



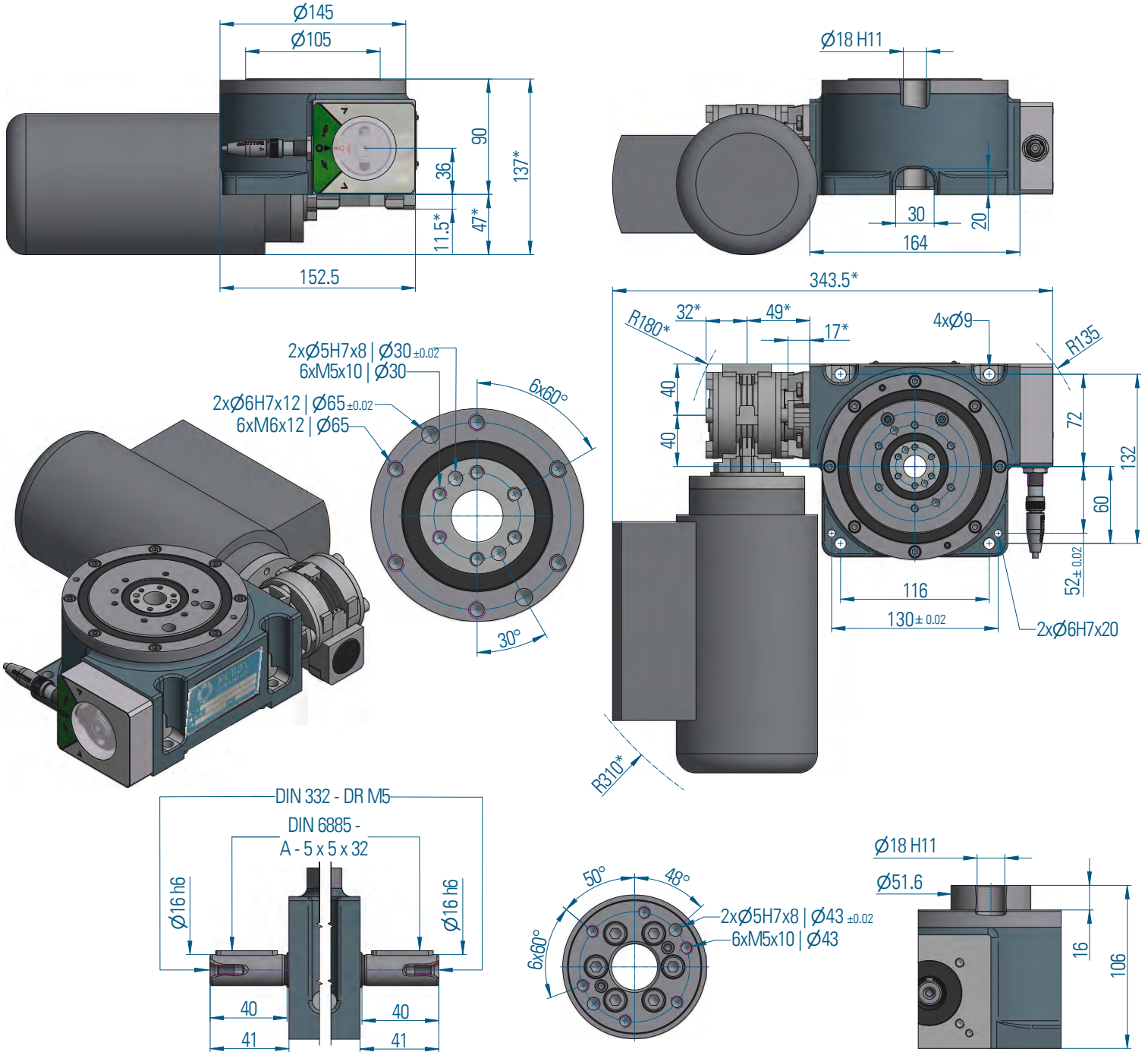
# RTX

## Rotary Indexers



# RTX350

## Main dimensions

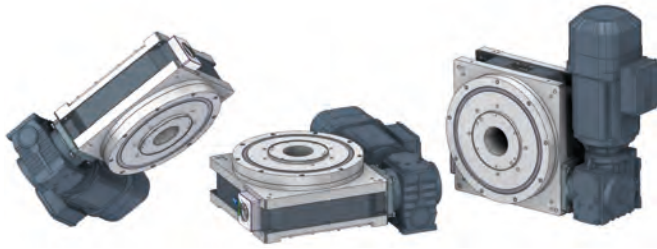


\* Dimensions depend on the used drive



# RTX350

## Fitting position

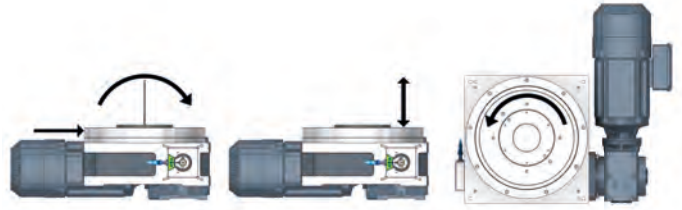


upside down

horizontal

vertical

## Load on output flange



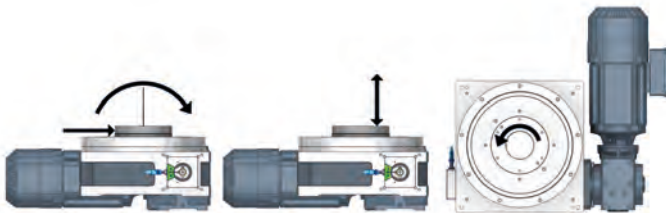
Radial force  $F_{rA}$  [kN] 10

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 ["]	$\pm 45$

\* Increased indexing accuracy 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 Motion Index Drives.**

## 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

$n$  = 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>]

