



TWCG
a **DOVER** company

INFRASTRUCTURE



Building reputations

THE POWER TO PUSH, PULL, LIFT, ROTATE, AND RAISE YOUR BOTTOM LINE

Tough jobs demand the power and reliability of today's most advanced equipment and technology. Reputations depend on it. And nowhere is quality and performance more important than in the infrastructure sector—where workers need to rely on their equipment to do the job, day in and day out.

TWG is an operating company of the Dover Corporation—a global manufacturer employing more than 29,000 people and with annual revenues over \$7 billion. We are a leading manufacturer of winches, hoists, slewing ring bearings, swing drives, electronic monitoring systems, and more. In addition, TWG offers a vast range of essential parts and products across seven model lines: DP Winch, Gear Products, Greer, LANTEC, Pullmaster, Tulsa Winch, and RUFNEK—with over one million units installed.

Known around the world for their superior quality, innovative design, and unmatched reliability, our products deliver powerful, state-of-the-art performance to ensure each and every job gets done more efficiently.

Transforming the way you work

INNOVATIVE SOLUTIONS THAT CHANGE WHAT IS POSSIBLE

It's the end of business as usual. At TWG, we develop the tools, technology, and equipment to take on increasingly complex industry problems, helping you transform your work process and environment. Our integrated systems connect industrial equipment, analyze data, and deliver real-time insights that reduce downtime and improve productivity.

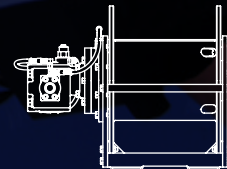
TWG solutions unleash new levels of performance by combining Artificial Intelligence and the Industrial Internet of Things. Operators and managers have the power to interact with our desktop dashboard via our web portal or mobile app with voice recognition software. Instant technical support and troubleshooting help is available 24/7—providing immediate access to the information you need when you need it, including over 10,000 documents.

Real-time information from up to 500+ sensors with features such as live video streaming, dispatch, fuel taxation, and object detection is available through GSM, satellite, Bluetooth, and Wi-Fi. By incorporating TWG's central hub on your equipment we can cover your entire Ecosystem.





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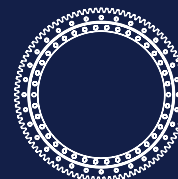
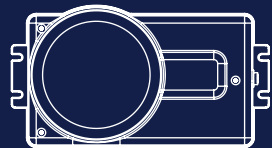
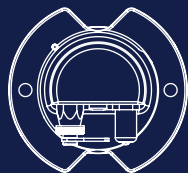
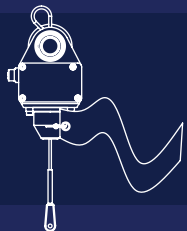


Spirits lifted

INTEGRATED CRANE SOLUTIONS THAT RISE ABOVE THE COMPETITION

Meeting the needs of today's crane manufacturing can be a challenge. With demanding government regulations, rising costs, and compressed timelines, manufacturers need a partner they can trust to deliver reliable, quality parts on time, and on budget. What's more, they need a flexible, innovative partner who understands their business goals and can custom design systems to optimize productivity and performance.

That's where we come in. At TWG, we do more than provide the industry's best selection of hoists, winches, slewing ring bearings, and swing drives. With industry insight, we develop smart interactive solutions—components and electronic monitoring systems that seamlessly communicate with other parts of the machine and operator to provide greater control. These smart, interactive systems streamline your operation and increase efficiency—providing the technology and engineering you need to revolutionize your equipment and maximize ROI.



INDUSTRY-LEADING PERFORMANCE AND RELIABILITY.

HOIST

- 5,000-75,000 lbs (22.2-333.6 kN) line pull
- Smooth or grooved cable drums for wire or synthetic fiber rope
- Static and drum brakes
- Line pull and torque available real time
- Determination of hoist and rope health

LOAD MOMENT INDICATOR

- Multiple language options including Chinese, Spanish, French and Russian
- 2 CAN J1939 displays, a large and small, available
- Fastest calibration time in the industry

ANTI-TWO BLOCK SWITCHES - WIRED OR WIRELESS

- Allows both 360-degree rotation and +/- 22-degree swivel (wired)
- Small footprint with universal mounting adaptor (wired)
- Quick disconnect feature for easy cable replacement (wired)
- Wireless ATB option available as a stand-alone product or integrated with our LMI

