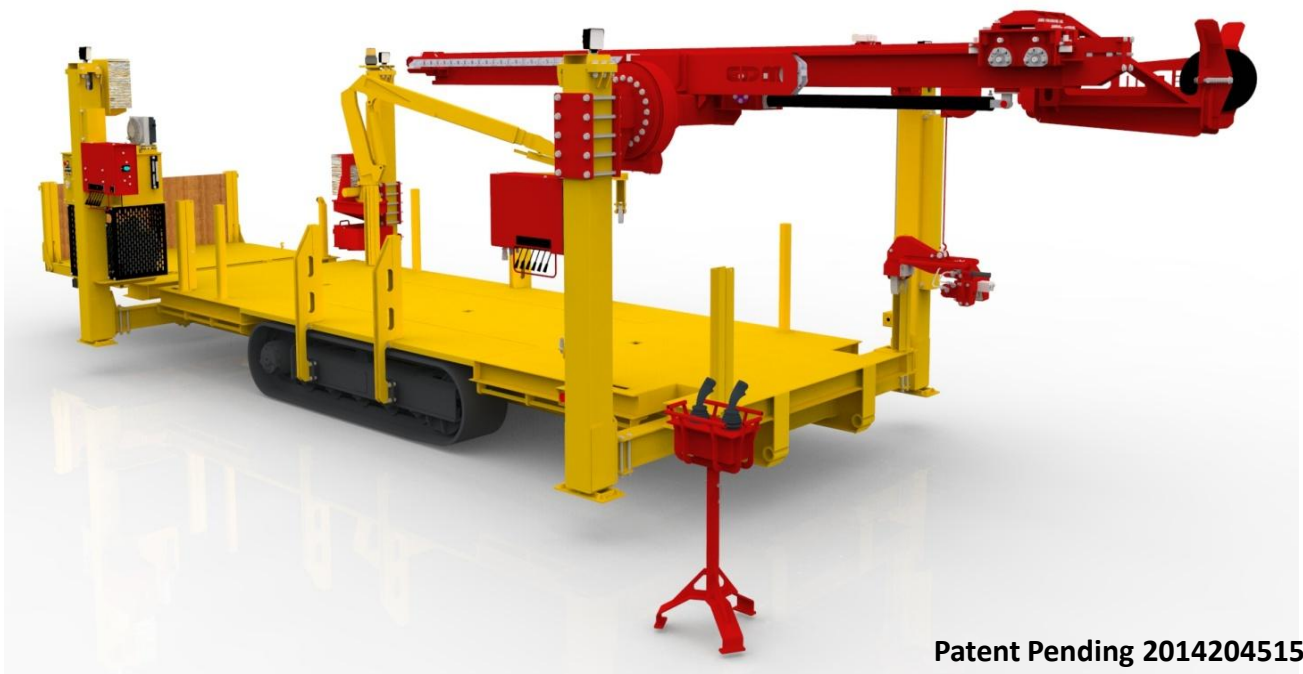




EDM Rod Feeder System.

EDM Diamond Pipe Automated Rod Feeder System
JACKUP PLATFORM / TRACK MOUNTED JACKUP PLATFORM



Patent Pending 2014204515

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Exploration Drill Masters Equipment

EDM Rod Feeder System.

EDM Diamond Pipe Automated Rod feeder System JACKUP PLATFORM/ TRACK MOUNTED JACKUP PLATFORM

INTRODUCTION

Exploration Drill Masters (EDM) is continuously working to improve safety and productivity within the drilling industry. One of the major areas of concern for our clients has been the handling of diamond drill pipe to and from the drill string with the need for less manual handling while still maintaining productivity. With that in mind we present the EDM Rod Feeder System , an independent system that :

- Can work with almost any machine with either Chuck or Top drive and a main winch
- Will safely pull/run rods in both 6 & 9m Lengths
- Works on all mast angles from 45° - 90°
- Will trip rods at equal or better speeds than current manual methods
- Reduces manual handling of drill pipe by 90%
- Requires little to no modification to the drill rig
- Can be supplied with or mounted to a standard Jack Up Rod Platform (Sloop)

