



Right Angle Drives
TG Series



The globoidal indexer – design and mode of operation
 Globoidal indexers convert a uniform input motion into an intermittent output motion. The intermittent output motion is transmitted through our induction-hardened, precision-machined globoidal cam. Mathematical laws of motion are applied to create a soft, smooth, zero-impact movement which is ideally tailored to the operation for any given case. Our design and construction results in a positive fit and zero-backlash positioning of the output flange (tool mounting surface).

No further locking device is required on the output flange. Additional locking devices can lead to forced positioning which can ruin the index table over the long-term.

The force is transmitted through the index table input shaft either by a three-phase brake motor with worm gearing or by a chain wheel or belt pulley. This is mounted to the barrel cam without any further gear stages and in turn rotates the star wheel and cam followers together with the output flange.

The output flange rotates on wire-race bearings which are free of play and backlash (mounted in steel rings - not in cast). Custom-dimensioned shaft sealing rings form an internal and external seal on the index table.

Advantages for design engineers and special machine builders

Housing machined on all sides. Suitable for use in any mounting position required.

Mounting holes identical on top and bottom

Smooth index angles and extended dwell enable continuous use

Globoidal design enables up to 1000 cycles per minute

Simultaneously rotating input shaft extension. Optional synchronization of other mechanical modules

Allowance for individual customer requirements

Choice of drive

Reinforced output flange bearing for higher tilting moment

Optional friction clutch on drive

Dwell and index angle can be tailored to requirements

All sizes also available as programmable flex indexers

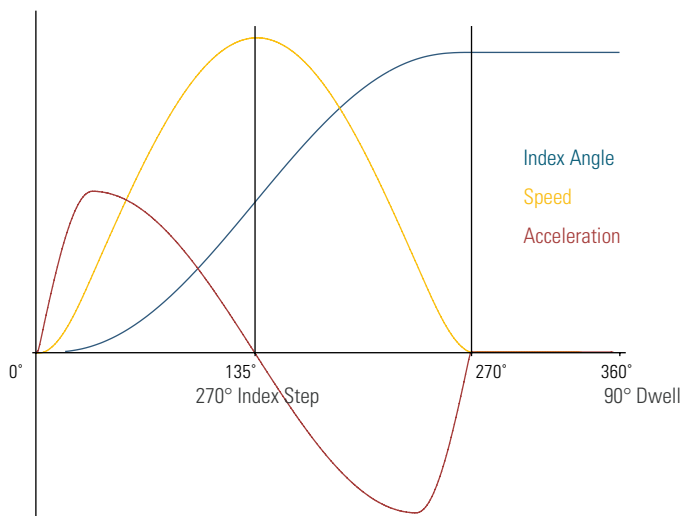
Custom specified color at no extra charge

The sky is the limit for the Motion product line. Flexible, made-to-order custom designs which are not featured in the product catalog have long been embedded in our corporate philosophy. We keep 10% of our entire workforce in reserve for these custom applications. Our skilled staff are available to assist our customers on a daily basis.

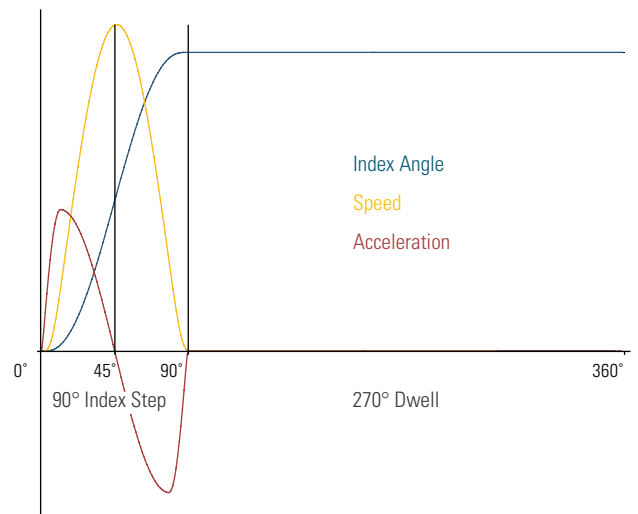
Our drives meet the highest standards regarding quality and precision. Our cams are manufactured in a different manner with regards to our competition, therefore it is often possible to use smaller rotary table sizes supplied by Motion instead of larger ones supplied by our competitors.

Our extensive design expertise enables us to meet customer requirements down to the last detail. We can combine the advantages of different forms of drives to create new value-added solutions which fit the bill completely. This is the added value which we have been offering to our customers in different sectors for many years.

