

Panther RCD



Iron Horse Tools LLC

Current Products

The Iron Horse 5000 and 2000 were designed for:

- Reliability in critical operations
- Use in the riser in offshore applications
- Challenging land well control situations

These markets demand reliability and command premium rental rates.

Panther

The ***Panther*** is designed for:

- Reliability in US Land Managed Pressure Operations
- Simplicity of Installation and Operation
- Competitive Operating Costs

The ***Panther*** targets the Permian Basin and other shale drilling markets, emphasizing ease of use while maintaining competitive rental rates.

Birth of the *Panther*

- Combines a revolutionary Seal and Remote Clamp with a Clamp-On-Bearing design
- Targets typical land MPD operations
- Incorporates a revolutionary seal to balance typical MPD pressures, and
- Internal lubricant reservoir sufficient for extended operations
- Eliminates the need for external seal oil pumps, hoses and complications
- Field proven remote clamping system
- True “No need for a Man Below the floor” RCD system
- Cost competitive with any existing MPD RCD on the market today

Designed for the Permian Basin Market

- Low overall height to fit under all MPD rigs
- Pressure ratings for managed pressure drilling
- Failsafe remotely operated clamp
- No need for people below the rig floor
- High static pressure rating for emergency conditions
- Dual 7 1/16 Outlets for rig-up flexibility



MPD Design Options With NEW Kalsi KLS Seal

IHT 2000

- No External Seal Oil
- Supplied with Lubricator
- Large, high capacity bearing
- Simple seal balancing
- Simple Bearing Lubrication
- True “no man below floor”
- Easily installed “IN RISER”

PANTHER

- No External Seal Oil
- Internal Seal/Lube oil reservoir
- Smaller, lower capacity bearings
- Internal seal balancing
- Self Contained Bearing Lubrication
- True “no man below floor”
- Can't be installed “IN RISER”

IHT PRODUCT LINEUP

Model	5000	2000	<i>Panther</i>
API 16RCD	Yes	Yes	Yes
Height	72"	53"	38 ¾"
Bearing OD	27 ¼"	27"	16 ¼"
Bearing Bore	10"	10"	9 ¾"
Static Pressure	5000	2000	2000
API Dynamic Pressure	1000	570*	570**
Rated RPM	150	150	150
Lubricator Skid	Yes	No	No
Dual Seal Element	Yes	Yes	No
Install in Riser	Yes	Yes	No

* Opportunities exist to increase to 1000 Psi with changes to seal system.

** Similar opportunities exist to increase Pressure Rating to 750-800 psi.

PANTHER ADVANTAGES

- The ***Panther*** uses a fail-safe clamping system that doesn't require a man below the rig floor when changing seal elements.
- The large bore through the ***Panther*** bearing allows the use of any drill pipe in use today.
- The ***Panther*** uses an internal lubricant reservoir that is refilled when the bearings assembly is removed to replace the seal element. There are no hoses to connect.
- The ***Panther*** is the shortest "MPD" head on the market with a 13 5/8 – 5K inlet!