27		
<b>3</b>	J	0,14	0,61	6,58	12,60	25,14	49,80	76,57	198,34	284,24	390,54	539,37		
	t	0,48	0,53	0,69	0,97	1,48	1,71	2,11	2,47	2,68	3,11	4,10		
	J <sub>Max</sub>	22,93	28,38	48,88	96,83	224,32	300,20	457,63	625,16	739,55	995,41	1729,88		
<b>4</b>	J <sub>L</sub>	8,17	10,48	19,71	43,42	114,30	159,84	259,63	371,71	450,96	634,68	1198,38		
	J	0,72	2,63	4,28	13,66	31,27	51,61	102,68	173,68	224,32	634,68	1198,38		
	t	0,32	0,49	0,61	0,91	1,33	1,63	1,74	2,01	2,47	2,92	4,01		
<b>5</b>	J <sub>Max</sub>	15,55	36,57	57,29	127,22	270,58	405,97	464,92	618,83	937,86	1307,20	2473,53		
	J <sub>L</sub>	6,50	17,60	29,57	74,17	176,78	281,92	329,51	457,83	738,55	1081,99	2252,94		
	J	0,59	7,01	8,85	20,74	104,72	136,37	169,34	258,87	405,35	947,13	1081,23		
<b>6</b>	t	0,32	0,49	0,65	0,90	1,25	1,60	1,71	1,98	2,45	2,76	3,62		
	J <sub>Max</sub>	22,74	54,45	93,63	179,92	348,82	573,92	657,24	874,78	1346,56	1703,12	2928,34		
	J <sub>L</sub>	9,16	25,22	47,15	100,07	214,38	380,14	444,28	617,28	1013,74	1328,17	2477,09		
<b>8</b>	J	1,12	6,59	10,60	17,03	28,68	118,41	148,04	232,18	276,64	333,49	794,00		
	t	0,32	0,45	0,64	0,90	1,25	1,68	1,79	1,98	2,45	2,67	3,62		
	J <sub>Max</sub>	27,47	53,14	109,68	216,98	420,62	756,37	866,17	1054,76	1623,57	1920,58	3530,68		
<b>10</b>	J <sub>L</sub>	11,89	25,54	58,91	129,22	276,74	543,50	635,19	796,70	1308,35	1587,20	3196,86		
	J	1,89	3,82	7,73	25,97	44,02	71,69	92,06	340,98	408,53	554,55	1165,34		
	t	0,32	0,45	0,64	0,90	1,25	1,68	1,79	2,07	2,42	2,76	3,56		
<b>12</b>	J <sub>Max</sub>	36,20	71,22	146,93	290,59	563,25	1012,81	1159,82	1543,65	2108,54	2749,52	4585,24		
	J <sub>L</sub>	17,37	37,96	87,43	191,66	410,34	805,79	941,71	1308,30	1872,65	2541,12	4575,57		
	J	2,14	7,99	16,05	50,55	86,57	142,25	180,58	285,15	490,78	916,40	1343,44		
<b>16</b>	t	0,32	0,45	0,64	0,89	1,25	1,68	1,82	1,98	2,45	2,76			
	J <sub>Max</sub>	45,39	89,24	184,04	359,76	705,36	1268,30	1497,43	1768,57	2722,26	3443,02			
	J <sub>L</sub>	23,53	51,34	118,14	255,46	554,15	1088,12	1317,11	1594,93	2619,06	3431,29			
<b>20</b>	J	4,16	13,98	28,00	44,85	146,11	241,64	476,55	1006,27	1225,58	1484,27			
	t	0,32	0,45	0,64	0,89	1,25	1,60	1,71	2,10	2,45	2,76			
	J <sub>Max</sub>	54,56	107,24	221,10	432,18	847,29	1393,85	1596,16	2393,90	3269,89	4135,63			
<b>24</b>	J <sub>L</sub>	30,07	65,53	150,72	325,84	706,76	1252,83	1464,14	2333,56	3269,89	4135,63			
	J	6,93	21,88	43,82	71,31	223,47	777,15	961,41	1142,81	1815,01	2200,78			
	t		0,25	0,31	0,45	0,65	0,81	0,93	1,09	1,24	1,39			
<b>30</b>	J <sub>Max</sub>		43,57	71,04	147,82	305,98	468,90	624,13	852,57	1111,79	1392,40			
	J <sub>L</sub>		38,93	68,32	147,82	305,98	468,90	624,13	852,57	1111,79	1392,40			
	J		2,52	36,17	69,49	41,39	81,30	124,48	206,76	369,77	1172,11			
<b>36</b>	t		0,24	0,33	0,43	0,65	0,75	0,95	1,17	1,19	1,39			
	J <sub>Max</sub>		53,00	99,04	165,84	383,46	513,12	806,38	1236,32	1272,96	1744,82			
	J <sub>L</sub>		50,83	99,04	165,84	383,46	513,12	806,38	1236,32	1272,96	1744,82			
<b>48</b>	J		2,94	20,97	27,74	69,59	108,70	311,54	751,28	1204,99	1744,82			
	t		0,24	0,33	0,43	0,65	0,77	0,93	1,09	1,24	1,45			
	J <sub>Max</sub>		63,73	119,05	199,31	460,81	635,74	939,85	1283,82	1674,11	2294,65			
<b>72</b>	J <sub>L</sub>		63,73	119,05	199,31	460,81	635,74	939,85	1283,82	1674,11	2294,65			
	J		5,01	8,01	42,17	105,20	240,76	304,40	498,33	875,07	1347,35			
	t		0,24	0,32	0,45	0,63	0,78	0,89	1,04	1,24	1,43			
<b>108</b>	J <sub>Max</sub>		79,80	136,84	278,70	543,22	832,38	1075,99	1469,77	2094,81	2784,90			
	J <sub>L</sub>		79,80	136,84	278,70	543,22	832,38	1075,99	1469,77	2094,81	2784,90			
	J		8,99	93,20	257,40	507,50	832,38	915,02	1469,77	1394,57	1530,10			
<b>144</b>	t			0,21	0,30	0,43	0,54	0,59	0,69	0,79	0,93	1,20		
	J <sub>Max</sub>			72,80	148,38	307,13	470,67	573,16	782,97	1019,66	1397,65	2358,96		
	J <sub>L</sub>			72,80	148,38	307,13	470,67	573,16	782,97	1019,66	1397,65	2358,96		
<b>216</b>	J			39,84	109,95	74,69	141,04	391,48	634,29	1019,66	1397,65	2358,96		

