



# HANDS-FREE RC ROD HANDLER

Technical Datasheet

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# HANDS-FREE RC ROD HANDLER

76 Rods per shift, 300 shifts per year, 22,800 rods per year, up to 4,240,800 Kg per year: Reduce risk by putting the Boart Longyear™ RC Rod Handler to work for you.

Boart Longyear has been at the forefront of safety innovation for over 120 years and, along with the global introduction of our RC drills, we are pleased to offer the patented RC Rod Handler\* as an option for reverse circulation (RC) drill rigs.

The rod handler sets new standards for ease-of-use, versatility, and most importantly, safety - eliminating more than 14 tons of manual rod handling per shift or 4,200 tons per year!\*\*

Utilizing innovative dual clamping jaws equipped with dual locking systems, the RC Rod Handler eliminates rod drops. This combined with a 180° jaw roll function, 100° slew and 270° of tilting action - including 3m height adjustment - make this the most flexible rod handling device available.

Available as an option on the LC™ and LX™ range of heavy duty exploration drill rigs, the RC Rod Handler can be fitted to existing RC rigs. Also now available with integration kits to suit Schramm† T685 and Atlas Copco† TH60.

\* South Africa Patent No. 2008/08905 and patents pending.

\*\* When RC drilling the rod handle conservatively lifts & lowers 76 drill rods per single shift equating to 14 tonnes (31000 lb). An Average of 300 single shifts per year equals to 4200 tonnes per (4134 Impt) year (when drilling in bad ground these figures could double).

† All company names, brand names, trademarks and logos are the property of their respective owners.



### ADJUSTABLE HEIGHT

3 m height adjustment capability enables safe rod placement for different rod lengths.

### EXTREME ARTICULATION

180° jaw roll function, 100° slew, 270° tilting action utilizing heavy duty rotating actuators.

### FAIL-SAFE JAWS

Dual clamping jaws with dual locking systems mounted to cylinder



# FEATURES AND BENEFITS

The RC Rod Handler features a completely hands-free, radio controlled operating system that considerably reduces the risk of appendage injuries, as well as back injuries related to manually lifting drill pipe.

## ENGINEERING AND DESIGN

- Capable of handling 127 mm diameter and 8 m length drill pipe
- Capable of handling weight up to 200 kg (based on 5" x 8 m pipe)
- Dual clamping jaws with dual locking systems
- 180° jaw roll function
- 100° slew
- 270° tilting action
- 3 m height adjustment
- Heavy duty rotating actuators
- Folds into mast for travel, keeping max height to a minimum
- Only requires 20 USGPM to operate
- Stability, eliminating other mast components for drill rod alignment
- Robust design and build quality delivers long service life
- High quality components
- Faster than manual handling
- Eliminates human contact with drill rods



## LOADING AND UNLOADING POSITIONS

- Drill rig's rod bin on drill deck
- Truck tray to drilling position
- Truck tray to another truck tray
- Ground to drill rig or other truck trays
- Multiple other positions

## SAFETY FEATURES

- Level sensors release position
- Fail-safe jaws accumulators mounted to cylinder
- Hard Stops
- Swivel hose mounts 2-axis movement
- Remote control

