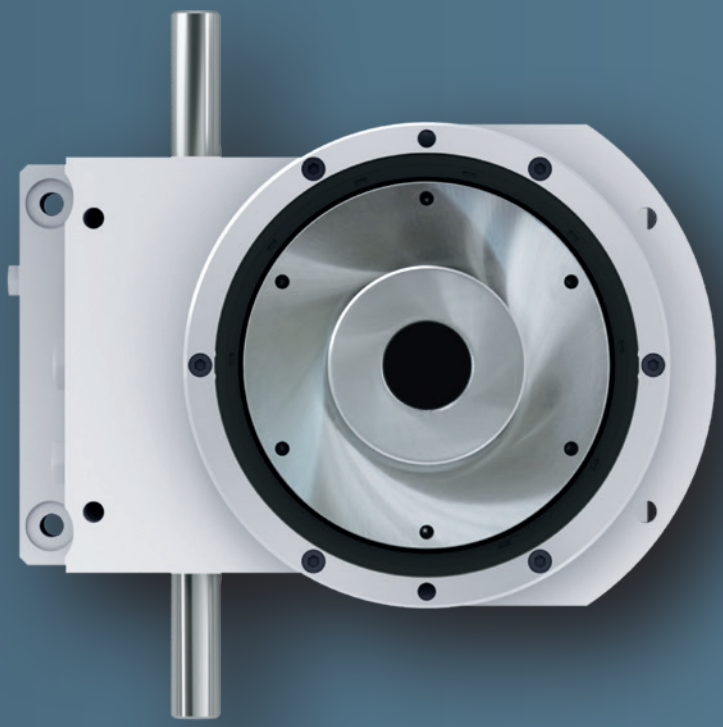
TECHNOLOGY THAT INSPIRES

GLOBOIDAL CAM INDEXER



WEISS

FULL-SCOPE EXPERTISE: TAILOR-MADE AUTOMATION SOLUTIONS FROM A SINGLE SOURCE

THE SEAMLESS SOLUTION PROVIDER IN ALL FIELDS OF AUTOMATION

As a “one-stop shop”, we offer the necessary expertise from a single source for all standard automation solutions and their usage in various markets and sectors. Our technological spectrum ranges from electro-mechanical and servo-mechanical systems, through direct drives, all the way up to globoid drives. Together with our international expertise and product partners, we ensure that customers across the globe receive perfectly tailored solutions in terms of both technical and economic perspectives.

FOUR STEPS TO PERFECT AUTOMATION

Experience a product portfolio with unparalleled scope: from basic machines, through handling units, right up to plates, attachments and custom solutions. All components can be controlled using the WEISS Application Software (W.A.S. 2) for fast and easy commissioning.

4 I would like to commission my installation quickly and efficiently

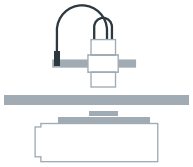
W·A·S 2

WEISS Application Software 2

SOFTWARE

3 I require machine frames, mounting bases or customised equipment

Bases, mountings, modifications



Customer-specific systems

CUSTOMER-SPECIFIC SOLUTIONS

2 I require handling components

Pick & Place

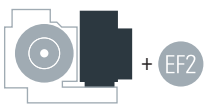
Linear axes

Rotating units

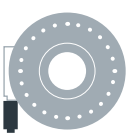
Assembly system

HANDLING MODULES

1 My transport is...



revolving at fixed speed



freely programmable

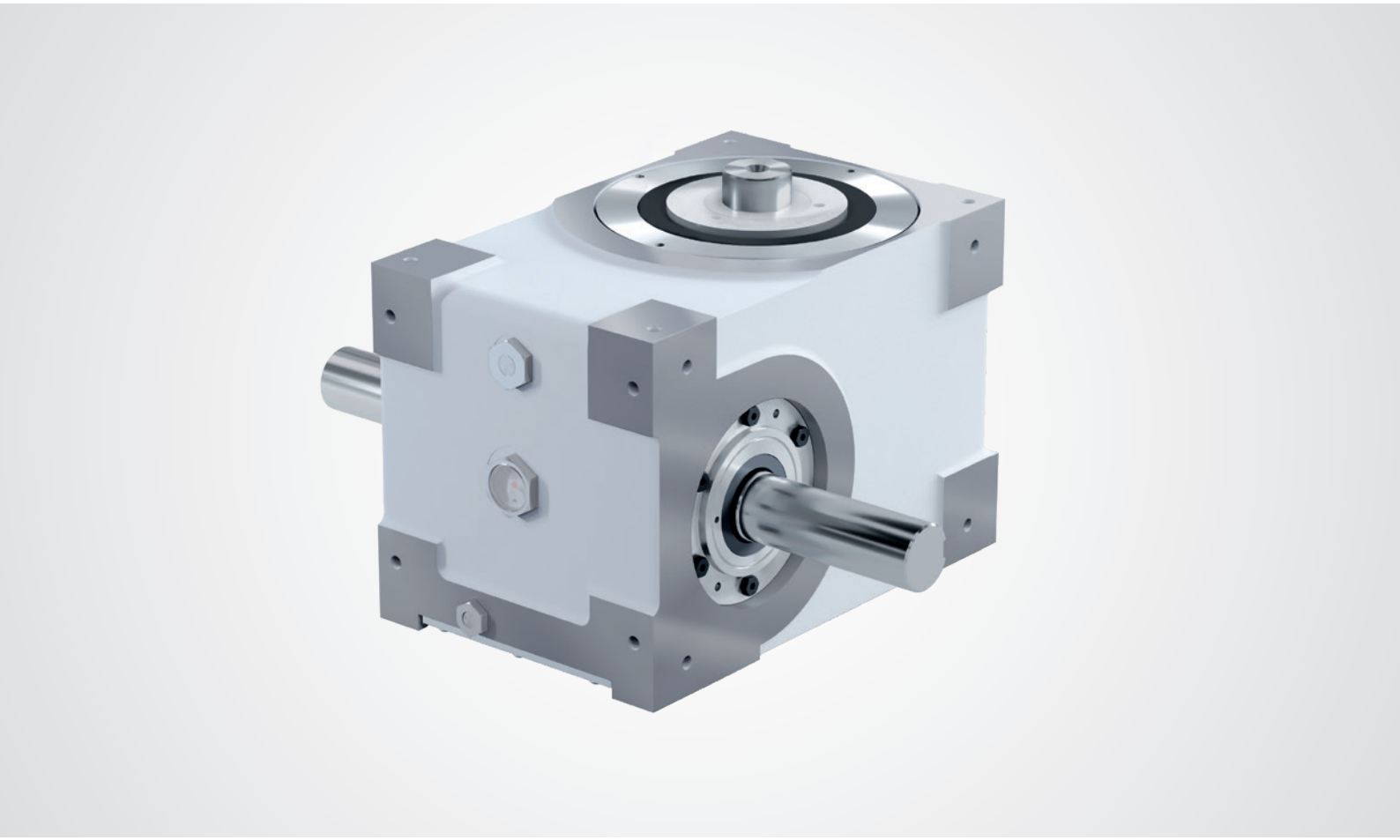
linear

ROTARY TABLES / LINEAR ASSEMBLY SYSTEM


INSPIRING PEOPLE
GREAT SOLUTIONS

GS

GLOBOIDAL CAM INDEXERS



GS GLOBOIDAL CAM INDEXERS: HIGH REPEATABILITY AND ACCURACY FOR VARIOUS APPLICATIONS

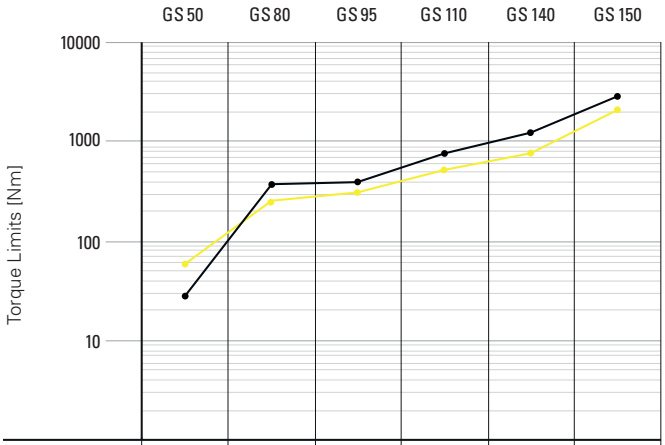
Globoidal cam indexers are typically used for continuously running applications. The cams are designed to match the indexing and idle times without stopping the motor, but can also be used for start-stop applications. These are versatile units suitable for a wide range of applications.

ADVANTAGES

- Through hardened and CNC ground steel cam
- Cast iron housing for rigidity and minimized vibration and thermal expansion
- Shaft output and flange output are optional on most models
- Double dwell cam for a higher number of stops and a higher speed

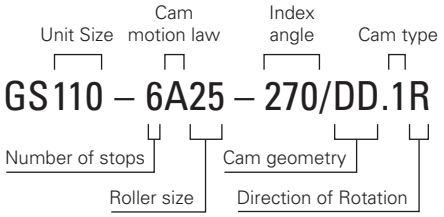
INDEXER TORQUE LIMITS

B10 and Torque Limit per GS-Type, typical Values for 6 stop / 180° Index angle; MS Cam Law

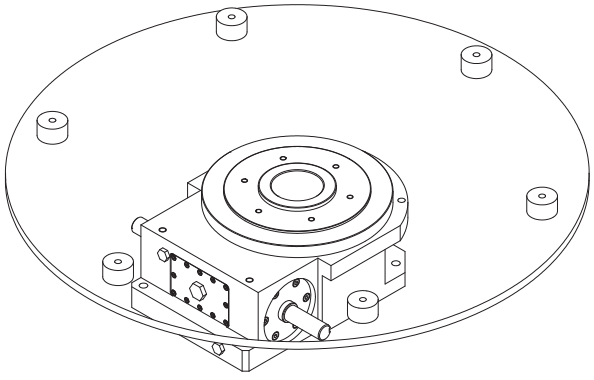


	GS 50	GS 80	GS 95	GS 110	GS 140	GS 150
B10	59	255	306	513	778	2098
Torque Limit	28	373	395	769	1210	2877

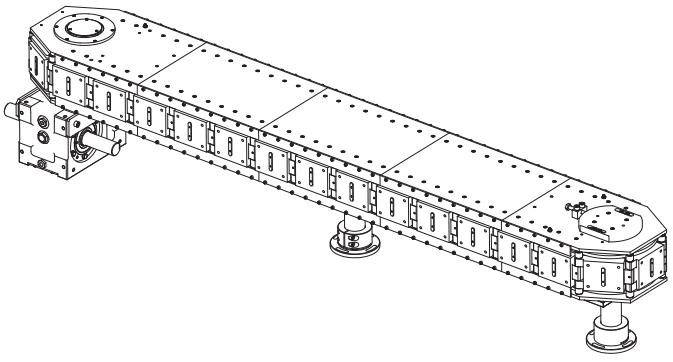
FULL CODE EXAMPLE



EXAMPLES OF WIRED FRAME APPLICATION



Dial plate application



Link conveyor application

The various options in terms of the installation position, drive position and the possible positions of the drive shaft are shown on pages 28 and 29.

GS 50

TECHNICAL DATA

Centre distance:	54 mm
Maximum recommended equipment diameter D_{tp}: *	285 mm
Number of stations:	2, 3, 4, 5, 6, 8, 10, 12, 16 other stations available on request
Direction of rotation:	clockwise, counterclockwise, reversing
Mounting position:	horizontal, vertical, upside down
Indexing precision: **	110 arcsec (± 55''; ± 0.05 mm @ 200 mm radius)
Repeat accuracy: **	54 arcsec (± 27''; ± 0.026 mm @ 200 mm radius)

LOAD DATA

$M_{2T\ dyn}$	Tilting moment:	18 Nm
$F_{2A\ dyn}$	Max. axial force while in motion:	1360 N
$F_{2R\ dyn}$	Max. radial force while in motion:	1470 N

Valid as single loads. Combination has to be double checked.

* Max. rotating plate dimension only serves as guideline.Torque demand and required service life should be considered when selecting an indexer model

** Can be lower depending on number of stops and indexing type.

Customisation on Input – available on request
Mounting of gear motor, sensor, sensor bracket, timing cam, overload clutch.