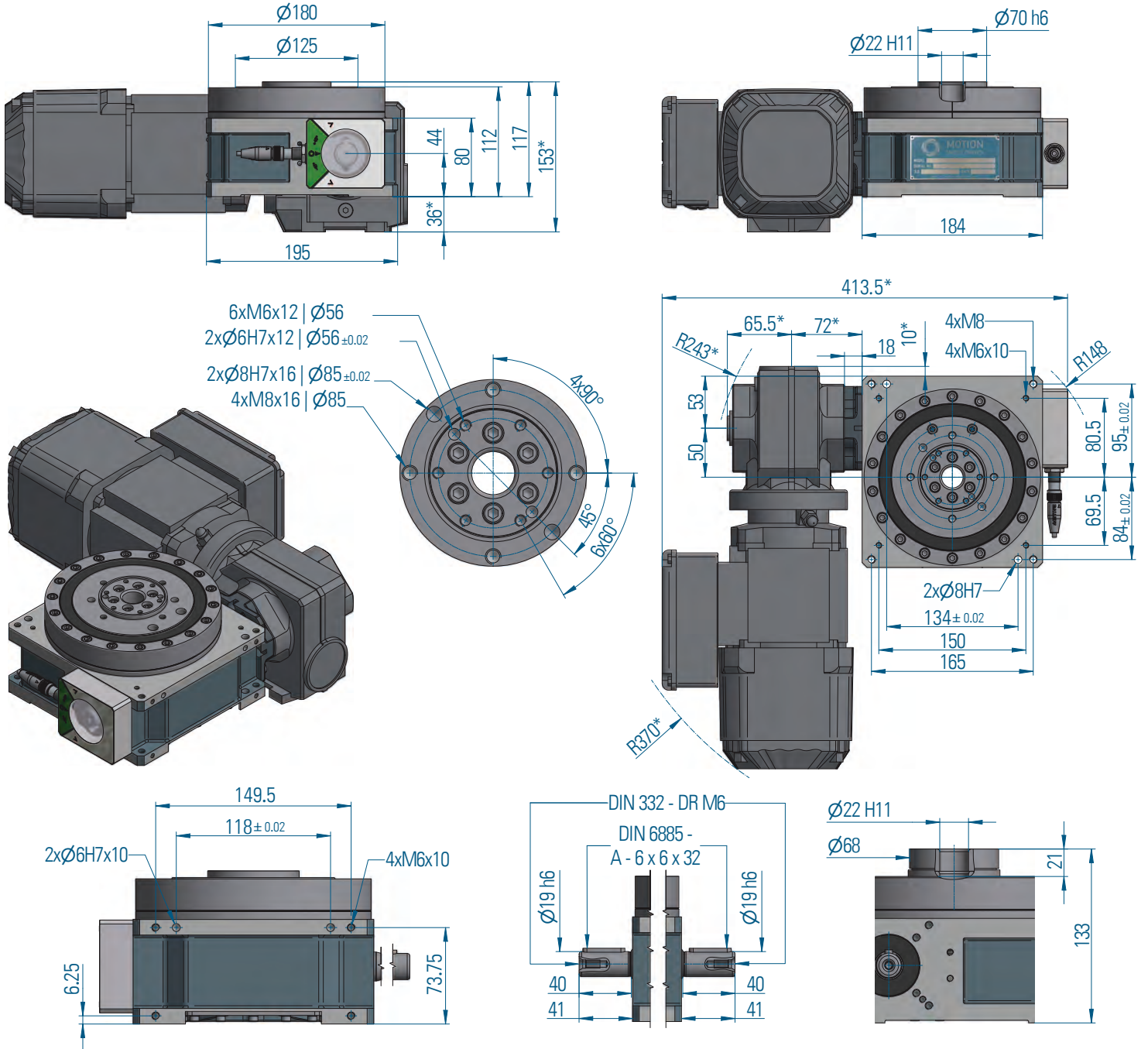
Speed	Step	1	2	3	4	5	6	7	8	9	10	11	12	13
<b>2</b>	<b>n</b>													
	<b>t</b>			0.38	0.57	0.76	1.07	1.52	1.87	2.18	2.73	3.11		
	<b>J<sub>Max</sub></b>			2.50	5.63	10.02	19.65	40.11	60.20	82.11	128.30	167.57		
	<b>J<sub>L</sub></b>			0.75	1.91	3.70	8.04	18.26	29.13	41.63	69.56	94.57		
<b>3</b>	<b>J</b>			0.09	0.39	0.34	0.99	3.10	5.47	4.48	8.11	12.79		
	<b>t</b>			0.38	0.57	0.76	1.07	1.52	1.87	2.18	2.73	3.11		
	<b>J<sub>Max</sub></b>			4.16	9.37	16.66	32.66	66.66	100.04	136.45	213.21	278.48		
	<b>J<sub>L</sub></b>			1.44	3.67	7.11	15.43	35.06	55.92	79.91	133.50	181.50		
<b>4</b>	<b>J</b>			0.24	0.91	0.83	2.33	7.20	12.62	10.53	18.93	29.67		
	<b>t</b>			0.36	0.54	0.71	1.00	1.43	1.75	2.04	2.56	2.92		
	<b>J<sub>Max</sub></b>			4.98	11.22	19.95	39.11	79.83	119.80	163.41	255.33	333.49		
	<b>J<sub>L</sub></b>			1.95	4.97	9.65	20.92	47.53	75.80	108.33	180.98	246.05		
<b>5</b>	<b>J</b>			0.37	1.38	1.29	3.56	10.84	18.93	16.02	28.65	44.66		
	<b>t</b>			0.36	0.54	0.71	1.00	1.43	1.75	2.04	2.56	2.92		
	<b>J<sub>Max</sub></b>			5.36	12.08	21.48	42.11	85.94	128.97	175.92	274.88	359.02		
	<b>J<sub>L</sub></b>			2.52	6.42	12.44	26.99	61.31	97.78	139.73	233.45	317.38		
<b>6</b>	<b>J</b>			0.58	2.13	2.04	5.53	16.64	28.94	24.80	44.18	68.54		
	<b>t</b>			0.36	0.54	0.71	1.00	1.43	1.75	2.04	2.56	2.92		
	<b>J<sub>Max</sub></b>			8.21	18.49	32.88	64.46	131.55	197.42	269.27	420.74	549.54		
	<b>J<sub>L</sub></b>			3.60	9.15	17.74	38.48	87.41	139.40	199.20	332.81	452.46		
<b>8</b>	<b>J</b>			0.85	3.09	3.02	8.08	24.08	41.77	36.18	64.22	99.24		
	<b>t</b>			0.36	0.54	0.71	1.00	1.43	1.75	2.04	2.56	2.92		
	<b>J<sub>Max</sub></b>			11.02	24.81	44.12	86.48	176.50	264.86	361.26	564.48	737.28		
	<b>J<sub>L</sub></b>			5.36	13.62	26.41	57.26	130.07	207.45	296.44	495.26	673.31		
<b>10</b>	<b>J</b>			1.62	5.73	5.76	15.15	44.39	76.64	67.56	119.23	183.02		
	<b>t</b>			0.36	0.54	0.71	1.00	1.43	1.75	2.04	2.56	2.92		
	<b>J<sub>Max</sub></b>			13.82	31.10	55.29	108.38	221.19	331.92	452.73	707.40	923.95		
	<b>J<sub>L</sub></b>			7.25	18.43	35.72	77.46	175.94	280.60	400.97	669.89	910.73		
<b>12</b>	<b>J</b>			2.67	9.25	9.54	24.71	71.49	122.93	109.91	193.08	294.83		
	<b>t</b>			0.36	0.54	0.71	1.00	1.43	1.75	2.04	2.56	2.92		
	<b>J<sub>Max</sub></b>			16.60	37.37	66.44	130.23	265.78	398.84	544.00	850.00	1110.20		
	<b>J<sub>L</sub></b>			8.90	22.64	43.88	95.16	216.14	344.71	492.58	822.95	1110.20		
<b>16</b>	<b>J</b>			4.01	13.68	14.38	36.84	105.51	180.86	163.51	286.21	435.24		
	<b>t</b>		0.16	0.24	0.33	0.46	0.64	0.79	0.92	1.15	1.31			
	<b>J<sub>Max</sub></b>		4.45	10.02	18.62	36.50	71.33	107.05	146.01	228.14	297.99			
	<b>J<sub>L</sub></b>		3.39	8.64	17.61	36.50	71.33	107.05	146.01	228.14	297.99			
<b>20</b>	<b>J</b>		0.68	2.28	2.64	6.67	17.60	30.05	27.60	48.07	72.67			
	<b>t</b>		0.16	0.24	0.33	0.46	0.64	0.79	0.92	1.15	1.31			
	<b>J<sub>Max</sub></b>		5.58	12.57	23.35	45.78	89.47	134.26	183.13	286.14	373.73			
	<b>J<sub>L</sub></b>		4.60	11.69	23.35	45.78	89.47	134.26	183.13	286.14	373.73			
<b>24</b>	<b>J</b>		1.11	3.67	4.31	10.78	28.21	48.00	44.55	77.34	116.47			
	<b>t</b>		0.16	0.24	0.33	0.46	0.64	0.79	0.92	1.15	1.31			
	<b>J<sub>Max</sub></b>		6.71	15.12	28.07	55.03	107.56	161.41	220.15	344.00	449.30			
	<b>J<sub>L</sub></b>		5.65	14.36	28.07	55.03	107.56	161.41	220.15	344.00	449.30			
<b>30</b>	<b>J</b>		1.64	5.39	6.40	15.89	41.34	70.20	65.63	113.68	170.72			
	<b>t</b>		0.16	0.24	0.33	0.46	0.64	0.79	0.92	1.15	1.31			
	<b>J<sub>Max</sub></b>		3.89	8.76	16.27	31.90	62.35	93.56	127.62	199.41	260.46			
	<b>J<sub>L</sub></b>		3.36	8.55	16.27	31.90	62.35	93.56	127.62	199.41	260.46			
<b>36</b>	<b>J</b>		2.64	8.55	10.29	25.39	62.35	93.56	104.78	181.10	260.46			
	<b>t</b>		0.16	0.22	0.31	0.44	0.61	0.77	0.88					
	<b>J<sub>Max</sub></b>		10.08	18.71	36.68	74.87	146.76	229.31	299.51					
	<b>J<sub>L</sub></b>		10.08	18.71	36.68	74.87	146.76	229.31	299.51					
			3.67	4.43	10.91	30.03	45.00	77.68	116.21					

