



SUSIN I-TORK INDIA PRIVATE LIMITED

An ISO 9001 - 2015 Certified Company



MAB Series

Bevel Gear Actuators



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SUSIN I-TORK INDIA PRIVATE LIMITED

Susin Group was founded by Mr. Muthukumar in 1992, as a company specialized in the design, manufacture and installation of Valve automation products to different industries. In 2006 the company stepped into marketing to manufacturing, and to focus more on valve automation industrial requirements. We are providing complete automation solution to all kind of Valve Industries where we equipped to support in pneumatic, hydraulic, electrical & mechanical actuators. Susin produces various range of critical products in different applications.

OUR GLOBAL PARTNERS



Bevel Series

Application

Bevel gear actuators are engineered for multiturn operations and are primarily utilized in gate and globe valves, along with other linear valve systems. Our MAB (Mechanical Actuator Bevel) Series is specifically developed to meet the demanding requirements of industries such as Oil & Gas, Power, Water, Marine, and Steel, including critical applications in power plants and processing facilities. With a broad selection of material construction options, these actuators are ideally suited for critical valve operations, delivering dependable performance in harsh and challenging environments.

Features

Standard

- ➔ Output Torque Range - 250 to 18,000 Nm with Gear Reduction Attachment
- ➔ Output Thrust Range - 75 to 2500 KN with Gear Reduction Attachment
- ➔ IP Rating - IP55, IP65, IP67M and IP68
- ➔ Temperature Range
 - Standard -20°C to +80°C
- ➔ Housing - Ductile Iron
- ➔ Input Shaft - Steel
- ➔ Bearing Construction
- ➔ Epoxy & PU Coating for Housing and Powder Coated Hand Wheel

Optional

- ➔ Temperature Range
 - Low Temperature -45°C to +100°C
 - High Temperature -70°C to +120°C
- ➔ Housing - Cast Iron
- ➔ Input Shaft - Stainless Steel
- ➔ Special Painting System provided for Marine Application and Offshore Requirements

Drive Sleeve

- ➔ Easily replaceable splined stem bush has been permitted inside the drive sleeve.
- ➔ Dual locknuts has been permitted to arrest the movement of the stem bush.
- ➔ Highly strengthen bronze material has used for the stem bush.



MOV Flange

Motorized Operated Valve (MOV) Flange provided to mount with Electrically Operated Actuators through ISO-5210 Mountings.