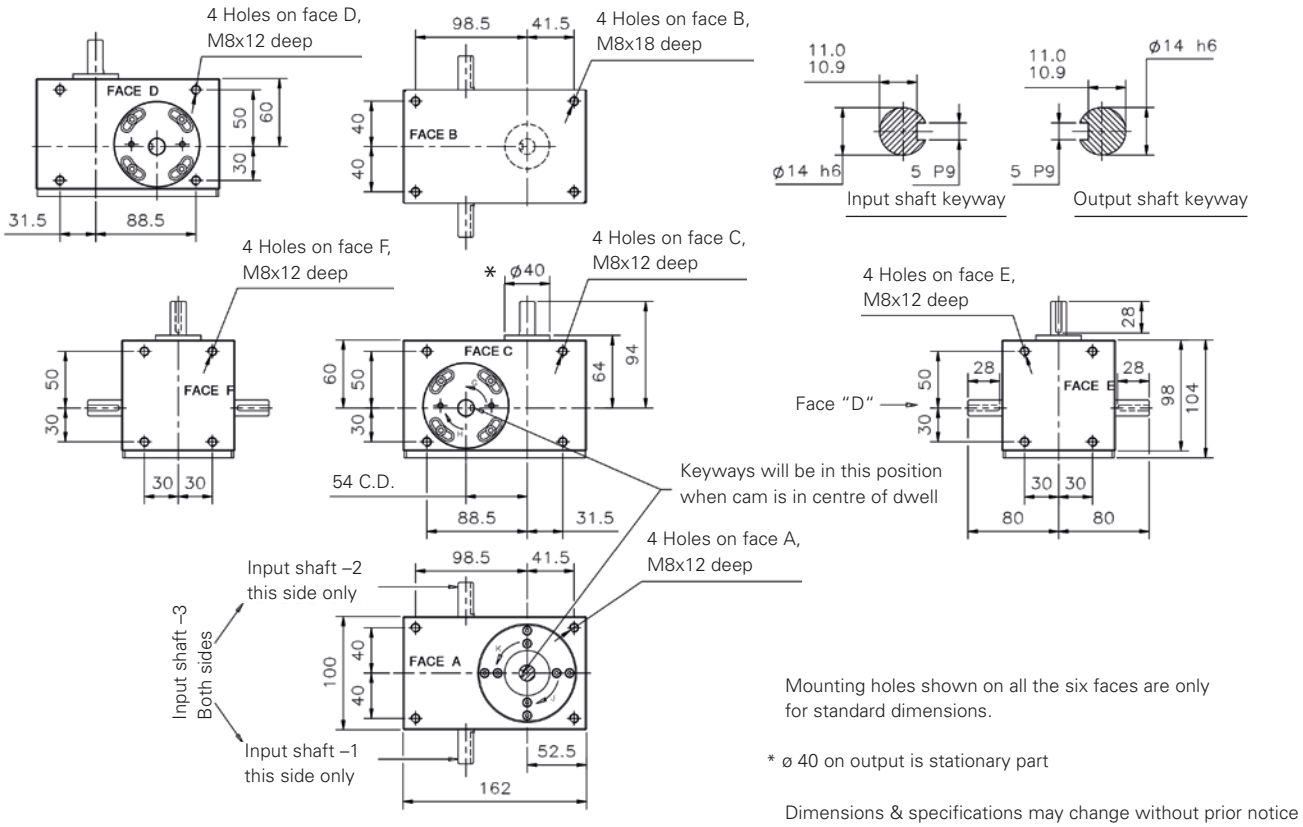
Number of Stops	Index Period (deg)	Mechanism Code	B10[1]	TL[2]	Internal Inertia[3]
2	**210°**	**GS50-2H13-210/CD.1**	**54**	**27**	**0.0001**
	240°	GS50-2G13-240/CD.1	48	27	0.0001
	270°	**GS50-2E13-270/CD.1**	**46**	**27**	**0.0001**
	300°	GS50-2A13-300/CD.1	45	27	0.0001
	330°	**GS50-2A13-330/CD.1**	**44**	**27**	**0.0001**
3	**150°**	GS50-3G13-150/CD.1	58	27	0.0001
	180°	**GS50-3A13-180/CD.1**	**42**	**25**	**0.0001**
	210°	GS50-3A13-210/CD.1	42	26	0.0001
	240°	**GS50-3A13-240/CD.1**	**41**	**27**	**0.0001**
	270°	GS50-3A13-270/CD.1	41	27	0.0001
	300°	**GS50-3A13-300/CD.1**	**49**	**28**	**0.0001**
	330°	GS50-3A13-330/CD.1	48	28	0.0001
4	**150°**	**GS50-4H13-150/CD.1**	**70**	**28**	**0.0001**
	180°	GS50-4G13-180/CD.1	64	28	0.0001
	210°	**GS50-4E13-210/CD.1**	**52**	**28**	**0.0001**
	240°	GS50-4A13-240/CD.1	47	28	0.0001
	270°	**GS50-4A13-270/CD.1**	**46**	**28**	**0.0001**
	300°	GS50-4A13-300/CD.1	54	28	0.0001
	330°	**GS50-4A13-330/CD.1**	**53**	**28**	**0.0001**
5	**270°**	GS50-5A13-270/CD.1	48	28	0.0001
	300°	**GS50-5A13-300/CD.1**	**47**	**28**	**0.0001**
	330°	GS50-5A13-330/CD.1	45	28	0.0001
6	**90°**	**GS50-6E13-90/CD.1**	**70**	**26**	**0.0001**
	120°	GS50-6A13-120/CD.1	62	27	0.0001
	150°	**GS50-6A13-150/CD.1**	**61**	**28**	**0.0001**
	180°	GS50-6A13-180/CD.1	59	28	0.0001
	210°	**GS50-6A13-210/CD.1**	**57**	**28**	**0.0001**
	240°	GS50-6A13-240/CD.1	55	28	0.0001
	270°	**GS50-6A13-270/CD.1**	**54**	**28**	**0.0001**
	300°	GS50-6A13-300/CD.1	50	28	0.0001
	330°	**GS50-6A13-330/CD.1**	**49**	**28**	**0.0001**

Number of Stops	Index Period (deg)	Mechanism Code	B10[1]	TL[2]	Internal Inertia[3]
8	**90°**	GS50-8E13-90/CD.1	73	28	0.0001
	120°	**GS50-8A13-120/CD.1**	**71**	**28**	**0.0001**
	150°	GS50-8A13-150/CD.1	68	28	0.0001
	180°	**GS50-8A13-180/CD.1**	**66**	**28**	**0.0010**
	210°	GS50-8A13-210/CD.1	63	28	0.0001
	240°	**GS50-8A13-240/CD.1**	**61**	**28**	**0.0001**
	270°	GS50-8A13-270/CD.1	59	28	0.0001
	300°	**GS50-8A13-300/CD.1**	**56**	**28**	**0.0001**
	330°	GS50-8A13-330/CD.1	54	28	0.0001
10	**270°**	**GS50-10A13-270/DD.2**	**74**	**28**	**0.0001**
	300°	GS50-10A13-300/DD.2	72	28	0.0001
12	**120°**	**GS50-12A13-120/DD.2**	**90**	**27**	**0.0001**
	150°	GS50-12A13-150/DD.2	87	28	0.0001
	180°	**GS50-12A13-180/DD.2**	**83**	**28**	**0.0001**
	210°	GS50-12A13-210/DD.2	80	28	0.0001
	240°	**GS50-12A13-240/DD.2**	**78**	**28**	**0.0001**
	270°	GS50-12A13-270/DD.2	76	28	0.0001
	300°	**GS50-12A13-300/DD.2**	**78**	**28**	**0.0001**
	330°	GS50-12A13-330/DD.2	76	28	0.0001
16	**120°**	**GS50-16A13-120/DD.2**	**94**	**28**	**0.0001**
	150°	GS50-16A13-150/DD.2	88	28	0.0001
	180°	**GS50-16A13-180/DD.2**	**84**	**28**	**0.0001**
	210°	GS50-16A13-210/DD.2	79	28	0.0001
	240°	**GS50-16A13-240/DD.2**	**79**	**28**	**0.0001**
	270°	GS50-16A13-270/DD.2	77	28	0.0001
	300°	**GS50-16A13-300/DD.2**	**76**	**28**	**0.0001**
	330°	GS50-16A13-330/DD.2	75	28	0.0001

[1] B10 Rating at 50 Ind./min. (Nm); [2] Torque Limit (Nm); [3] Internal Inertia (kgm^2)

Some indexers have a double indexing cam (type 2 cam) i.e. for one cam revolution, two indexing are carried out on the output. We also supply indexers with other number of stops & index angles. Kindly contact WEISS sales representative for more information.

DIMENSIONS



Mounting holes shown on all the six faces are only for standard dimensions.

* ø 40 on output is stationary part

Dimensions & specifications may change without prior notice

GS 80

TECHNICAL DATA

Centre distance:	80 mm
Maximum recommended equipment diameter D_{tp}: *	435 mm
Number of stations:	1, 2, 3, 4, 5, 6, 8, 10, 12, 16, 20 other stations available on request
Direction of rotation:	clockwise, counterclockwise, reversing
Mounting position:	horizontal, vertical, upside down
Indexing precision: **	70 arcsec (± 35''; ± 0.034 mm @ 200 mm radius)
Repeat accuracy: **	36 arcsec (± 18''; ± 0.018 mm @ 200 mm radius)

LOAD DATA

$M_{2T\ dyn}$	Tilting moment:	176 Nm
$F_{2A\ dyn}$	Max. axial force while in motion:	3600 N
$F_{2R\ dyn}$	Max. radial force while in motion:	4572 N

Valid as single loads. Combination has to be double checked.

* Max. rotating plate dimension only serves as guideline. Torque demand and required service life should be considered when selecting an indexer model

** Can be lower depending on number of stops and indexing type.

Customisation on Input – available on request
Mounting of gear motor, sensor, sensor bracket, timing cam, overload clutch.

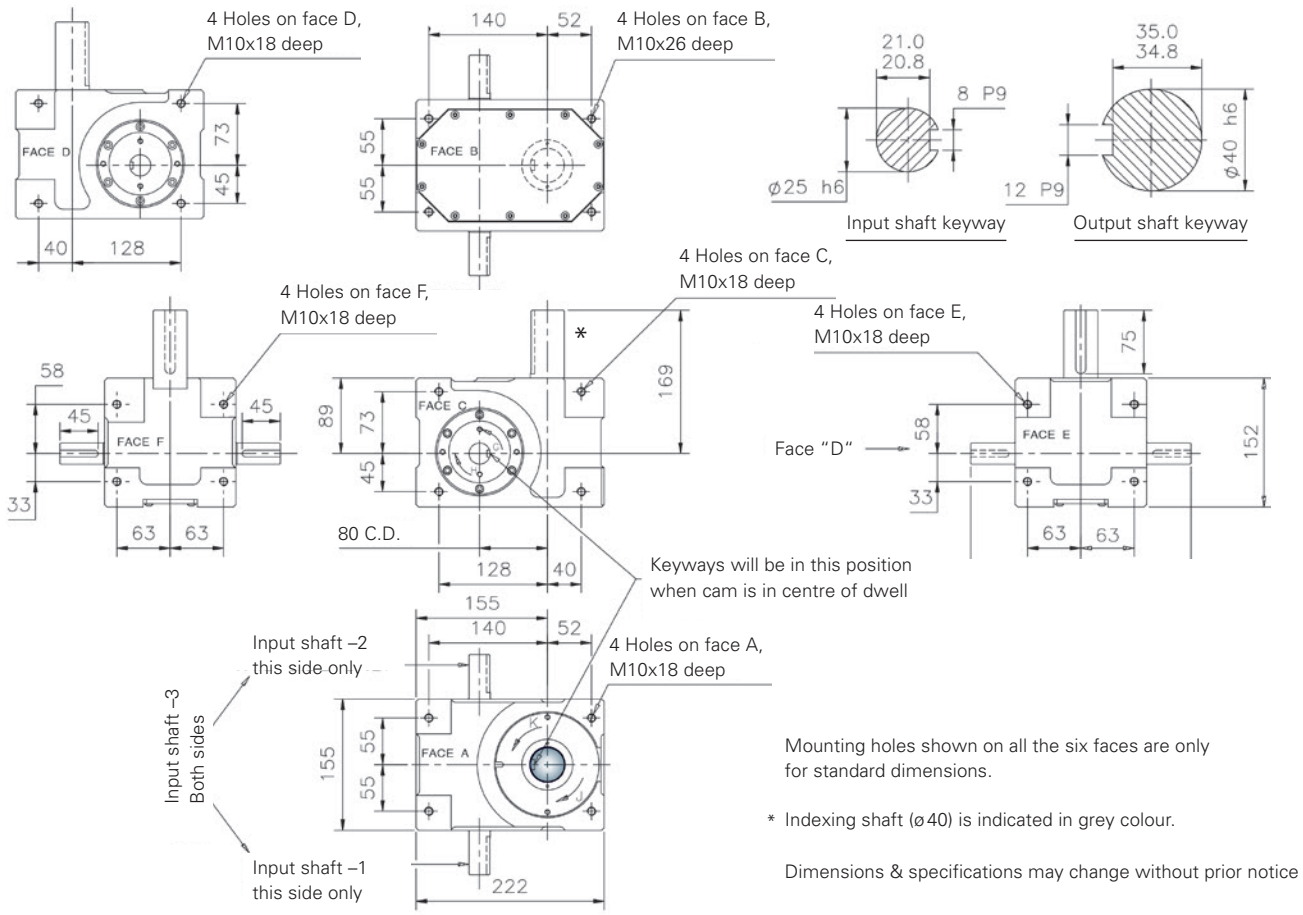
Number of Stops	Index Period (deg)	Mechanism Code	B10[1]	TL[2]	Internal Inertia[3]
1	330°	**GS80-1H16-330/CD.1**	**80**	**66**	**0.0015**
2	150°	GS80-2H13-150/CD.1	69	36	0.0014
	180°	**GS80-2H16-180/CD.1**	**114**	**67**	**0.0015**
	210°	GS80-2H19-210/CD.1	157	171	0.0016
	240°	**GS80-2G19-240/CD.1**	**146**	**173**	**0.0016**
	270°	GS80-2A19-270/CD.1	124	171	0.0016
	300°	**GS80-2A19-300/CD.1**	**124**	**174**	**0.0016**
	330°	GS80-2A19-330/CD.1	123	176	0.0016
3	120°	**GS80-3G16-120/CD.1**	**125**	**65**	**0.0015**
	150°	GS80-3A16-150/CD.1	114	66	0.0015
	180°	**GS80-3A19-180/CD.1**	**153**	**170**	**0.0016**
	210°	GS80-3A19-210/CD.1	158	174	0.0016
	240°	**GS80-3A19-240/CD.1**	**153**	**177**	**0.0016**
	270°	GS80-3A19-270/CD.1	150	178	0.0016
	300°	**GS80-3A19-300/CD.1**	**149**	**179**	**0.0016**
	330°	GS80-3A19-330/CD.1	146	179	0.0016
4	90°	**GS80-4G13-90/CD.1**	**88**	**36**	**0.0014**
	120°	GS80-4H16-120/CD.1	151	70	0.0015
	150°	**GS80-4E16-150/CD.1**	**136**	**70**	**0.0015**
	180°	GS80-4G19-180/CD.1	193	178	0.0017
	210°	**GS80-4E19-210/CD.1**	**181**	**179**	**0.0017**
	240°	GS80-4A19-240/CD.1	170	179	0.0017
	270°	**GS80-4A19-270/CD.1**	**167**	**180**	**0.0017**
	300°	GS80-4A19-300/CD.1	163	180	0.0017
	330°	**GS80-4A19-330/CD.1**	**160**	**180**	**0.0017**
5	90°	GS80-5A25-120/CD.1	249	240	0.0018
	150°	**GS80-5A25-150/CD.1**	**243**	**300**	**0.0018**
	180°	GS80-5A25-180/CD.1	235	360	0.0018
	210°	**GS80-5A25-210/CD.1**	**228**	**373**	**0.0018**
	240°	GS80-5A25-240/CD.1	220	375	0.0018
	270°	**GS80-5A25-270/CD.1**	**214**	**375**	**0.0018**
	300°	GS80-5A25-300/CD.1	213	383	0.0018
	330°	**GS80-5A25-330/CD.1**	**208**	**383**	**0.0018**
6	90°	GS80-6A19-90/CD.1	188	169	0.0016
	120°	**GS80-6A25-120/CD.1**	**274**	**288**	**0.0019**
	150°	GS80-6A25-150/CD.1	265	360	0.0019
	180°	**GS80-6A25-180/CD.1**	**255**	**373**	**0.0019**
	210°	GS80-6A25-210/CD.1	246	375	0.0019
	240°	**GS80-6A25-240/CD.1**	**238**	**375**	**0.0019**
	270°	GS80-6A25-270/CD.1	231	376	0.0019
	300°	**GS80-6A25-300/CD.1**	**225**	**376**	**0.0019**
	330°	GS80-6A25-330/CD.1	219	376	0.0019
8	90°	**GS80-8G19-90/CD.1**	**230**	**178**	**0.0017**