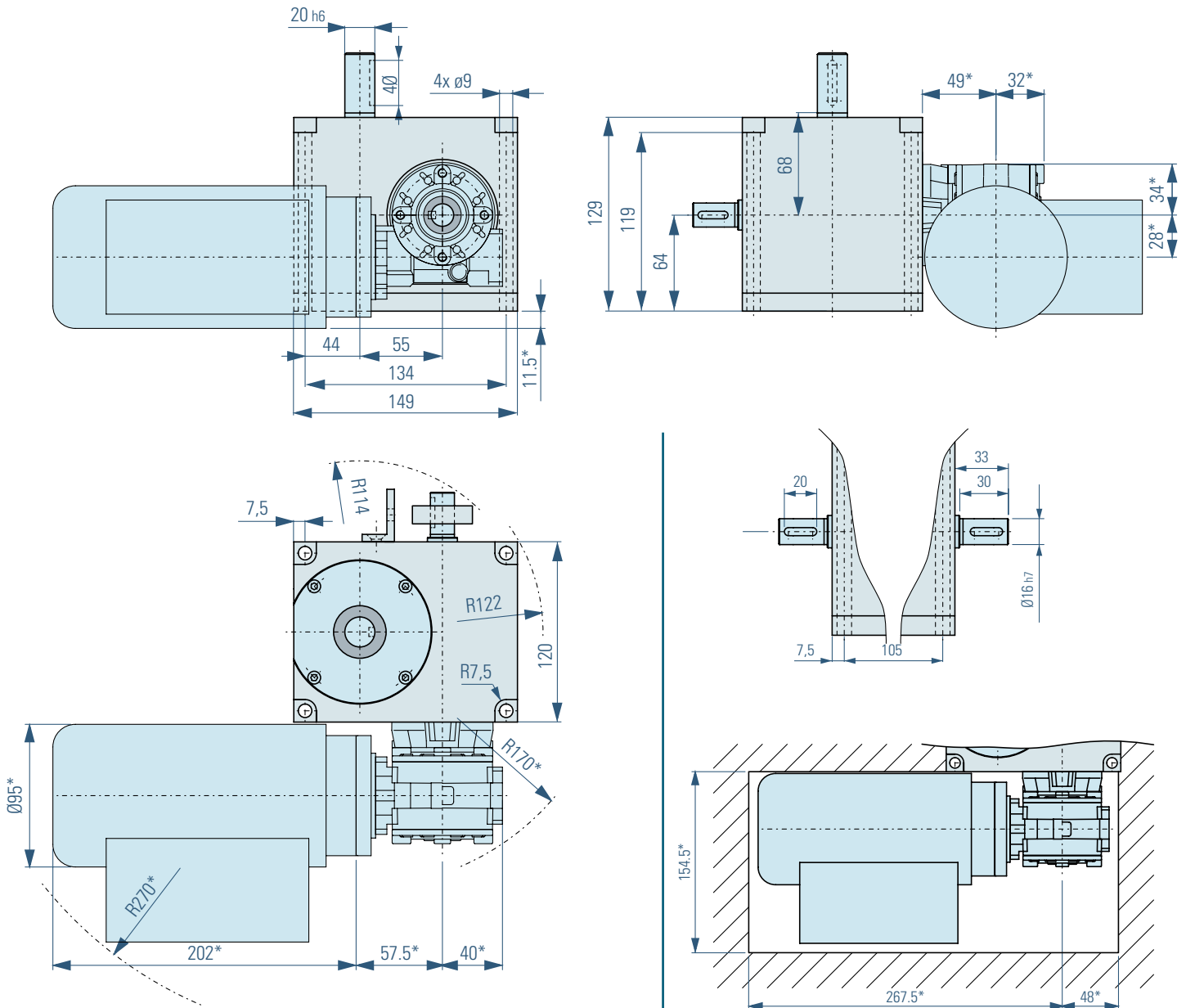
RT and TT Series Rotary



TG Series Globoidal



TG055



Dimensions

The measurements shown here illustrate the standard version. We will gladly customize the housing and the two shafts to suit your needs. The drive shaft as well as the output shaft are available

as double sided shafts with and without keyways. If you would like to add additional holes into the housing yourself, please contact us for possible drilling depths.

⚠ Warning! Never drill through the housing.

⚠ Warning! Depending on the drive size used, the dimensions of the engine and drive may change.

Load Table TG055

Angle on Output Shaft [°]	Number of Stops [n]	Switching Angle α [°]	Acceleration Form MS	Indexer Torque M_{AB} [Nm]			Moment of Inertia J [kgm ²]			Index Time t_s [s]		
				n=50	n=100	n=200	n=50	n=100	n=200	n=50	n=100	n=200
360°	1	330	MS30	13	10	9	0.25	0.05	0.01	1.10	0.55	0.28
		300	MS50	13	10	9	0.26	0.05	0.01	1.00	0.50	0.25
180°	2	270	MS0	13	11	9	0.42	0.09	0.02	0.90	0.45	0.23
		210	MS30	13	10	8	0.29	0.06	0.01	0.70	0.35	0.18
		150	MS50	13	10	8	0.10	0.02	0.00	0.50	0.25	0.13
120°	3	270	MS0	17	14	12	0.95	0.20	0.04	0.90	0.45	0.23
		210	MS30	17	14	12	0.50	0.10	0.02	0.70	0.35	0.18
		150	MS30	16	13	11	0.24	0.05	0.01	0.50	0.25	0.13
		120	MS30	16	13	11	0.15	0.03	0.01	0.40	0.20	0.10
90°	4	270	MS0	13	13	11	0.97	0.24	0.05	0.90	0.45	0.23
		210	MS0	13	13	11	0.59	0.15	0.03	0.70	0.35	0.18
		150	MS30	12	12	10	0.24	0.06	0.01	0.50	0.25	0.13
		90	MS30	11	11	9	0.08	0.02	0.00	0.30	0.15	0.08
72°	5	270	MS0	13	13	11	1.21	0.30	0.06	0.90	0.45	0.23
		210	MS0	13	13	11	0.73	0.18	0.04	0.70	0.35	0.18
		150	MS30	12	12	10	0.30	0.07	0.02	0.50	0.25	0.13
		90	MS30	11	11	9	0.10	0.02	0.01	0.30	0.15	0.08
60°	6 ¹⁾	270	MS0	16	16	12	1.79	0.45	0.08	0.90	0.45	0.23
		240	MS0	16	16	12	1.42	0.35	0.07	0.80	0.40	0.20
		180	MS30	15	15	11	0.64	0.16	0.03	0.60	0.30	0.15
		120	MS30	13	13	10	0.25	0.06	0.01	0.40	0.20	0.10
45°	8 ¹⁾	270	MS0	12	12	11	1.79	0.45	0.10	0.90	0.45	0.23
		240	MS0	12	12	11	1.42	0.35	0.08	0.80	0.40	0.20
		180	MS30	12	12	11	0.69	0.17	0.04	0.60	0.30	0.15
		120	MS30	11	11	10	0.28	0.07	0.02	0.40	0.20	0.10

¹⁾ Index drives with stop numbers 6, 8 and 10 are designed as a double indexer, i.e. with each full rotation of the drive shaft, two indexes occur in the output.

²⁾ Index drives with 12 stops are designed as a four step indexer, i.e. with each full rotation of the drive shaft, four indexes occur in the output.

³⁾ The additional load occurring with chains and belts due to friction is not taken into consideration here and must be calculated separately.

Technical Specifications

Main Dimensions

Shaft distance [mm]	55
Weight without drive [kg]	10
Switching angle [°] (other switching angles upon request)	see Load Table
Numbers of stops (other numbers of stops upon request)	N/A
Rotating Direction	right, left, oscillating