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

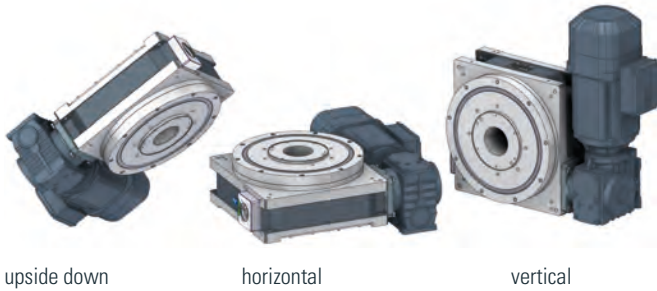


\* Dimensions depend on the used drive



# RTX450

## Fitting position

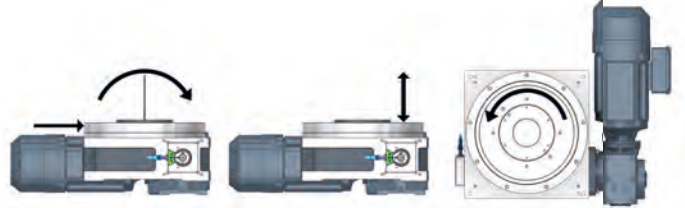


upside down

horizontal

vertical

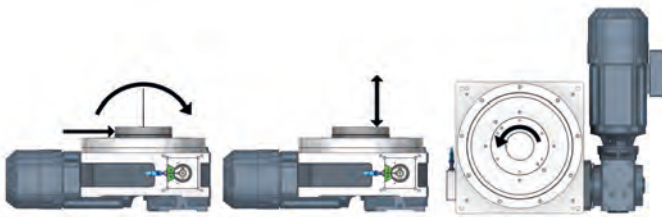
## Load on output flange



Radial force  $F_{rA}$  [N] 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 $\sigma$ [mm]	0.01
Runout on the output flange $\sigma$ [mm]	0.01
Indexing accuracy * in angular seconds ["]	$\pm 35$

\* Increased indexing accuracy 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 Motion Index Drives.**

## Dimensions

Output flange $\sigma$	[mm]	125
Overall height (output flange screw-on surface)	[mm]	112
Center opening $\sigma$	[mm]	22
Recommended max. size of rotating plate $\sigma$	[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

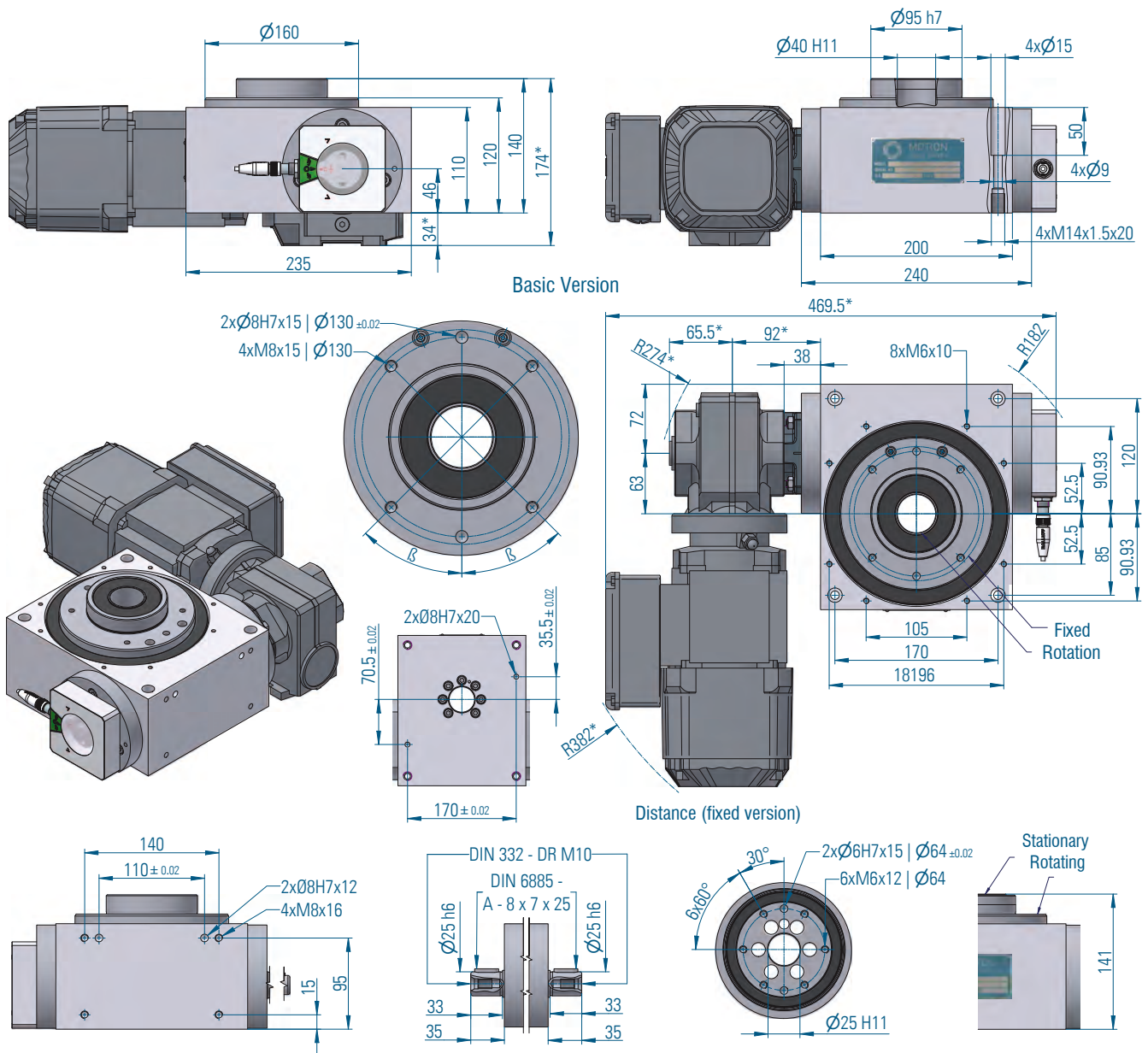
$n$  = Number of stops / 360° revolution of output flange  
 $t$  = Step time in [s]  
 $J_{Max}$  = Mass moment of inertia (base plate + fixtures and parts) in [Kgm<sup>2</sup>] Without motor and lifetime  
 $J_L$  = Mass moment of inertia by life time (base plate + fixtures and parts) in [Kgm<sup>2</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 <sub>Max</sub>		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 <sub>L</sub>		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 <sub>Max</sub>		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 <sub>L</sub>		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	2.01	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 <sub>Max</sub>		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 <sub>L</sub>		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 <sub>Max</sub>		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 <sub>L</sub>			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 <sub>Max</sub>		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 <sub>L</sub>		1.04	2.69	6.3	13.16	24.47	59.33	98.11	11.56	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 <sub>Max</sub>	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 <sub>L</sub>	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 <sub>Max</sub>	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 <sub>L</sub>	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 <sub>Max</sub>	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 <sub>L</sub>	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 <sub>Max</sub>			3.60	7.95	15.57	28.58	61.05	82.13	124.73	157.96	226.51	293.74		
	J <sub>L</sub>			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 <sub>Max</sub>			4.51	9.95	19.49	35.77	76.41	129.73	154.20	197.71	283.51	367.66		
	J <sub>L</sub>			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 <sub>Max</sub>			4.80	10.60	20.77	38.11	74.47	112.90	164.27	210.62	292.94	391.66		
	J <sub>L</sub>			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 <sub>Max</sub>			6.01	13.26	25.97	46.23	101.80	141.19	205.44	263.40	377.71	485.08		
	J <sub>L</sub>			5.35	13.26	25.97	46.23	101.8	141.19	205.44	263.4	377.71	485.08		
	J			3.75	1.29	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 <sub>Max</sub>				7.96	14.34	28.64	61.17	103.86	124.99	139.12	226.99	291.52		
	J <sub>L</sub>				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