Number of Stops	Index Period (deg)	Mechanism Code	B10[1]	TL[2]	Internal Inertia[3]
8	120°	GS80-8A19-120/CD.1	201	179	0.0017
	150°	**GS80-8A19-150/CD.1**	**194**	**180**	**0.0017**
	180°	GS80-8A19-180/CD.1	189	181	0.0017
	210°	**GS80-8A19-210/CD.1**	**185**	**181**	**0.0017**
	240°	GS80-8A19-240/CD.1	180	181	0.0017
	270°	**GS80-8A19-270/CD.1**	**174**	**181**	**0.0017**
	300°	GS80-8A19-300/CD.1	169	181	0.0017
	330°	**GS80-8A19-330/CD.1**	**165**	**181**	**0.0017**
10	90°	GS80-10A13-90/CD.1	100	41	0.0014
	120°	**GS80-10A16-120/CD.1**	**145**	**72**	**0.0016**
	150°	GS80-10A16-150/CD.1	140	73	0.0016
	180°	**GS80-10A16-180/CD.1**	**137**	**73**	**0.0016**
	210°	GS80-10A16-210/CD.1	135	73	0.0016
	270°	**GS80-10A16-270/CD.1**	**133**	**73**	**0.0016**
	300°	GS80-10A16-300/CD.1	128	72	0.0016
12	90°	**GS80-12A13-90/CD.1**	**101**	**41**	**0.0015**
	120°	GS80-12A16-120/DD.2	191	70	0.0015
	150°	**GS80-12A19-150/DD.2**	**263**	**177**	**0.0016**
	180°	GS80-12A25-180/DD.2	394	371	0.0019
	210°	**GS80-12A25-210/DD.2**	**381**	**373**	**0.0019**
	240°	GS80-12A25-240/DD.2	370	374	0.0019
	270°	**GS80-12A25-270/DD.2**	**359**	**375**	**0.0019**
	300°	GS80-12A25-300/DD.2	357	382	0.0019
	330°	**GS80-12A25-330/DD.2**	**349**	**383**	**0.0019**
16	90°	GS80-16A13-90/DD.2	135	40	0.0014
	120°	**GS80-16A19-120/DD.2**	**284**	**178**	**0.0017**
	150°	GS80-16A19-150/DD.2	268	180	0.0017
	180°	**GS80-16A19-180/DD.2**	**254**	**180**	**0.0017**
	210°	GS80-16A19-210/DD.2	227	181	0.0017
	240°	**GS80-16A19-240/DD.2**	**237**	**181**	**0.0017**
	270°	GS80-16A19-270/DD.2	233	181	0.0017
	300°	**GS80-16A19-300/DD.2**	**261**	**181**	**0.0017**
	330°	GS80-16A19-330/DD.2	254	181	0.0017
20	180°	**GS80-20A16-180/DD.2**	**176**	**72**	**0.0017**
	240°	GS80-20A16-240/DD.2	171	73	0.0016
	270°	**GS80-20A16-270/DD.2**	**168**	**73**	**0.0016**
	300°	GS80-20A16-300/DD.2	196	72	0.0016
	330°	**GS80-20A16-330/DD.2**	**191**	**72**	**0.0016**

[1] B10 Rating at 50 Ind./min. (Nm); [2] Torque Limit (Nm); [3] Internal Inertia (kgm^2)

Some indexers have a double indexing cam (type 2 cam) i.e. for one cam revolution, two indexing are carried out on the output. We also supply indexers with other number of stops & index angles. Kindly contact WEISS sales representative for more information.

DIMENSIONS



Mounting holes shown on all the six faces are only for standard dimensions.

* Indexing shaft (ø40) is indicated in grey colour.

Dimensions & specifications may change without prior notice

GS 95

TECHNICAL DATA

Centre distance:	95 mm
Maximum recommended equipment diameter D_{tp}: *	550 mm
Number of stations:	1, 2, 3, 4, 5, 6, 8, 10, 12, 16, 20, 24 other stations available on request
Direction of rotation:	clockwise, counterclockwise, reversing
Mounting position:	horizontal, vertical, upside down
Indexing precision: **	60 arcsec (± 30''; ± 0.03 mm @200 mm radius)
Repeat accuracy: **	30 arcsec (± 15''; ± 0.015 mm @200 mm radius)

LOAD DATA (for the output flange)

$M_{2T\ dyn}$	Tilting moment:	270 Nm
$F_{2A\ dyn}$	Max. axial force while in motion:	3800 N
$F_{2R\ dyn}$	Max. radial force while in motion:	4750 N

Valid as single loads. Combination has to be double checked.

* Max. rotating plate dimension only serves as guideline. Torque demand and required service life should be considered when selecting an indexer model.

** Can be lower depending on number of stops and indexing type.

Optional version – available on request
Shaft output

Customisation on Input – available on request
Mounting of gear motor, sensor, sensor bracket, timing cam, overload clutch.

Number of Stops	Index Period (deg)	Mechanism Code	B10[1]	TL[2]	Internal Inertia[3]
2	270°	**GS95-2A19-270/CD.1**	**144**	**212**	**0.0088**
	300°	GS95-2A19-270/CD.1	145	215	0.0088
	330°	**GS95-2A19-270/CD.1**	**146**	**217**	**0.0088**
3	150°	GS95-3E16-150/CD.1	144	83	0.0086
	180°	**GS95-3A19-180/CD.1**	**187**	**210**	**0.0088**
	210°	GS95-3A19-210/CD.1	187	215	0.0088
	240°	**GS95-3A25-240/CD.1**	**268**	**263**	**0.0094**
	270°	GS95-3A25-270/CD.1	267	295	0.0094
	300°	**GS95-3A25-300/CD.1**	**263**	**328**	**0.0094**
	330°	GS95-3A25-330/CD.1	258	362	0.0094
4	120°	**GS95-4G16-120/CD.1**	**179**	**84**	**0.0087**
	150°	GS95-4A16-150/CD.1	154	85	0.0087
	180°	**GS95-4A19-180/CD.1**	**217**	**217**	**0.0089**
	210°	GS95-4A19-210/CD.1	214	220	0.0089
	240°	**GS95-4A19-240/CD.1**	**209**	**222**	**0.0089**
	270°	GS95-4A19-270/CD.1	205	223	0.0089
	300°	**GS95-4A19-300/CD.1**	**200**	**223**	**0.0089**
	330°	GS95-4A19-330/CD.1	196	224	0.0089
5	120°	**GS95-5A25-120/CD.1**	**295**	**219**	**0.0092**
	150°	GS95-5A25-150/CD.1	291	273	0.0092
	180°	**GS95-5A25-180/CD.1**	**283**	**328**	**0.0092**
	210°	GS95-5A25-210/CD.1	273	384	0.0092
	240°	**GS95-5A25-240/CD.1**	**265**	**470**	**0.0092**
	270°	GS95-5A25-270/CD.1	259	471	0.0092
	300°	**GS95-5A25-300/CD.1**	**252**	**472**	**0.0092**
	330°	GS95-5A25-330/CD.1	246	472	0.0092
6	90°	**GS95-6A19-90/CD.1**	**222**	**209**	**0.0088**
	120°	GS95-6A25-120/CD.1	325	263	0.0094
	150°	**GS95-6A25-150/CD.1**	**317**	**326**	**0.0094**
	180°	GS95-6A25-180/CD.1	306	395	0.0094
	210°	**GS95-6A25-210/CD.1**	**296**	**470**	**0.0094**
	240°	GS95-6A25-240/CD.1	288	471	0.0094
	270°	**GS95-6A25-270/CD.1**	**279**	**472**	**0.0094**
	300°	GS95-6A25-300/CD.1	272	472	0.0094
	330°	**GS95-6A25-330/CD.1**	**265**	**473**	**0.0094**
8	90°	GS95-8A19-90/CD.1	259	216	0.0089
	120°	**GS95-8A19-120/CD.1**	**251**	**221**	**0.0089**
	150°	GS95-8A19-150/CD.1	241	223	0.0089
	180°	**GS95-8A19-180/CD.1**	**231**	**224**	**0.0089**

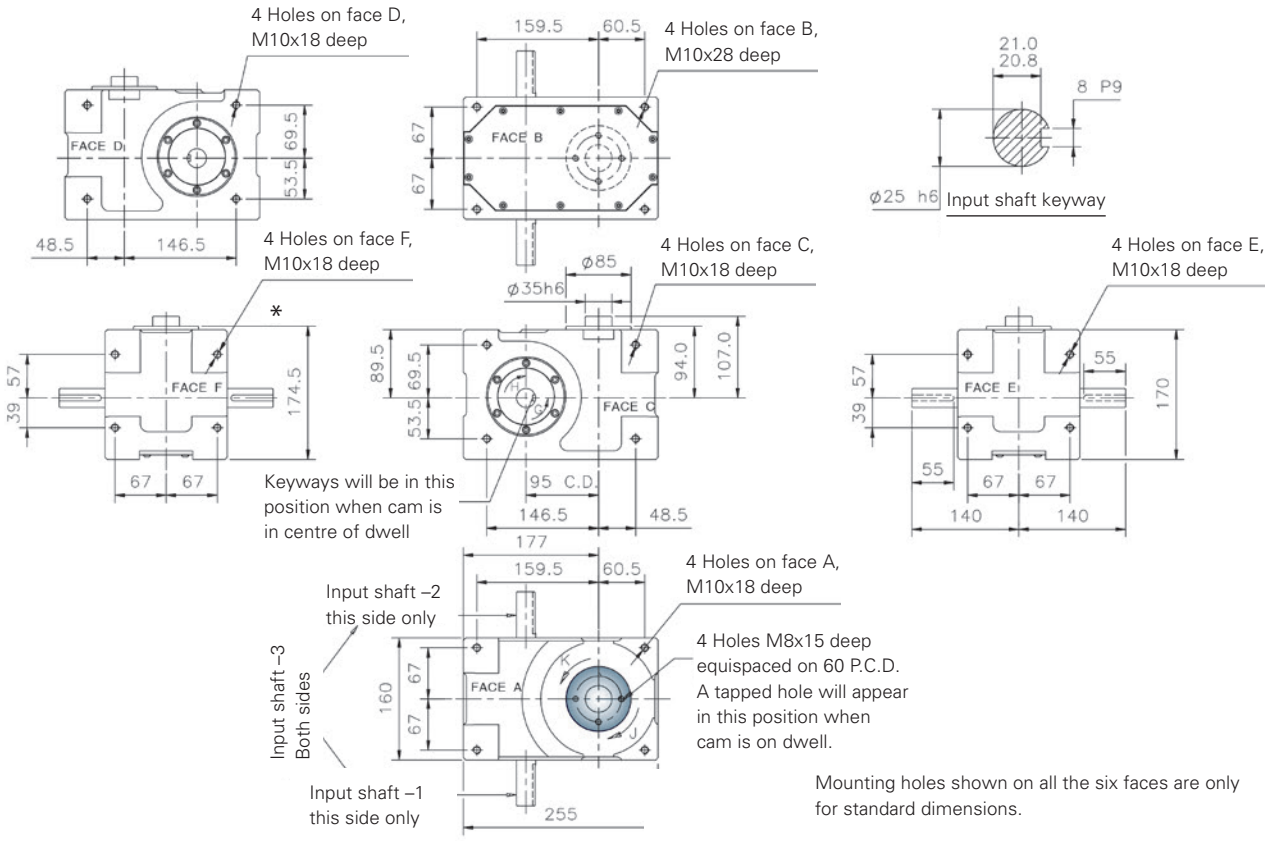
Number of Stops	Index Period (deg)	Mechanism Code	B10[1]	TL[2]	Internal Inertia[3]
8	210°	GS95-8A19-210/CD.1	223	225	0.0089
	240°	**GS95-8A19-240/CD.1**	**215**	**225**	**0.0089**
	270°	GS95-8A19-270/CD.1	208	225	0.0089
	300°	**GS95-8A19-300/CD.1**	**202**	**225**	**0.0089**
	330°	GS95-8A19-330/CD.1	197	225	0.0089
10	90°	**GS95-10A16-90/CD.1**	**189**	**88**	**0.0088**
	120°	GS95-10A16-120/CD.1	179	89	0.0088
	150°	**GS95-10A16-150/CD.1**	**173**	**89**	**0.0088**
	180°	GS95-10A16-180/CD.1	170	90	0.0088
	210°	**GS95-10A19-210/CD.1**	**233**	**225**	**0.0091**
	240°	GS95-10A19-240/CD.1	231	225	0.0091
	270°	**GS95-10A19-270/CD.1**	**226**	**225**	**0.0091**
	300°	GS95-10A19-300/CD.1	219	225	0.0091
	330°	**GS95-10A19-330/CD.1**	**213**	**225**	**0.0091**
12	90°	GS95-12A16-90/CD.1	190	88	0.0088
	120°	**GS95-12A16-120/CD.1**	**179**	**89**	**0.0088**
	150°	GS95-12A16-150/CD.1	173	89	0.0088
	180°	**GS95-12A16-180/CD.1**	**170**	**89**	**0.0088**
	210°	GS95-12A16-210/CD.1	167	90	0.0088
	240°	**GS95-12A16-240/CD.1**	**166**	**90**	**0.0088**
	270°	GS95-12A16-270/CD.1	165	90	0.0088
	300°	**GS95-12A16-300/CD.1**	**163**	**90**	**0.0088**
	330°	GS95-12A16-330/CD.1	158	90	0.0088
16	90°	**GS95-16A16-90/DD.2**	**259**	**85**	**0.0087**
	120°	GS95-16A19-120/DD.2	357	220	0.0089
	150°	**GS95-16A19-150/DD.2**	**333**	**223**	**0.0089**
	180°	GS95-16A19-180/DD.2	316	224	0.0089
	210°	**GS95-16A19-210/DD.2**	**304**	**224**	**0.0089**
	240°	GS95-16A19-240/DD.2	296	225	0.0089
	270°	**GS95-16A19-270/DD.2**	**291**	**225**	**0.0089**
	300°	GS95-16A19-300/DD.2	287	225	0.0089
	330°	**GS95-16A19-330/DD.2**	**284**	**225**	**0.0089**
20	90°	GS95-20A16-90/DD.2	269	88	0.0088
	120°	**GS95-20A16-120/DD.2**	**247**	**89**	**0.0088**
	150°	GS95-20A16-150/DD.2	231	89	0.0088
	180°	**GS95-20A16-180/DD.2**	**221**	**89**	**0.0088**
	210°	GS95-20A19-210/DD.2	303	225	0.0091
	240°	**GS95-20A19-240/DD.2**	**296**	**225**	**0.0091**
	270°	GS95-20A19-270/DD.2	292	225	0.0091

Number of Stops	Index Period (deg)	Mechanism Code	B10[1]	TL[2]	Internal Inertia[3]
20	**300°**	**GS95-20A19-300/DD.2**	**288**	**225**	**0.0091**
	330°	GS95-20A19-330/DD.2	286	225	0.0091
24	**90°**	**GS95-24G16-90/DD.2**	**293**	**89**	**0.0088**
	120°	GS95-24G16-120/DD.2	254	89	0.0088
	150°	**GS95-24A16-150/DD.2**	**228**	**89**	**0.0088**
	180°	GS95-24A16-180/DD.2	220	90	0.0088
	210°	**GS95-24A16-210/DD.2**	**214**	**90**	**0.0088**
	240°	GS95-24A16-240/DD.2	211	90	0.0088
	270°	**GS95-24A16-270/DD.2**	**209**	**90**	**0.0088**
	300°	GS95-24A16-300/DD.2	207	90	0.0088
	330°	**GS95-24A16-330/DD.2**	**206**	**90**	**0.0088**

[1] B10 Rating at 50 Ind./min. (Nm); [2] Torque Limit (Nm); [3] Internal Inertia (kgm^2)

Some indexers have a double indexing cam (type 2 cam) i.e. for one cam revolution, two indexing are carried out on the output.
We also supply indexers with other number of stops & index angles. Kindly contact WEISS sales representative for more information.

DIMENSIONS



Mounting holes shown on all the six faces are only for standard dimensions.