DRUM ROTATION/LAST LAYER INDICATOR

- Provides both direction of rotation and speed of cable drum remotely
- Meets OSHA 1926.1416 and 1926.1401 requirements
- Alarms when the minimum number of wraps is exceeded

REELING DRUM

- For boom extensions of 35, 90, 110 and 200 feet (10.6 m, 27.2 m, 33.3 m and 60.5 m)
- Measures boom length and angle
- Carries ATB signals

SWING DRIVE

- Both planetary and worm gear options with torque ratings of 375-45,000 ft-lbs (.04-61 kNm)
- Static and dynamic brakes
- Work area definition and angular rotation feedback options

SLEWING RING BEARING

- Single and double row ball bearings up to 6 feet (1.8 m) diameter
- Bending moment capacity up to 3 million ft-lbs (4 MNm)
- Option for negative internal clearance

INDUSTRY-LEADING PERFORMANCE AND RELIABILITY.

HOIST

- 5,000-15,000 lbs (22.2 - 66.7 kN) line pull planetary
- Smooth or grooved cable drums for wire or synthetic fiber rope
- Static brakes
- Line pull and torque available real time
- Determination of hoist and rope health

ANTI-TWO BLOCK SWITCHES - WIRED OR WIRELESS

- Allows both 360-degree rotation and +/- 22-degree swivel (wired)
- Small footprint with universal mounting adaptor (wired)
- Quick disconnect feature for easy cable replacement (wired)
- Wireless ATB option available as a stand-alone product or integrated with our LMI

REELING DRUM

- For boom extensions of 35, 90, 110 and 200 feet (10.6 m, 27.2 m, 33.3 m and 60.5 m)
- Measures boom length and angle
- Carries ATB signals

ROTATOR

- Worm gear driven for smooth operation
- Bending moment capacity up to 150,000 ft-lbs (203.4 kNm)
- Optional angular rotation feedback for boom self-storage
- Low backlash for tight rotation

SWING DRIVE

- Both planetary and worm gear options with torque ratings of 375-45,000 ft-lbs (0.5 - 61 kNm)
- Static and dynamic brakes
- Work area definition and angular rotation feedback options

SLEWING RING BEARING

- Single and double row ball bearings up to 6 feet diameter (1.8 m)
- Bending moment capacity up to 3 million ft-lbs (4 MNm)
- Option for negative internal clearance

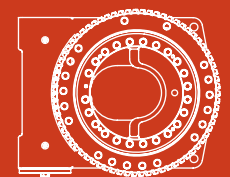
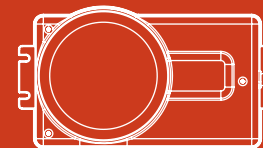
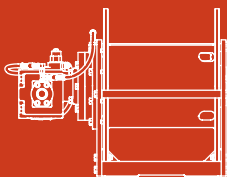
Performance under pressure

TRUCK AND RAIL SOLUTIONS THAT KEEP YOU ON TRACK

Manufacturers of truck and rail machinery know how important it is that customers can rely on their equipment each and every day. Which is why it's essential that manufacturers choose components with a trusted reputation for quality and dependability.

As a global pioneer in engineering and design, TWG has been a key partner to truck and rail manufacturers, providing them with smart, innovative solutions that maximize the power and efficiency of their machines, while minimizing involuntary downtime.

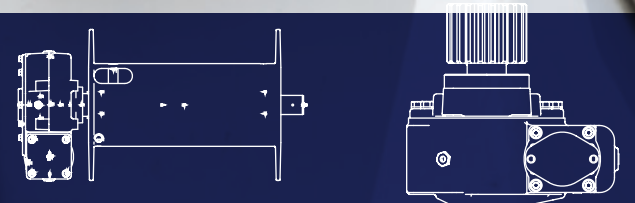
More than just a maker of individual components, we work closely with our customers to develop complete integrated custom solutions for use in deicers, undercutters, rail grinders, roto-dumps, brush cutters, and more. Powered by the latest technology, our interactive electronic monitoring systems work seamlessly with our hoists, rotators, and reeling drums to improve overall safety and extend functionality, such as automatically returning machine booms to their original resting positions. It's these types of insightful solutions that allow operators to work more efficiently and meet critical deadlines.







