



INNOBIZ



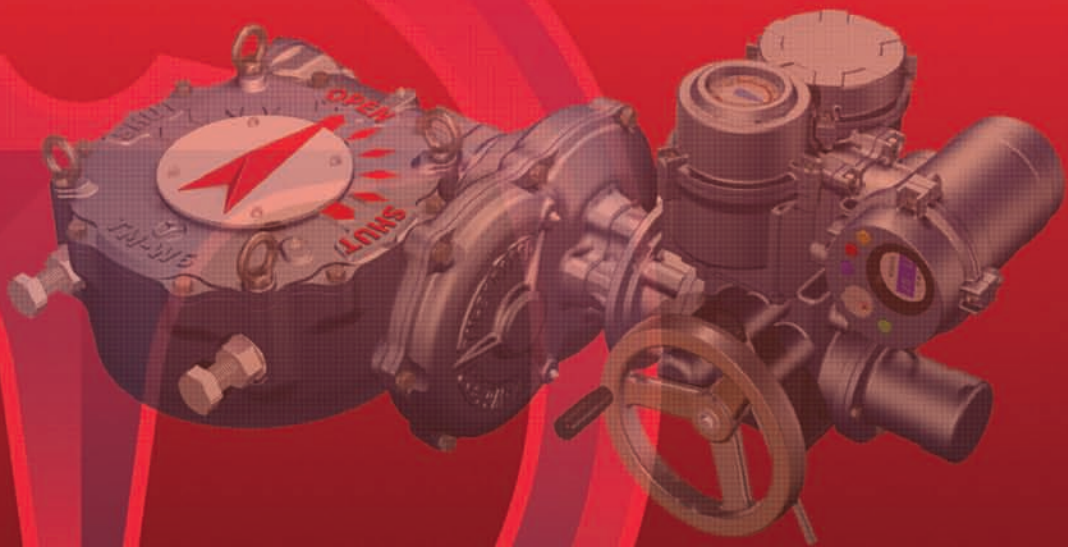
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TMG KOREA Gear Actuators



TMG KOREA

WORM GEAR ACTUATORS / BEVEL GEAR ACTUATORS



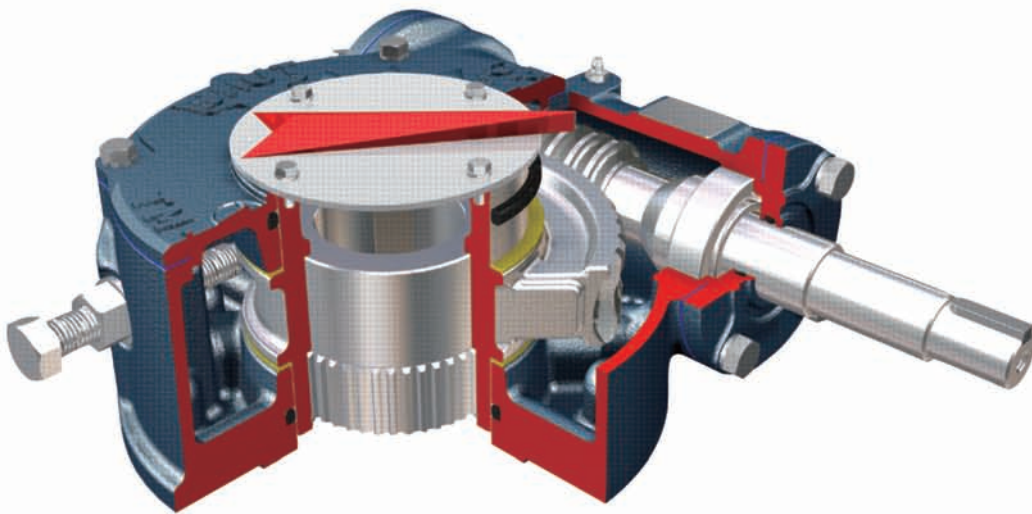
[주]티엠지 코리아

WORM GEAR ACTUATORS

For Ball, Butterfly Valve Etc.