* Indexing plate mounting face, indexing flange (ø85) is indicated in grey colour.

Dimensions & specifications may change without prior notice.

GS 110

TECHNICAL DATA

Centre distance:	108 mm
Maximum recommended equipment diameter D_{tp}: *	575 mm
Number of stations:	1, 2, 3, 4, 5, 6, 8, 10, 12, 16, 20, 24 other stations available on request
Direction of rotation:	clockwise, counterclockwise, reversing
Mounting position:	horizontal, vertical, upside down
Indexing precision: **	60 arcsec (± 30''; ± 0.03 mm @200 mm radius)
Repeat accuracy: **	30 arcsec (± 15''; ± 0.015 mm @200 mm radius)

LOAD DATA (for the output flange)

$M_{2T\ dyn}$	Tilting moment:	385 Nm
$F_{2A\ dyn}$	Max. axial force while in motion:	5200 N
$F_{2R\ dyn}$	Max. radial force while in motion:	6500 N

Valid as single loads. Combination has to be double checked.

* Max. rotating plate dimension only serves as guideline. Torque demand and required service life should be considered when selecting an indexer model.

** Can be lower depending on number of stops and indexing type.

Optional version – available on request
Shaft output
Hollow output with through hole Ø 20 mm

Customisation on Input – available on request
Mounting of gear motor, sensor, sensor bracket, timing cam, overload clutch.

Number of Stops	Index Period (deg)	Mechanism Code	B10[1]	TL[2]	Internal Inertia[3]
1	240°	**GS110-1J19-240/CD.1**	**153**	**198**	**0.0088**
	270°	GS110-1H19-270/CD.1	133	204	0.0088
	330°	**GS110-1H19-330/CD.1**	**136**	**216**	**0.0088**
2	120°	GS110-2H16-120/CD.1	138	76	0.0087
	150°	**GS110-2H19-150/CD.1**	**191**	**207**	**0.0088**
	180°	GS110-2H19-180/CD.1	192	218	0.0088
	210°	**GS110-2G25-210/CD.1**	**259**	**457**	**0.0095**
	240°	GS110-2G25-240/CD.1	257	467	0.0095
	270°	**GS110-2A25-270/CD.1**	**219**	**463**	**0.0095**
	300°	GS110-2A25-300/CD.1	218	470	0.0095
	330°	**GS110-2A25-330/CD.1**	**217**	**474**	**0.0095**
3	120°	GS110-3E19-120/CD.1	211	208	0.0088
	150°	**GS110-3A19-150/CD.1**	**195**	**215**	**0.0088**
	180°	GS110-3A25-180/CD.1	281	460	0.0095
	210°	**GS110-3A25-210/CD.1**	**274**	**471**	**0.0095**
	240°	GS110-3A32-240/CD.1	452	755	0.0105
	270°	**GS110-3A32-270/CD.1**	**444**	**761**	**0.0105**
	300°	GS110-3A32-300/CD.1	443	777	0.0105
	330°	**GS110-3A32-330/CD.1**	**347**	**775**	**0.0105**
4	90°	GS110-4E16-90/CD.1	165	82	0.0087
	120°	**GS110-4E19-120/CD.1**	**235**	**221**	**0.0090**
	150°	GS110-4A19-150/CD.1	221	224	0.0090
	180°	**GS110-4A25-180/CD.1**	**311**	**474**	**0.0098**
	210°	GS110-4A25-210/CD.1	304	479	0.0098
	240°	**GS110-4A25-240/CD.1**	**298**	**482**	**0.0098**
	270°	GS110-4A25-270/CD.1	292	484	0.0098
	300°	**GS110-4A25-300/CD.1**	**286**	**486**	**0.0098**
	330°	GS110-4A25-330/CD.1	280	486	0.0098
5	120°	**GS110-5A32-120/CD.1**	**503**	**743**	**0.0101**
	150°	GS110-5A32-150/CD.1	490	759	0.0101
	180°	**GS110-5A32-180/CD.1**	**472**	**766**	**0.0101**
	210°	GS110-5A32-210/CD.1	457	770	0.0101
	240°	**GS110-5A32-240/CD.1**	**443**	**772**	**0.0101**
	270°	GS110-5A32-270/CD.1	430	773	0.0101
	300°	**GS110-5A32-300/CD.1**	**426**	**786**	**0.0101**
	330°	GS110-5A32-330/CD.1	416	787	0.0101
6	90°	**GS110-6A25-90/CD.1**	**337**	**457**	**0.0095**
	120°	GS110-6A32-120/CD.1	560	763	0.0106
	150°	**GS110-6A32-150/CD.1**	**532**	**765**	**0.0105**

Number of Stops	Index Period (deg)	Mechanism Code	B10[1]	TL[2]	Internal Inertia[3]
6	180°	GS110-6A32-180/CD.1	513	769	0.0105
	210°	**GS110-6A32-210/CD.1**	**495**	**772**	**0.0105**
	240°	GS110-6A32-240/CD.1	478	773	0.0105
	270°	**GS110-6A32-270/CD.1**	**464**	**774**	**0.0105**
	300°	GS110-6A32-300/CD.1	460	787	0.0105
	330°	**GS110-6A32-330/CD.1**	**439**	**775**	**0.0105**
8	90°	GS110-8A25-90/CD.1	389	473	0.0098
	120°	**GS110-8A25-120/CD.1**	**372**	**482**	**0.0098**
	150°	GS110-8A25-150/CD.1	355	485	0.0098
	180°	**GS110-8A25-180/CD.1**	**339**	**487**	**0.0098**
	210°	GS110-8A25-210/CD.1	326	487	0.0098
	240°	**GS110-8A25-240/CD.1**	**315**	**488**	**0.0098**
	270°	GS110-8A25-270/CD.1	305	488	0.0098
	300°	**GS110-8A25-300/CD.1**	**297**	**490**	**0.0098**
	330°	GS110-8A25-330/CD.1	288	489	0.0098
10	90°	**GS110-10A19-90/CD.1**	**271**	**232**	**0.0091**
	120°	GS110-10A19-120/CD.1	259	234	0.0091
	150°	**GS110-10A19-150/CD.1**	**251**	**235**	**0.0091**
	180°	GS110-10A19-180/CD.1	246	235	0.0091
	210°	**GS110-10A19-210/CD.1**	**239**	**235**	**0.0091**
	240°	GS110-10A19-240/CD.1	230	236	0.0091
	270°	**GS110-10A19-270/CD.1**	**223**	**236**	**0.0091**
	300°	GS110-10A19-300/CD.1	214	234	0.0091
	330°	**GS110-10A19-330/CD.1**	**210**	**236**	**0.0091**
12	90°	GS110-12E19-90/CD.1	279	234	0.0093
	120°	**GS110-12A19-120/CD.1**	**258**	**235**	**0.0093**
	150°	GS110-12A19-150/CD.1	251	235	0.0093
	180°	**GS110-12A19-180/CD.1**	**247**	**235**	**0.0093**
	210°	GS110-12A19-210/CD.1	244	236	0.0093
	240°	**GS110-12A19-240/CD.1**	**242**	**236**	**0.0093**
	270°	GS110-12A19-270/CD.1	237	236	0.0093
	300°	**GS110-12A19-300/CD.1**	**227**	**233**	**0.0093**
	330°	GS110-12A19-330/CD.1	223	236	0.0093
16	90°	**GS110-16A19-90/DD.2**	**368**	**227**	**0.0090**
	120°	GS110-16A25-120/DD.2	568	480	0.0098
	150°	**GS110-16A25-150/DD.2**	**544**	**484**	**0.0098**
	180°	GS110-16A25-180/DD.2	521	486	0.0098
	210°	**GS110-16A25-210/DD.2**	**484**	**488**	**0.0098**
	240°	GS110-16A25-240/DD.2	484	488	0.0098

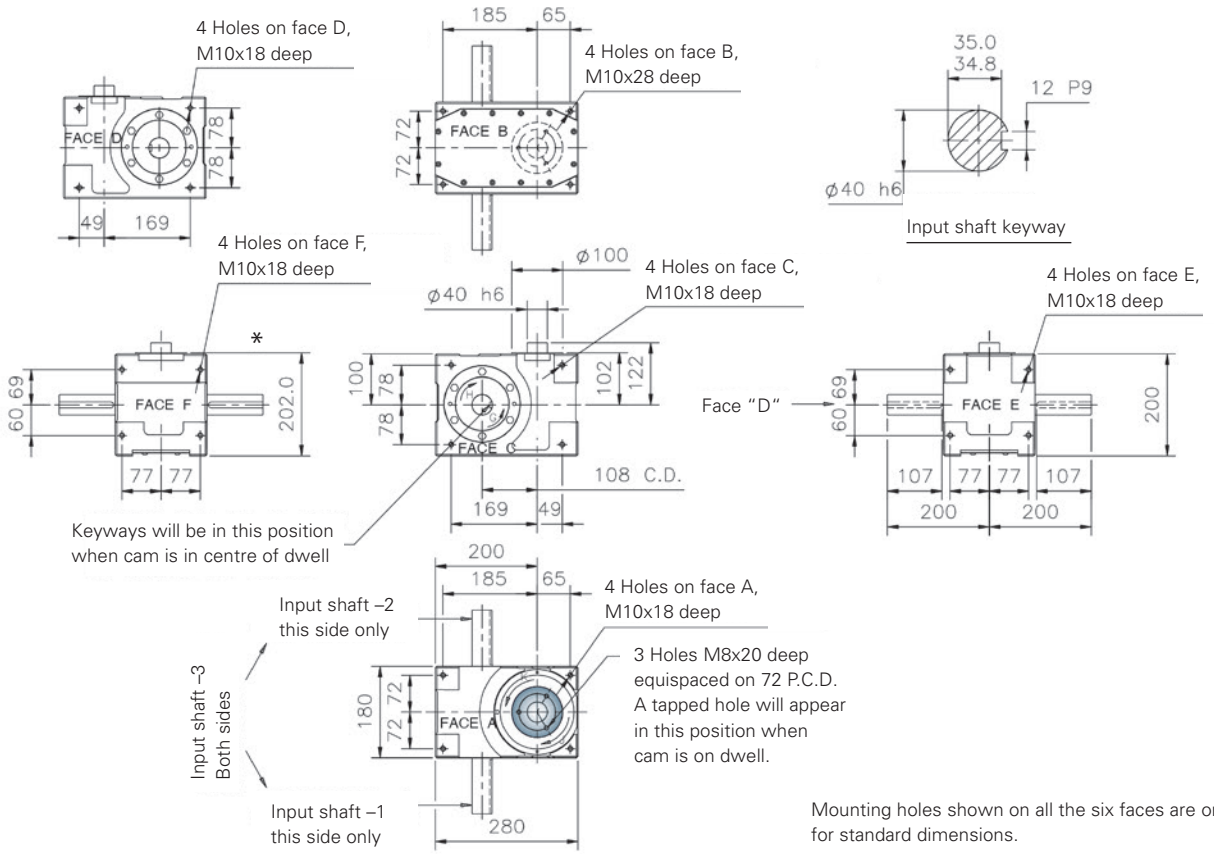
Number of Stops	Index Period (deg)	Mechanism Code	B10[1]	TL[2]	Internal Inertia[3]
16	270°	**GS110-16A25-270/DD.2**	**469**	**488**	**0.0098**
	300°	GS110-16A25-300/DD.2	457	490	0.0098
	330°	**GS110-16A25-330/DD.2**	**445**	**490**	**0.0098**
20	90°	GS110-20A19-90/DD.2	381	231	0.0091
	120°	**GS110-20A19-120/DD.2**	**352**	**234**	**0.0091**
	150°	GS110-20A19-150/DD.2	307	235	0.0091
	180°	**GS110-20A19-180/DD.2**	**319**	**235**	**0.0091**
	210°	GS110-20A19-210/DD.2	311	235	0.0090
	240°	**GS110-20A19-240/DD.2**	**306**	**236**	**0.0091**
	270°	GS110-20A19-270/DD.2	302	236	0.0091
	300°	**GS110-20A19-300/DD.2**	**327**	**234**	**0.0091**
	330°	GS110-20A19-330/DD.2	319	234	0.0091

Number of Stops	Index Period (deg)	Mechanism Code	B10[1]	TL[2]	Internal Inertia[3]
24	90°	**GS110-24A16-90/DD.2**	**266**	**94**	**0.0089**
	120°	GS110-24A16-120/DD.2	245	94	0.0089
	150°	**GS110-24A19-150/DD.2**	**328**	**235**	**0.0093**
	180°	GS110-24A19-180/DD.2	317	235	0.0093
	210°	**GS110-24A19-210/DD.2**	**310**	**236**	**0.0093**
	240°	GS110-24A19-240/DD.2	306	236	0.0093
	270°	**GS110-24A19-270/DD.2**	**303**	**236**	**0.0093**
	300°	GS110-24A19-300/DD.2	347	234	0.0093
	330°	**GS110-24A19-330/DD.2**	**338**	**234**	**0.0093**

[1] B10 Rating at 50 Ind./min. (Nm); [2] Torque Limit (Nm); [3] Internal Inertia (kgm²)

Some indexers have a double indexing cam (type 2 cam) i.e. for one cam revolution, two indexing are carried out on the output.
We also supply indexers with other number of stops & index angles. Kindly contact WEISS sales representative for more information.

DIMENSIONS



Mounting holes shown on all the six faces are only for standard dimensions.

* Indexing plate mounting face, indexing flange (ø100) is indicated in grey colour.

Dimensions & specifications may change without prior notice

GS 140

TECHNICAL DATA

Centre distance:	140 mm
Maximum recommended equipment diameter D_{tp}: *	675 mm
Number of stations:	1, 2, 3, 4, 5, 6, 8, 10, 12, 16, 20, 24 other stations available on request
Direction of rotation:	clockwise, counterclockwise, reversing
Mounting position:	horizontal, vertical, upside down
Indexing precision: **	56 arcsec (± 28''; ± 0.027 mm @200 mm radius)
Repeat accuracy: **	30 arcsec (± 15''; ± 0.015 mm @200 mm radius)

LOAD DATA (for the output flange)

$M_{2T\ dyn}$	Tilting moment:	825 Nm
$F_{2A\ dyn}$	Max. axial force while in motion:	7200 N
$F_{2R\ dyn}$	Max. radial force while in motion:	9432 N

Valid as single loads. Combination has to be double checked.

* Max. rotating plate dimension only serves as guideline. Torque demand and required service life should be considered when selecting an indexer model.

** Can be lower depending on number of stops and indexing type.

Optional version – available on request
Shaft output
Hollow output with through hole Ø 25 mm

Customisation on Input – available on request
Mounting of gear motor, sensor, sensor bracket, timing cam, overload clutch.

