



TSM AC DRAWWORKS

TSM AC powered drawworks are designed and built for optimum performance and reliability. Our compact, lightweight, and robust designs operate smoothly and efficiently. We select only the best quality components backed with technical support, service, and warranty.

All of our equipment is suitable and adaptable for many rig applications and retrofits.

MAIN FEATURES

- › Torque arm/shrink disc design results in a compact, modular footprint, with minimal sensitive alignments.
- › Gearing quality to AGMA 12 minimum. Designed to AGMA 6010-F97.
- › Gear Drives come with a 5 year warranty.
- › Dynamically Balanced Assemblies provide a smooth vibration free operation.
- › Drawworks ratios are carefully selected to achieve industry standard hook speeds and hook loads.
- › Instrumentation hook-ups to monitor oil temperature, oil flow, and oil pressure.
- › Instrumentation hook-ups to monitor Drum/AC motor speeds and positioning.
- › Rigid base with provision for crane lift and/or rolled ends with bolted feet.
- › Lebus grooved balanced drum with kick-back rollers.
- › Brake systems are sized and selected with a minimum 2.0 service factor for emergency dynamic braking and redundancy.

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Hoisting • Pipe Handling Equipment Systems •
Power Transmission • Drilling Fluid Systems and
Components • Drilling Rig Center Section Structures
• Power Systems



- › Pressure fed and splash filtered lubrication system. Oil flow meter, pressure and temperature sensors, sight glass flow gauges, air/oil radiator, and provision for immersion heater.
- › “No neutral” safety feature on our multi- speed drawworks.
- › Right Angle Gear / Chain Drive designs offer a narrow, lightweight package, and can easily replace a Mechanical or DC driven drawworks footprint.

DESIGN OPTIONS

- › Single Speed or Multi-Speed Designs.
- › Disc-Caliper, Water-Cooled or Air Cooled Disc Style Brakes. (Spring-apply, Hydraulic or Air release Fail-Safe)
- › Right Angle Gear / Chain Drive designs available for tele-double Rigs.
- › Custom Designs and arrangements available upon request.
- › API 7K monogrammed drawworks components with SR2 rating available.

INSTRUMENTATION AND CONTROLS

- › Zone management System
- › Kinetic Energy Monitoring System
- › Self-Diagnostic functions for service and overhaul of main components.
- › Brake monitoring System: Includes brake slip detection, drum creep & drum response detection.

DRAWWORKS PERFORMANCE AND TECHNICAL SPECIFICATIONS

HP Range = 600 HP to 3,600 HP. (Parallel Gear Drives)

HP Range = 600 HP to 1,200 HP. (Right Angle Gear / Chain Drives)

CONTACT TSM FOR MORE DETAILS.