TMG Worm Gear Series

Torque Range 321 Nm to 919,951 Nm. (237 Ft-lbs to 671,883 Ft-lbs)
 Good Advantages with High Efficiency.
 Built-in 90°, 180° and 360° Flexibility.
 Stable Self-Locking Design.
 Superior Gear Contact Ratio.
 Direct Mounting—freely changeable Bushing Direction.



Completely weatherproof to IP 67,68.
 *IP 67—Can be submerged in water during short period of time.



[WORM GEAR GENERAL]



[WORM GEAR + SPUR]



[WORM GEAR + BEVEL]



[WORM GEAR + FLANGE]



[WORM GEAR + WORM]



[DECLUTCH]

TMG PHOTOGRAPH VIEW



[WORM LOCKING DEVICE]

[WORM + M.O.V FLANGE]

[WORM + SPUR]

[WORM + SPUR DOUBLE]



[DECLUTCH FOR PNEUMATIC]

[DECLUTCH FOR PNEUMATIC + SPUR DOUBLE]

[DECLUTCH]

[DECLUTCH + SPUR + BEVEL]



[BEVEL GENERAL]

[BEVEL POSITION INDICATOR]

[BEVEL + SPUR DOUBLE + M.O.V FLANGE]

[BEVEL HEAVY DUTY]

SPECIAL & ORDERMADE



[DECLUTCHABLE WINCH]

[DUAL WORM GEAR]

[MITER GEAR]

[SPUR GEAR + M.O.V FLANGE]

WORM GEAR CONSTRUCTION



MATERIALS OF CONSTRUCTION

DESCRIPTION	MATERIAL			REMARK
	NAME	JIS	ASTM	
Housing	Ductile Iron	FCD-450	A536-65-45-12	
Cover	Ductile Iron	FCD-450	A536-65-45-12	
Worm	Alloy Steel	SCM-440	A322-4140	or Forging
Worm Wheel	Ductile Iron	FCD-600	A536-80-55-06	
Stem Bush	Ductile Iron	FCD-450	A536-65-45-12	
Front Cap	Carbon Steel	S45C	A576-1045	
End Cap	Carbon Steel	S45C	A576-1045	
Indicator Plate	Carbon Steel	S20C + Zn	A576-1020	
Thrust Washer	Carbon Steel	SS41	A283 GR. D	
Fixing Ring	Special Steel	SK5	W1-8	
Taper Roll Bearing	Special Steel	SLU2	A295-52100	
Grease Fitting	Carbon Steel	S20C + Zn	A576-1020	
Key	Carbon Steel	S45C	A576-1045	
O-Ring	Buna N		NBR	
Gasket		Non-asbestos		
HEX Nut	Alloy Steel	SCM440	A322-4140	
HEX Bolt	Alloy Steel	SCM440	A322-4140	

BASIC OPTION

MAIN CASTING : HOUSING, COVER, CAP AS STAINLESS STEEL (SUS304 OR 316) OR SC480.

WORM GEAR : ALUMINIUM BRONZE (ALBC3)

WORM SHAFT : ELECTRO, GAVANIZED COATING, NICKEL PLATING, COLORING AND ANODIZING.

