Drilling Equipment

Mechanized Derrickman System



Safer Pipe Handling. Higher Mechanization.

Product range

Mechanized Derrickman System

Keep Your Derrickman Safe. And Your Rig Moving.

The BENTEC Mechanized Derrick System removes the need for intensive manual stand handling at height of the fingerboard, reducing fatigue, improving safety and delivering consistent pipe handling, all without rebuilding your rig.

Applications

- Oil & gas
- Geothermal
- Onshore
- Offshore
- Rig retrofits

Ready for any rig.

- Over 20 years Mechanized Derrickman System experience
- -45°C to +55°C

BENTEC
Bold Engineering+Technology

sales@bentec.com bentec.com

Manual stand handling places significant physical demands on the derrickman

Operators face increasing pressure to:
- Improve personnel safety
- Reduce fatigue during long tripping operations
- Maintain or increase tripping speed
- Upgrade existing rigs without major structural modifications

Manual handling at height increases both operational risk and human error.

- ✓ **Safer pipe handling operations**
- ✓ **Reduced derrickman fatigue**
- ✓ **Consistent or increased tripping performance**
- ✓ **Lower manual handling risk**
- ✓ **Improved crew confidence and retention**



Why BENTEC?

Mechanized Safety Without Rebuilding Your Rig.

Unlike large racking systems that require a new derrick or fingerboard, the BENTEC Mechanized Derrickman System retrofits onto existing racking boards to mechanize stand handling with minimal modification.

Using a remote-controlled trolley and hydraulic tong, the derrickman guides every stand from a safe position rather than physically handling tubulars at height.

Designed to deliver

- ✓ **Improved personnel safety**
  Removes intensive manual stand handling, reducing fatigue, physical strain and exposure to hazards at the fingerboard
- ✓ **Consistent pipe handling**
  Remote-controlled trolley and hydraulic tong deliver repeatable stand positioning for smoother tripping operations
- ✓ **Mechanization without a rig rebuild**
  Retrofits onto existing racking boards with only minor modifications, protecting existing rig investments
- ✓ **Greater operator control**
  A portable belt-mounted joystick allows the derrickman to control stand movements safely from position
- ✓ **Built for extreme environments**
  Designed for reliable operation from -45°C to +55°C across onshore and offshore drilling operations
- ✓ **Low maintenance design**
  Engineered without consumable parts to maximize availability and minimize lifecycle maintenance

Proven performance

- ✓ **Proven on rigs for over 20 years**
- ✓ **Retrofit installation typically completed in around 3 days**
- ✓ **Trusted by global operators and drilling contractors**
- ✓ **CE compliant, with optional ATEX and DNV certification**
- ✓ **Supported by BENTEC rig surveys, commissioning, training and lifecycle support**

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Ready to improve pipe handling safety?
Speak to a BENTEC expert

sales@bentec.com bentec.com

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Mechanized Derrick System

Safer Pipe Handling. More Effective Tripping.



Specifications

Pipe size	2-7/8 in to 6-5/8 in (73 to 168 mm)
Maximum tong load	2 t
Maximum travel	3,470 mm
Maximum trolley speed	0.25 m/s
Operating temperature	-45°C to +55°C
Power supply	400 to 480 V AC | 50/60 Hz
Installed power	7.5 kW
Weight	Approximately 2.7 t
Control	PLC + HMI
Operation	Portable joystick remote
Compliance	CE
Optional certifications	ATEX | DNV

Key features

- Remote-controlled trolley and hydraulic tong
- Retrofit installation on existing racking boards
- Belt-mounted joystick remote
- Hydraulic Power Unit
- PLC and HMI system monitoring
- Hydraulic overload protection
- No consumable parts
- Suitable for onshore and offshore drilling
- Operating temperature -45°C to +55°C

Benefits

The BENTEC Mechanized Derrick System helps to improve rig safety by removing intensive manual stand handling and pinch points at the fingerboard.

Using a remote-controlled trolley and hydraulic tong, it delivers consistent pipe handling while reducing fatigue, manual handling risks and dropped-object exposure.

Designed to retrofit existing racking boards with minimal modification, the Mechanized Derrickman System extends the life of existing rigs while providing reliable, low-maintenance performance in the world's most demanding drilling environments.