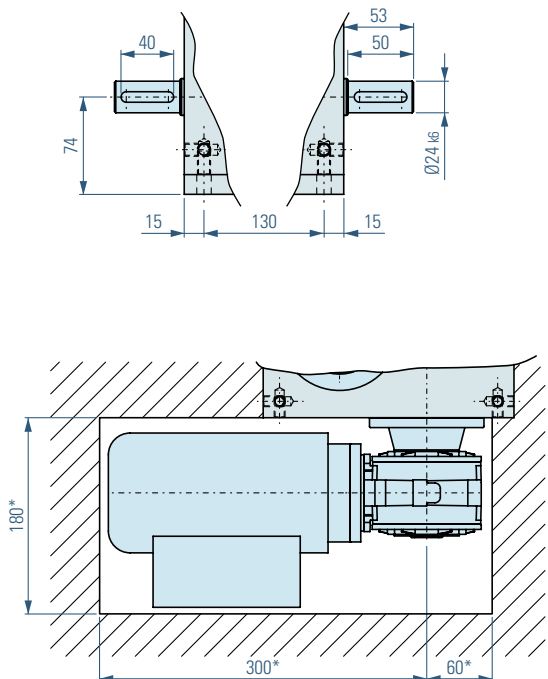
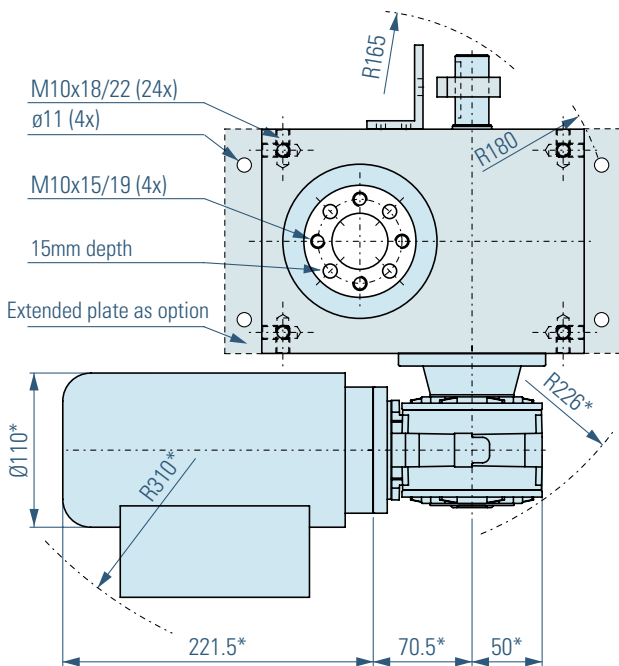
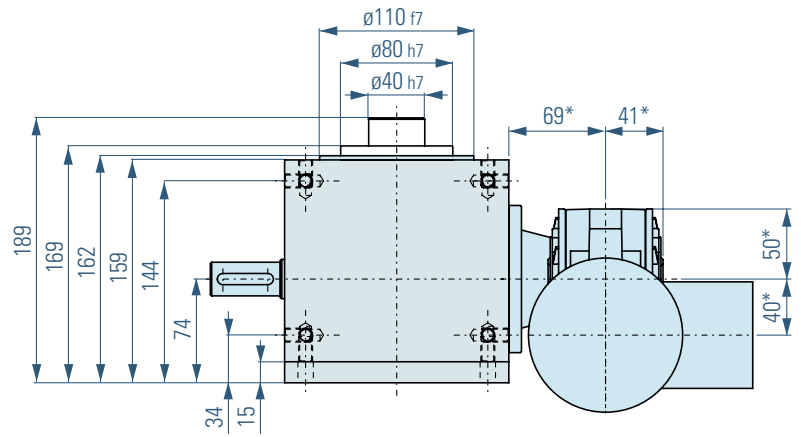
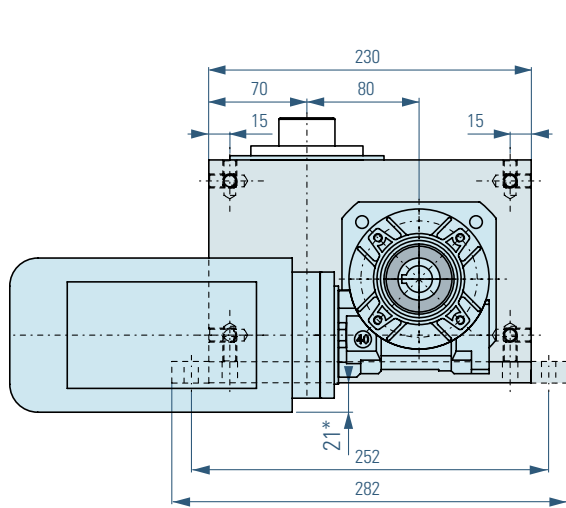
Capacities

Max. Output torque	see Load Table
Input Shaft	
Load rating dynamic [kN]	N/A
Load rating static [kN]	N/A
Output shaft	
Load rating dynamic [kN]	N/A
Load rating static [kN]	N/A

Standard drive (optional)

Motor	SEW or Kobold
Worm Gear	FRSxx
Frame Size	IECxx
Voltage [V]	230/400
Performance [kW]	N/A

TG080



Dimensions

The measurements shown here illustrate the standard version. We will gladly customize the housing and the two shafts to suit your needs. The drive shaft as well as the output shaft are available

as double sided shafts with and without keyways. If you would like to add additional holes into the housing yourself, please contact us for possible drilling depths.

⚠ Warning! Never drill through the housing.

⚠ Warning! Depending on the drive size used, the dimensions of the engine and drive may change.

Load Table TG080

Angle on Output Shaft [°]	Number of Stops [n]	Switching Angle α [°]	Acceleration Form MS	Indexer Torque M_{AB} [Nm]			Moment of Inertia J [kgm ²]			Index Time t_s [s]		
				n=50	n=100	n=200	n=50	n=100	n=200	n=50	n=100	n=200
360°	1	330	MS30	29	25	21	0.56	0.12	0.03	1.10	0.55	0.28
		300	MS50	28	24	20	0.56	0.12	0.02	1.00	0.50	0.25
180°	2	270	MS0	32	27	24	1.03	0.22	0.05	0.90	0.45	0.23
		210	MS30	26	24	21	0.59	0.14	0.03	0.70	0.35	0.18
		150	MS50	25	23	20	0.20	0.05	0.01	0.50	0.25	0.13
120°	3	270	MS0	39	33	26	2.18	0.46	0.09	0.90	0.45	0.23
		210	MS30	39	33	26	1.14	0.24	0.05	0.70	0.35	0.18
		150	MS30	33	27	23	0.49	0.10	0.02	0.50	0.25	0.13
		120	MS30	30	25	20	0.29	0.06	0.01	0.40	0.20	0.10
90°	4	270	MS0	36	30	24	2.69	0.56	0.11	0.90	0.45	0.23
		210	MS0	36	30	24	1.63	0.34	0.07	0.70	0.35	0.18
		150	MS30	35	29	23	0.70	0.14	0.03	0.50	0.25	0.13
		90	MS30	32	28	21	0.23	0.05	0.01	0.30	0.15	0.08
72°	5	270	MS0	36	30	24	3.36	0.70	0.14	0.90	0.45	0.23
		210	MS0	36	30	24	2.03	0.42	0.08	0.70	0.35	0.18
		150	MS30	35	29	23	0.87	0.18	0.04	0.50	0.25	0.13
		90	MS30	32	28	21	0.29	0.06	0.01	0.30	0.15	0.08
60°	6 ¹⁾	270	MS0	42	34	28	4.70	0.95	0.20	0.90	0.45	0.23
		240	MS0	42	34	28	3.72	0.75	0.15	0.80	0.40	0.20
		180	MS30	40	32	25	1.72	0.34	0.07	0.60	0.30	0.15
		120	MS30	36	29	22	0.69	0.14	0.03	0.40	0.20	0.10
45°	8 ¹⁾	270	MS0	42	34	28	6.27	1.27	0.26	0.90	0.45	0.23
		240	MS0	42	34	28	4.95	1.00	0.21	0.80	0.40	0.20
		180	MS30	40	32	25	2.29	0.46	0.09	0.60	0.30	0.15
		120	MS30	36	29	22	0.92	0.18	0.03	0.40	0.20	0.10
36	10 ¹⁾	270	MS0	42	34	28	7.84	1.59	0.33	0.90	0.45	0.23
		240	MS0	42	34	28	6.19	1.25	0.26	0.80	0.40	0.20
		180	MS30	40	32	25	2.86	0.57	0.11	0.60	0.30	0.15
		120	MS30	36	29	22	1.14	0.23	0.04	0.40	0.20	0.10

¹⁾ Index drives with stop numbers 6, 8 and 10 are designed as a double indexer, i.e. with each full rotation of the drive shaft, two indexes occur in the output.

²⁾ Index drives with 12 stops are designed as a four step indexer, i.e. with each full rotation of the drive shaft, four indexes occur in the output.

³⁾ The additional load occurring with chains and belts due to friction is not taken into consideration here and must be calculated separately.