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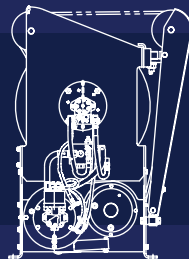
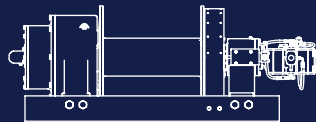
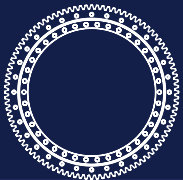
Higher expectations

UTILITY SOLUTIONS THAT TAKE PERFORMANCE TO NEW HEIGHTS

Whether lifting utility workers off the ground or digging holes for electric power lines, utility equipment needs to perform smoothly and reliably while meeting the most stringent regulations and safety requirements.

At TWG, we specialize in working with manufacturers of aerial lifts, work platforms, and digger derricks to create custom integrated solutions that ensure your equipment is up to the highest standards—delivering smooth, precise operation year-round, in all kinds of weather conditions. With our industry-leading product portfolio, we design the best high-efficiency solutions for any need—combining heavy-duty components with advanced technology that optimizes performance and durability. TWG slewing ring bearings and swing drives, for example, work together seamlessly to minimize backlash—improving overall reliability and control for aerial lift operators.

Designed with both the manufacturer and end user in mind, it's our mission to power the utility industry's finest machines—improving your bottom line while helping workers do more in less time.



INDUSTRY-LEADING PERFORMANCE AND RELIABILITY.

HOIST

- 12,000-15,000 lb. (53.3 - 66.72 kN) line pull, worm or planetary
- Smooth or grooved cable drums for wire or synthetic fiber rope
- Static brakes
- Line pull and torque available real time
- Determination of hoist and rope health

SWING DRIVE

- Worm gear driven with torque ratings of 1,000-4,000 ft-lbs (1.3 - 5.4 kNm)
- Static brakes
- Angular rotation feedback option for boom self-storage

SLEWING RING BEARING

- Single and double row ball bearings up to 6 feet diameter
- Bending moment capacity up to 3 million ft-lbs (4 MNm)
- Option for negative internal clearance

RECOVERY/BUMPER WINCH

- Planetary with 8,000-30,000 lbs (35.5 - 133.4 kN) line pull
- Air, hydraulic or manual kick-out
- Fairleads and cable hold down options

TRACTION WINCHES

- Pulling capacities from 7,000 lbs to 25,000 lbs (31.1 to 111.2 kN)
- Ideal for pulling delicate underground fiber-optic cables and hard-to-access overhead lines
- Constant rope speed and constant line pull

CAPSTAN DRIVES

- Output torques from 4,600 in-lbs to 24,000 in-lbs (0.5 to 2.7 kNm)
- Faster line speeds under-load
- Continuous-use duty cycles

INDUSTRY-LEADING PERFORMANCE AND RELIABILITY.

WINCH

- Skidder and logging winches with 40,000 lbs (177.9 kN) line pull
- Engage or disengage cable drum on the fly
- Free spool line pull under 10 lbs (44.48 N)

SLEWING RING BEARING

- Turret and boogie applications
- Special sealing arrangement to protect from contamination
- Single and double row ball bearings

RECOVERY WINCH

- Planetary with 8,000-30,000 lbs (35.5 - 133.4 kN) line pull
- Air, hydraulic or manual kick-out
- Fairleads and cable hold down options

HYDRAULIC PUMP DRIVE

- 15 models with multiple gear ratios
- Up to 1,200 HP (894 kW) and 8 pump pads to SAE standards
- Multiple input options including a torsional coupling

TRACTION WINCHES

- Pulling capacities from 7,000 lbs to 25,000 lbs (31.1 to 111.2 kN)
- Constant rope speed and constant line pull

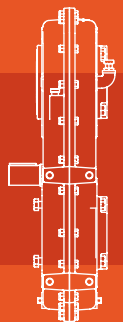
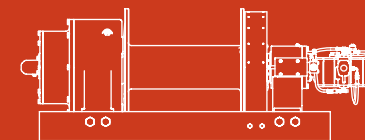
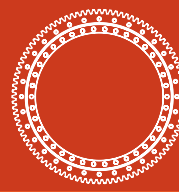
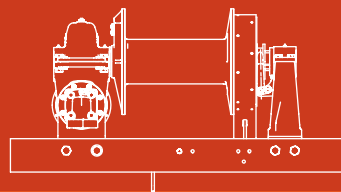
Cutting-edge confidence

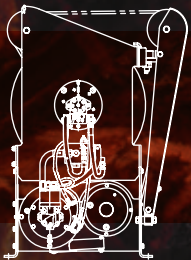
FORESTRY SOLUTIONS THAT DELIVER UNDER ANY CONDITIONS

Tough working conditions demand tough equipment that's up to the challenge. And when it comes to the forestry industry, nobody engineers smart, hard working solutions like TWG.