O-RING SEALING : VITON O-RING V75 GRADE

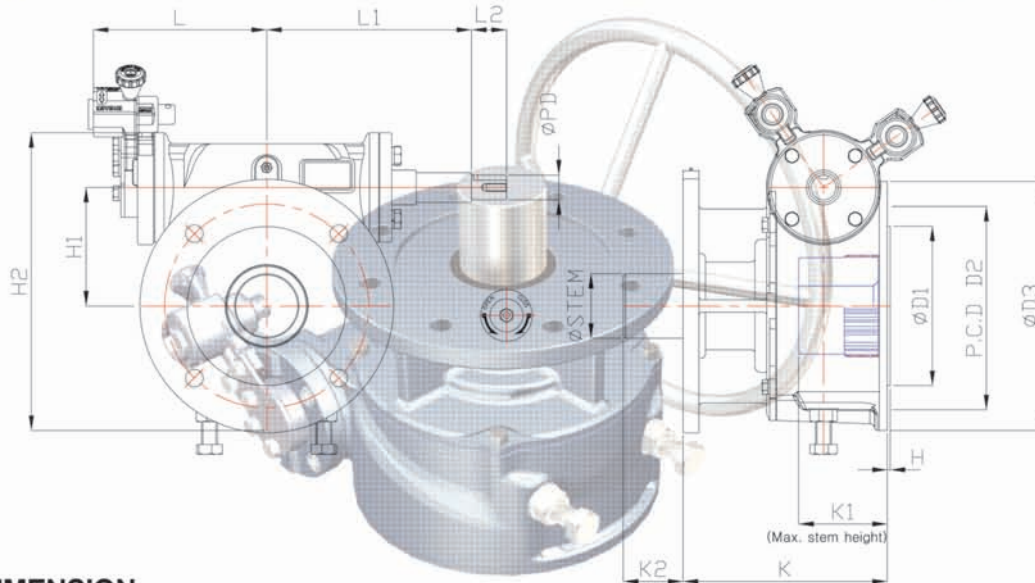
HANDLE WHEEL : SUS304 OR 316 FABRICATED H/W UPON CUSTOMER REQUEST

TMG STANDARD GEARS ARE CLASSIFIED FOR NORMAL GROUND SERVICE.

SPECIAL SPECIFICATION DICTATE THAT CHANGES BE MADE IN OUR STANDARD PRODUCTS TO MEET THE INTENDED APPLICATION.

PLEASE CONTACT US, IF YOU CONSIDER ANY APPLICATION.

DECLUTCH GEAR (FOR PNEUMATIC ACTUATOR)



DIMENSION

(Unit : mm)

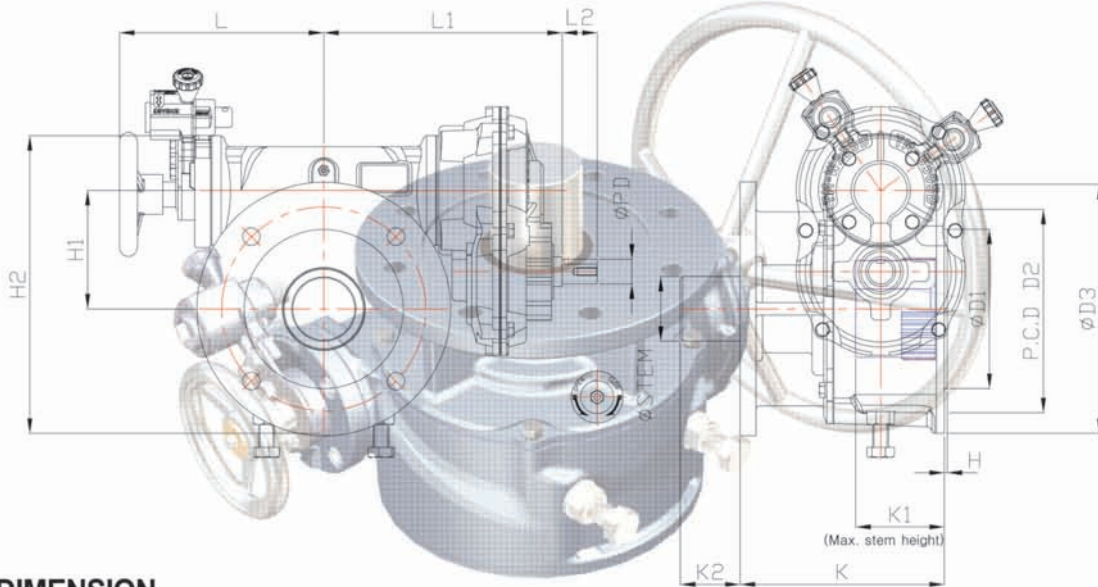
DIM MODEL	TYPE	FLANGE	BASE PART					EXTERNAL PART					INPUT SHAFT PART			HANDLE WHEEL			
			ØD1	ØD2	P.C.D. N-Ø DP	ØD3	H	H1	H2	K	K1	K2	K3	L	L1	L2	ØPD	KEY	ØM
TM-W10DCM	A	F-07	55	70	4-M8-13	90	2	44	126.4	115.5	37	25	162	110.5	106	35	16	5×5	160
TM-W5DCM		F-10	70	102	4-M10-15	125	2	54.5	152	121	56.5	50	185	121.5	115	35	16	5×5	250
TM-W00DCM		F-12	85	125	4-M12-20	150	2	64.5	182	162	64	50	233	134.5	138	35	20	6×6	300
TM-W1DCM		F-14	100	140	4-M16-26	175	2	79	209	174	67.5	50	280.5	142	160.5	35	20	6×6	400
TM-W2DCM		F-16	130	165	4-M20-25	210	2	94.5	254.5	199	76.5	80	337.2	161.5	197.2	35	25	8×7	500
TM-W3DCM	B	F-20	160	205	8-M16-26	255	2	119	299	205	89	80	377.2	174	207.2	35	25	8×7	560
TM-W35DCM		F-20	160	205	8-M16-26	255	2	127	315	223.8	99	80	377.2	174	207.2	35	25	8×7	560
TM-W4DCM		F-25	200	254	8-M16-26	300	3	144.5	364.5	248	101	100	401	201.5	231	35	30	10×8	630
TM-W5DCM		F-30	230	298	8-M20-35	350	3	184.5	434.5	267	125	130	434.5	236	244.5	35	30	10×8	710
TM-W55DCM		F-30	230	298	8-M20-35	350	3	205	563.5	281	135	130	493	241.5	303	35	30	10×8	710
TM-W6DCM		F-35	260	356	8-M30-35	415	4	230	533.5	301	151	160	517	245.5	307	45	40	12×8	800
TM-W7DCM		F-40	300	406	8-M36-50	475	4	280.5	635	359	172	170	550	278.5	320	45	40	12×8	900
TM-W75DCM		F-48	370	483	12-M36-50 C	560	4	307	688	373	200	170	585	359.5	355	45	40	12×8	1,000
TM-W8DCM	F-48	370	483	12-M36-50	560	4	339.5	785	424	233	170	621.5	396	391.5	45	40	12×8	1,000	