Technical Specifications

Main Dimensions

Shaft distance [mm]	40
Weight without drive [kg]	20
Switching angle [°] (other switching angles upon request)	see Load Table
Numbers of stops (other numbers of stops upon request)	1, 2, 3, 4, 5, 6, 8, 10
Rotating Direction	right, left, oscillating

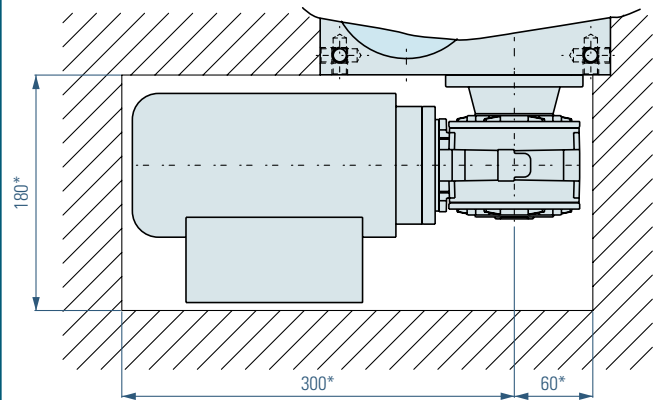
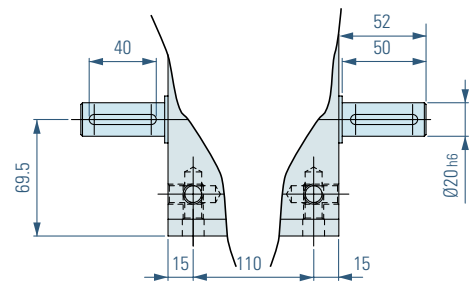
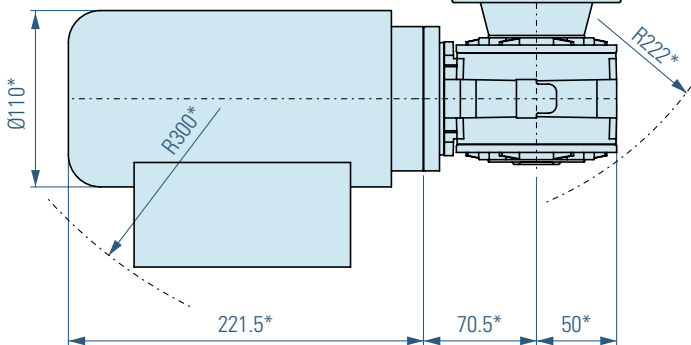
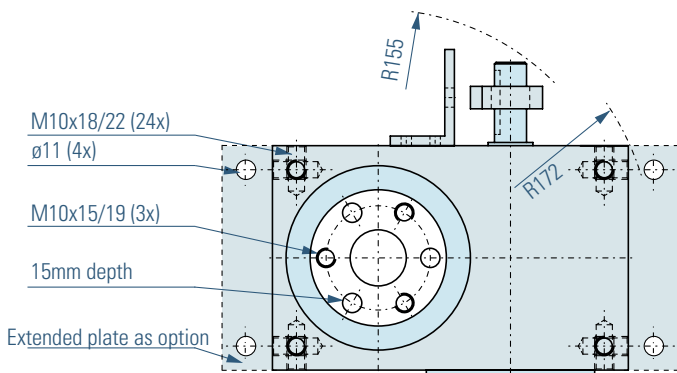
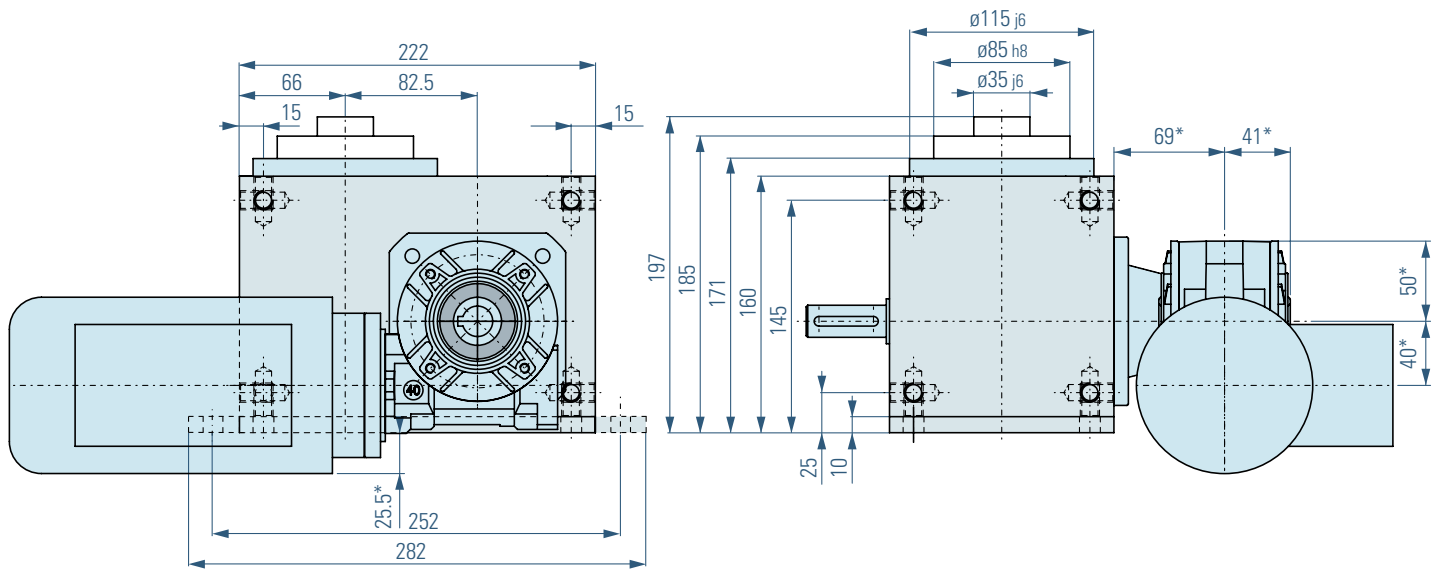
Capacities

Max. Output torque	see Load Table
Input Shaft	
Load rating dynamic [kN]	4.36
Load rating static [kN]	2.24
Output shaft	
Load rating dynamic [kN]	4.36
Load rating static [kN]	2.24

Standard drive (optional)

Motor	SEW or Kobold
Worm Gear	FRS28
Frame Size	IEC56
Voltage [V]	230/400
Performance [kW]	0.06-0.09



TG082



Dimensions

The measurements shown here illustrate the standard version. We will gladly customize the housing and the two shafts to suit your needs. The drive shaft as well as the output shaft are available

as double sided shafts with and without keyways. If you would like to add additional holes into the housing yourself, please contact us for possible drilling depths.

-  Warning! Never drill through the housing.
-  Warning! Depending on the drive size used, the dimensions of the engine and drive may change.