Position of the hole pattern in the output flange

Stop number	Quantity bolts	Angle $\beta$	Torsion fitting holes
2; 4; 6; 8; 16	6-8	45°	—
3	9	30°	one-sided 10°CCW
5; 10	10	36°	—
12; 36	12	30°	—

Further stop numbers you can find in the RTF/RTX550 dimension sheet at our website.

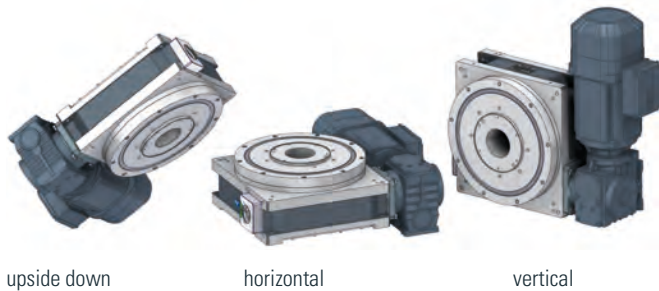
\* Dimensions depend on the used drive





# RTX550

## Fitting position

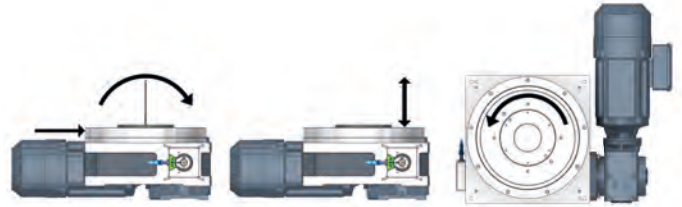


upside down

horizontal

vertical

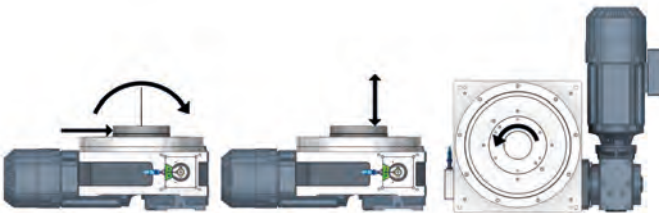
## Load on output flange



Radial force  $F_{rA}$  [kN] 23    Axial force  $F_{aA}$  [N] 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 $\sigma$ [mm]	0.015
Runout on the output flange $\sigma$ [mm]	0.015
Indexing accuracy * in angular seconds ["]	$\pm 30$

\* Increased indexing accuracy 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 Motion Index Drives.**

## Dimensions

Output flange $\sigma$	[mm]	160
Overall height (output flange screw-on surface)	[mm]	120
Center opening $\sigma$	[mm]	40
Recommended max. size of rotating plate $\sigma$	[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 stops / 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]

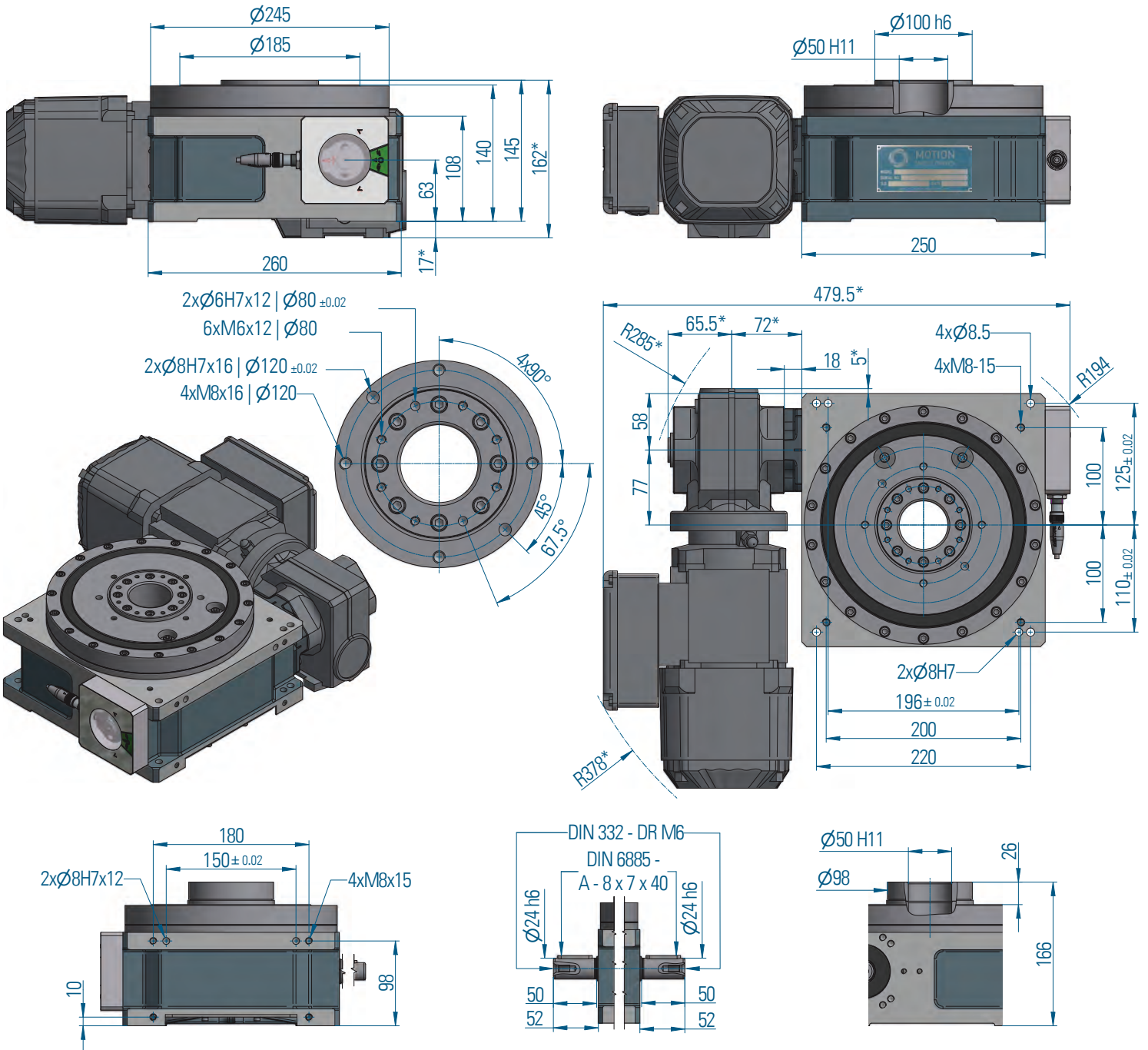
Speed	Step	1	2	3	4	5	6	7	8	9	10	11	12	13	
2	n														
	t			0.55	0.77	1.04	1.52	1.79	2.11	2.30	2.89	3.32			
	$J_{Max}$			5.46	10.70	19.66	42.00	58.26	80.37	95.54	151.19	200.20			
	$J_L$			1.71	3.73	7.51	18.01	26.25	38.00	46.37	78.62	108.58			
	J			0.36	2.28	3.30	7.33	19.76	31.58	41.58	45.47	105.27			
	3	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			
	4	J			0.32	5.72	12.26	21.42	26.52	59.90	64.55	98.52			
		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			
	5	$J_L$		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			
		t		0.36	0.56	0.72	0.98	1.45	1.68	2.12	2.30	2.75			
	6	$J_{Max}$		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				
8	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				
10	J		4.48	8.15	17.75	26.23	57.87	147.27	222.49	377.35	520.14				
	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						
12	$J_L$		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						
	t		0.31	0.48	0.60	0.87	1.27	1.58	1.86						
16	$J_{Max}$		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						
20	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							
24	J		6.61	13.35	27.72	76.44	111.12	225.39							
	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							
30	$J_L$	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							
	t	0.23	0.32	0.44	0.64	0.84	0.92	1.03							
36	$J_{Max}$	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							
24	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							
30	J	7.40	18.48	46.38	101.73	160.79	191.29	299.96							
	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							
36	$J_L$	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							
	t	0.15	0.21	0.29	0.43	0.50	0.61	0.65	0.82						
36	$J_{Max}$	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