## OPERATING REQUIREMENTS

- Electric: 24 Volt
- Hydraulic: 230 Bar @100 lpm

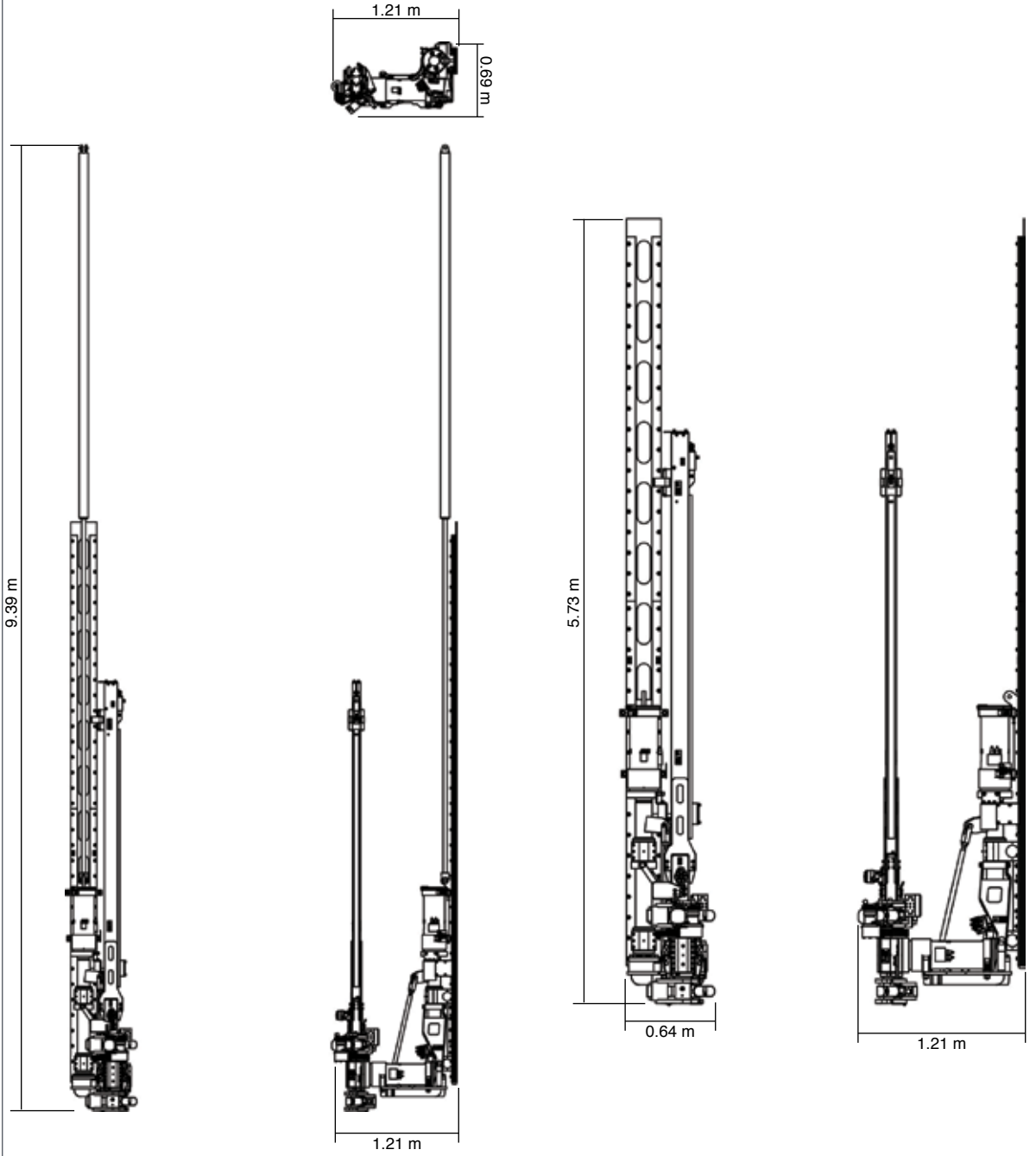
### Note:

Integration kits now available to suit Schramm T685 and Atlas Copco TH60. The Boart Longyear™ RC Rod Handler can be fitted to non Boart Longyear™ types, but mounting the retrofit will require custom engineering services prior to rig operation.