TECHNICAL SPECIFICATIONS

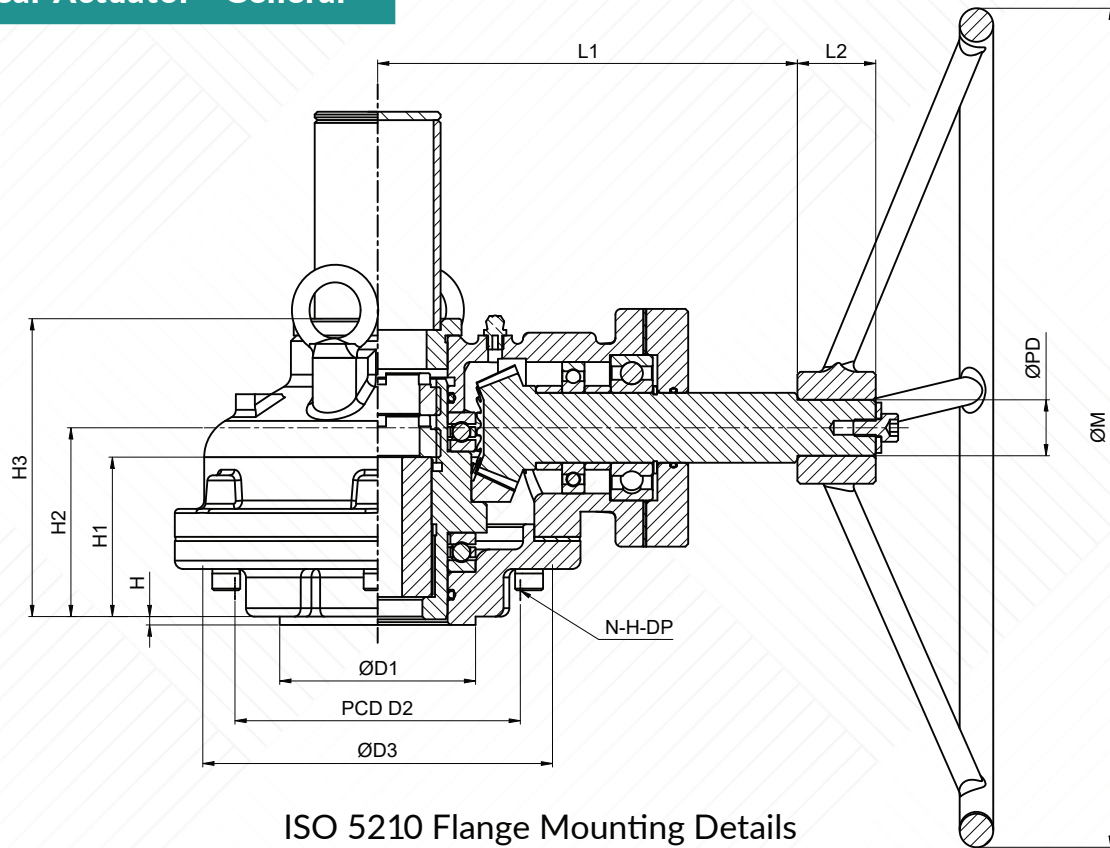
MODEL NO	Gear Ratio	Allowable Maximum Stem Diameter	Maximum Torque Capacity		Maximum Thrust Capacity		Mechanical Advantage $\pm 10\%$	Valve Mounting ISO 5210		Recommended Hand Wheel Dia (mm)	Approx Unit Weight (Kg)
		TW / Ø (KEY)	N.M	Lbt-ft	KN	Lbf		Standard	Option		
MAB-075	2.5:1	28/ Ø22(8x7)	250	184.39	75	16860.67	2.27	F10	F07	Ø300	9.50
MAB-100	3:1	36/ Ø28(8x7)	420	309.78	100	22480.89	2.72	F12	F10	Ø300	12.00
MAB-125	3.5:1	44/ Ø36(10x8)	700	516.29	125	28101.12	3.18	F14	F12, F16	Ø400	22.00
MAB-150	3.75:1	54/ Ø42(12x8)	1100	811.32	150	33721.34	3.40	F16	F14	Ø500	30.00
MAB-200	4:1	62/ Ø55(16x10)	1600	1180.10	200	44961.79	3.63	F16	F20	Ø600	34.00
MAB-300	5:1	70/ Ø65(20x12)	2500	1843.91	300	67442.68	4.62	F25	F30	Ø710	70.00
MAB-350	5.5:1	85/ Ø75(20x12)	3800	2802.74	350	78683.13	5.24	F35	F30, F25	Ø710	95.00
MAB-400	6:1	95/ Ø80(22x14)	5600	4130.35	400	89923.58	5.70	F35	F30, F25	Ø800	130.00
MAB-500	6.5:1	110/ Ø95(22x14)	7800	5752.98	500	112404.47	6.19	F40	F35, F30	Ø900	175.00
MAB-1200	7:1	120/ Ø105(28x16)	12000	8850.75	1200	269770.73	6.70	F40	F35, F30	Ø1000	195.00
MAB-2500	7.5:1	150/ Ø130(36x20)	18000	13276.12	2500	562022.36	7.20	F48	F40	Ø1000	390.00