Number of Stops	Index Period (deg)	Mechanism Code	B10[1]	TL[2]	Internal Inertia[3]
1	240°	**GS140-1H25-240/CD.1**	**218**	**493**	**0.0181**
	270°	GS140-1H25-270/CD.1	221	512	0.0181
	300°	**GS140-1H25-300/CD.1**	**222**	**525**	**0.0181**
	330°	GS140-1H32-330/CD.1	366	811	0.0195
2	120°	**GS140-2H25-120/CD.1**	**305**	**485**	**0.0181**
	150°	GS140-2G25-150/CD.1	292	509	0.0181
	180°	**GS140-2G32-180/CD.1**	**480**	**803**	**0.0195**
	210°	GS140-2G32-210/CD.1	476	863	0.0195
	240°	**GS140-2A32-240/CD.1**	**411**	**854**	**0.0195**
	270°	GS140-2A32-270/CD.1	408	869	0.0195
	300°	**GS140-2A32-300/CD.1**	**403**	**877**	**0.0195**
	330°	GS140-2A32-330/CD.1	398	882	0.0195
3	90°	**GS140-3E19-90/CD.1**	**235**	**231**	**0.0173**
	120°	GS140-3A25-120/CD.1	314	505	0.0181
	150°	**GS140-3A32-150/CD.1**	**519**	**801**	**0.0195**
	180°	GS140-3A38-180/CD.1	717	961	0.0216
	210°	**GS140-3A38-210/CD.1**	**704**	**1121**	**0.0216**
	240°	GS140-3A38-240/CD.1	680	1196	0.0216
	270°	**GS140-3A38-270/CD.1**	**667**	**1202**	**0.0216**
	300°	GS140-3A38-300/CD.1	664	1223	0.0216
	330°	**GS140-3A38-330/CD.1**	**641**	**1209**	**0.0216**
4	90°	GS140-4A19-90/CD.1	255	240	0.0175
	120°	**GS140-4A25-120/CD.1**	**358**	**533**	**0.0186**
	150°	GS140-4A25-150/CD.1	345	550	0.0186
	180°	**GS140-4A32-180/CD.1**	**558**	**883**	**0.0204**
	210°	GS140-4A32-210/CD.1	544	889	0.0204
	240°	**GS140-4A32-240/CD.1**	**531**	**892**	**0.0204**
	270°	GS140-4A32-270/CD.1	519	895	0.0204
	300°	**GS140-4A32-300/CD.1**	**509**	**899**	**0.0204**
	330°	GS140-4A32-330/CD.1	497	897	0.0204
5	120°	**GS140-5A38-120/CD.1**	**781**	**1068**	**0.0208**
	150°	GS140-5A38-150/CD.1	749	1200	0.0208
	180°	**GS140-5A38-180/CD.1**	**722**	**1207**	**0.0208**
	210°	GS140-5A38-210/CD.1	696	1210	0.0208
	240°	**GS140-5A38-240/CD.1**	**673**	**1212**	**0.0208**
	270°	GS140-5A38-270/CD.1	652	1214	0.0208
	300°	**GS140-5A38-300/CD.1**	**644**	**1232**	**0.0208**
	330°	GS140-5A38-330/CD.1	628	1233	0.0208

Number of Stops	Index Period (deg)	Mechanism Code	B10[1]	TL[2]	Internal Inertia[3]
6	90°	**GS140-6A38-90/CD.1**	**882**	**961**	**0.0216**
	120°	GS140-6A38-120/CD.1	848	1195	0.0216
	150°	**GS140-6A38-150/CD.1**	**812**	**1205**	**0.0216**
	180°	GS140-6A38-180/CD.1	778	1210	0.0216
	210°	**GS140-6A38-210/CD.1**	**749**	**1212**	**0.0216**
	240°	GS140-6A38-240/CD.1	723	1214	0.0216
	270°	**GS140-6A38-270/CD.1**	**701**	**1215**	**0.0216**
	300°	GS140-6A38-300/CD.1	692	1233	0.0216
	330°	**GS140-6A38-330/CD.1**	**663**	**1216**	**0.0216**
8	90°	GS140-8A32-90/CD.1	711	882	0.0204
	120°	**GS140-8A32-120/CD.1**	**672**	**892**	**0.0204**
	150°	GS140-8A32-150/CD.1	638	896	0.0204
	180°	**GS140-8A32-180/CD.1**	**609**	**897**	**0.0204**
	210°	GS140-8A32-210/CD.1	584	898	0.0204
	240°	**GS140-8A32-240/CD.1**	**563**	**899**	**0.0204**
	270°	GS140-8A32-270/CD.1	545	900	0.0204
	300°	**GS140-8A32-300/CD.1**	**531**	**903**	**0.0204**
	330°	GS140-8A32-330/CD.1	515	900	0.0204
10	90°	**GS140-10A25-90/CD.1**	**461**	**561**	**0.0190**
	120°	GS140-10A25-120/CD.1	431	564	0.0190
	150°	**GS140-10A25-150/CD.1**	**407**	**565**	**0.0190**
	180°	GS140-10A25-180/CD.1	388	566	0.0190
	210°	**GS140-10A25-210/CD.1**	**371**	**566**	**0.0190**
	240°	GS140-10A25-240/CD.1	358	567	0.0190
	270°	**GS140-10A25-270/CD.1**	**346**	**567**	**0.0190**
	300°	GS140-10A25-300/CD.1	333	564	0.0190
	330°	**GS140-10A25-330/CD.1**	**326**	**567**	**0.0190**
12	90°	GS140-12A19-90/CD.1	304	272	0.0179
	120°	**GS140-12A19-120/CD.1**	**293**	**273**	**0.0179**
	150°	GS140-12A19-150/CD.1	288	273	0.0179
	180°	**GS140-12A19-180/CD.1**	**278**	**273**	**0.0179**
	210°	GS140-12A19-210/CD.1	266	273	0.0179
	240°	**GS140-12A19-240/CD.1**	**256**	**273**	**0.0179**
	270°	GS140-12A19-270/CD.1	248	273	0.0179
	300°	**GS140-12A19-300/CD.1**	**236**	**270**	**0.0179**
	330°	GS140-12A19-330/CD.1	234	274	0.0179
16	90°	**GS140-16A25-90/DD.2**	**639**	**554**	**0.0186**
	120°	GS140-16A32-120/DD.2	1029	891	0.0204

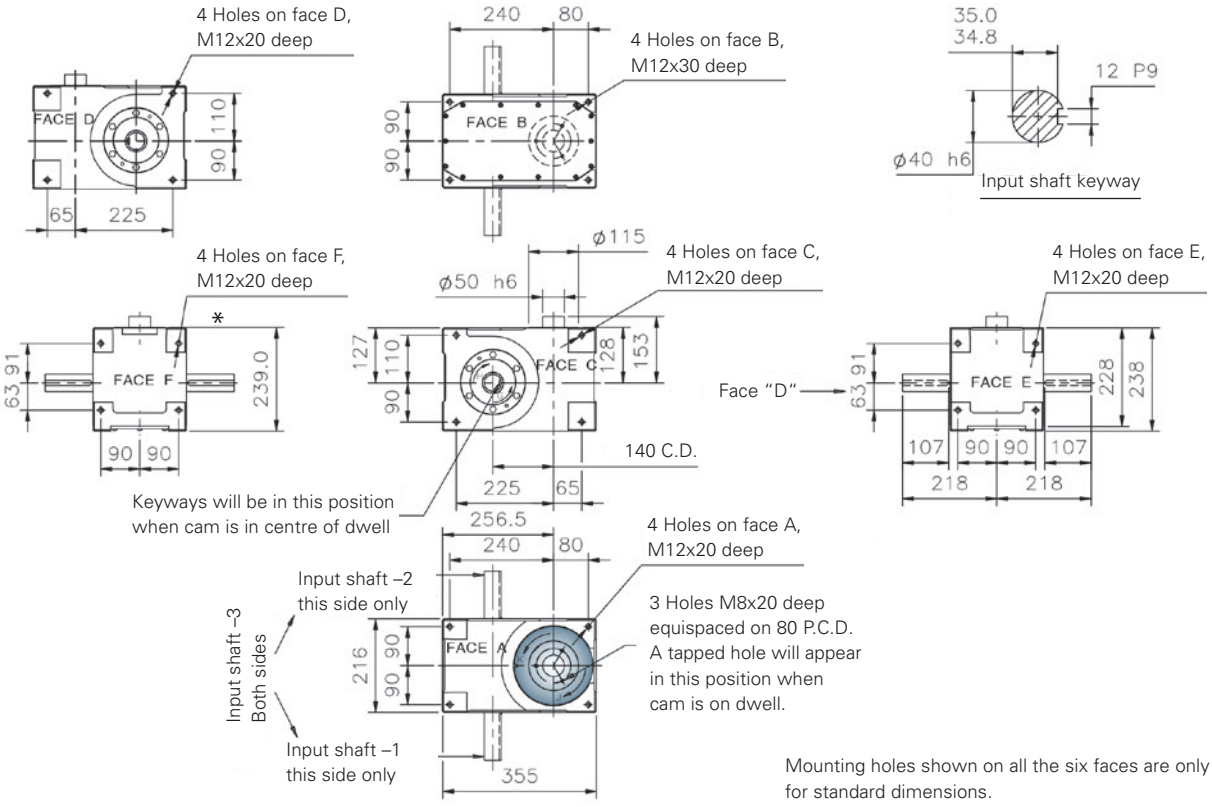
Number of Stops	Index Period (deg)	Mechanism Code	B10[1]	TL[2]	Internal Inertia[3]
16	150°	**GS140-16A32-150/DD.2**	**978**	**895**	**0.0204**
	180°	GS140-16A32-180/DD.2	935	897	0.0204
	210°	**GS140-16A32-210/DD.2**	**865**	**899**	**0.0204**
	240°	GS140-16A32-240/DD.2	865	899	0.0204
	270°	**GS140-16A32-270/DD.2**	**838**	**899**	**0.0204**
	300°	GS140-16A32-300/DD.2	817	903	0.0204
	330°	**GS140-16A32-330/DD.2**	**795**	**903**	**0.0204**
20	90°	GS140-20A25-90/DD.2	659	564	0.0190
	120°	**GS140-20A25-120/DD.2**	**594**	**565**	**0.0190**
	150°	GS140-20A25-150/DD.2	593	566	0.0190
	180°	**GS140-20A25-180/DD.2**	**568**	**566**	**0.0190**
	210°	GS140-20A25-210/DD.2	547	567	0.0190
	240°	**GS140-20A25-240/DD.2**	**529**	**567**	**0.0190**
	270°	GS140-20A25-270/DD.2	510	564	0.0190
	300°	**GS140-20A25-300/DD.2**	**496**	**564**	**0.0190**
	330°	GS140-20A25-330/DD.2	351	270	0.0190

Number of Stops	Index Period (deg)	Mechanism Code	B10[1]	TL[2]	Internal Inertia[3]
24	90°	GS140-24A19-90/DD.2	408	272	0.0179
	120°	**GS140-24A19-120/DD.2**	**381**	**273**	**0.0179**
	150°	GS140-24A19-150/DD.2	367	273	0.0179
	180°	**GS140-24A19-180/DD.2**	**360**	**273**	**0.0179**
	210°	GS140-24A19-210/DD.2	355	273	0.0179
	240°	**GS140-24A19-240/DD.2**	**352**	**273**	**0.0179**
	270°	GS140-24A19-270/DD.2	350	273	0.0179
	300°	**GS140-24A19-300/DD.2**	**361**	**270**	**0.0179**
	330°	GS140-24A19-330/DD.2	351	270	0.0179

[1] B10 Rating at 50 Ind./min. (Nm); [2] Torque Limit (Nm); [3] Internal Inertia (kgm^2)

Some indexers have a double indexing cam (type 2 cam) i.e. for one cam revolution, two indexing are carried out on the output. We also supply indexers with other number of stops & index angles. Kindly contact WEISS sales representative for more information.

DIMENSIONS



Mounting holes shown on all the six faces are only for standard dimensions.

* Indexing plate mounting face, indexing flange (ø115) is indicated in grey colour.

Dimensions & specifications may change without prior notice.

GS 150

TECHNICAL DATA

Centre distance:	152 mm
Maximum recommended equipment diameter D_{tp}: *	885 mm
Number of stations:	1, 2, 3, 4, 5, 6, 8, 10, 12, 16, 20, 24 other stations available on request
Direction of rotation:	clockwise, counterclockwise, reversing
Mounting position:	horizontal, vertical, upside down
Indexing precision: **	50 arcsec (± 25''; ± 0.024 mm @200 mm radius)
Repeat accuracy: **	24 arcsec (± 12''; ± 0.012 mm @200 mm radius)

LOAD DATA (for the output flange)

$M_{2T\ dyn}$	Tilting moment:	1485 Nm
$F_{2A\ dyn}$	Max. axial force while in motion:	7600 N
$F_{2R\ dyn}$	Max. radial force while in motion:	9880 N

Valid as single loads. Combination has to be double checked.

* Max. rotating plate dimension only serves as guideline. Torque demand and required service life should be considered when selecting an indexer model.

** Can be lower depending on number of stops and indexing type.

Optional version – available on request
Shaft output
Hollow output with through hole Ø 36 mm

Customisation on Input – available on request
Mounting of gear motor, sensor, sensor bracket, timing cam, overload clutch.

Number of Stops	Index Period (deg)	Mechanism Code	B10[1]	TL[2]	Internal Inertia[3]
1	330°	**GS150-1H32-330/CD.1**	**433**	**1006**	**0.0443**
2	180°	GS150-2H32-180/CD.1	624	1013	0.0443
	210°	**GS150-2G32-210/CD.1**	**585**	**1037**	**0.0443**
	240°	GS150-2A32-240/CD.1	485	1030	0.0443
	270°	**GS150-2A32-270/CD.1**	**489**	**1055**	**0.0443**
	300°	GS150-2A32-300/CD.1	488	1073	0.0443
	330°	**GS150-2A32-330/CD.1**	**486**	**1086**	**0.0443**
3	120°	GS150-3G32-120/CD.1	682	982	0.0443
	150°	**GS150-3A32-150/CD.1**	**617**	**999**	**0.0443**
	180°	GS150-3E38-180/CD.1	930	1439	0.0475
	210°	**GS150-3A38-210/CD.1**	**860**	**1447**	**0.0475**
	240°	GS150-3A45-240/CD.1	1105	1837	0.0522
	270°	**GS150-3A45-270/CD.1**	**1089**	**1857**	**0.0522**
	300°	GS150-3A45-300/CD.1	1080	1881	0.0522
	330°	**GS150-3A45-330/CD.1**	**1055**	**1879**	**0.0522**
4	90°	GS150-4G25-90/CD.1	468	606	0.0430
	120°	**GS150-4A25-120/CD.1**	**438**	**629**	**0.0430**
	150°	GS150-4E32-150/CD.1	750	1075	0.0458
	180°	**GS150-4E38-180/CD.1**	**1031**	**1479**	**0.0501**
	210°	GS150-4E38-210/CD.1	1013	1496	0.0501
	240°	**GS150-4A38-240/CD.1**	**951**	**1496**	**0.0501**
	270°	GS150-4A38-270/CD.1	933	1504	0.0501
	300°	**GS150-4A38-300/CD.1**	**913**	**1507**	**0.0501**
	330°	GS150-4A38-330/CD.1	896	1510	0.0501
5	120°	**GS150-5A50-120/CD.1**	**2016**	**1890**	**0.0577**
	150°	GS150-5A50-150/CD.1	1978	2362	0.0577
	180°	**GS150-5A50-180/CD.1**	**1925**	**2835**	**0.0577**
	210°	GS150-5A50-210/CD.1	1869	2881	0.0577
	240°	**GS150-5A50-240/CD.1**	**1818**	**2892**	**0.0577**
	270°	GS150-5A50-270/CD.1	1768	2900	0.0577
	300°	**GS150-5A50-300/CD.1**	**1755**	**2951**	**0.0577**
	330°	GS150-5A50-330/CD.1	1713	2955	0.0577
6	90°	**GS150-6E45-90/CD.1**	**1512**	**1784**	**0.0522**
	120°	GS150-6E50-120/CD.1	2443	2613	0.0613
	150°	**GS150-6A50-150/CD.1**	**2167**	**2835**	**0.0613**
	180°	GS150-6A50-180/CD.1	2098	2877	0.0613
	210°	**GS150-6A50-210/CD.1**	**2031**	**2891**	**0.0613**
	240°	GS150-6A50-240/CD.1	1969	2900	0.0613
	270°	**GS150-6A50-270/CD.1**	**1913**	**2905**	**0.0613**

