



TOSHIBA

PIPELINE SOLUTIONS

WHY CHOOSE TOSHIBA'S OIL & GAS SOLUTIONS FOR YOUR PIPELINE APPLICATIONS?

- Houston Plant is Only Location in North America where Medium Voltage Motors & Drives are Manufactured Under One Roof
- Extensive Product Offering Packaged as Complete Solution, Increasing Maximization of System Uptime
- Extensive Experience in North American Pipeline Infrastructure
- Toshiba's Conservative Design Principles are the Cornerstone for Years of Reliable Equipment Operation Essential to the Pipeline Industry
- Experienced Staff with Knowledge of Enhanced Recovery Techniques, Fractionation Processes, & Unconventional Oil & Gas Fields
- Geared Towards End-Users & Cultivating Long-Term Relationships, as well as Servicing the OEM Market
- Solutions Built with Lower System Component Count than Competitors, Leading to Increased Mean Time Between Failures
- Drive & Motor Control Center (MCC) String Testing Come as Standard



T300MVi® MEDIUM VOLTAGE DRIVE

The Largest Air-Cooled Drive Available in the Market with Ratings up to 11,000 HP

- Offers True Soft Start that Eliminates Inrush Current & Provides Variable Voltage & Variable Frequency Output for Process Control
- Incorporates Standard Features that Maximize Uptime & Provide Years of Reliable Operation
- Equipped with Standard Input Disconnect Switch, Enabling Ability to Retrofit into Almost Any Installation Without Need for Additional Equipment & Project Coordination
- Features Latest Multi-Level Pulse Wide Modulation (PWM) with Neutral Point Clamping (NPC) Technology, Allowing for Smaller Footprint, Reduced Component Count, & Lower Costs
- One Single T300MVi Can Manage Multiple Motor Horsepower or RPM Ratings
- No Extensive Tuning or Matched Motors Required
- Fused Transformer Secondaries Included to Eliminate Risk of Transformer Windings Burnout During Power Failure
- All Software & Logic Programming Involving Toshiba's *Sync-Xfer* or Other Complex Control Systems Provided as Standard

MTX® MEDIUM VOLTAGE OUTDOOR DRIVE

The World's First & Only Outdoor-Rated Medium Voltage Drive with Ratings up to 3,000 HP & 4160 V

- Features Advanced UL-Rated Raintight NEMA 3R Enclosure Design & Power Section Topology
- Designed for -25° to 50°C Ambient Temperatures with Direct Rain & Direct Sun (Contact Toshiba for Temperatures Lower than -25°C)
- Specifically Designed for Outdoor Mounting in Remote Applications or Applications Where Building Does Not Exist
- Eliminates Need for Building & HVAC, Saving Time, Money, & Space
- 36-Pulse Design Guarantees IEEE 519 Compliance
- Provides Easy Monitoring & Maintenance through Advanced User Interface Design
- Allows for Standard Motors to be Used in Conjunction with Drive without Special Motor Insulation
- All Software & Logic Programming Involving Toshiba's *Sync-Xfer* or Other Complex Control Systems Provided as Standard



WEATHER PROTECTED TYPE II MOTOR

Toshiba's Most Popular Motor Offering for Pipeline Applications

- Critically Dampened Shaft Designs Allow for Standard Frame Sizes at Competitive Costs on High Speed, High Performance Applications & Eliminate Need to Oversize Motors
- Design Includes Inherently Larger Shaft Diameters than Competitors, Providing Extremely Robust Shafts in Standard Frame Sizes for Reciprocating Compressors
- High Speed Medium Voltage Drive-Duty Designs Suited for Mainline Pumping Applications
- Utilizes Toshiba's Proprietary Core Isolation System that Reduces Vibration to Extremely Low Levels for Lower Maintenance & Higher Reliability
- Patented Spring Support System & Modular Design Further Reduces Vibration Levels & Complements our Medium Voltage Drive Capabilities
- Optimized Rotor Dynamics for Smooth Operation Over a Wide Range of Speeds



THE TOSHIBA OIL & GAS RESUME



ARCTIC

Siberia, Northern US, &
Canada, Including the
Alberta Oil Sands



DESERT

Middle East &
Western Texas



TROPICAL

South America, Mexico,
Central America, &
Pacific Rim



OFFSHORE

Gulf of Mexico &
Persian Gulf

ONE CALL. ONE SOLUTION.

Toshiba International Corporation is proud to be a single-source solution for our customers, offering a complete product lineup of electric motors, adjustable speed drives, and motor starters for your oil and gas applications. Most products are manufactured at our one million square foot manufacturing facility located in Houston, Texas. Our Houston facility has extensive knowledge and experience, offering the following services in-house:

- Research & Development
- Design & Engineering
- Manufacturing
- Sales & Marketing
- Applications Support
- Field Service
- Customer Service & Project Management
- Logistics & Warehousing
- Product Application & Field Service Training



Drive & MCC String Testing

PIPELINE APPLICATIONS

- Compressors (Reciprocating, Centrifugal, Screw-Type)
- Liquid Pumps
- Gas Processing, Gas Storage, Production & Lift Systems
- Midstream & Upstream





With a variety of both North American and international third-party certifications, Toshiba has the products that meet the needs and demands of the global oil and gas market.

- API 541 & 547
- CSA
- UL Listed in US & Canada
- ISO 9001
- ANSI C50.41
- IEEE
- BASEEFA
- SAA



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Leading Innovation >>>