Load Table TG082

Angle on Output Shaft [°]	Number of Stops [n]	Switching Angle α [°]	Acceleration Form MS	Indexer Torque M_{AB} [Nm]			Moment of Inertia J [kgm ²]			Index Time t_s [s]		
				n=50	n=100	n=200	n=50	n=100	n=200	n=50	n=100	n=200
360°	1	330	MS30	41	34	29	0.79	0.16	0.03	1.10	0.55	0.28
		300	MS50	41	34	29	0.81	0.17	0.04	1.00	0.50	0.25
180°	2	270	MS0	51	43	37	1.64	0.35	0.07	0.90	0.45	0.23
		210	MS30	49	42	36	1.11	0.24	0.05	0.70	0.35	0.18
		150	MS50	42	37	34	0.33	0.07	0.02	0.50	0.25	0.13
120°	3	270	MS0	54	49	43	3.02	0.69	0.15	0.90	0.45	0.23
		210	MS30	52	47	42	1.52	0.34	0.08	0.70	0.35	0.18
		150	MS30	45	40	33	0.67	0.15	0.03	0.50	0.25	0.13
		120	MS30	43	37	31	0.41	0.09	0.02	0.40	0.20	0.10
90°	4	270	MS0	47	43	38	3.51	0.80	0.18	0.90	0.45	0.23
		210	MS0	45	41	35	2.03	0.46	0.10	0.70	0.35	0.18
		150	MS30	41	37	31	0.81	0.18	0.04	0.50	0.25	0.13
		90	MS30	37	31	26	0.26	0.06	0.01	0.30	0.15	0.08
72°	5	270	MS0	47	43	38	4.38	1.00	0.22	0.90	0.45	0.23
		210	MS0	45	41	35	2.54	0.58	0.12	0.70	0.35	0.18
		150	MS30	41	37	31	1.02	0.23	0.05	0.50	0.25	0.13
		90	MS30	37	31	26	0.33	0.07	0.01	0.30	0.15	0.08
60°	6 ¹⁾	270	MS0	59	57	53	6.61	1.60	0.37	0.90	0.45	0.23
		240	MS0	58	54	50	5.13	1.19	0.28	0.80	0.40	0.20
		180	MS30	50	46	41	2.15	0.49	0.11	0.60	0.30	0.15
		120	MS30	47	41	38	0.90	0.20	0.05	0.40	0.20	0.10
45°	8 ¹⁾	270	MS0	59	57	53	8.81	2.13	0.49	0.90	0.45	0.23
		240	MS0	58	54	50	6.84	1.59	0.37	0.80	0.40	0.20
		180	MS30	50	46	41	2.86	0.66	0.15	0.60	0.30	0.15
		120	MS30	47	41	38	1.20	0.26	0.06	0.40	0.20	0.10
36°	10 ¹⁾	270	MS0	59	57	53	11.01	2.66	0.62	0.90	0.45	0.23
		240	MS0	58	54	50	8.55	1.99	0.46	0.80	0.40	0.20
		180	MS30	50	46	41	3.58	0.82	0.18	0.60	0.30	0.15
		120	MS30	47	41	38	1.49	0.33	0.08	0.40	0.20	0.10
30°	12 ²⁾	240	MS0	41	38	31	7.25	1.68	0.34	0.80	0.40	0.20

¹⁾ Index drives with stop numbers 6, 8 and 10 are designed as a double indexer, i.e. with each full rotation of the drive shaft, two indexes occur in the output.

²⁾ Index drives with 12 stops are designed as a four step indexer, i.e. with each full rotation of the drive shaft, four indexes occur in the output.

³⁾ The additional load occurring with chains and belts due to friction is not taken into consideration here and must be calculated separately.

Technical Specifications

Main Dimensions

Shaft distance [mm]	50
Weight without drive [kg]	25
Switching angle [°] (other switching angles upon request)	see Load Table
Numbers of stops (other numbers of stops upon request)	1, 2, 3, 4, 5, 6, 8, 10, 12
Rotating Direction	right, left, oscillating

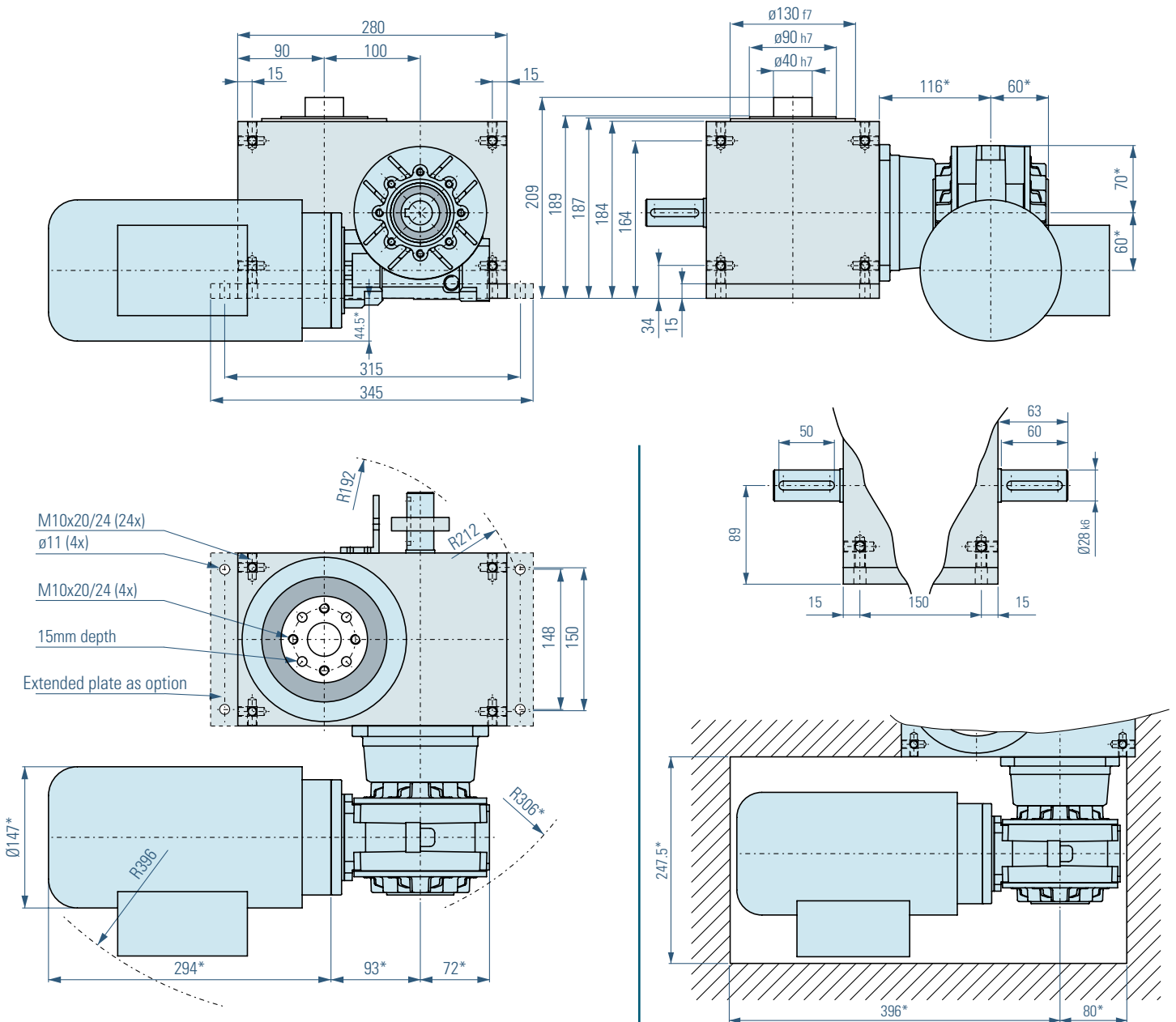
Capacities

Max. Output torque	see Load Table
Input Shaft	
Load rating dynamic [kN]	6.37
Load rating static [kN]	3.25
Output shaft	
Load rating dynamic [kN]	6.37
Load rating static [kN]	3.25

Standard drive (optional)

Motor	SEW or Kobold
Worm Gear	FRS28
Frame Size	IEC56
Voltage [V]	230/400
Performance [kW]	0.06-0.09

TG100



Dimensions

The measurements shown here illustrate the standard version. We will gladly customize the housing and the two shafts to suit your needs. The drive shaft as well as the output shaft are available

as double sided shafts with and without keyways. If you would like to add additional holes into the housing yourself, please contact us for possible drilling depths.