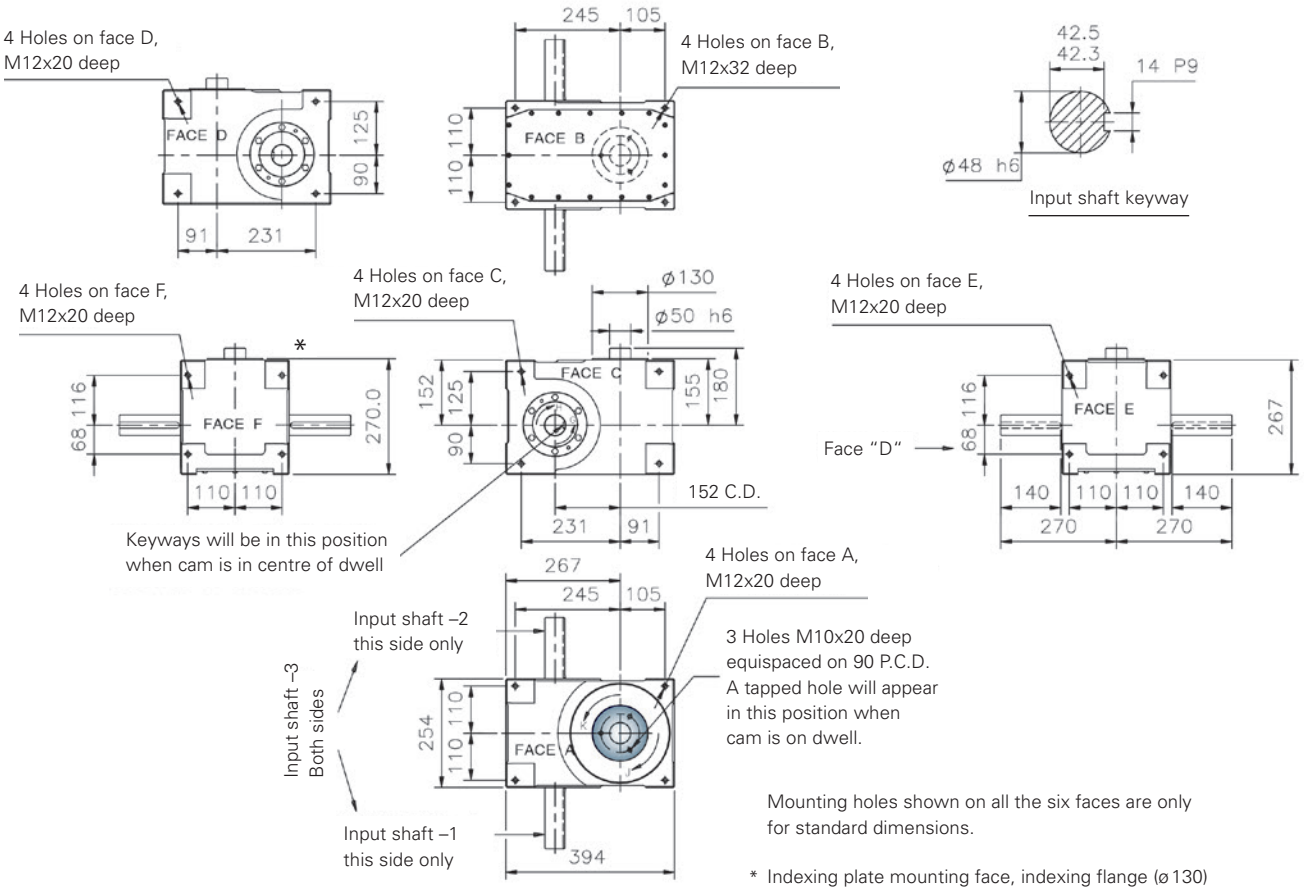
Number of Stops	Index Period (deg)	Mechanism Code	B10[1]	TL[2]	Internal Inertia[3]
6	300°	GS150-6A50-300/CD.1	1898	2955	0.0613
	330°	**GS150-6A50-330/CD.1**	**1815**	**2910**	**0.0613**
8	90°	GS150-8E38-90/CD.1	1347	1477	0.0501
	120°	**GS150-8A38-120/CD.1**	**1184**	**1494**	**0.0501**
	150°	GS150-8A38-150/CD.1	1134	1508	0.0501
	180°	**GS150-8A38-180/CD.1**	**1088**	**1515**	**0.0501**
	210°	GS150-8A38-210/CD.1	1047	1518	0.0501
	240°	**GS150-8A38-240/CD.1**	**1012**	**1520**	**0.0501**
	270°	GS150-8A38-270/CD.1	980	1521	0.0501
	300°	**GS150-8A38-300/CD.1**	**951**	**1520**	**0.0501**
	330°	GS150-8A38-330/CD.1	927	1523	0.0501
10	90°	**GS150-10A32-90/CD.1**	**963**	**1102**	**0.0472**
	120°	GS150-10A32-120/CD.1	914	1117	0.0472
	150°	**GS150-10A32-150/CD.1**	**869**	**1122**	**0.0472**
	180°	GS150-10A32-180/CD.1	830	1125	0.0472
	210°	**GS150-10A32-210/CD.1**	**797**	**1126**	**0.0472**
	240°	GS150-10A32-240/CD.1	769	1127	0.0472
	270°	**GS150-10A32-270/CD.1**	**744**	**1128**	**0.0472**
	300°	GS150-10A32-300/CD.1	714	1118	0.0472
	330°	**GS150-10A32-330/CD.1**	**703**	**1129**	**0.0472**
12	90°	GS150-12A25-90/CD.1	615	702	0.0445
	120°	**GS150-12A25-120/CD.1**	**578**	**708**	**0.0445**
	150°	GS150-12A25-150/CD.1	547	709	0.0445
	180°	**GS150-12A25-180/CD.1**	**521**	**710**	**0.0445**
	210°	GS150-12A25-210/CD.1	500	711	0.0445
	240°	**GS150-12A25-240/CD.1**	**482**	**711**	**0.0445**
	270°	GS150-12A25-270/CD.1	466	712	0.0445
	300°	**GS150-12A25-300/CD.1**	**443**	**701**	**0.0445**
	330°	GS150-12A25-330/CD.1	439	712	0.0445
16	90°	**GS150-16A25-90/DD.2**	**773**	**673**	**0.0430**
	120°	GS150-16A38-120/DD.2	1808	1485	0.0501
	150°	**GS150-16A38-150/DD.2**	**1739**	**1504**	**0.0501**
	180°	GS150-16A38-180/DD.2	1673	1512	0.0501
	210°	**GS150-16A38-210/DD.2**	**1559**	**1518**	**0.0501**
	240°	GS150-16A38-240/DD.2	1559	1518	0.0501
	270°	**GS150-16A38-270/DD.2**	**1511**	**1520**	**0.0501**
	300°	GS150-16A38-300/DD.2	1467	1519	0.0501
	330°	**GS150-16A38-330/DD.2**	**1429**	**1520**	**0.0501**
20	90°	GS150-20A25-90/DD.2	864	693	0.0437

Number of Stops	Index Period (deg)	Mechanism Code	B10[1]	TL[2]	Internal Inertia[3]
20	**120°**	**GS150-20A32-120/DD.2**	**1388**	**1115**	**0.0472**
	150°	GS150-20A32-150/DD.2	1186	1121	0.0472
	180°	**GS150-20A32-180/DD.2**	**1231**	**1124**	**0.0472**
	210°	GS150-20A32-210/DD.2	1190	1126	0.0470
	240°	**GS150-20A32-240/DD.2**	**1163**	**1127**	**0.0472**
	270°	GS150-20A32-270/DD.2	1141	1127	0.0472
	300°	**GS150-20A32-300/DD.2**	**1096**	**1118**	**0.0472**
	330°	GS150-20A32-330/DD.2	1066	1119	0.0472
24	**90°**	**GS150-24A25-90/DD.2**	**937**	**701**	**0.0445**
	120°	GS150-24A25-120/DD.2	871	707	0.0445
	150°	**GS150-24A25-150/DD.2**	**820**	**709**	**0.0445**
	180°	GS150-24A25-180/DD.2	791	710	0.0445
	210°	**GS150-24A25-210/DD.2**	**764**	**711**	**0.0445**
	240°	GS150-24A25-240/DD.2	736	711	0.0445
	270°	**GS150-24A25-270/DD.2**	**712**	**712**	**0.0445**
	300°	GS150-24A25-300/DD.2	678	701	0.0445
	330°	**GS150-24A25-330/DD.2**	**659**	**701**	**0.0445**

[1] B10 Rating at 50 Ind./min. (Nm); [2] Torque Limit (Nm); [3] Internal Inertia (kgm^2)

Some indexers have a double indexing cam (type 2 cam) i.e. for one cam revolution, two indexing are carried out on the output. We also supply indexers with other number of stops & index angles. Kindly contact WEISS sales representative for more information.

DIMENSIONS



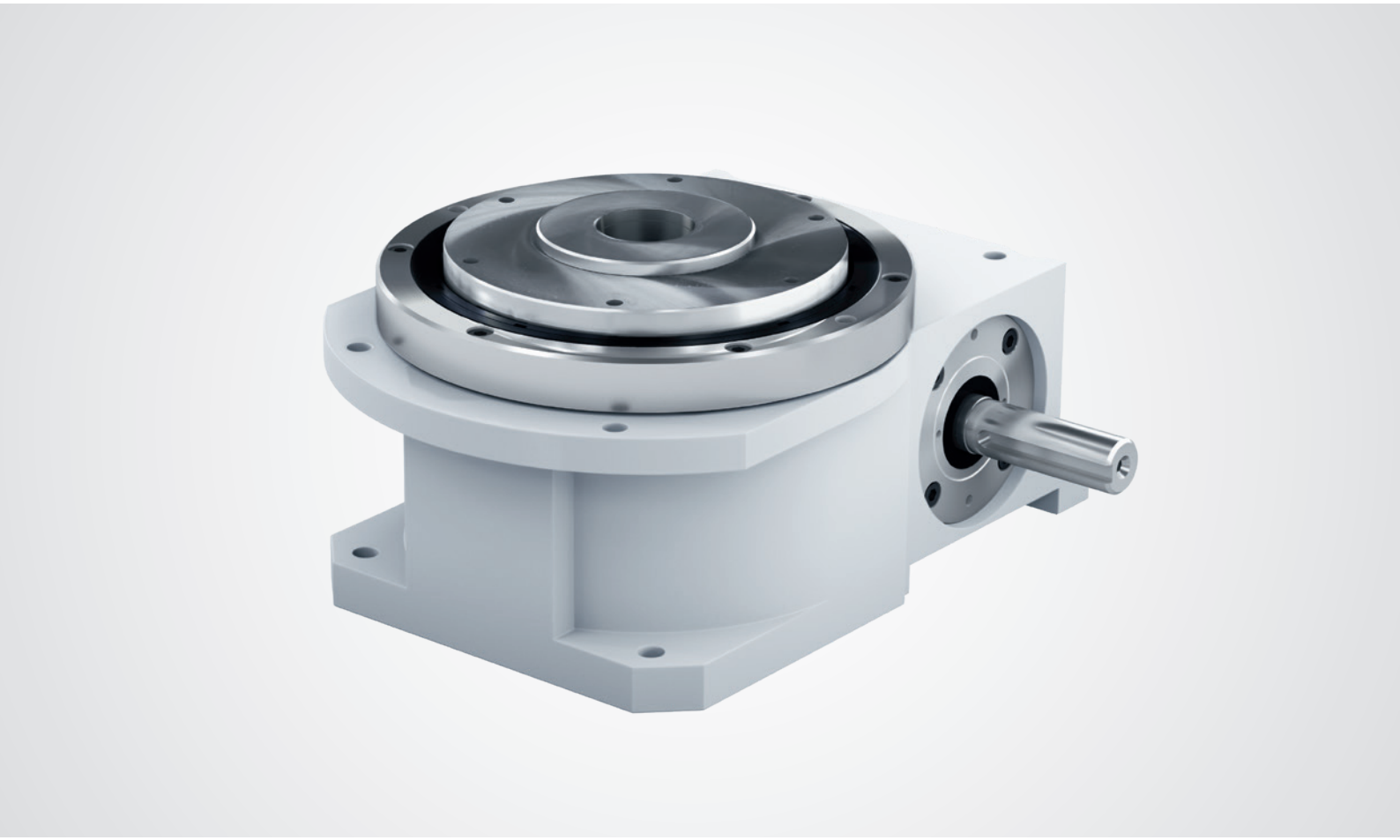
Mounting holes shown on all the six faces are only for standard dimensions.

* Indexing plate mounting face, indexing flange (ø130) is indicated in grey colour.

Dimensions & specifications may change without prior notice

GR

GLOBOIDAL CAM INDEXER



GR GLOBOIDAL CAM INDEXER: PRECISION FOR YOUR APPLICATION

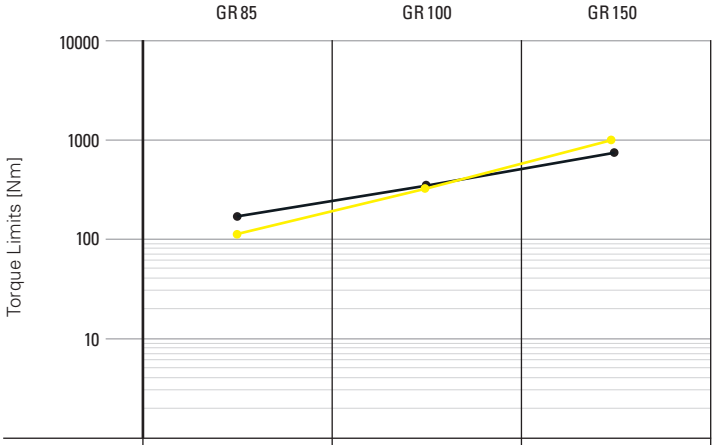
Rotary indexing units (GR Type) with globoidal cam mechanisms are ideal for dial plate indexing.
Each have centre through holes for routing supply lines. These compact units feature globoidal cam controlled movement for speed, precision and reliability.