n = Number of stops / 360°  
revolution of output flange  
t = Step time in [s]

J<sub>Max</sub> = Mass moment of inertia  
(base plate + fixtures and parts) in [Kgm²]  
Without motor and lifetime

J<sub>L</sub> = Mass moment of inertia by life time  
(base plate + fixtures and parts) in [Kgm²]

J = Mass moment of inertia with motor  
(base plate + fixtures and parts) in [Kgm²]

From n=16 The output flange steps  
2 times per cam revolution

From n=36 The output flange steps  
3 times per cam revolution

# RTX Inquiry and order form for rotary indexers type RTX (1) – V1

Firm \_\_\_\_\_

Projekt- / order-no. \_\_\_\_\_

Contact person \_\_\_\_\_

Offer-no. \_\_\_\_\_

Telephone / Fax \_\_\_\_\_

Date \_\_\_\_\_

Index plate  
 Diameter [mm] \_\_\_\_\_  
 Depth [mm] \_\_\_\_\_  
 Material or weight \_\_\_\_\_

Please visit our website at [www.taktomat.de](http://www.taktomat.de) where you can download a program for calculating the rotary table data!

Fixtures and workpieces  
 Quantity \_\_\_\_\_  
 Mass/Station [kg] \_\_\_\_\_  
 Reference diameter [mm] \_\_\_\_\_

Stop mode (fixed step time, variable dwell time)

Continuous mode (fixed step and dwell time)

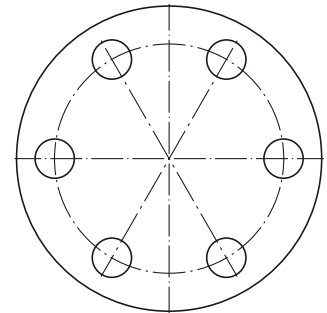
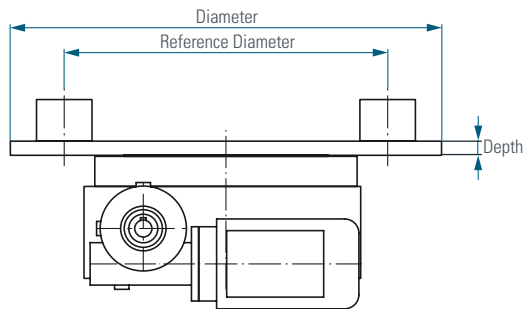
Required step time [s] \_\_\_\_\_

Required dwell time [s] (nur Durchlaufbetrieb) \_\_\_\_\_

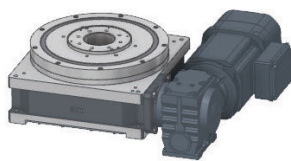
Number of cycles [1/min] \_\_\_\_\_

Required service life (actual cycle time, normal 12,000 h)

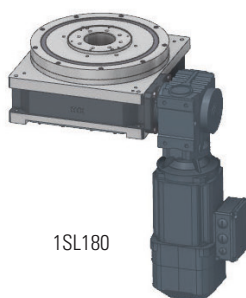
Additional forces and loads (please give details)



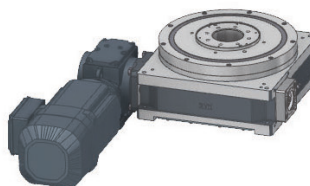
## Possible mounting positions for the drive units