Warning! Never drill through the housing.

Warning! Depending on the drive size used, the dimensions of the engine and drive may change.

Load Table TG100

Angle on Output Shaft [°]	Number of Stops [n]	Switching Angle α [°]	Acceleration Form MS	Indexer Torque M_{AB} [Nm]			Moment of Inertia J [kgm ²]			Index Time t_s [s]		
				n=50	n=100	n=200	n=50	n=100	n=200	n=50	n=100	n=200
360°	1	330	MS30	52	43	36	1.0	0.2	0.04	1.10	0.55	0.28
		300	MS50	48	39	30	1.0	0.2	0.04	1.00	0.50	0.25
180°	2	270	MS0	58	51	43	1.9	0.4	0.09	0.90	0.45	0.23
		210	MS30	48	46	41	1.1	0.3	0.06	0.70	0.35	0.18
		150	MS50	42	40	39	0.3	0.1	0.02	0.50	0.25	0.13
120°	3	270	MS0	74	68	59	4.1	1.0	0.21	0.90	0.45	0.23
		210	MS30	73	67	57	2.1	0.5	0.10	0.70	0.35	0.18
		150	MS30	61	53	46	0.9	0.2	0.04	0.50	0.25	0.13
		120	MS30	60	52	43	0.6	0.1	0.03	0.40	0.20	0.10
90°	4	270	MS0	68	61	53	5.1	1.1	0.25	0.90	0.45	0.23
		210	MS0	66	59	51	3.0	0.7	0.14	0.70	0.35	0.18
		150	MS30	64	57	49	1.3	0.3	0.06	0.50	0.25	0.13
		90	MS30	64	57	49	0.5	0.1	0.02	0.30	0.15	0.08
72°	5	270	MS0	68	61	53	6.3	1.4	0.31	0.90	0.45	0.23
		210	MS0	66	59	51	3.7	0.8	0.18	0.70	0.35	0.18
		150	MS30	64	57	49	1.6	0.4	0.08	0.50	0.25	0.13
		90	MS30	64	57	49	0.6	0.1	0.03	0.30	0.15	0.08
60°	6 ¹⁾	270	MS0	86	71	56	9.6	2.0	0.39	0.90	0.45	0.23
		240	MS0	83	69	54	7.3	1.5	0.30	0.80	0.40	0.20
		180	MS30	79	65	51	3.4	0.7	0.14	0.60	0.30	0.15
		120	MS30	75	61	46	1.4	0.3	0.05	0.40	0.20	0.10
45°	8 ¹⁾	270	MS0	86	71	56	12.8	2.6	0.52	0.90	0.45	0.23
		240	MS0	83	69	54	9.8	2.0	0.40	0.80	0.40	0.20
		180	MS30	79	65	51	4.5	0.9	0.18	0.60	0.30	0.15
		120	MS30	75	61	46	1.9	0.4	0.07	0.40	0.20	0.10
36°	10 ¹⁾	270	MS0	86	71	56	16.0	3.3	0.65	0.90	0.45	0.23
		240	MS0	83	69	54	12.2	2.5	0.50	0.80	0.40	0.20
		180	MS30	79	65	51	5.7	1.2	0.23	0.60	0.30	0.15
		120	MS30	75	61	46	2.4	0.5	0.09	0.40	0.20	0.10
30°	12 ²⁾	240	MS0	62	51	39	11.0	2.3	0.43	0.80	0.40	0.20

¹⁾ Index drives with stop numbers 6, 8 and 10 are designed as a double indexer, i.e. with each full rotation of the drive shaft, two indexes occur in the output.

²⁾ Index drives with 12 stops are designed as a four step indexer, i.e. with each full rotation of the drive shaft, four indexes occur in the output.

³⁾ The additional load occurring with chains and belts due to friction is not taken into consideration here and must be calculated separately.

Technical Specifications

Main Dimensions

Shaft distance [mm]	65
Weight without drive [kg]	80
Switching angle [°]	see Load Table
(other switching angles upon request)	
Numbers of stops	1, 2, 3, 4, 5, 6, 8, 10, 12
(other numbers of stops upon request)	
Rotating Direction	right, left, oscillating