MODEL NO	Gear Ratio	Allowable Maximum Stem Diameter	Maximum Torque Capacity		Maximum Thrust Capacity		Mechanical Advantage $\pm 10\%$	Valve Mounting ISO 5210		Recommended Hand Wheel Dia (mm)	Approx Unit Weight (Kg)
		TW / Ø (KEY)	N.M	Lbt-ft	KN	Lbf		Standard	Option		
MAB-125-1S	7:1	44/ Ø36(10x8)	700	516.29	125	28101.12	5.72	F14	F12, F16	Ø400	30.00
MAB-150-1S	9.4:1	54/ Ø42(12x8)	1100	811.32	150	33721.34	7.82	F16	F14	Ø400	35.00
MAB-200-1S	12:1	62/ Ø55(16x10)	1600	1180.10	200	44961.79	10.16	F16	F20	Ø400	40.00
MAB-300-1S	15:1	70/ Ø65(20x12)	2500	1843.91	300	67442.68	12.94	F25	F30	Ø500	80.00
MAB-350-1S	16.5:1	85/ Ø75(20x12)	3800	2802.74	350	78683.13	14.67	F35	F30, F25	Ø600	105.00
MAB-400-1S	21:1	95/ Ø80(22x14)	5600	4130.35	400	89923.58	18.81	F35	F30, F25	Ø600	140.00
MAB-500-1S	22.75:1	110/ Ø95(22x14)	7800	5752.98	500	112404.47	20.43	F40	F35, F30	Ø710	189.00
MAB-1200-1S	28:1	120/ Ø105(28x16)	12000	8850.75	1200	269770.73	24.79	F40	F35, F30	Ø710	215.00
MAB-2500-1S	30:1	150/ Ø130(36x20)	18000	13276.12	2500	562022.36	26.64	F48	F40	Ø900	430.00

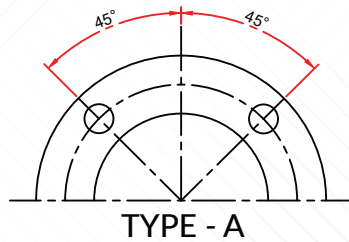
MODEL NO	Gear Ratio	Allowable Maximum Stem Diameter	Maximum Torque Capacity		Maximum Thrust Capacity		Mechanical Advantage $\pm 10\%$	Valve Mounting ISO 5210		Recommended Hand Wheel Dia (mm)	Approx Unit Weight (Kg)
		TW / Ø (KEY)	N.M	Lbt-ft	KN	Lbf		Standard	Option		
MAB-150-2S	15:1	54/ Ø42(12x8)	1100	811.32	150	33721.34	11.02	F16	F14	Ø400	40.00
MAB-200-2S	16:1	62/ Ø55(16x10)	1600	1180.10	200	44961.79	11.76	F16	F20	Ø400	45.00
MAB-300-2S	45:1	70/ Ø65(20x12)	2500	1843.91	300	67442.68	36.22	F25	F30	Ø500	85.00
MAB-350-2S	49.5:1	85/ Ø75(20x12)	3800	2802.74	350	78683.13	41.08	F35	F30, F25	Ø600	110.00
MAB-400-2S	73.5:1	95/ Ø80(22x14)	5600	4130.35	400	89923.58	62.07	F35	F30, F25	Ø600	150.00
MAB-500-2S	79.63:1	110/ Ø95(22x14)	7800	5752.98	500	112404.47	67.41	F40	F35, F30	Ø710	200.00
MAB-1200-2S	112:1	120/ Ø105(28x16)	12000	8850.75	1200	269770.73	91.72	F40	F35, F30	Ø710	230.00
MAB-2500-2S	151.87:1	150/ Ø130(36x20)	18000	13276.12	2500	562022.36	133.13	F48	F40	Ø900	450.00

Mentioned Specifications & Dimensions are Subject to Change Without Prior Notice for Quality Improvements.