The specification and image of these products can be changed without prior notice.

SPECIFICATION FOR 1/4 TURN WORM GEAR

DIM MODEL	GEAR RATIO	Allowable MAX. Stem	Mount Pattern		MAX. Torque Capacity		WEIGHT Kg
			Standard	Option	N. m	Lbf - ft	
TM-W1DCM	32 : 1	Ø20 (6×6)	F - 07	F - 05	294.7	217.4	8
TM-W5DCM	32 : 1	Ø28 (8×7)	F - 10	F - 07	557.7	411.3	11
TM-W00DCM	36 : 1	Ø35 (10×8)	F - 12	F - 10	788.8	581.8	15
TM-W1DCM	38 : 1	Ø50 (14×9)	F - 14	F - 12	1,479.2	1,091.0	18
TM-W2DCM	41 : 1	Ø65 (18×11)	F - 16	F - 14	2,784.4	2,053.7	30
TM-W3DCM	47 : 1	Ø75 (20×12)	F - 20	F - 16	4,856.2	3,581.7	39
TM-W35DCM	52 : 1	Ø80 (22×14)	F - 20	F - 16	5,832.7	4,302.0	57
TM-W4DCM	54 : 1	Ø95 (25×14)	F - 25	F - 20	8,041.1	5,930.8	77
TM-W5DCM	58 : 1	Ø115 (32×18)	F - 30	F - 25	16,649.8	12,280.3	103
TM-W55DCM	60 : 1	Ø125 (32×18)	F - 30	F - 25	23,276.0	17,167.5	152
TM-W6DCM	62 : 1	Ø140 (36×20)	F - 35	F - 30	27,185.6	20,051.1	190
TM-W7DCM	66 : 1	Ø180 (45×25)	F - 40	F - 35	43,875.1	32,360.6	298
TM-W75DCM	56 : 1	Ø210 (50×28)	F - 48	F - 40	69,274.2	51,094.0	442
TM-W8DCM	56 : 1	Ø225 (50×28)	F - 48	F - 40	92,838.1	68,473.9	570