## Main dimensions

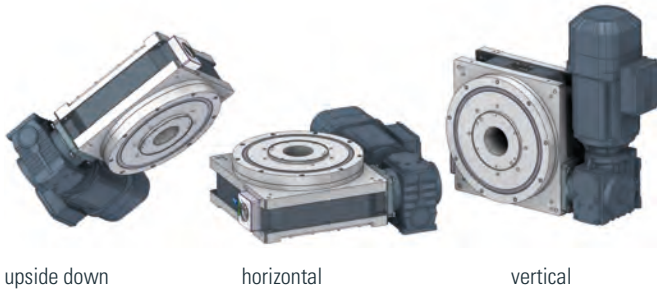


\* Dimensions depend on the used drive



# RTX650

## Fitting position

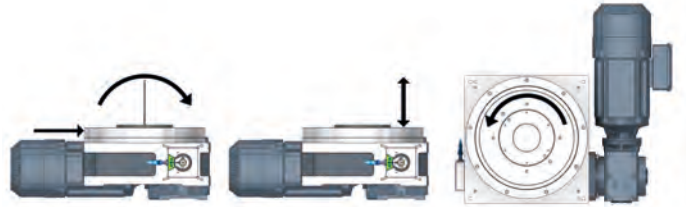


upside down

horizontal

vertical

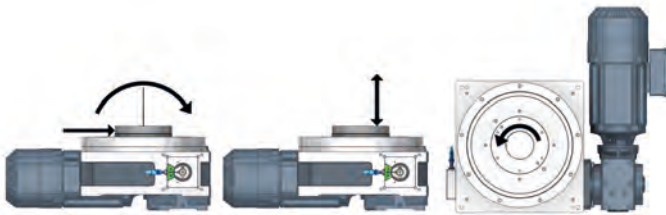
## Load on output flange



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 ["]	$\pm 25$

\* Increased indexing accuracy 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 Motion Index Drives.**

## 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]  
 $J_{Max}$  = 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>]