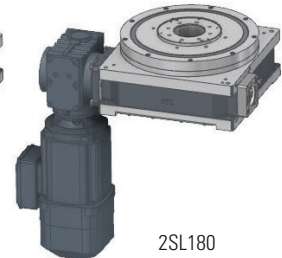
1SL90



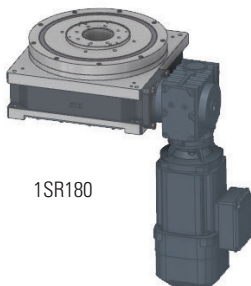
1SL180



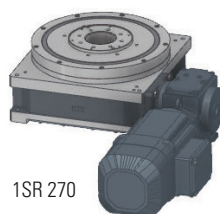
2SL90



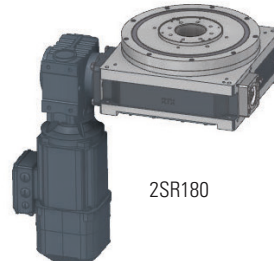
2SL180



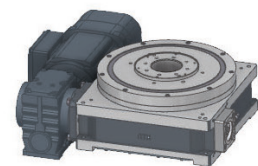
1SR180



1SR 270



2SR180



2SR270

# RTX Inquiry and order form for rotary indexers type (2) – V1

## Rotary indexer

Type RTX (350-900) \_\_\_\_\_

Number of stops \_\_\_\_\_

Index angle other than standard (see load table) \_\_\_\_\_

Mounting position (underneath) no. \_\_\_\_\_

Direction of rotation of output flange

Clockwise       Counterclockwise       Reverse

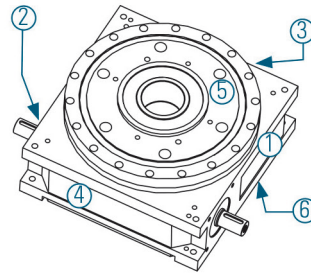
Cam lead       Right (standard)       Left

Standard central column  Yes  No

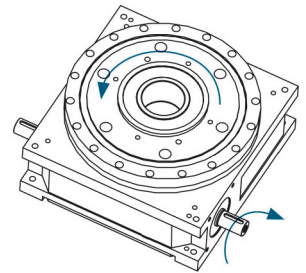
If No      Extended by \_\_\_\_\_ mm

Standard hole pattern

Hole pattern as specified on drawing \_\_\_\_\_



possible mounting positions



Cam Lead Right (Standard)

## Drive

With drive

Drive position (see page 1) \_\_\_\_\_

Terminal box position (see below) \_\_\_\_\_

Motor voltage       230/400-50 Hz

                                 Other voltage \_\_\_\_\_

Brake voltage       24V DC

                                 Other voltage \_\_\_\_\_

Manual release on brake  Yes  No

Motor Handwheel       Yes  No

Input Safety Clutch       Yes  No

Additional specifications (temperature sensor, connector assembly, brand...)

\_\_\_\_\_

Without drive

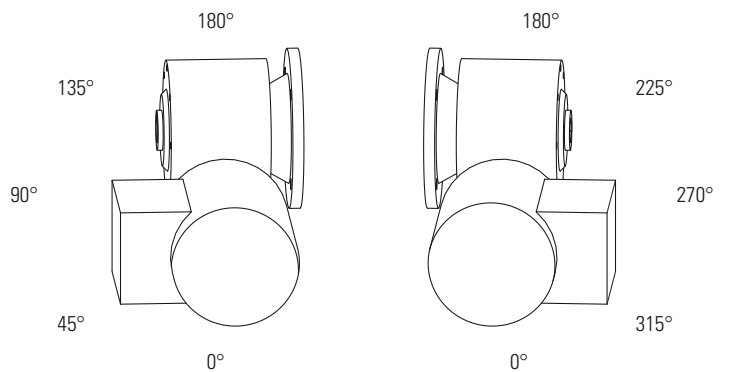
Direction of rotation of input shaft \_\_\_\_\_

Input shaft Ø \_\_\_\_\_ ; Length \_\_\_\_\_

## Universal Controller TIC

Universal Controller TIC  Yes  No

## Terminal box position



# Accessories

## Universal Controller TIC



### Features and user benefits

An index table can be controlled in many different ways. We have developed this universal control to provide our customers with a user-friendly tool for operating the rotary table requiring minimal effort on the operator's part.

- Cycle time optimization through accurately stopping the drive in Dwell
- Minimizing installation and hardware expenses
- Easy integration through fieldbus connection (ProfiNet, EtherCAT, Ethernet / IP) and integration aids (step by step instructions and video tutorial)
- Motor protection switch and mechanical or electronic contactors can be eliminated. Only line protection necessary.
- Fast, gentle gear brakes with emergency stop
- Safety functions STO, SS1, SLS for max. PL e (SIL 3) at STO
- Soft restart or after emergency stop
- Machine gently jog also possible for large tables
- Oscillation or rotation reversal without additional hardware possible
- Simple change of speed possible
- No brake wear, the brake only closes after emergency stop
- Monitoring the engine temperature
- Compact, space-saving design

### Common applications

The universal control is the ideal solution for all three-phase motor-driven gears:

- Rotary indexers type RT and TT
- Rotary indexer TSR
- Globoidal index drives TG
- Parallel gears XT, TP and SP
- Linear transfer system type LFA



# TAKTOMAT

passion for automation

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