

What MaxTorque IS

Stronger • Smaller • Faster • Better

MaxTorque Application Overview

- High performance, severe service valves
 - Torques to 1,000,000 FT/LBS
 - Fast Close – <60 seconds on 350,000 ft/lbs with standard actuators
 - Cleaner, less expensive option to Electro Hydraulic solutions
- Large butterfly & ball valves
 - Torques to 1,000,000 FT/LBS +
 - Significantly less backlash
 - Smaller actuator / same performance
- High torque / high thrust multi-turn applications (Y-pattern globe & gates)
 - Up to 70% base efficiency competitive in smaller less expensive packages where torque is 9,000 ft/lbs+
 - Thrust bases available to 2,000,000 lbs+
 - Temperature compensation
- Marine / sub sea service
 - Hyperbaric testing to 10,000 ft
 - Stainless / chrome hardware / shafts / housing (if necessary)
 - IP 67/68
 - ROV interface and indicator / feelicators
 - Buckets / panels
- Extreme temperature / environment
 - - 60°C - 235°C +
 - K-mass available

Values with “+” indicate current design limits. Higher capabilities may be engineered.

Unique Applications

- River / Sluice Gates
- Buried service
- De-clutch and partial stroke to 450,000 ft/lbs
- Remote / DC service (limited power availability)
- High cycle / high precision process control
- Custom engineered solutions
- Low volume, unique applications
- Specialty government work



Performance Gearboxes

- Quick delivery on high performance gears; high torque / fast close
- Reduce turns to close by up to 75%
- Base efficiency of up to 70% yet still “self-locking”
- Greatly improved torque capability and durability with significantly reduced backlash
- Rigorously tested and qualified – AWWA C504 & C540 Compliant
- Quick and easy direct mount capability
- Custom solution

MaxTorque

What MaxTorque IS NOT

- Commodity, “price point” solution
- Competitor for “basic” gear box solutions



MW3 Unit on Test Stand

www.maxtorquegears.com

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REV. 2

APRIL 1, 2005

**PERFORMANCE SPECIFICATIONS
MODERATE SERVICE FACTOR <10,000 LIFE CYCLES**

Unit	Model	In-Lbs	Ft-Lbs	Max Base Ratio	Max Standard Bore	Max Standard Key	Stem Engage
LW SERIES	LW1	20,000	1,667	9.30	2.5"	3/4" x 1/2"	3 1/4"
	LW2	40,000	3,333	18.30	3"	3/4" x 1/2"	4"
	LW3	80,000	6,667	25.30	4"	1" x 3/4"	5 3/8"
BW SERIES	BW1	160,000	13,333	20.25	5 1/2"	1 1/2" x 1"	7 1/2"
	BW2	320,000	26,667	18.75	6 1/2"	1 1/2" x 1"	8 3/8"
	BW3	480,000	40,000	22.75	9"	1" x 1 1/2"	9 1/2"
	BW4	800,000	66,667	28.25	9"	2" x 1 1/2"	10 1/4"
MW SERIES	MW1	1,200,000	100,000	21.75	10"	1 1/2" x 2"	15 3/4"
	MW2	1,800,000	150,000	27.25	10"	2 1/2" x 2"	15 3/4"
	MW3	2,400,000	200,000	30.75	10"	2 1/2" x 2"	15 3/4"
	MW4	3,000,000	250,000	37.75	10"	2 1/2" x 2"	15 3/4"
	MW5	3,600,000	300,000	42.75	10"	2 1/2" x 2"	15 3/4"
	MW9	7,200,000	600,000	35.25	12"	2 1/2" x 2"	15 3/4"
	MW14	11,199,996	933,333	43.75	14"	3 1/2" x 2"	16 3/4"

* Low service / Manual ratings (< 1,000 life cycles) are approximately 120% of moderate factor.

* Multiple spur options available. Visit www.maxtorquegears.com for details. Spur options for LW + BW series include BS3, AX2.7 through AX12.6". Spur options for MW series include WGR20.25, and HSS4-10, AX series spurs may be added to WGR 20.25 for additional ratio.



Double Enveloping Gear Set

How do YOU get it?

- We partner with you to quote jobs / projects on an individual basis.
- We partner with you and your end customers to design custom solutions
- Contact Patrick or Tom West at:
+1-207-793-2289
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- For more information, please visit www.maxtorquegears.com

- 1) MaxTorque, LLC reserves the right to modify or update technical data at any time. Please consult www.maxtorquegears.com for the most current specifications.
- 2) Efficiencies are based on dynamic performance after a reasonable break-in period.
- 3) Self locking characteristics are similar to those of other self-locking worm gearboxes. Specific environmental conditions such as high vibration may adversely affect self locking characteristics. If locking is required in this or other conditions, a separate brake should be utilized.