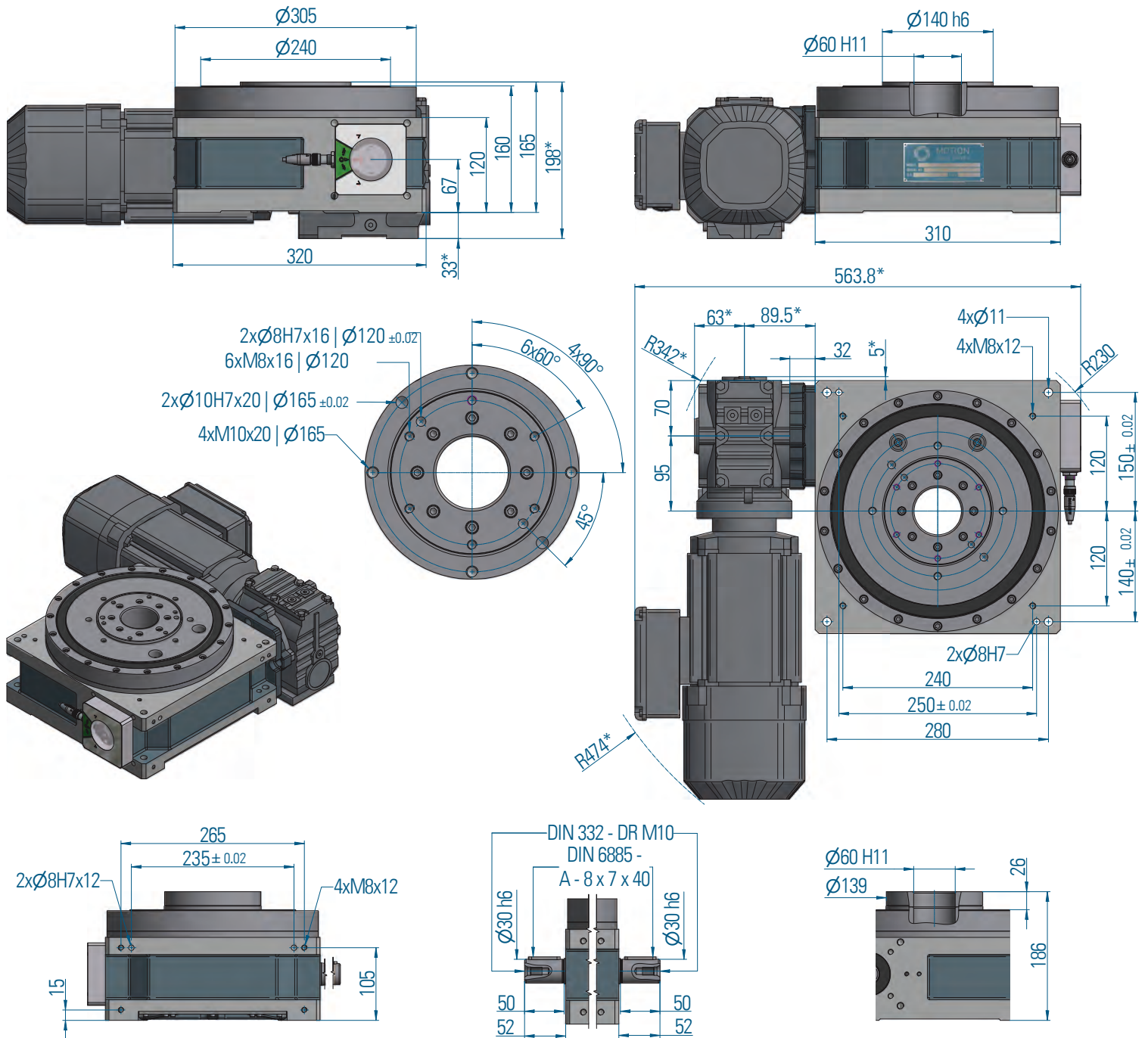
Speed	Step	1	2	3	4	5	6	7	8	9	10	11	12	13
<b>2</b>	t		0.25	0.38	0.55	0.75	1.04	1.52	1.79	2.08	2.45	2.93	3.32	4.28
	$J_{Max}$		2.23	5.20	10.98	20.52	39.56	84.52	117.24	158.02	218.73	313.67	402.85	669.83
	$J_L$		0.65	1.77	4.22	8.68	18.49	44.31	64.56	91.01	132.28	200.24	267.00	479.16
	J		0.19	0.51	0.30	3.05	3.03	6.77	18.59	38.56	63.19	67.10	99.76	140.48
<b>3</b>	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
	$J_{Max}$		3.53	8.26	19.98	33.25	65.66	133.35	206.53	260.65	338.64	505.51	649.23	1089.56
	$J_L$		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
<b>4</b>	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
	$J_{Max}$		3.05	6.23	15.01	28.18	54.04	113.00	175.02	241.42	286.97	379.36	550.19	819.40
	$J_L$		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
<b>5</b>	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
	$J_{Max}$		4.16	8.48	21.02	37.91	73.43	153.55	237.82	328.05	389.94	515.47	655.96	1113.38
	$J_L$		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
<b>6</b>	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
	$J_{Max}$		5.01	11.13	24.57	46.98	88.38	169.06	261.84	361.18	429.32	700.48	899.62	1339.79
	$J_L$		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
<b>8</b>	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	
	$J_{Max}$	5.27	6.71	14.89	32.86	61.00	118.15	247.03	382.58	527.71	599.07	829.19	1314.39	
	$J_L$	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	
<b>10</b>	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	
	$J_{Max}$	6.61	9.16	18.64	40.26	76.35	130.95	282.85	438.05	604.24	718.23	1171.84	1504.97	
	$J_L$	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	
<b>12</b>	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	
	$J_{Max}$	7.94	10.11	22.39	49.39	91.69	177.55	371.20	574.88	792.97	942.58	1208.51	1807.03	
	$J_L$	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	
<b>16</b>	t			0.17	0.23	0.32	0.47	0.64	0.76	0.89	1.03	1.24	1.40	
	$J_{Max}$			7.73	14.96	29.34	61.38	115.06	159.60	220.15	297.75	426.98	548.37	
	$J_L$			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	
<b>20</b>	t			0.16	0.23	0.32	0.44	0.64	0.76	0.89	0.97	1.22	1.40	
	$J_{Max}$			8.48	18.74	34.81	67.44	144.06	199.83	275.64	327.65	518.51	686.57	
	$J_L$			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	
<b>24</b>	t			0.16	0.23	0.32	0.44	0.64	0.76	0.91	0.97	1.22	1.41	
	$J_{Max}$			10.20	22.52	44.13	81.00	173.02	239.99	349.20	393.50	622.72	832.59	
	$J_L$			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	
<b>30</b>	t			0.16	0.23	0.32	0.44	0.64	0.76	0.91	0.97	1.22	1.38	
	$J_{Max}$			12.76	28.17	55.20	101.32	216.42	300.18	436.77	492.19	778.89	1000.32	
	$J_L$			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	
<b>36</b>	t				0.16	0.21	0.29	0.44	0.50	0.59	0.69	0.82	0.93	1.21
	$J_{Max}$				15.00	27.87	53.99	118.92	160.00	220.71	298.50	428.05	549.75	914.08
	$J_L$				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

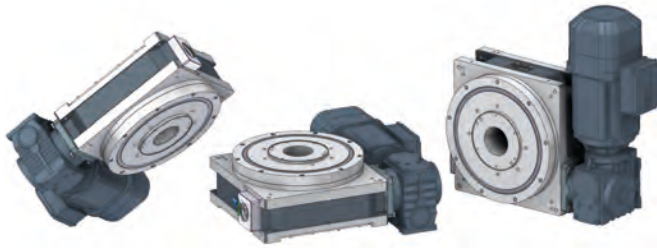


\* Dimensions depend on the used drive



# RTX750

## Fitting position

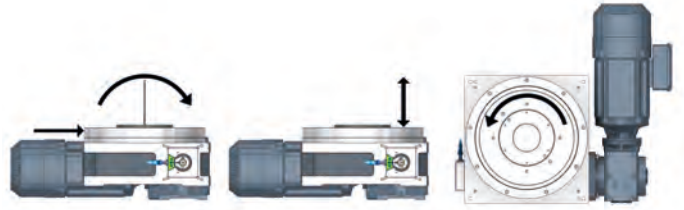


upside down

horizontal

vertical

## Load on output flange



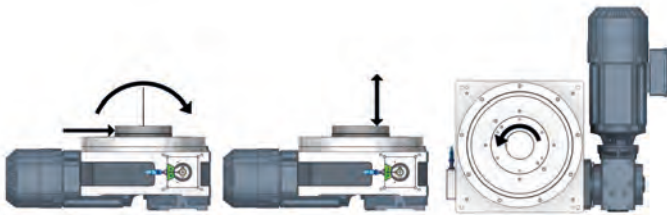
Radial force  $F_{rA}$  [kN] 20

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 ["]	$\pm 20$

\* Increased indexing accuracy 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 Motion Index Drives.**

