



 **MEDATECH**
BORTERRA

RODBOT

THE HYDRAULIC ROBOTIC PIPE HANDLER

SAFETY MEETS PRODUCTIVITY

RodBot™ is a hydraulic robotic rod-handling system designed specifically for the seamless loading and unloading of drill rods and casing. It eliminates the need for manual rod handling, a leading cause of on-the-job injuries, while significantly boosting production times. RodBot can be adapted to a wide range of drilling equipment including drill rigs, pipe tubs and skids.

MEDATech's Borterra drilling division has been developing unique drilling solutions for over 10 years. You'll find our drill rigs, rod-handling systems and associated equipment in mining, construction, oil & gas and other applications across North America.



**SAFE
& FAST**

RodBot eliminates hand-bombing entirely and avoids obstacles, keeping workers out of harm's way while handling sections of pipe up to 12" in diameter and 35' long. Set the drill mast and rod storage positions once, then hit 'repeat'. Just one operator is required.



**USER-FREINDLY
& ADAPTABLE**

RodBot is an easy tool for operators to master thanks to computer-assisted controls with embedded collision-avoidance. Controlling the robotic arm is less difficult than playing most video games.

RodBot makes both new and existing equipment highly efficient. Choose from wired or wireless controls, install yourself or rely on Borterra for customization and integration.



RODBOT

3 MODES OF OPERATION

1 JOINT CONTROL

Use joysticks to move each joint individually

2 TIP CONTROL

Use joysticks to move the gripper in the X, Y, Z axes. Path planning software moves each joint as required

3 SEMI-AUTO CONTROL

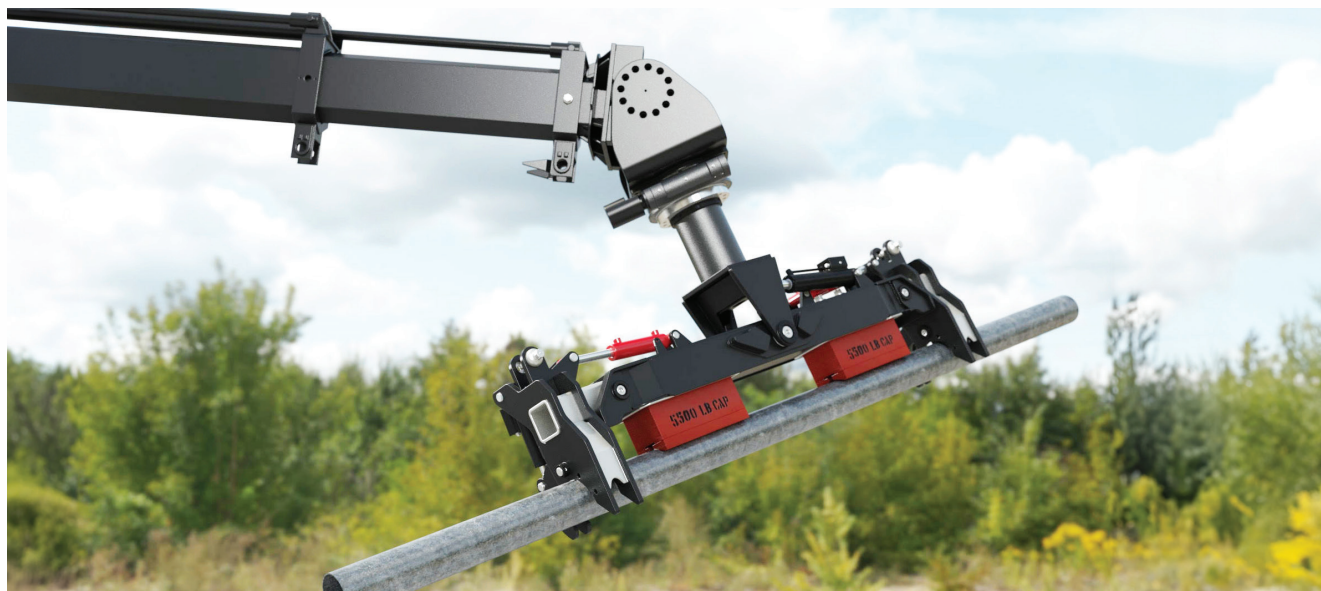
Set points A and B, hit 'go' and the RodBot determines the path between each point using collision avoidance



DESIGNED FOR ALL APPLICATIONS

RodBot is suitable for mining, construction, the oil & gas industry—wherever rod handling is needed. You will find RodBots working in the field around the world, with more being commissioned for a variety of applications all the time.

SPECIFICATION	OPTION 1	OPTION 2	OPTION 3
1 Maximum Load (approximate pipe weight) and Reach	Up to 300 lbs and 15 ft	Up to 800 lbs and 15 ft	up to 1200 lbs and 30 ft
2 Rod Diameter (range)	Small (2.5" to 5" OD)	Medium (3" to 8" OD)	Large (5.5" to 12" OD)
3 Mounting of RodBot	Skid or Pipe Tub	Drill or Truck	Tracks
4 Powerpack	Powered off Drill	Diesel Hydraulic Powerpack	Plug-in Electric with Hydraulic Powerpack





ROBOT RB1000

Max Load/Reach	300 lbs, 15 ft
Diameter	2.5" to 5"
Mounting	Skid
Powerpack	Powered Off Drill

MAJOR Drilling Exclusive exploration drilling partner

ROBOT RB2000

Max Load/Reach	800 lbs, 15 ft
Diameter	3" to 8"
Mounting	Drill
Powerpack	Powered Off Drill



ROBOT RB3000

Max Load/Reach	1200 lbs, 30 ft
Diameter	5.5" to 12"
Mounting	Pipe Tub
Powerpack	Plug-in Electric with Hydraulic Powerpack



UNIQUE DRILLING SOLUTIONS

Borterra develops, services and upgrades the drilling solutions our customers need. RodBot comes in three configurations, but if you need customization, we do that too.

CASE STUDY



BORTERRA WS6000

SITUATION Alabama Power needed a 2-in-1 rig for embankment dam stabilization

SOLUTION WS6000 combines water hammer drilling, sonic drilling, and robotic rod handling

RESULT Fast machine, minimal ground impact, high level of safety

RODBOT RB2000

7" casing, 20' length, 800 lbs



DIRECTIONAL DRILLING

SITUATION The Crossing Group needed to eliminate all manual rod handling from their operation

SOLUTION Borterra RodBot autonomous rod handler system installed on the pipe tub-mounted crane

RESULT High level of safety, faster, fewer personnel needed

RODBOT RB3000

6 5/8" rod, 35' length, 1200 lbs

A PARTNER FOR LIFE


Want a partner for life? MEDATech Borterra designs, builds and delivers what we promise. As a result, we have customer relationships that stretch back 20 years or more. Our satisfied customers include major miners, exploration companies, utilities and construction firms who turn to us when in need of equipment that's faster, safer, and more durable. Functioning as both an integrator and OEM, Borterra is your go-to source for specialty drilling equipment. We also offer drilling consumables and mobile equipment components, from Wassara Water Hammers to EPEC controllers. Our core design objectives include:



 **Enhancing worker safety**

 **Boosting productivity**

 **Improving durability**

 **Maximizing effectiveness through customized solutions**



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