Specifications*

Rod Feeder

- Handles all common Diamond pipe B+,N+,H+ & P series casing
- Handles Rod in both 6m and 9m lengths
- Feeder arm Rotates 180° for transport
- Arm hydraulically adjustable in all 3 dimensions
- Haul Plug Spinner consistently Torques Plug to 400Nm
- Hydraulically Powered from Rig auxiliary Hydraulics 20lpm @ 2500psi
- Uses all Sauer Danfoss hydraulic components
- Various control options available :
 - Fixed Control Arm
 - Portable Tripod (5m Range)
 - Remote Control

Rod Platform

- Jack up platform with 15T load Capacity
- Self loading on to truck or track carrier
- Independent hydraulic system
- Can be mounted on low profile tracks for positioning behind drill on small drill pads
- Optional crane for loading/unloading rods or positioning rods on platform. Capacity 350Kg @ 4.2m



Rod Feeder, handles all common Diamond Pipes, B+,N+,H+,P series casing



Plug Spinner, Handheld spinner for torquing and removing Haul Plug from stored rods



Plug Safety, EDM Haul Plug Adaptors are designed to self align with the drill rods meaning no difficulties starting threads



Load Safety, EDM Rod Sloops can be supplied with a crane for hands free loading/unloading and safe handling of rods and tubes . Capacity 350KG @ 4.2m



Rod Platform, EDM Rod Feeders are designed to work on a Jack Up Rod Platform , Our Platforms have the following capacities

EDM Rod Platform Capacity

2500m (B+)
1950m (N+)
1280m (H+)
849m (HWT)

For best performance with an EDM Rod feeder it is preferred that the Drill is equipped with a Rod Spinner

* Specifications subject to change due to continuous product development



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Benefits/Advantages of the EDM Rod Feeder

- Eliminates accidents and injuries associated with manually handling rods to/from the mast to/from rod racks or rod platforms.
- Consistently torques haul plug to rods both removing the need for manual lifting and spinning of the haul plug and ensuring the joint is capable of holding the weight of the drill string
- Reduces operator fatigue
- No loss in productivity and will increase productivity in extreme environments
- Requires no modifications to the drill rig
- Quick and easy alignment with the drill rig as arm can be moved in all 3 dimensions
- Allows quick rig moves as rods and the rod feeder can be moved together
- Able to be used behind all Drills with a Main Winch (Not rig specific)
- Easy to operate and can be used with only one offsider if necessary
- Rod platform can be fitted with a crane completely removing the need for manual handling
- Adjustable platform height ensuring the offsider is always working at the optimum working height
- Independently operated Jacks
- Can handle all common rod sizes B+,N+,H+,P+
- Can handle both 6m and 9m lengths
- Can be used to handle tubes from the mast to the platform
- Works on all mast angles from 45° - 90°

Rod Feeder Options Rod Feeder Only

Can be mounted to an existing Rod Platform (Sloop) – consult us to check if your Platform is compatible. Comes with the following:

- **Rod Feeder**, Rod Feeder Arm complete with all associated equipment parts, mounts, valves etc required to be mounted to a Jack up Platform
- **Plug Spinner**, A hydraulically operated haul plug spinner and associated parts
- **Plug Safety**, An EDM designed and built hauling plug and adaptor set designed to work with the rod feeder system. Rated to 55,000lb (25,000kg)
- **Control Panel**, A choice of control panel options to suit your requirements either:
 - Fixed Control Arm
 - Portable Tripod (5m Range)
 - Remote Control

Rod Feeder and Platform Complete

All components in the Rod feeder only kit mounted and ready to go on an EDM Rod Platform,

- **Platform Capacity**, 15T of drill rods
- **Independently operated Jacks**, All jacks can be raised / lowered and extended / retracted independently
- **Self Loading**, The platform can be jacked up to 1.5m off the ground enabling it to be quickly and safely loaded onto a truck or track carrier
- **Safety**, The platform is supplied with all standard safety equipment, lights, E, stops, fire extinguisher etc
- **Shipping**, Can be transported in 40ft high cube container for easy shipping

Options

- **Load Safety**, Optional crane for loading/unloading rods or positioning rods on platform. Capacity 350kg @ 4.2m
- **Tracks**, Low profile tracks mounted under the platform for positioning on sites with limited space
- **Customise**, EDM can build a platform/feeder system to suit your needs – Contact us.

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