## 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

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			0.34	0.60	0.71	1.06	1.42	1.76	2.10	2.37	3.12	3.55	4.17		
	$J_{Max}$			6.03	19.07	26.67	59.37	105.44	162.73	231.33	295.91	513.05	661.92	916.99		
	$J_L$			1.66	6.47	9.55	24.08	46.68	76.94	115.33	153.09	288.31	386.48	562.26		
	J			0.22	3.73	8.70	20.65	32.97	43.89	89.27	108.55	210.89	198.33	329.68		
	3	t			0.34	0.52	0.71	1.06	1.42	1.75	2.03	2.41	2.70	3.19	4.17	
		$J_{Max}$			9.57	22.47	42.06	93.55	166.08	254.51	341.13	479.26	606.17	842.74	1443.88	
		$J_L$			3.17	8.58	17.73	44.55	86.26	140.96	197.45	291.93	382.49	558.73	1037.84	
		J			0.68	5.49	17.73	44.55	75.10	139.70	154.13	167.76	203.45	212.79	748.53	
		4	t			0.32	0.49	0.67	0.86	1.36	1.57	1.68	1.97	2.45	2.93	3.91
			$J_{Max}$			12.25	28.73	53.75	88.99	222.85	298.19	341.48	465.30	724.09	1031.78	1844.05
	$J_L$				4.26	11.47	23.64	42.27	121.59	169.99	198.68	283.59	471.62	708.72	1381.96	
	J				1.05	7.76	23.64	27.21	30.17	48.30	60.40	282.02	296.01	665.27	1042.05	
	5	t			0.32	0.49	0.61	0.86	1.33	1.54	1.90	1.97	2.45	2.93	3.91	
		$J_{Max}$			15.02	36.21	56.67	112.11	269.08	360.05	548.79	586.07	912.02	1299.55	2322.60	
$J_L$				5.68	15.76	26.42	57.97	158.75	221.93	360.36	388.66	646.32	971.21	1893.77		
J				4.42	12.38	15.84	43.16	118.23	181.14	338.61	388.66	467.27	971.21	1640.19		
6	t			0.32	0.49	0.67	0.86	1.33	1.54	1.90	1.97	2.45	2.97	3.91		
	$J_{Max}$			18.26	43.63	82.27	135.04	321.85	433.65	660.95	705.85	1098.40	1609.68	2797.22		
	$J_L$			7.41	20.30	42.16	74.59	202.58	285.46	463.50	499.89	831.27	1290.10	2435.62		
	J			4.51	18.12	42.16	62.98	202.58	263.35	463.50	499.89	679.15	1031.46	2377.78		
8	t			0.32	0.50	0.62	0.90	1.36	1.61	1.72	1.99	2.44	2.99	3.94		
	$J_{Max}$			25.16	60.05	94.63	198.18	452.28	631.86	723.57	963.02	1459.38	2184.00	3795.20		
	$J_L$			11.36	31.01	52.35	122.57	316.65	465.14	543.60	755.20	1218.09	1936.54	3656.01		
	J			3.41	14.90	18.82	20.70	134.09	148.00	184.92	285.13	444.50	1258.35	2867.23		
10	t			0.32	0.50	0.62	0.88	1.18	1.61	1.72	1.99	2.44	2.99			
	$J_{Max}$			31.52	77.34	118.48	237.62	426.68	790.98	905.79	1205.53	1826.86	2733.93			
	$J_L$			15.35	43.20	70.59	157.20	308.23	626.85	732.58	1017.73	1641.50	2609.67			
	J			5.83	15.76	31.11	55.54	90.66	242.26	301.53	462.25	719.86	2004.02			
12	t			0.33	0.43	0.62	0.90	1.18	1.61	1.72	1.99	2.44	2.99			
	$J_{Max}$			39.52	67.05	142.31	297.97	512.43	949.92	1087.79	1447.75	2193.91	3283.21			
	$J_L$			20.57	37.82	89.95	210.46	392.63	798.47	933.14	1296.34	2090.86	3283.21			
	J			2.72	13.75	46.84	55.81	137.74	362.13	449.40	685.85	1067.19	2931.55			
16	t	0.17	0.23	0.33	0.46	0.63	0.77	0.89	1.02	1.34	1.50	2.04				
	$J_{Max}$	13.88	26.39	51.64	105.19	190.98	292.65	389.52	509.6	871.03	1092.65	2025.85				
	$J_L$	10.35	21.69	46.96	105.19	190.98	292.65	389.52	509.60	871.03	1092.65	2025.85				
	J	2.58	1.7	7.96	22.47	39.45	76.01	115.32	249.13	701.43	973.6	2025.85				
20	t	0.17	0.26	0.33	0.48	0.63	0.77	0.89	1.04	1.35	1.50	2.04				
	$J_{Max}$	17.42	42.42	64.7	137.6	239.22	363.92	484.37	661.64	1106.57	1368.56	2537.37				
	$J_L$	13.99	38.97	63.32	137.60	239.22	363.92	484.37	661.64	1106.57	1368.56	2537.37				
	J	4.3	6.95	13.24	26.75	64.43	76.6	116.31	196.99	767.59	1368.56	2537.37				
24	t	0.17	0.23	0.33	0.47	0.62	0.77	0.89	1.04	1.35	1.51	2.04				
	$J_{Max}$	20.94	39.48	77.75	164.13	285.32	437.2	581.89	794.85	1329.33	1667.55	3048.14				
	$J_L$	17.84	37.01	77.75	164.13	285.32	437.20	581.89	794.85	1329.33	1667.55	3048.14				
	J	6.45	3.01	19.87	27.01	59.93	114.59	173.16	291.39	1118.22	1526.05	3048.14				
30	t	0.15	0.23	0.33	0.48	0.62	0.77	0.89	1.04	1.32	1.51	2.04				
	$J_{Max}$	20.84	49.42	97.29	206.84	356.95	546.94	727.94	994.33	1594.13	2086.02	3813.07				
	$J_L$	18.41	49.42	97.29	206.84	356.95	546.94	727.94	994.33	1594.13	2086.02	3813.07				
	J	1.96	5.36	32.27	65.3	97.94	185.59	279.26	467.15	1594.13	2086.02	3813.07				
36	t	0.12	0.16	0.32	0.42	0.51	0.59	0.69	0.78	0.92	1.20	2.01				
	$J_{Max}$	15.18	26.47	109.38	190.18	291.43	387.89	529.87	675.06	925.29	1596.33	4446.48				
	$J_L$	15.18	26.47	109.38	190.18	291.43	387.89	529.87	675.06	925.29	1596.33	4446.48				
	J	1.46	3.61	19.5	42.53	80.27	120.54	201.03	353.4	550.44	802.71	3629.7				

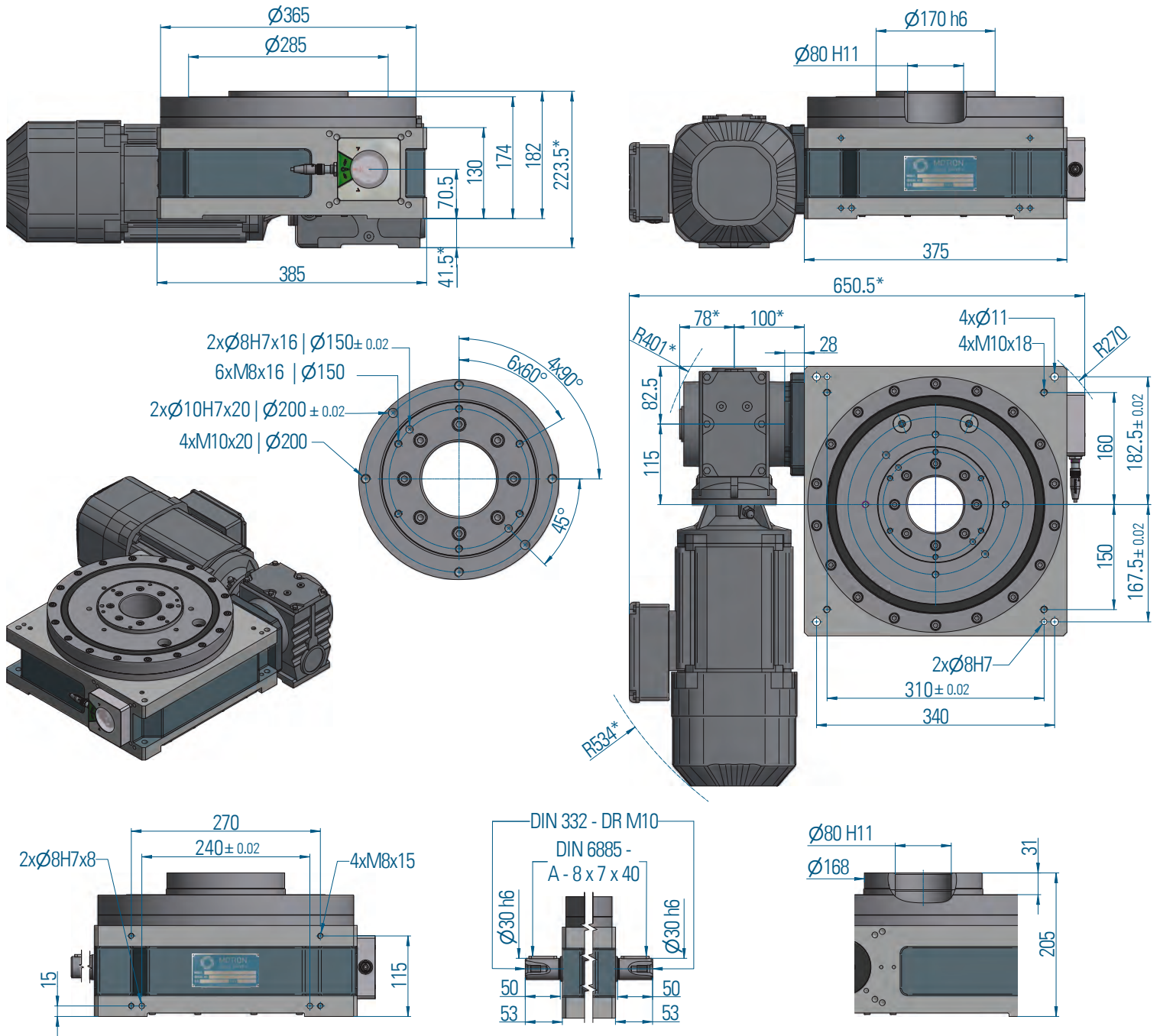
From n=16 The output flange steps 2 times per cam revolution