DECLUTCH GEAR + SPUR (FOR PNEUMATIC ACTUATOR)



DIMENSION

(Unit : mm)

DIM MODEL	TYPE	FLANGE	ØD1	BASE PART				EXTERNAL PART						INPUT SHAFT PART		HANDLE WHEEL ØM			
				ØD2	P.C.D. N-H-DP	ØD3	H	H1	H2	K	K1	K2	K3	L	L1		L2	ØPD	KEY
TM-W0SDCM	A	F-12	85	125	4-M12-20	150	2	64.5	182	162	64	50	233	171	138	35	20	6×6	300
TM-W1SDCM		F-14	100	140	4-M16-26	175	2	79	209	174	67.5	50	280.5	178.5	160.5	35	20	6×6	400
TM-W2SDCM		F-16	130	165	4-M20-25	210	2	94.5	254.5	199	76.5	80	337.2	198	197.2	35	25	8×7	500
TM-W3SDCM	B	F-20	160	205	8-M16-26	255	2	119	299	205	89	80	377.2	210.5	207.2	35	25	8×7	560
TM-W35SDCM		F-20	160	205	8-M16-26	255	2	127	315	223.8	99	80	377.2	210.5	207.2	35	25	8×7	560
TM-W4SDCM		F-25	200	254	8-M16-26	300	3	144.5	364.5	248	101	100	401	238	231	35	30	10×8	630
TM-W5SDCM		F-30	230	298	8-M20-35	350	3	184.5	434.5	267	125	130	434.5	272.5	244.5	35	30	10×8	710
TM-W55SDCM		F-30	230	298	8-M20-35	350	3	205	563.5	281	135	130	493	278	303	35	30	10×8	710
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TM-W7SDCM		F-40	300	406	8-M36-50	475	4	280.5	635	359	172	170	550	315	320	45	40	12×8	900
TM-W75SDCM	C	F-48	370	483	12-M36-50	560	4	307	688	373	200	170	585	396	355	45	40	12×8	1,000
TM-W8SDCM		F-48	370	483	12-M36-50	560	4	339.5	785	424	233	170	621.5	432.5	391.5	45	40	12×8	1,000

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			Standard	Option	N · m	Lbf · ft	
TM-W0SDCM	64 : 1	Ø35 (10×8)	F - 12	F - 10	788.8	581.8	19
TM-W1SDCM	67.56 : 1	Ø50 (14×9)	F - 14	F - 12	1,479.2	1,091.0	22
TM-W2SDCM	86.32 : 1	Ø65 (18×11)	F - 16	F - 14	2,784.4	2,053.7	36
TM-W3SDCM	98.95 : 1	Ø75 (20×12)	F - 20	F - 16	4,856.2	3,581.7	45
TM-W35SDCM	109.47 : 1	Ø80 (22×14)	F - 20	F - 16	5,832.7	4,302.0	63
TM-W4SDCM	147 : 1	Ø95 (25×14)	F - 25	F - 20	8,041.1	5,930.8	91
TM-W5SDCM	151.44 : 1	Ø115 (32×18)	F - 30	F - 25	16,649.8	12,280.3	117
TM-W55SDCM	216.67 : 1	Ø125 (32×18)	F - 30	F - 25	23,276.0	17,167.5	177
TM-W6SDCM	223.89 : 1	Ø140 (36×20)	F - 35	F - 30	27,185.6	20,051.1	215
TM-W7SDCM	234.67 : 1	Ø180 (45×25)	F - 40	F - 35	43,875.1	32,360.6	324
TM-W75SDCM	258.22 : 1	Ø210 (50×28)	F - 48	F - 40	69,274.2	51,094.0	482
TM-W8SDCM	258.22 : 1	Ø225 (50×28)	F - 48	F - 40	92,838.1	68,473.9	610