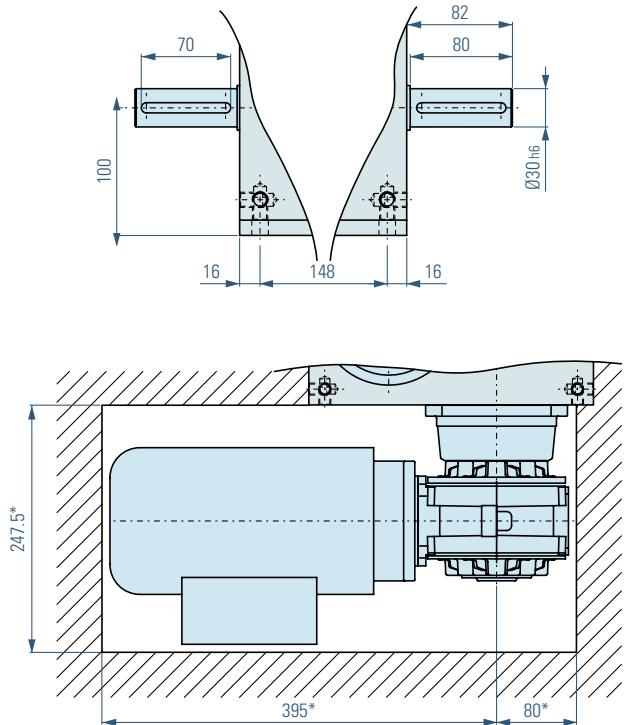
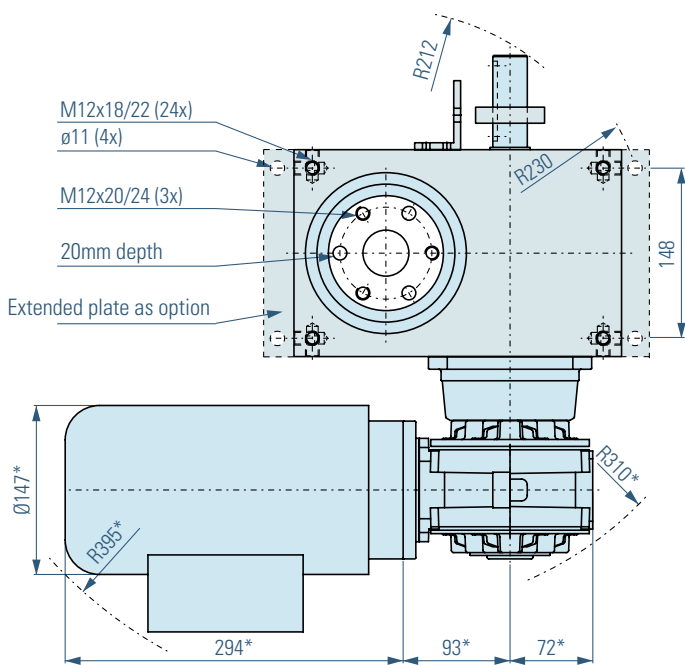
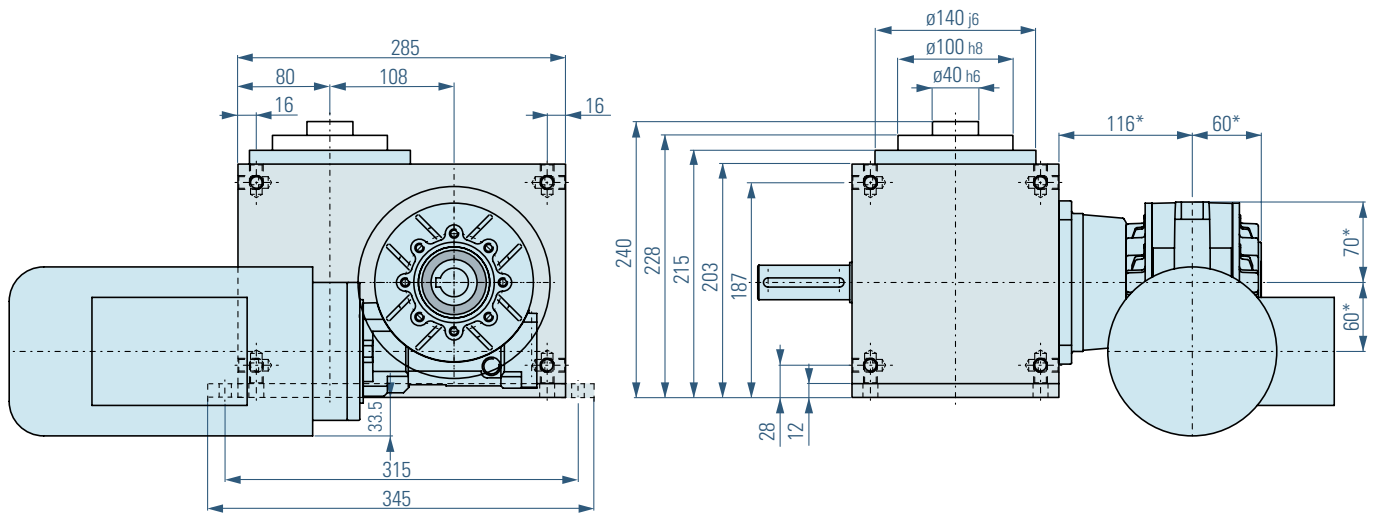
Capacities

Max. Output torque	see Load Table
Input Shaft	
Load rating dynamic [kN]	11.9
Load rating static [kN]	6.55
Output shaft	
Load rating dynamic [kN]	11.9
Load rating static [kN]	6.55

Standard drive (optional)

Motor	SEW or Kobold
Worm Gear	FRS40
Frame Size	IEC63
Voltage [V]	230/400
Performance [kW]	0.12-0.25

TG108



Dimensions

The measurements shown here illustrate the standard version. We will gladly customize the housing and the two shafts to suit your needs. The drive shaft as well as the output shaft are available

as double sided shafts with and without keyways. If you would like to add additional holes into the housing yourself, please contact us for possible drilling depths.

- ⚠ Warning! Never drill through the housing.
- ⚠ Warning! Depending on the drive size used, the dimensions of the engine and drive may change.

Load Table TG108

Angle on Output Shaft [°]	Number of Stops [n]	Switching Angle α [°]	Acceleration Form MS	Indexer Torque M_{AB} [Nm]			Moment of Inertia J [kgm ²]			Index Time t_s [s]		
				n=50	n=100	n=200	n=50	n=100	n=200	n=50	n=100	n=200
360°	1	330	MS30	124	102	81	2.4	0.5	0.10	1.10	0.55	0.28
		300	MS50	123	101	79	2.4	0.5	0.10	1.00	0.50	0.25
180°	2	270	MS0	132	107	93	4.2	0.9	0.19	0.90	0.45	0.23
		210	MS30	131	107	93	3.0	0.6	0.13	0.70	0.35	0.18
		150	MS50	103	96	89	0.8	0.2	0.04	0.50	0.25	0.13
120°	3	270	MS0	159	137	112	8.9	1.9	0.39	0.90	0.45	0.23
		210	MS30	152	129	101	4.4	0.9	0.18	0.70	0.35	0.18
		150	MS30	127	103	83	1.9	0.4	0.08	0.50	0.25	0.13
		120	MS30	119	97	78	1.1	0.2	0.05	0.40	0.20	0.10
90°	4	270	MS0	157	132	109	11.7	2.5	0.51	0.90	0.45	0.23
		210	MS0	151	126	96	6.8	1.4	0.27	0.70	0.35	0.18
		150	MS30	138	112	88	2.7	0.6	0.11	0.50	0.25	0.13
		90	MS30	118	92	76	0.8	0.2	0.03	0.30	0.15	0.08
72°	5	270	MS0	157	132	109	14.6	3.1	0.64	0.90	0.45	0.23
		210	MS0	151	126	96	8.5	1.8	0.34	0.70	0.35	0.18
		150	MS30	138	112	88	3.4	0.7	0.14	0.50	0.25	0.13
		90	MS30	118	92	76	1.1	0.2	0.04	0.30	0.15	0.08
60°	6 ¹⁾	270	MS0	186	149	124	20.8	4.2	0.87	0.90	0.45	0.23
		240	MS0	174	146	120	15.4	3.2	0.66	0.80	0.40	0.20
		180	MS30	160	122	96	6.9	1.3	0.26	0.60	0.30	0.15
		120	MS30	132	105	81	2.5	0.5	0.10	0.40	0.20	0.10
45°	8 ¹⁾	270	MS0	186	149	124	27.8	5.6	1.16	0.90	0.45	0.23
		240	MS0	174	146	120	20.5	4.3	0.88	0.80	0.40	0.20
		180	MS30	160	122	96	9.2	1.7	0.34	0.60	0.30	0.15
		120	MS30	132	105	81	3.4	0.7	0.13	0.40	0.20	0.10
36°	10 ¹⁾	270	MS0	186	149	124	34.7	7.0	1.45	0.90	0.45	0.23
		240	MS0	174	146	120	25.7	5.4	1.11	0.80	0.40	0.20
		180	MS30	160	122	96	11.4	2.2	0.43	0.60	0.30	0.15
		120	MS30	132	105	81	4.2	0.8	0.16	0.40	0.20	0.10
30°	12 ²⁾	240	MS0	110	95	76	19.5	4.2	0.84	0.80	0.40	0.20

¹⁾ Index drives with stop numbers 6, 8 and 10 are designed as a double indexer, i.e. with each full rotation of the drive shaft, two indexes occur in the output.