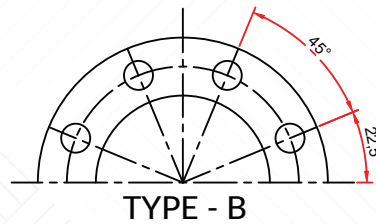
Bevel Gear Actuator - General



ISO 5210 Flange Mounting Details



TYPE - A



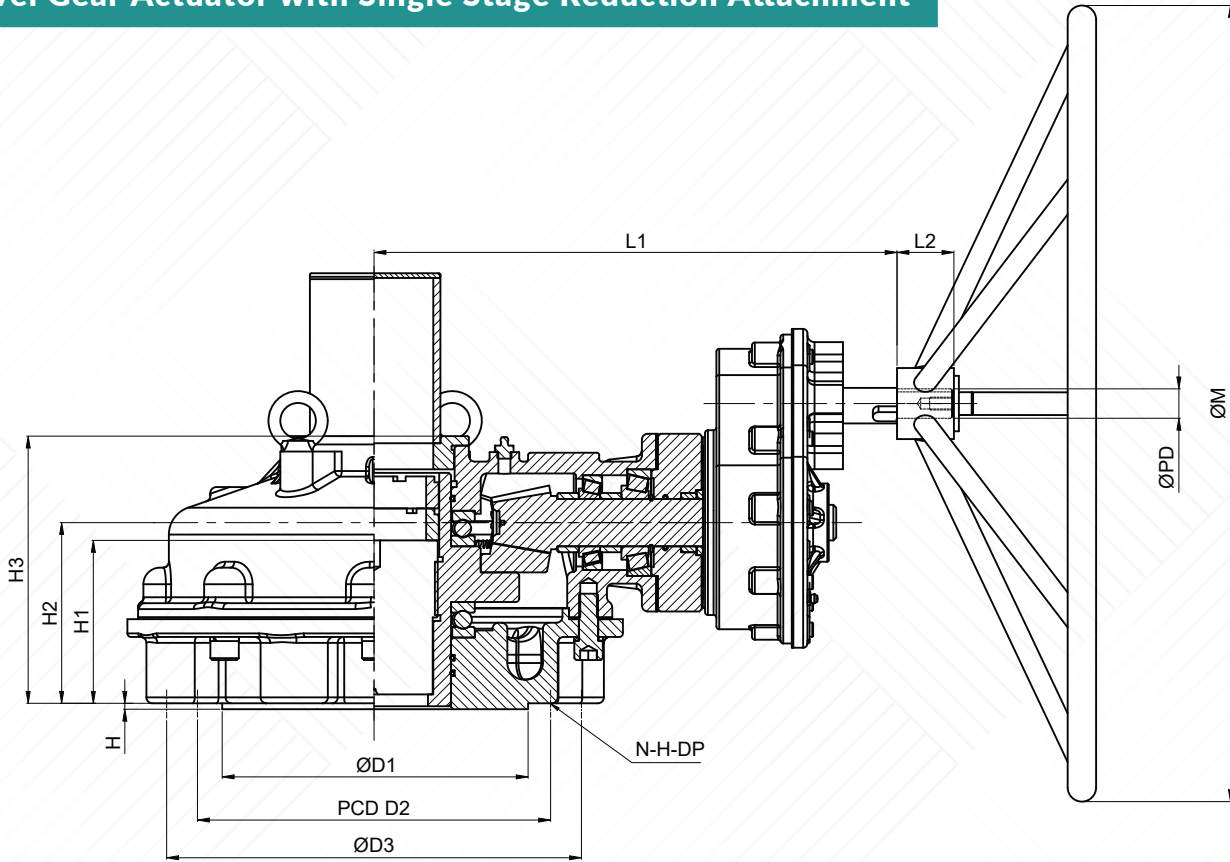
TYPE - B

DIMENSIONAL DATA

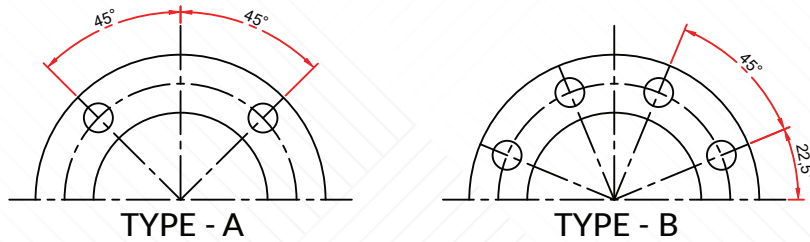
Base Part								External Part				Input Shaft Part			Hand Wheel ØM	Stem Cover
Model No	Type	ØD1	Flange	P. C. D		ØD3	H	H1	H2	H3	L1	L2	ØPD	KEY		
MAB-075	A	70	F10	102	4-M10-15	125	3	57	67.5	100.5	150	28	20	6x6	300	PF 2"
MAB-100		85	F12	125	4-M12-18	150	3	56	69	109	150	35	20	6x6	300	PF 2"
MAB-125		100	F14	140	4-M16-24	220	4	80.5	94	135	200	38	25	8x7	400	PF 2"½"
MAB-150		130	F16	165	4-M20-20	210	4	74	85	127	200	40	25	8x7	500	PF 3"
MAB-200	B	140	F20	205	8-M16-25	245	4	80	100	152	194	35	30	10x8	600	PF 3"
MAB-300		230	F30	298	8-M20-30	350	5	104	122	176	270	35	30	10x8	710	PF 4"
MAB-350		230	F30	298	8-M20-30	415	5	119	134	199	310	35	30	10x8	710	PF 5"
MAB-400		260	F35	356	8-M30-45	410	5	133	150	209	290	35	38	12x8	800	PF 6"
MAB-500		300	F40	406	8-M36-55	475	5	160	180	250	315	35	38	12x8	900	PF 6"
MAB-1200		300	F40	406	8-M36-55	475	5	170	192	260	400	35	38	12x8	1000	PF 8"
MAB-2500		300	F40	406	8-M36-54	485	5	203	222	322	500	40	30	10x8	1000	PF 10"

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Bevel Gear Actuator with Single Stage Reduction Attachment