Whether you're manufacturing skidders, mulchers, feller bunchers, forwarders, or harvesters, TWG component parts and real-time electronic monitoring systems are designed to give you the edge. Built to handle any terrain and weather conditions, our products are the toughest ones you'll ever come across. Which means they not only give you better performance, they also break down less often—so equipment operators can work longer, and forestry companies can meet deadlines and reduce labor costs.

With industry-leading quality, sophisticated technology, and cutting-edge design, TWG provides innovative custom solutions that meet and exceed the high requirements of today's most demanding forestry manufacturers.





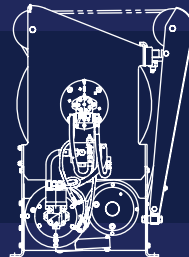
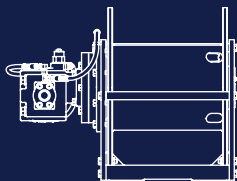
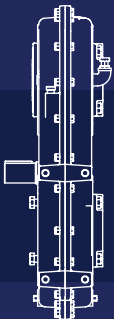


Power unearthed

MINING SOLUTIONS THAT DELIVER SERIOUS RESULTS

When your parts need to perform under pressure, it's time to talk to TWG. As manufacturers of heavy mining machinery know, this is no place for lightweights. Which is why at TWG, we apply 60-plus years of experience and the highest industry standards to every product we make. Fueled by quality materials and breakthrough innovation, our components are built tough enough to handle any job and to deliver long-lasting, reliable performance day in and day out.

Found in machines like blast hole drills, rock crushers, and rock breakers, our durable, quality products perform key functions for the mining industry's most essential equipment. However, toughness is just one part of the equation. With a focus on advanced technology and custom integrated solutions, we work closely with our customers to design optimal working systems. Pairing our products with electronic monitoring equipment creates a new level of performance—an interactive Ecosystem—allowing operators to predict machine health, reduce unwanted downtime, and improve efficiency.



INDUSTRY-LEADING PERFORMANCE AND RELIABILITY.

HYDRAULIC PUMP DRIVE

- 15 models with multiple gear ratios
- Up to 1,200 HP (894 kW) and 8 pump pads to SAE standards
- Multiple input options including a torsional coupling

HOIST

- Up to 75,000 lbs (333.6 kN) line pull planetary
- Smooth or grooved cable drums for wire or synthetic fiber rope
- Rapid reverse option

SERVICE HOIST

- Up to 30,000 lbs (133.4 kN) line pull planetary
- Smooth or grooved cable drums for wire or synthetic fiber rope
- Rapid reverse option

TRACTION WINCHES

- Pulling capacities from 7,000 lbs to 25,000 lbs (31.1 to 111.2 kN)
- Constant rope speed and constant line pull

INDUSTRY-LEADING PERFORMANCE AND RELIABILITY.

HOIST

- Up to 75,000 lbs (333.6 kN) line pull
- Smooth or grooved cable drums for wire or synthetic fiber rope
- Rapid reverse for better efficiency

SERVICE HOIST

- Up to 25,000 lbs (111.2 kN) line pull
- Smooth or grooved cable drums for wire or synthetic fiber rope
- Rapid reverse for better efficiency

SWING DRIVE

- Planetary gearing with torque ratings up to 45,000 ft-lbs (61.02 kNm)
- Ground tooth gearing for smooth high speed operation
- Both rotary and swing applications

SLEWING RING BEARING

- Single and double row ball bearings up to 6 feet (1.8 m) diameter
- Bending moment capacity up to 3 million ft-lbs (4 MNm)
- Option for negative internal clearance

HYDRAULIC PUMP DRIVE

- 15 models with multiple gear ratios
- Up to 1,200 HP (894 kW) and 8 pump pads to SAE standards
- Multiple input options including a torsional coupling