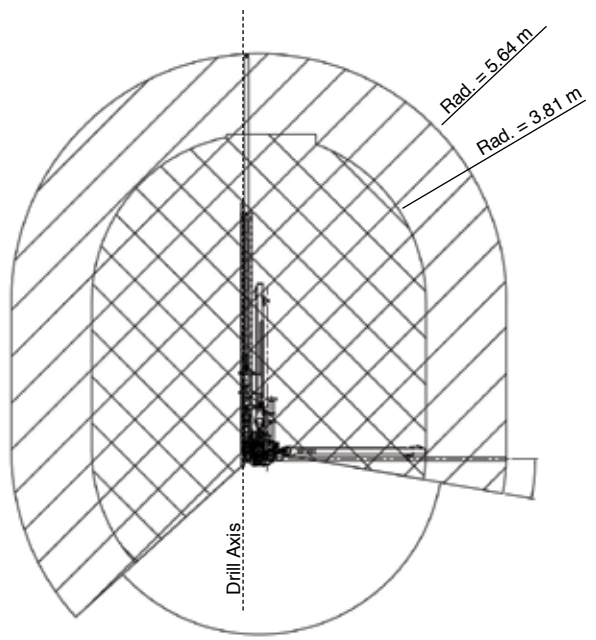
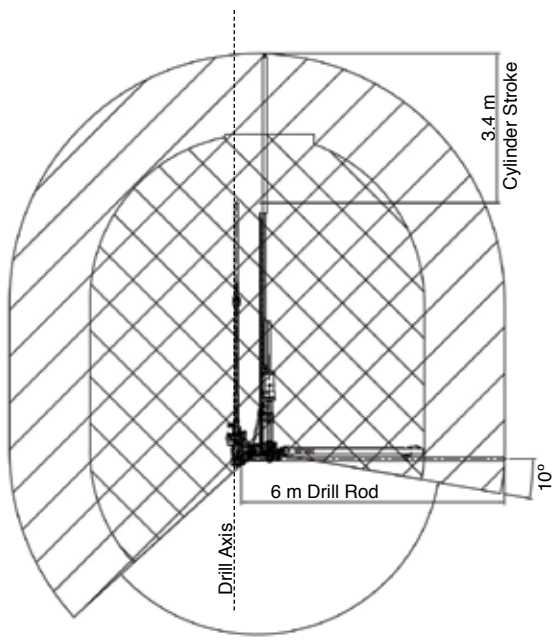
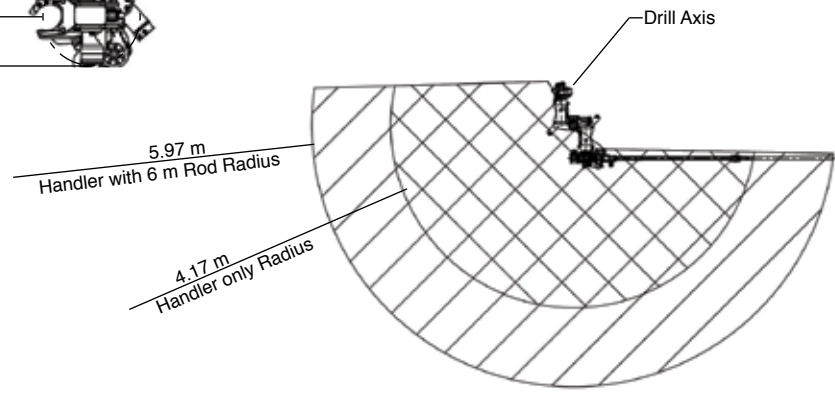
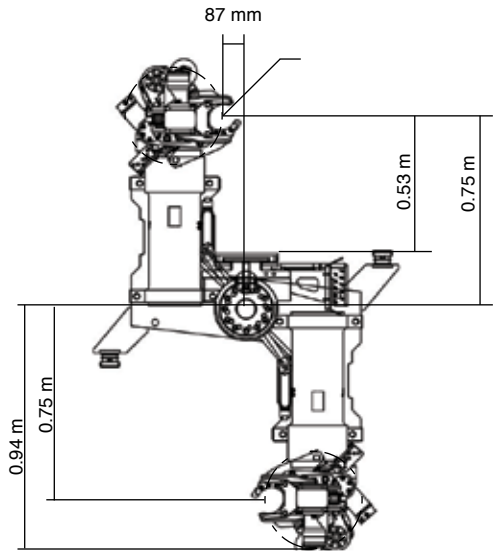
## Dimensions and Weights

- Rod handler assembly without lift cylinder = 1060 Kg
- Removable arm assembly weight = 110 Kg





**Rod Handler Range of Motion**





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