ISO 5210 Flange Mounting Details

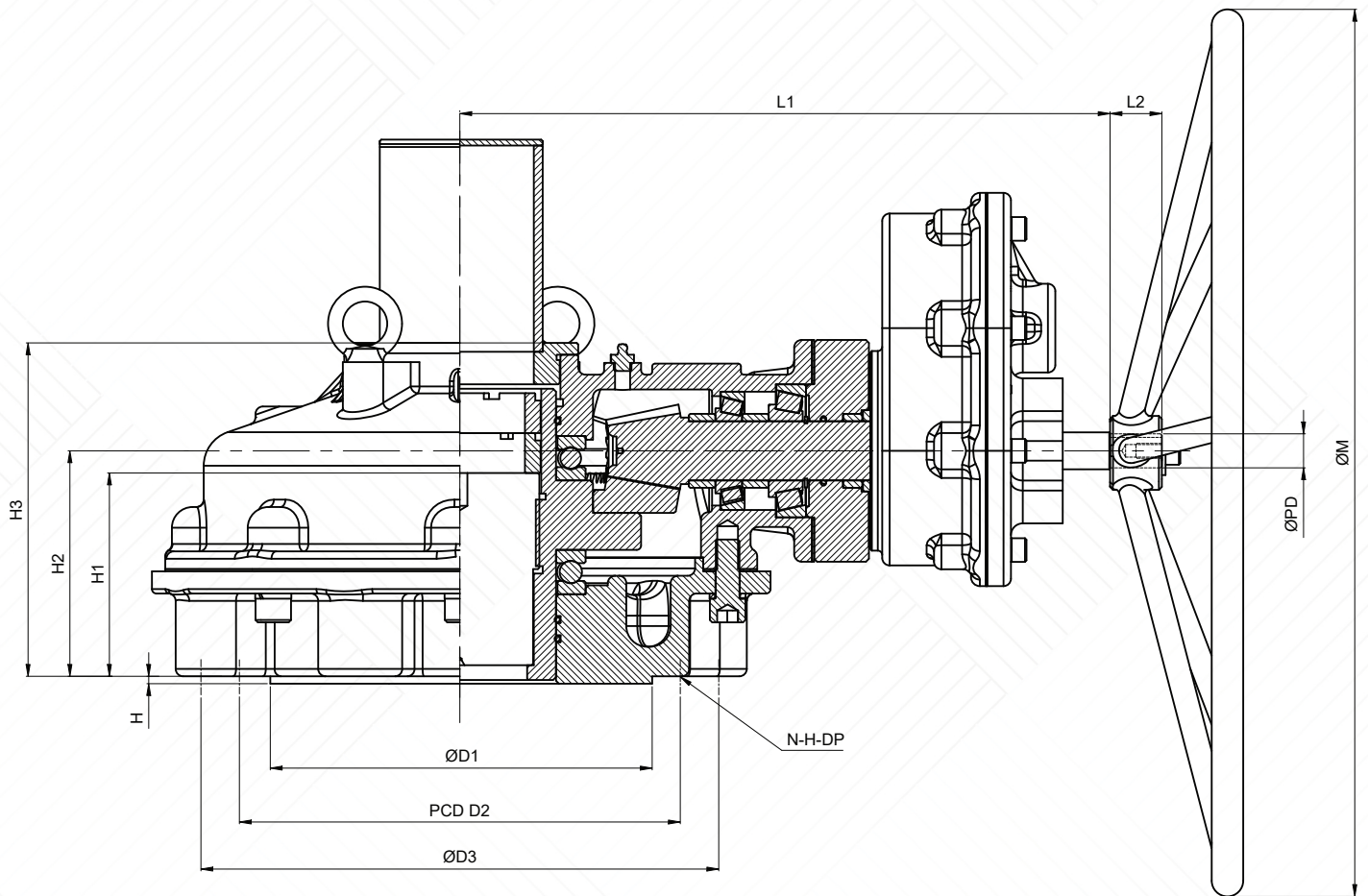


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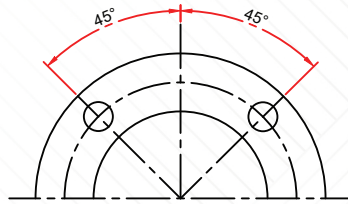
Base Part								External Part				Input Shaft Part			Hand Wheel ØM	Stem Cover
Model No	Type	ØD1	Flange	P. C. D		ØD3	H	H1	H2	H3	L1	L2	ØPD	KEY		
MAB-125-1S	A	100	F14	140	4-M16-24	220	4	80.5	94	135	280	38	25	8x7	400	PF 2" 1/2"
MAB-150-1S		130	F16	165	4-M20-20	210	4	74	85	127	250	40	25	8x7	400	PF 3"
MAB-200-1S	B	140	F20	205	8-M16-25	245	4	80	100	152	240	35	25	8x7	400	PF 3"
MAB-300-1S		230	F30	298	8-M20-30	350	5	104	122	176	350	35	25	8x7	500	PF 4"
MAB-350-1S		230	F30	298	8-M20-30	415	5	119	134	199	410	35	25	8x7	600	PF 5"
MAB-400-1S		260	F35	356	8-M30-45	410	5	133	150	209	360	35	38	12x8	600	PF 6"
MAB-500-1S		300	F40	406	8-M36-55	475	5	160	180	250	390	35	38	12x8	710	PF 6"
MAB-1200-1S		300	F40	406	8-M36-55	475	5	170	192	260	520	35	38	12x8	710	PF 8"
MAB-2500-1S		300	F40	406	8-M36-54	485	5	203	222	322	640	40	30	10x8	900	PF 10"

Mentioned Specifications & Dimensions are Subject to Change Without Prior Notice for Quality Improvements.

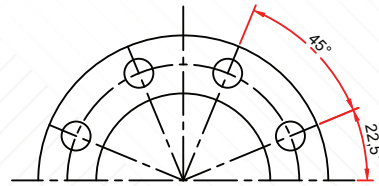
Bevel Gear Actuator with Double Stage Reduction Attachment