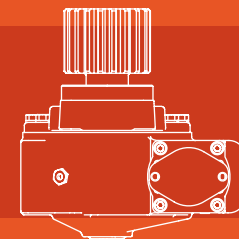
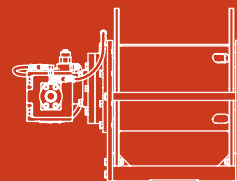
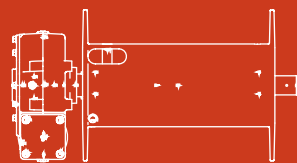
Building on a strong foundation

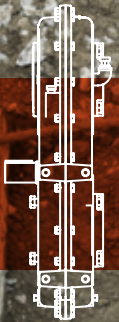
CONSTRUCTION INDUSTRY SOLUTIONS FOR EFFICIENCY & DEPENDABILITY

Construction manufacturers know their machines are only as good as the products that go into them. From foundation drill rigs and excavators, to concrete mixers and tractors, successful manufacturers focus on optimizing their equipment for reliability, safety, and control.

In the construction industry, time is money. Workers need to perform with efficiency to meet critical deadlines. At TWG, we understand these challenges. Our approach is to listen to our customers and develop fully-integrated customized solutions that analyze critical data and provide interactive capabilities that meet their toughest requirements. With a reputation for quality and innovation, our smart solutions combine superior parts with leading-edge technology to deliver better control and better results.

Everything we do at TWG is designed with the operator in mind—improving their ability to do their job dependably. For example, our hoists come with controlled free-fall and rapid reverse capabilities for smoother, more efficient drill operation. It's these kinds of technologies that we're continually developing at TWG—so you get forward-thinking customized solutions that maximize productivity while reducing unwanted downtime.





New horizons

With a proud legacy behind us, we're taking bold steps toward the future—embracing change with disruptive technology that provides interactive smart solutions and expands possibilities.

Nimble and forward thinking, TWG is the innovative partner you need to optimize efficiency, reduce waste, and revolutionize your product lines. Our customizable solutions give you a competitive advantage by unleashing new levels of performance and interactivity—leveraging advanced Artificial Intelligence and the Industrial Internet of Things.

Our customer-focused team of application experts approaches your business needs with a solutions-driven mindset. When you work with TWG and Dover Corporation, you're partnering with companies that have a strong global footprint and are committed to providing insightful solutions to our partners. Together, the sky is the limit.



OUR MODEL LINES

TWG has plants located in Jenks, OK, USA and Surrey, BC, Canada. We are comprised of seven model lines that specialize in industry specific products.

DP Winch: hydraulic winches for commercial and government equipment serving the towing and recovery markets

Gear Products: planetary and worm gear winches, swing drives, slewing ring bearings, hydraulic pump drives, and rotators for trucks, cranes, and heavy equipment serving the utility, construction, forestry, marine, and mining markets

Greer: load moment indicators, anti-two block systems, angular rotation feedback, and drum rotation indicators for lattice and telescopic boom cranes

LANTEC: hydraulic winches, hoists, and gear reducers

Pullmaster: planetary winches for commercial fishing boats, caisson drilling equipment, pipe layers, tractor/skidlers, and dredges

Tulsa Winch: planetary and worm gear winches and swing drives for large oilfield trucks, heavy haul tractor packages, digger derricks, cranes, and aerial work platforms