²⁾ Index drives with 12 stops are designed as a four step indexer, i.e. with each full rotation of the drive shaft, four indexes occur in the output.

³⁾ The additional load occurring with chains and belts due to friction is not taken into consideration here and must be calculated separately.

Technical Specifications

Main Dimensions

Shaft distance [mm]	80
Weight without drive [kg]	120
Switching angle [°] (other switching angles upon request)	see Load Table
Numbers of stops (other numbers of stops upon request)	1, 2, 3, 4, 5, 6, 8, 10, 12
Rotating Direction	right, left, oscillating

Capacities

Max. Output torque	see Load Table
Input Shaft	
Load rating dynamic [kN]	13.8
Load rating static [kN]	8.3
Output shaft	
Load rating dynamic [kN]	13.8
Load rating static [kN]	8.3

Standard drive (optional)

Motor	SEW or Kobold
Worm Gear	FRS60
Frame Size	IEC71
Voltage [V]	230/400
Performance [kW]	0.37

Globoidal Indexer Inquiry Form



Company _____
 Contact Person _____
 Telephone/Fax _____

Email Address _____
 Project/Order no. _____
 Date _____

Application

- Belt of Chain Conveyor Pivot Arm
 Rotation of Parts Other (please include drawing)

Belt or Chain Conveyor

Gear Ratio (if applicable) $i =$ _____
 Feed Length _____ Distanct of Deflexion Pulleys _____
 Anzahl der Werkstückträger _____

Dial Plate

Quantity _____ \emptyset _____ Thickness _____
 Material or Weight _____

Belt/Chain

Weight _____ Friction Coefficient _____
 Work Piece carrier Weight _____

Work Piece

Quantity _____ Weight _____

Pivot Arm

Pivot Angle _____ Number of Arms _____
 Distance from pivot point to center of mass of parts _____
 Weight of One Arm _____
 Weight of Fixture and Work Piece _____

Rotation of Parts

Rotation Angle _____ Weight of Fixture and Work Piece _____

Indexing Operation (cycle time fixed, dwell time variable)

Continuous Motion (cycle and dwell time fixed)

Desired Index Time [s] $t_s =$ _____

Desired Dwell Time [s] (continuous motion only) _____

Number of indexes [1/min] _____

Required Lifetime (cycle time only, typically 12,000 h) _____

Additional Forces and Loads (please describe)

Indexer Information

Type TG TX

Frame Size _____

Number of Stops $n =$ _____

Switching Angle $\alpha =$ _____

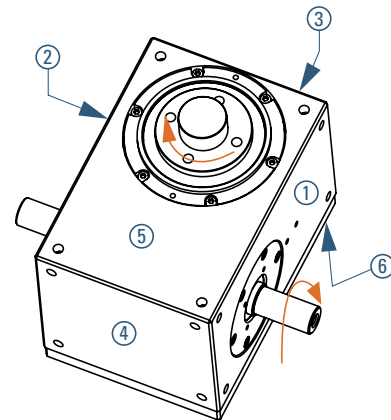
Mounting Side of Nameplate (Standard 3) _____

Standard Input Shaft yes no

If no, deviations _____ mm

Standard Output Shaft yes no

If no, deviations _____ mm

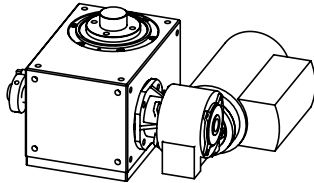


Mounting Sides / Direction of rotation of input and output shafts

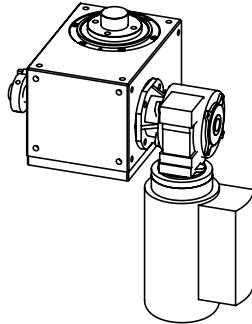
Globoidal Indexer Inquiry Form

Possible mounting positions for the drive unit

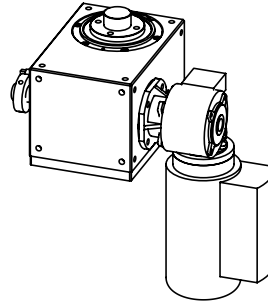
1-SL-90



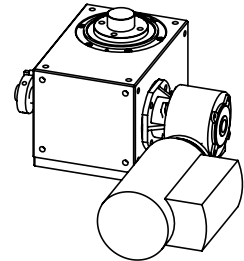
1-SL-180



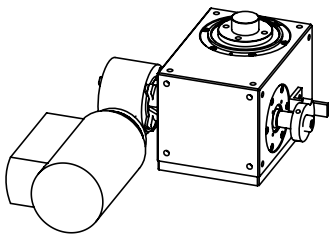
1-SR-180



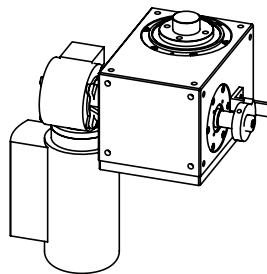
1-SR-270



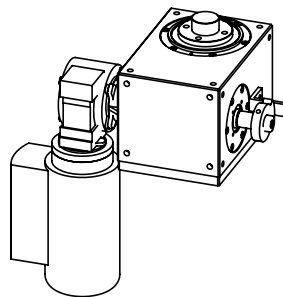
2-SL-90



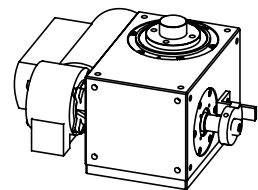
2-SL-180



2-SR-180



2-SR-270



Drive

with drive without drive

Mounting Position (see above) _____

Terminal Box Position (see right) _____

Voltage Motor 230/400-50 Hz
different Voltage _____

Voltage Brake 24V DC
different Voltage _____

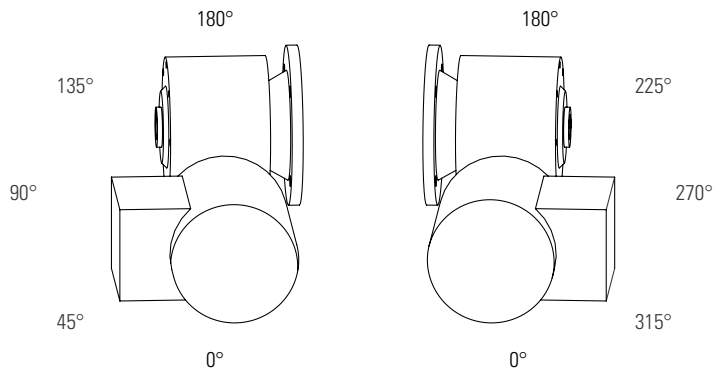
Manual Release on Brake yes no

Motor Handwheel yes no

Input Safety Clutch yes no

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

Junction Box Position



Allen Bradley PLC

Allen Bradley PLC yes no

To Speak With a Motion Engineer

Call us at 877-866-1677

Motion Index Drives, Inc.
1204 East Maple
Troy, MI 48083