ISO 5210 Flange Mounting Details



TYPE - A



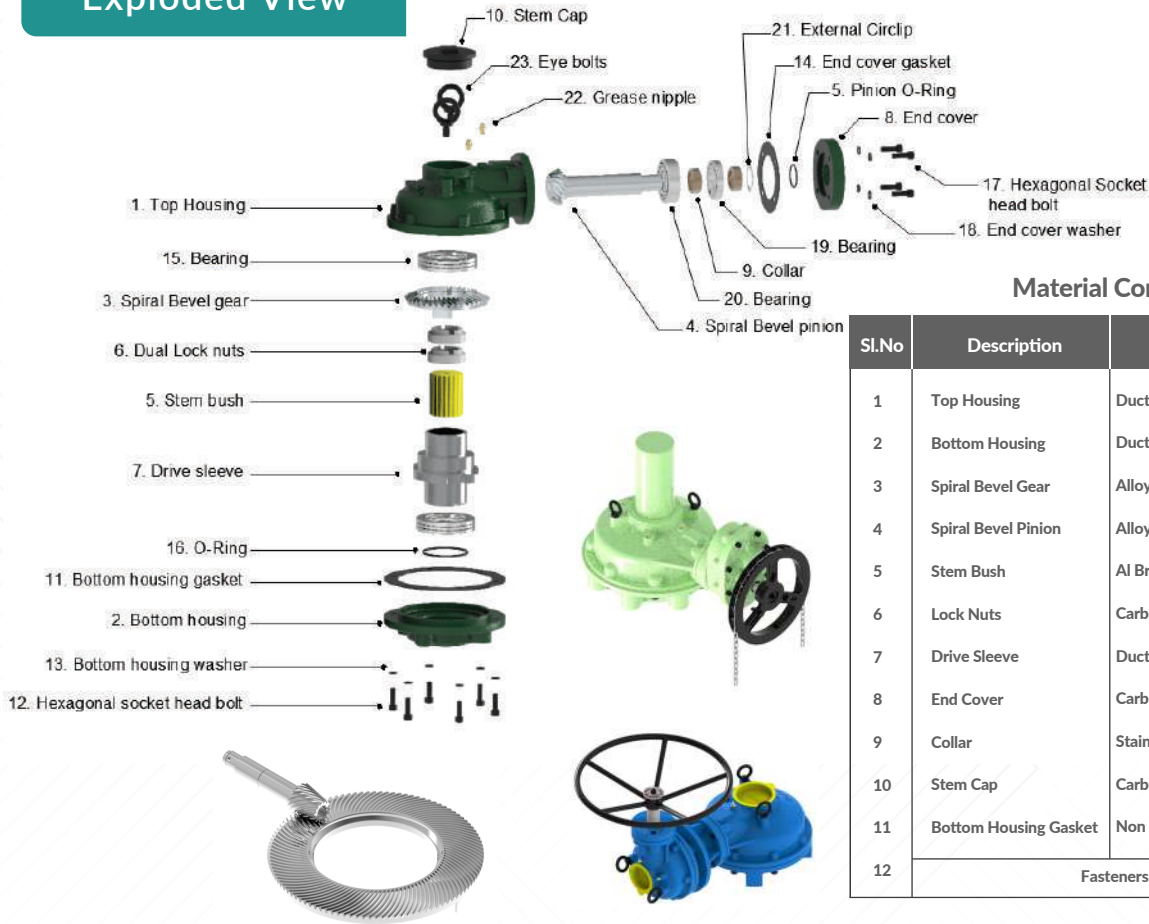
TYPE - B

DIMENSIONAL DATA

Base Part								External Part				Input Shaft Part			Hand Wheel ØM	Stem Cover
Model No	Type	ØD1	Flange	P. C. D		ØD3	H	H1	H2	H3	L1	L2	ØPD	KEY		
				ØD2	N-H-DP											
MAB-150-2S	A	130	F16	165	4-M20-20	210	4	74	85	127	270	40	25	8x7	400	PF 3"
MAB-200-2S	B	140	F20	205	8-M16-25	245	4	80	100	152	262	35	25	8x7	400	PF 3"
MAB-300-2S		200	F25	254	8-M16-24	300	5	109	122	176	377	35	25	8x7	500	PF 4"
MAB-350-2S		230	F30	298	8-M20-30	415	5	119	134	199	439.5	35	25	8x7	600	PF 5"
MAB-400-2S		260	F35	356	8-M30-45	410	5	133	150	209	395	35	38	12x8	600	PF 6"
MAB-500-2S		300	F40	406	8-M36-55	475	5	160	180	250	430	35	38	12x8	710	PF 6"
MAB-1200-2S		300	F40	406	8-M36-55	475	5	170	192	260	570	35	38	12x8	710	PF 8"
MAB-2500-2S		300	F40	406	8-M36-54	485	5	203	222	322	671	40	30	10x8	800	PF 10"