ADVANTAGES

- Through hardened and CNC ground steel cam
- Rigid housings with leak-proof seals
- High degree of stability for dial plate applications
- Through hole for wires and utilities
- Large output flange
- Cast iron housing for rigidity and zero vibration

INDEXER TORQUE LIMITS

B10 and Torque Limit per GR-Type, typical Values for
6 stop / 270° Index angle; MS Cam Law



	GR 85	GR 100	GR 150
B10	170	348	732
Torque Limit	105	331	949

The various options in terms of the installation position, drive position and the possible positions of the drive shaft are shown on pages 28 and 29.

GR 85

TECHNICAL DATA

Centre distance:	85 mm
Hollow output::	Ø 25 mm through hole
Maximum recommended equipment diameter D_{tp}: *	Ø 625 mm
Number of stations:	3, 4, 5, 6, 8, 10, 12, 16, 20, 24, 32 other stations available on request
Direction of rotation:	clockwise, counterclockwise, reversing
Mounting position:	horizontal, vertical, upside down
Indexing precision: **	60 arcsec ± 30" (± 0.03 mm @ 200 mm radius)
Repeat accuracy: **	30 arcsec ± 15" (± 0.015 mm @ 200 mm radius)

LOAD DATA (for the output flange)

$M_{2T\ dyn}$	Tilting moment:	270 Nm
$F_{2A\ dyn}$	Max. axial force while in motion:	4000 N
$F_{2R\ dyn}$	Max. radial force while in motion:	2000 N

Valid as single loads. Combination has to be double checked.

* Max. rotating plate dimension only serves as guideline.
The actual effective radius of inertia should be considered while selecting indexer model.

** Can be lower depending on number of stops and indexing type.

Customisation on Input – available on request
Mounting of gear motor, sensor, sensor bracket, timing cam, overload clutch.

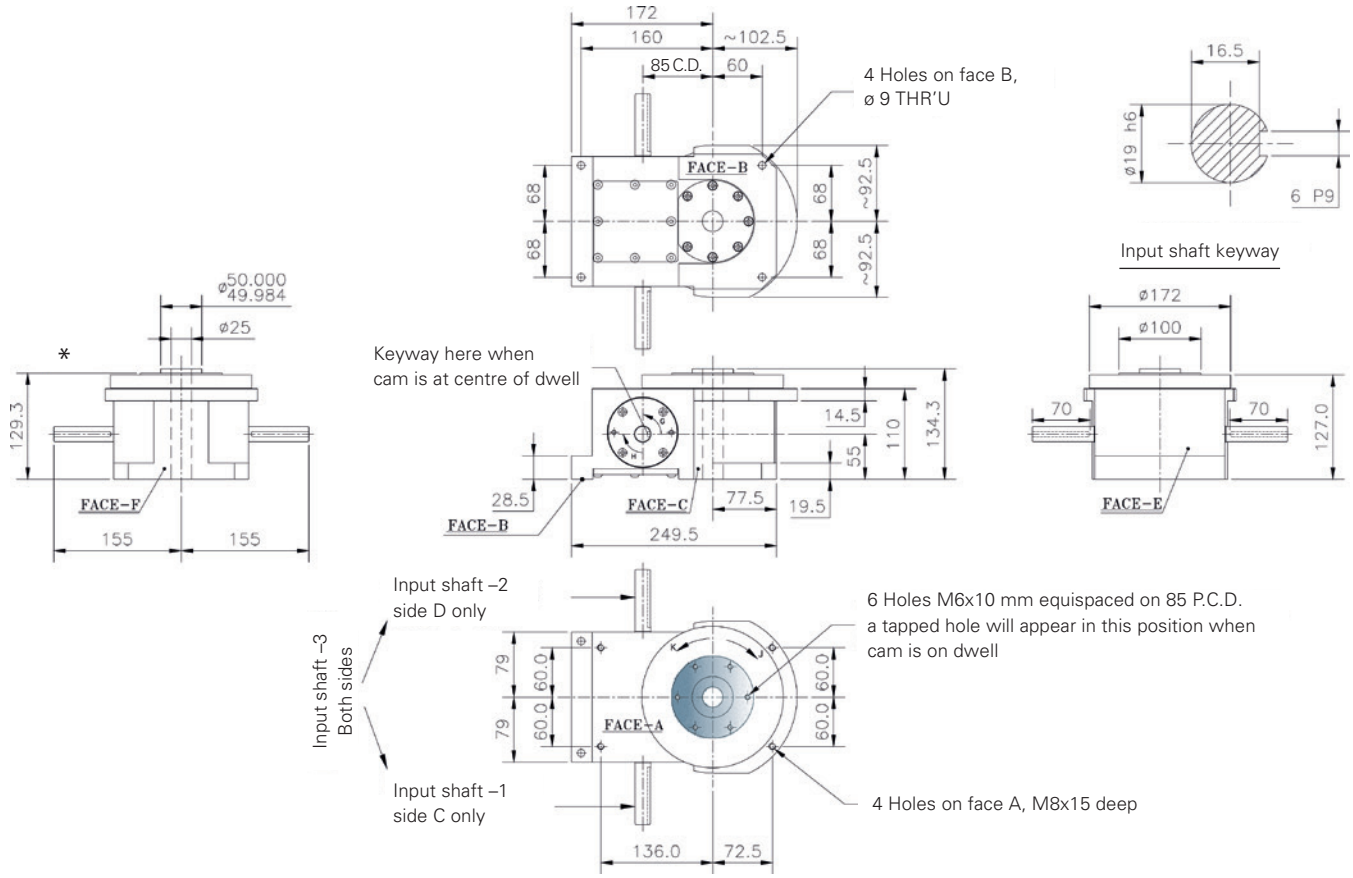
Number of Stops	Index Period (deg)	Mechanism Code	B10[1]	TL[2]	Internal Inertia[3]
3	**330°**	**GR85-3E16-330/CD.1**	**165**	**103**	**0.0303**
4	**300°**	GR85-4A16-300/CD.1	175	102	0.0304
	330°	**GR85-4A16-330/CD.1**	**174**	**103**	**0.0304**
5	**210°**	GR85-5G16-210/CD.1	211	102	0.0305
	270°	**GR85-5A16-270/CD.1**	**194**	**102**	**0.0305**
	330°	GR85-5A16-330/CD.1	194	104	0.0305
6	**210°**	**GR85-6A16-210/CD.1**	**176**	**103**	**0.0303**
	240°	GR85-6A16-240/CD.1	173	104	0.0303
	270°	**GR85-6A16-270/CD.1**	**170**	**105**	**0.0303**
8	**150°**	GR85-8A16-150/CD.1	203	101	0.0304
	180°	**GR85-8A16-180/CD.1**	**203**	**103**	**0.0304**
	210°	GR85-8A16-210/CD.1	201	105	0.0304
	240°	**GR85-8A16-240/CD.1**	**198**	**105**	**0.0304**
	270°	GR85-8A16-270/CD.1	195	106	0.0304
10	**120°**	**GR85-10A16-120/CD.1**	**212**	**100**	**0.0305**
	150°	GR85-10A16-150/CD.1	213	103	0.0305
	180°	**GR85-10A16-180/CD.1**	**210**	**105**	**0.0305**
	270°	GR85-10A16-270/CD.1	198	106	0.0305
12	**120°**	**GR85-12A16-120/CD.1**	**223**	**102**	**0.0306**
	150°	GR85-12A16-150/CD.1	219	105	0.0306
	180°	**GR85-12A16-180/CD.1**	**213**	**105**	**0.0306**
	210°	GR85-12A16-210/CD.1	207	106	0.0306
	240°	**GR85-12A16-240/CD.1**	**203**	**106**	**0.0306**
	270°	GR85-12A16-270/CD.1	200	106	0.0306

Number of Stops	Index Period (deg)	Mechanism Code	B10[1]	TL[2]	Internal Inertia[3]
16	**150°**	**GR85-16G16-150/CD.1**	**233**	**106**	**0.0309**
	180°	GR85-16G16-180/CD.1	220	106	0.0309
	210°	**GR85-16E16-210/CD.1**	**210**	**106**	**0.0309**
	240°	GR85-16A16-240/CD.1	204	106	0.0309
	270°	**GR85-16A16-270/CD.1**	**201**	**107**	**0.0309**
20	**270°**	GR85-20A16-270/DD.2	264	106	0.0305
24	**180°**	**GR85-24A16-180/DD.2**	**298**	**105**	**0.0306**
	210°	GR85-24A16-210/DD.2	284	106	0.0306
	240°	**GR85-24A16-240/DD.2**	**272**	**106**	**0.0306**
	270°	GR85-24A16-270/DD.2	264	106	0.0306
32	**180°**	**GR85-32G16-180/DD.2**	**310**	**106**	**0.0309**
	210°	GR85-32E16-210/DD.2	284	106	0.0309
	240°	**GR85-32A16-240/DD.2**	**269**	**106**	**0.0309**
	270°	GR85-32A16-270/DD.2	262	106	0.0309

[1] B10 Rating at 50 Ind./min. (Nm); [2] Torque Limit (Nm); [3] Internal Inertia (kgm^2)

Some indexers have a double indexing cam (type 2 cam) i.e. for one cam revolution, two indexing are carried out on the output. We also supply indexers with other number of stops & index angles. Kindly contact WEISS sales representative for more information.

DIMENSIONS



* Indexing plate mounting face,
indexing flange (ø 100) is indicated in grey color

Dimensions & specifications may change without
prior notice

GR 100

TECHNICAL DATA

Centre distance:	108 mm
Hollow output::	Ø 40 mm through hole
Maximum recommended equipment diameter D_{tp}: *	Ø 815 mm
Number of stations:	3, 4, 5, 6, 8, 10, 12, 16, 20, 24, 32 other stations available on request
Direction of rotation:	clockwise, counterclockwise, reversing
Mounting position:	horizontal, vertical, upside down
Indexing precision: **	50 arcsec (± 25"; ± 0.025 mm @ 200 mm radius)
Repeat accuracy: **	24 arcsec (± 12"; ± 0.012 mm @ 200 mm Radius)

LOAD DATA (for the output flange)

$M_{2T\ dyn}$	Tilting moment:	366 Nm
$F_{2A\ dyn}$	Max. axial force while in motion:	6471 N
$F_{2R\ dyn}$	Max. radial force while in motion:	3235 N

Valid as single loads. Combination has to be double checked.

* Max. rotating plate dimension only serves as guideline.
The actual effective radius of inertia should be considered while selecting indexer model.

** Can be lower depending on number of stops and indexing type.

Customisation on Input – available on request
Mounting of gear motor, sensor, sensor bracket, timing cam, overload clutch.

Number of Stops	Index Period (deg)	Mechanism Code	B10[1]	TL[2]	Internal Inertia[3]
3	**330°**	**GR100-3G19-330/CD.1**	**297**	**320**	**0.0449**
4	**300°**	GR100-4G19-300/CD.1	346	332	0.0447
	330°	**GR100-4G19-330/CD.1**	**343**	**335**	**0.0447**
5	**210°**	GR100-5G19-210/CD.1	356	320	0.0450
	270°	**GR100-5A19-270/CD.1**	**334**	**324**	**0.0450**
	330°	GR100-5A19-330/CD.1	331	333	0.0450
6	**210°**	**GR100-6G19-210/CD.1**	**376**	**329**	**0.0453**
	240°	GR100-6G19-240/CD.1	378	334	0.0453
	270°	**GR100-6A19-270/CD.1**	**348**	**331**	**0.0453**
8	**120°**	GR100-8A19-120/CD.1	324	299	0.0447
	150°	**GR100-8A19-150/CD.1**	**344**	**319**	**0.0447**
	180°	GR100-8A19-180/CD.1	352	329	0.0447
	210°	**GR100-8A19-210/CD.1**	**351**	**335**	**0.0447**
	240°	GR100-8A19-240/CD.1	343	338	0.0447
	270°	**GR100-8A19-270/CD.1**	**333**	**340**	**0.0447**
10	**120°**	GR100-10A19-120/CD.1	352	313	0.0450
	150°	**GR100-10A19-150/CD.1**	**366**	**328**	**0.0450**
	180°	GR100-10A19-180/CD.1	368	335	0.0450
	270°	**GR100-10A19-270/CD.1**	**356**	**342**	**0.0450**
12	**120°**	GR100-12A19-120/CD.1	375	323	0.0453
	150°	**GR100-12A19-150/CD.1**	**382**	**334**	**0.0453**
	180°	GR100-12A19-180/CD.1	378	338	0.0453
	210°	**GR100-12A19-210/CD.1**	**371**	**341**	**0.0453**
	240°	GR100-12A19-240/CD.1	365	342	0.0453
	270°	**GR100-12A19-270/CD.1**	**359**	**343**	**0.0453**

Number of Stops	Index Period (deg)	Mechanism Code	B10[1]	TL[2]	Internal Inertia[3]
16	**120°**	GR100-16G19-120/CD.1	448	340	0.0460
	150°	**GR100-16A19-150/CD.1**	**397**	**340**	**0.0460**
	180°	GR100-16A19-180/CD.1	384	341	0.0460
	210°	**GR100-16A19-210/CD.1**	**374**	**343**	**0.0460**
	240°	GR100-16A19-240/CD.1	367	343	0.0460
	270°	**GR100-16A19-270/CD.1**	**362**	**344**	**0.0460**
20	**270°**	GR100-20A19-270/DD.2	476	340	0.0450
24	**180°**	**GR100-24A19-180/DD.2**	**525**	**336**	**0.0453**
	210°	GR100-24A19-210/DD.2	508	340	0.0453
	240°	**GR100-24A19-240/DD.2**	**491**	**341**	**0.0453**
	270°	GR100-24A19-270/DD.2	477	342	0.0453
32	**180°**	**GR100-32A19-180/DD.2**	**532**	**341**	**0.0460**
	210°	GR100-32A19-210/DD.2	506	342	0.0460
	240°	**GR100-32A19-240/DD.2**	**487**	**343**	**0.0460**
	270°	GR100-32A19-270/DD.2	474	343	0.0460

[1] B10 Rating at 50 Ind./min. (Nm); [2] Torque Limit (Nm); [3] Internal Inertia (kgm^2)