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



# RTX900

## Main dimensions

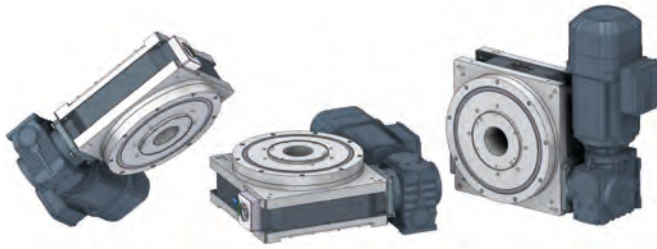


\* Dimensions depend on the used drive



# RTX900

## Fitting position

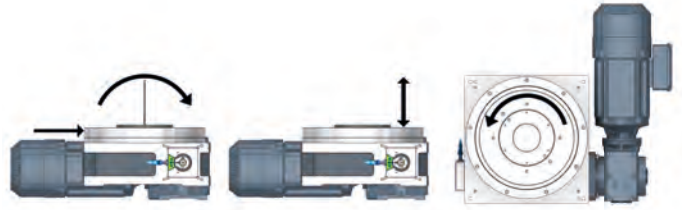


upside down

horizontal

vertical

## Load on output flange



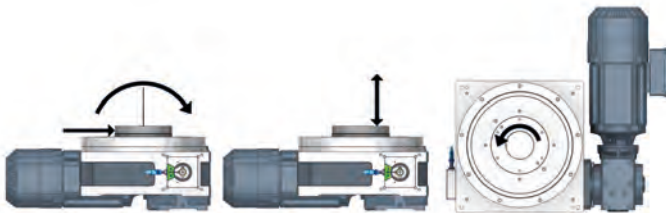
Radial force  $F_{rA}$  [kN] 22

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 ["]	$\pm 16$

\* Increased indexing accuracy 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 Motion Index Drives.

## 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

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 [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		
2	n															
	t	0.48	0.56	0.75	1.07	1.50	1.86	2.14	2.46	3.11	3.48	4.34				
	$J_{Max}$	14.22	19.78	35.40	73.78	143.96	220.69	293.78	389.02	620.71	778.67	1209.43				
	$J_L$	4.27	6.31	12.47	29.20	63.15	103.29	143.57	198.34	339.51	440.68	731.27				
	J	0.14	0.61	6.58	12.60	25.14	49.80	76.57	198.34	284.24	390.54	539.37				
	3	t	0.48	0.53	0.69	0.97	1.48	1.71	2.11	2.47	2.68	3.11	4.10			
		$J_{Max}$	22.93	28.38	48.88	96.83	224.32	300.20	457.63	625.16	739.55	995.41	1729.88			
		$J_L$	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			
		4	t	0.32	0.49	0.61	0.91	1.33	1.63	1.74	2.01	2.47	2.92	4.01		
			$J_{Max}$	15.55	36.57	57.29	127.22	270.58	405.97	464.92	618.83	937.86	1307.20	2473.53		
	$J_L$		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			
	5	t	0.32	0.49	0.65	0.90	1.25	1.60	1.71	1.98	2.45	2.76	3.62			
		$J_{Max}$	22.74	54.45	93.63	179.92	348.82	573.92	657.24	874.78	1346.56	1703.12	2928.34			
$J_L$		9.16	25.22	47.15	100.07	214.38	380.14	444.28	617.28	1013.74	1328.17	2477.09				
J		1.12	6.59	10.60	17.03	28.68	118.41	148.04	232.18	276.64	333.49	794.00				
6	t	0.32	0.45	0.64	0.90	1.25	1.68	1.79	1.98	2.45	2.67	3.62				
	$J_{Max}$	27.47	53.14	109.68	216.98	420.62	756.37	866.17	1054.76	1623.57	1920.58	3530.68				
	$J_L$	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				
8	t	0.32	0.45	0.64	0.90	1.25	1.68	1.79	2.07	2.42	2.76	3.56				
	$J_{Max}$	36.20	71.22	146.93	290.59	563.25	1012.81	1159.82	1543.65	2108.54	2749.52	4585.24				
	$J_L$	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				
10	t	0.32	0.45	0.64	0.89	1.25	1.68	1.82	1.98	2.45	2.76					
	$J_{Max}$	45.39	89.24	184.04	359.76	705.36	1268.30	1497.43	1768.57	2722.26	3443.02					
	$J_L$	23.53	51.34	118.14	255.46	554.15	1088.12	1317.11	1594.93	2619.06	3431.29					
	J	4.16	13.98	28.00	44.85	146.11	241.64	476.55	1006.27	1225.58	1484.27					
12	t	0.32	0.45	0.64	0.89	1.25	1.60	1.71	2.10	2.45	2.76					
	$J_{Max}$	54.56	107.24	221.10	432.18	847.29	1393.85	1596.16	2393.90	3269.89	4135.63					
	$J_L$	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					
16	t		0.25	0.31	0.45	0.65	0.81	0.93	1.09	1.24	1.39					
	$J_{Max}$		43.57	71.04	147.82	305.98	468.90	624.13	852.57	1111.79	1392.40					
	$J_L$		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					
20	t		0.24	0.33	0.43	0.65	0.75	0.95	1.17	1.19	1.39					
	$J_{Max}$		53.00	99.04	165.84	383.46	513.12	806.38	1236.32	1272.96	1744.82					
	$J_L$		50.83	99.04	165.84	383.46	513.12	806.38	1236.32	1272.96	1744.82					
	J		2.94	20.97	27.74	69.59	108.70	311.54	751.28	1204.99	1744.82					
24	t		0.24	0.33	0.43	0.65	0.77	0.93	1.09	1.24	1.45					
	$J_{Max}$		63.73	119.05	199.31	460.81	635.74	939.85	1283.82	1674.11	2294.65					
	$J_L$		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					
30	t		0.24	0.32	0.45	0.63	0.78	0.89	1.04	1.24	1.43					
	$J_{Max}$		79.80	136.84	278.70	543.22	832.38	1075.99	1469.77	2094.81	2784.90					
	$J_L$		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					
36	t			0.21	0.30	0.43	0.54	0.59	0.69	0.79	0.93	1.20				
	$J_{Max}$			72.80	148.38	307.13	470.67	573.16	782.97	1019.66	1397.65	2358.96				
	$J_L$			72.80	148.38	307.13	470.67	573.16	782.97	1019.66	1397.65	2358.96				
	J			39.84	109.95	74.69	141.04	391.48	634.29	1019.66	1397.65	2358.96				

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

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



**MOTION**  
INDEX DRIVES

1204 East Maple Troy MI 48083  
P: 248-743-9999 F: 248-743-0749  
[info@mid.us.com](mailto:info@mid.us.com)  
[www.motionindexdrives.com](http://www.motionindexdrives.com)