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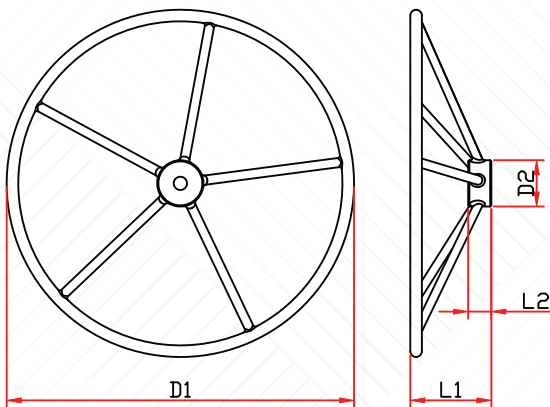
Exploded View



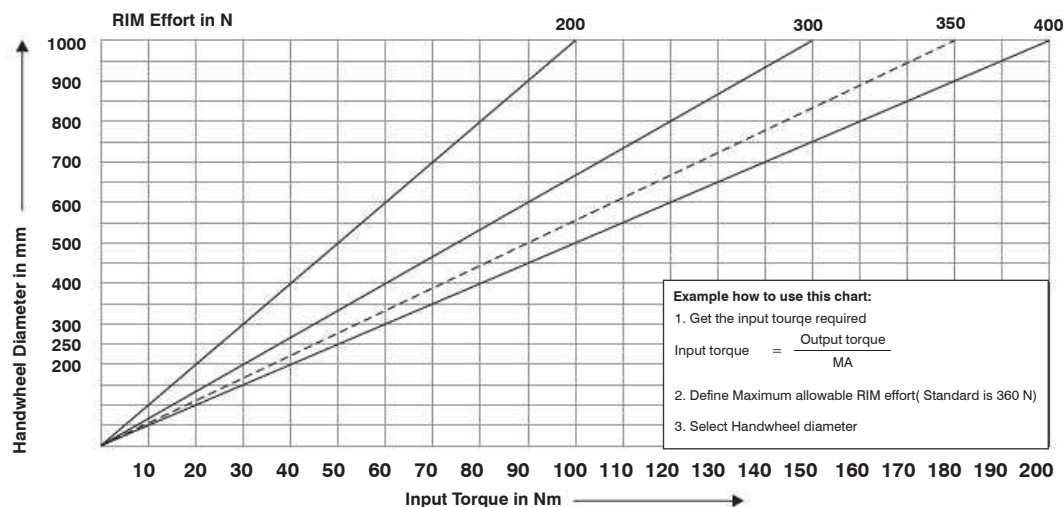
Material Construction

Sl.No	Description	Standard	QTY
1	Top Housing	Ductile Iron (A536-65-45-12)	1
2	Bottom Housing	Ductile Iron (A536-65-45-12)	1
3	Spiral Bevel Gear	Alloy Steel (EN-19) / AISI 1045	1
4	Spiral Bevel Pinion	Alloy Steel (EN-19) / AISI 1045	1
5	Stem Bush	Al Bronze / Carbon Steel	1
6	Lock Nuts	Carbon Steel (EN-8)	2
7	Drive Sleeve	Ductile Iron (A536-70-50-05)	1
8	End Cover	Carbon Steel (ASTM A36)	1
9	Collar	Stainless Steel (SS304)	2
10	Stem Cap	Carbon Steel (ASTM A36)	1
11	Bottom Housing Gasket	Non Asbestos	1
12	Fasteners (Customized)		

All dimensions are in mm



S.NO	WHEEL OD D1	HEIGHT L1	BUSH DIA D2	BUSH LENGTH L2	NO. OF SPOKES
01	100	80	50	25	3
02	200	80	50	25	3
03	250	90	70	35	3
04	300	90	70	35	5
05	400	90	70	35	5
06	500	100	70	35	5
07	600	100	70	35	5
08	710	100	70	35	5
09	800	130	80	45	6
10	900	130	80	45	6
11	1000	130	90	60	6



Other Products



Pneumatic Actuators

(Rotary & Linear types)



Electrical Actuators

(Rotary & Linear types)



Hydraulic Actuators

(Rotary & Linear types)

Susin Group Global Presence



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