RUFNEK: planetary and worm gear winches for oilfield equipment



LANTEC®

Pull*MASTER

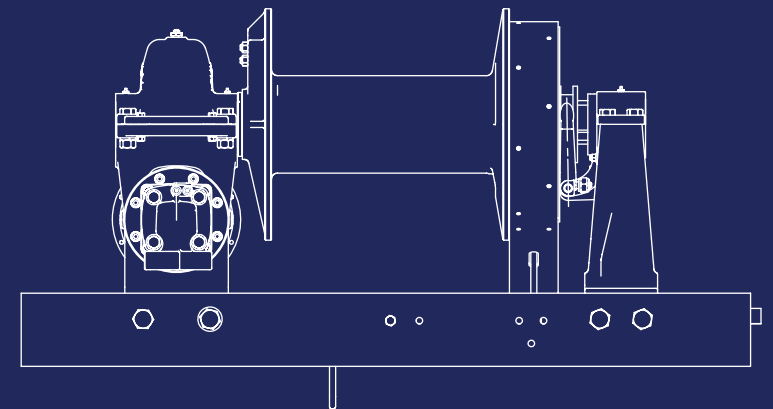


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Product options

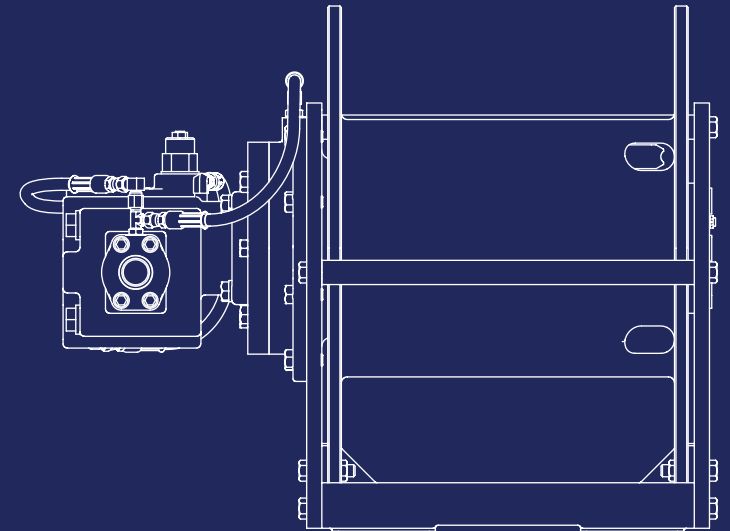
WINCHES

	OPTION	LINE PULL (k LBS)	LINE PULL (kN)
PLANETARY	Single drive	1k to 200k	4.4 to 889.6 kN
	Dual drive	35k to 300k	155.6 to 1334.4 kN
	Free spool - manual	3k to 45k	13.3 to 200.1 kN
	Free spool - pneumatic/hydraulic	3k to 130k	13.3 to 578.2 kN
	Cable hold down - spring	3k to 15k	13.3 to 66.7 kN
	Cable hold down - pneumatic	25k to 100k	111.2 to 444.8 kN
	Drum pressure roller	1k to 300k	4.4 to 1334.4 kN
	Ratchet & pawl	12k to 300k	53.3 to 1334.4 kN
	Drum band brake	12k to 300k	53.3 to 1334.4 kN
	Controlled free fall	2k to 50k	8.8 to 222.4 kN
	Rapid reverse	4k to 85k	17.7 to 378.0 kN
	Fairlead	3k to 45k	13.3 to 200.1 kN
	Capstan head	8k to 30k	35.5 to 133.4 kN
	Bumper package	8k to 30k	35.5 to 133.4 kN
	Traction	7k to 35k	31.1 to 155.6 kN
WORM	Mechanical input	10k to 130k	44.4 to 578.2 kN
	Hydraulic input	10k to 130k	44.4 to 578.2 kN
	Adjustable worm brake	10k to 130k	44.4 to 578.2 kN
	Kickout - manual	10k to 130k	44.4 to 578.2 kN
	Kickout - pneumatic/hydraulic	10k to 130k	44.4 to 578.2 kN
	Drum band brake	10k to 130k	44.4 to 578.2 kN



HOISTS

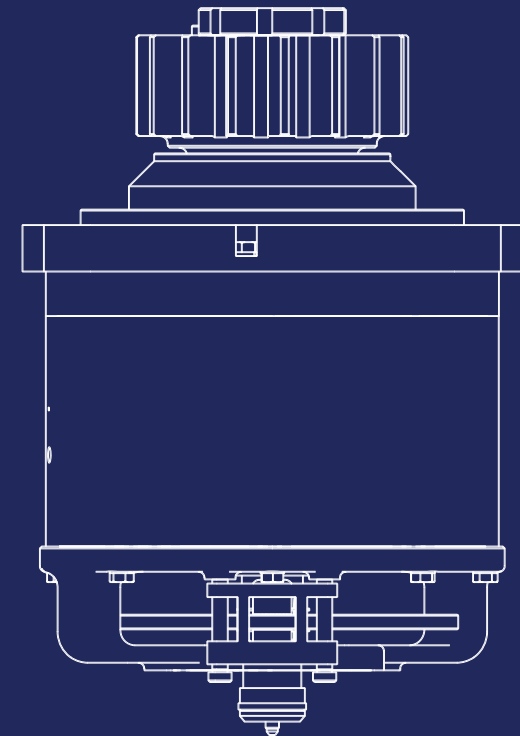
	OPTION	LINE PULL (k LBS)	LINE PULL (kN)
PLANETARY	Single drive	1k to 75k	4.4 to 333.6 kN
	Dual drive	20k to 70k	88.9 to 311.3 kN
	Free spool	3k to 50k	13.3 to 222.4 kN
	Drum pressure roller	5k to 70k	53.3 to 311.3 kN
	Ratchet & pawl	12k to 70k	53.3 to 311.3 kN
	Drum band brake	12k to 70k	53.3 to 311.3 kN
	Controlled free fall	2k to 50k	8.8 to 222.4 kN
	Rapid reverse	4k to 50k	17.7 to 222.4 kN
WORM	Hydraulic input	5k to 20k	22.2 to 88.9 kN
	Adjustable worm brake	5k to 20k	22.2 to 88.9 kN