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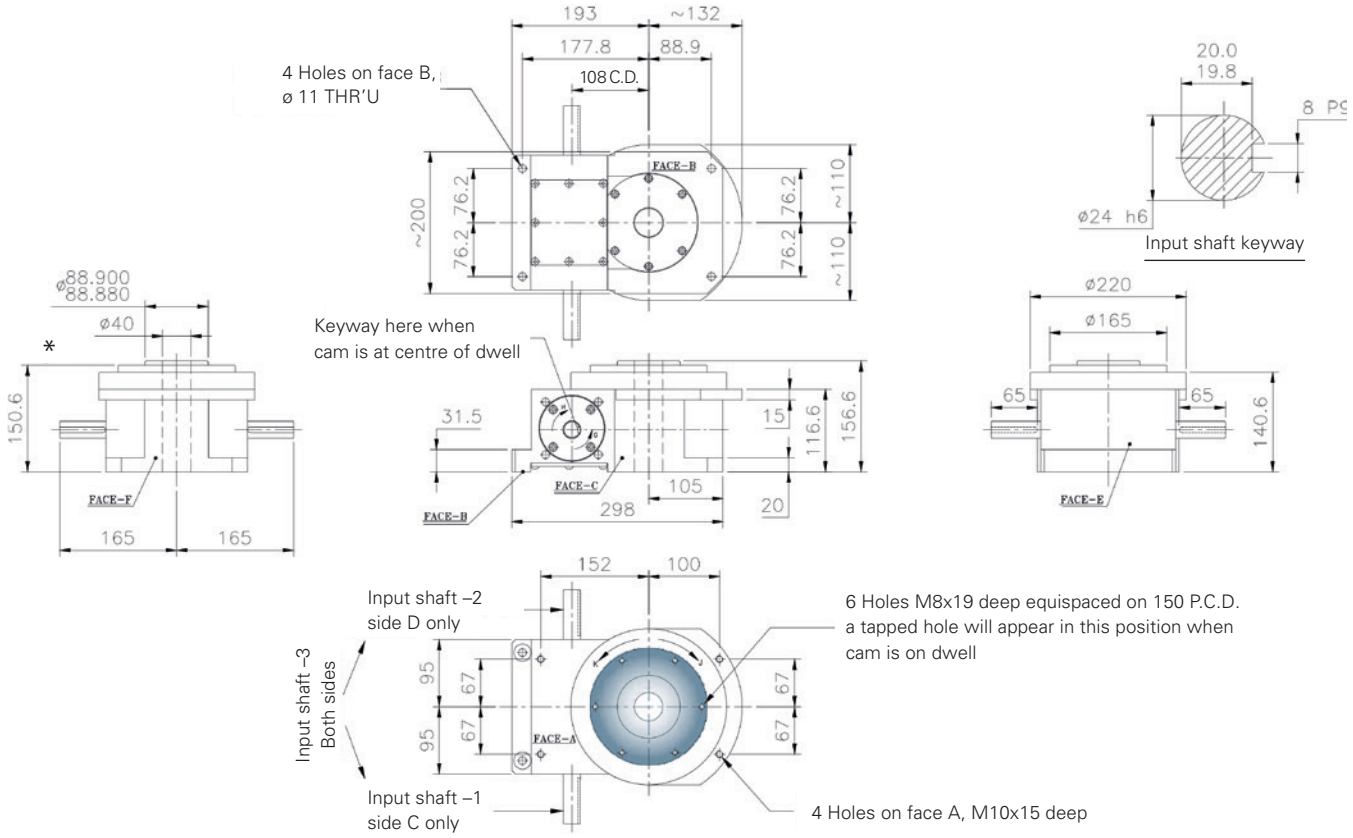
DIMENSIONS



* Indexing plate mounting face,
indexing flange (ø 165) is indicated in grey color

Dimensions & specifications may change without
prior notice

GR 150

TECHNICAL DATA

Centre distance:	152 mm
Hollow output::	Ø 85 mm through hole
Maximum recommended equipment diameter D_{tp}: *	Ø 1220 mm
Number of stations:	3, 4, 5, 6, 8, 10, 12, 16, 20, 24, 32 other stations available on request
Direction of rotation:	clockwise, counterclockwise, reversing
Mounting position:	horizontal, vertical, upside down
Indexing precision: **	40 arcsec (± 20"; ± 0.02 mm @ 200 mm radius)
Repeat accuracy: **	20 arcsec (± 10"; ± 0.01 mm @ 200 mm radius)

Number of Stops	Index Period (deg)	Mechanism Code	B10[1]	TL[2]	Internal Inertia[3]
3	**330°**	**GR150-3G25-330/CD.1**	**580**	**727**	**0.1862**
4	**330°**	GR150-4G25-330/CD.1	692	969	0.1886
5	**210°**	**GR150-5G25-210/CD.1**	**768**	**469**	**0.1870**
	270°	GR150-5A25-270/CD.1	648	791	0.1870
	330°	**GR150-5A25-330/CD.1**	**651**	**967**	**0.1870**
6	**270°**	GR150-6A25-270/CD.1	732	949	0.1886
8	**180°**	**GR150-8E19-180/CD.1**	**533**	**472**	**0.1848**
	240°	GR150-8G25-240/CD.1	924	1023	0.1919
	270°	**GR150-8E25-270/CD.1**	**875**	**1026**	**0.1919**
10	**150°**	GR150-10A25-150/CD.1	784	879	0.1870
	180°	**GR150-10A25-180/CD.1**	**785**	**999**	**0.1870**
	270°	GR150-10A25-270/CD.1	735	1036	0.1870
12	**90°**	**GR150-12A19-90/CD.1**	**460**	**408**	**0.1833**
	120°	GR150-12A25-120/CD.1	869	844	0.1886
	150°	**GR150-12A25-150/CD.1**	**868**	**991**	**0.1886**
	180°	GR150-12A25-180/CD.1	857	1017	0.1886
	270°	**GR150-12A25-270/CD.1**	**795**	**1041**	**0.1886**
	300°	GR150-12A25-300/CD.1	776	1043	0.1886
16	**120°**	**GR150-16A19-120/CD.1**	**572**	**487**	**0.1848**
	150°	GR150-16A25-150/CD.1	988	1022	0.1919
	180°	**GR150-16A25-180/CD.1**	**973**	**1035**	**0.1919**
	270°	GR150-16A25-270/CD.1	892	1046	0.1919
	330°	**GR240-16A25-330/CD.1**	**849**	**1048**	**0.1919**
20	**270°**	GR150-20A25-270/DD.2	1125	1026	0.1870
24	**180°**	**GR150-24A25-180/DD.2**	**1293**	**1001**	**0.1886**
	270°	GR150-24A25-270/DD.2	1218	1037	0.1886
32	**180°**	**GR150-32A25-180/DD.2**	**1364**	**1031**	**0.1919**
	270°	GR150-32A25-270/DD.2	1222	1045	0.1919

[1] B10 Rating at 50 Ind./min. (Nm); [2] Torque Limit (Nm); [3] Internal Inertia (kgm^2)

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LOAD DATA (for the output flange)

$M_{2T\ dyn}$	Tilting moment:	766 Nm
$F_{2A\ dyn}$	Max. axial force while in motion:	9412 N
$F_{2R\ dyn}$	Max. radial force while in motion:	5835 N

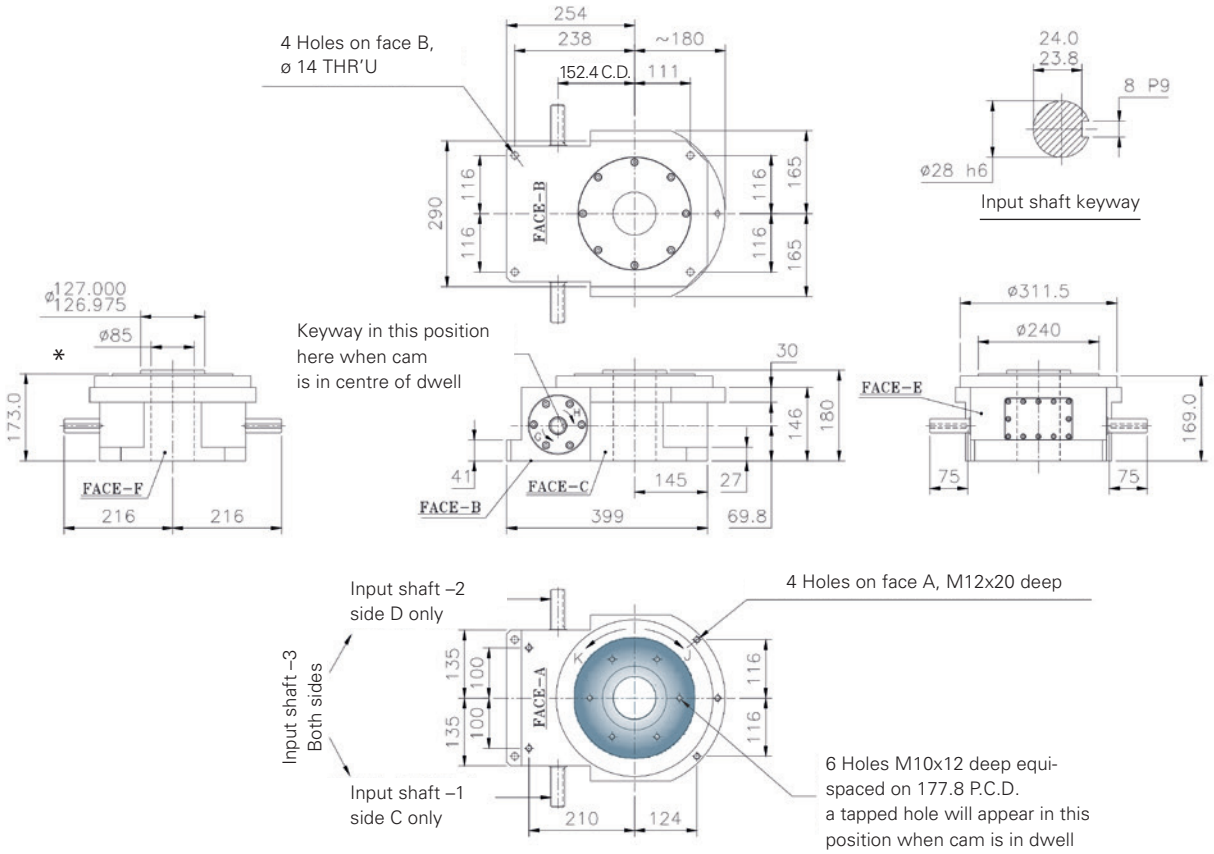
Valid as single loads. Combination has to be double checked.

* Max. rotating plate dimension only serves as guideline.
The actual effective radius of inertia should be considered while selecting indexer model.

** Can be lower depending on number of stops and indexing type.

Customisation on Input – available on request
Mounting of gear motor, sensor, sensor bracket, timing cam, overload clutch.

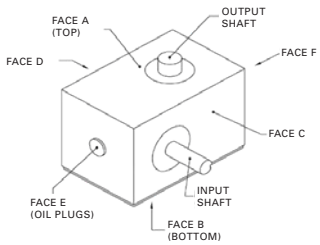
DIMENSIONS



* Indexing plate mounting face,
indexing flange (ø 240) is indicated in grey color

Dimensions & specifications may change without
prior notice

VERSIONS: MOUNTING POSITIONS GS



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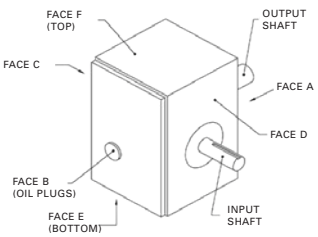

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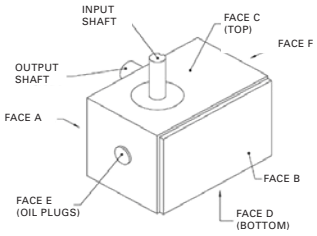

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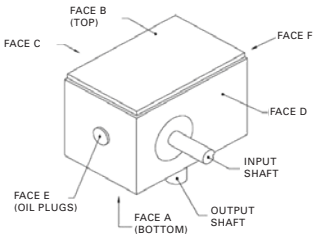

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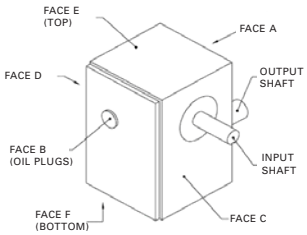

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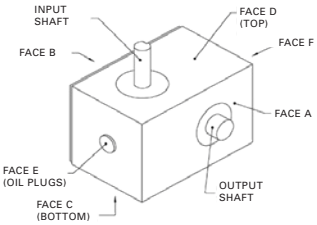
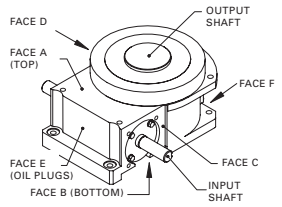
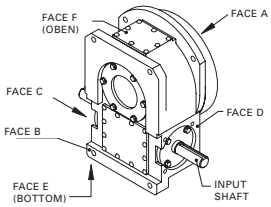


6

VERSIONS: MOUNTING POSITIONS GR



1



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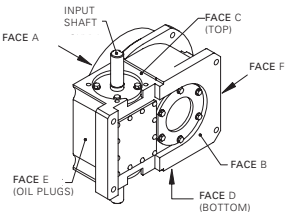

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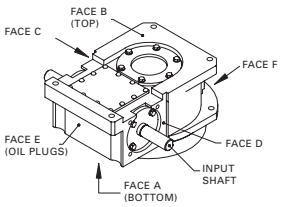

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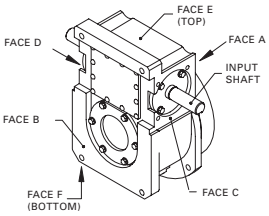

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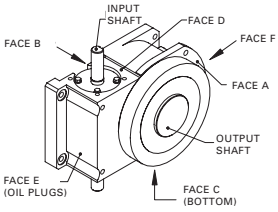
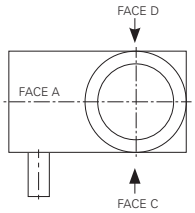
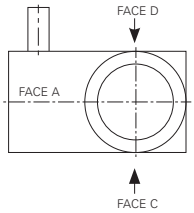


6

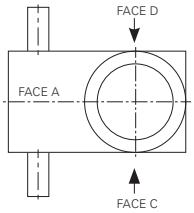
VERSIONS: INPUT SHAFT PROJECTION



1
Input shaft projection – 1
Input Shaft is on FACE C only

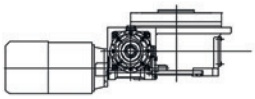


2
Input shaft projection – 2
Input Shaft is on FACE D only



3
Input shaft projection – 3
Input Shaft is on both the faces, FACE C and FACE D

VERSIONS: DRIVE POSITION



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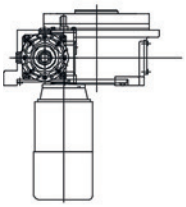

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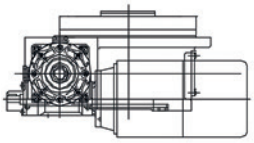

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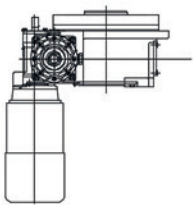

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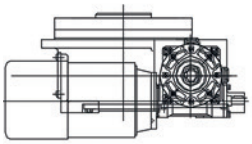

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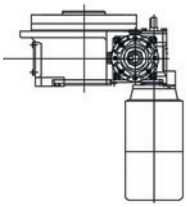

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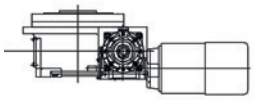

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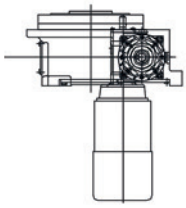
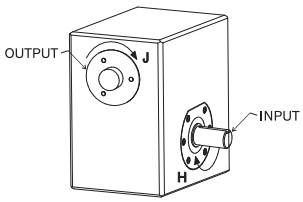
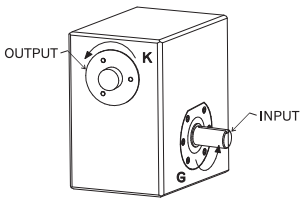


2DD

SHAFT DIRECTION OF ROTATION





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