Product options

SWING DRIVES

	OPTION	CONTINUOUS OUTPUT (k IN-LBS)	CONTINUOUS OUTPUT (kNm)
PLANETARY	Static brake	15k to 540k	1.7 to 61 kNm
	Dynamic brake	20k to 125k	2.3 to 14.1 kNm
	Gear ratio 6 to 8	15k to 40k	1.7 to 4.5 kNm
	Gear ratio 15 to 27	15k to 40k	1.7 to 4.5 kNm
	Gear ratio 35 to 41	15k to 65k	1.7 to 7.3 kNm
	Gear ratio 42 to 51	15k to 125k	1.7 to 14.1 kNm
	Gear ratio 64 to 71	15k to 195k	1.7 to 22 kNm
	Gear ratio 135 to 140	539k	61 kNm
	Square mounting flange	15k to 52k	1.7 to 5.9 kNm
	Rectangular mounting flange	30k to 125k	3.4 to 14.1 kNm
Round mounting flange	40k to 539k	4.5 to 61 kNm	
WORM	Eccentric ring	15k to 125k	1.7 to 14.1 kNm
	Static brake	3k to 220k	0.3 to 24.9 kNm
	Gear ratio 10 to 15 (backdrivable)	30k to 40k	3.4 to 4.5 kNm
	Gear ratio 30 to 54	3k to 220k	0.3 to 24.9 kNm
	Flange mount	10k to 36k	1.1 to 4 kNm
	Upright mount	15k to 220k	1.7 to 24.9 kNm
	Low mount	3k to 58k	1.1 to 6.5 kNm
Eccentric ring	5k to 40k	0.5 to 4.5 kNm	



ADDITIONAL PRODUCTS AND MONITORING SYSTEMS

SLEWING RING BEARINGS

Up to 6 feet (1.8 m) in outside diameter with bending moment capacities to 3M ft-lbs (4 MNm). Available in single or double row ball and with external or internal gear teeth with an induction hardening option.

ROTATORS

Available up to bending moment capacities of 150k ft-lbs (203.4 kNm) with gear ratios from 35 to 105.

HYDRAULIC PUMP DRIVES

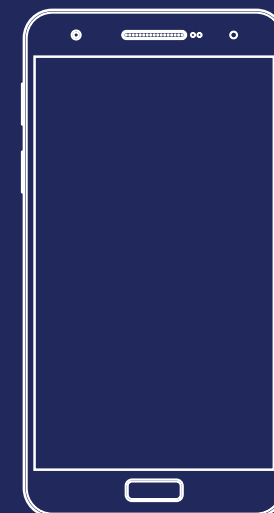
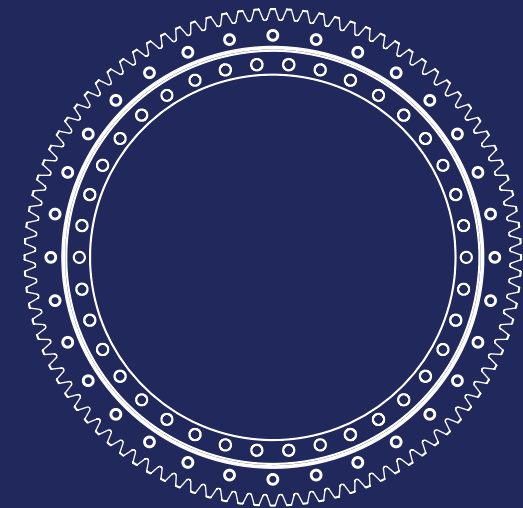
From 1 to 8 pump pads per SAE sizes A through F with maximum input torque capacity to 2500 ft-lbs (3.39 kNm). Input options drive plate, clutch, drive shaft, torsional coupling, gear and rubber block drive per SAE engine adapter sizes 0 through 5.

LOAD MOMENT INDICATORS

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