



### SKU : 101659

The top model of our radial drilling machines offers 100 mm (3.9 in) drilling capacity and a huge work area. The stability required for this is achieved through the very heavy design and XL dimensions of all components. Due to the easy handling of large and heavy workpieces and the considerable flexibility due to the long arm, these models are recommended for shipyards, steel and heavy industry. The R-series has a hydraulically switched gearbox and a multi-plate reversing clutch. Despite the size, it is easy to transport and assembly takes place on site.

- Sturdily built and powerful
- Motorized drill head can also be radially positioned
- Rigid construction for consistently high precision
- A cube table offers extra setup possibilities
- Powerful hydraulic clamping of drill head and boom

## TECHNICAL SPECS

### WORKING AREA

Drilling capacity	100 mm
Tapping capacity, cast-iron	M 80
Tapping capacity, steel	M 70
Drilling depth (max.)	500 mm
Machine table dimensions	2750 mm x 1220 mm x 300 mm
Cube table dimensions	1000 mm x 800 mm x 560 mm
Throat	570 mm - 3100 mm
Spindle nose-to-table surface distance	750 mm - 2500 mm
Arm stroke (vertical)	1000 mm
Column diameter	700 mm

### TRAVELS

Drill head travel (horizontal)	2580 mm
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### HEADSTOCK

Speed range	8 1/min - 1000 1/min
Spindle mount	6 MT

### FEED

Feeds	0.06 mm/R - 3.2 mm/R
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### DRIVE CAPACITY

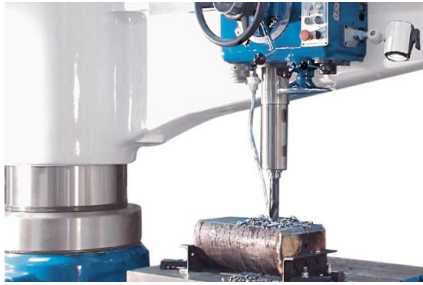
Motor rating main drive	15 kW
Stroke motor	3 kW

### MEASURES AND WEIGHTS

Overall dimensions (length x width x height)	4.78 m x 1.63 m x 4.72 m
Weight	20000 kg



*Depth stop with vernier scale*



*Powerful machining with automatic feed*

## PRODUCT DETAILS

**A large throat and high boring capacities are supported by a very rigid structural design, without compromising the ease of handling and smoothness of operation**

**The drill head features a rigid design with motorized or manual movement**

**Spindle speeds and feed velocity are hydraulically controlled for easy and safe operation**

**The drill spindle is driven via multi-disk reversing clutch to avoid excessive load peaks and for easy operation**

- Base, column, boom and gear head are made of premium high-quality cast
- Boom height adjustment via a powerful motorized drive and vertical spindle
- The boom lifting gears run in an oil-bath for maximum reliability and minimum wear
- Advanced column swivel design with optimized clamping features maximum rigidity and minimum clamping offset
- Swivel axis and travel axis feature extremely smooth operation to make the operator's everyday production work easier
- The gears feature hardened and precision-ground chrome-nickel steel for smooth and low-noise operation
- All gear parts are lubricated reliably via oil pump
- The main spindle runs on precision bearings and features an automatic spindle brake
- Quill teeth are precision-ground for a smooth feed and minimum wear
- The drill head moves on hardened and ground guideways
- Features adjustable overload clutches in the feeds
- Adjustable boring depth stop with large, easy to read scale and Nonius
- All operator controls are placed within reach for convenient and practical handling and quick learning
- Powerful coolant system with coolant reservoir integrated into the machine foot
- Independent hydraulic clamping of head, column and boom
- Drill head and column can be clamped/released together or separately; confirmation of operation via push button
- Boom and column are oiled through a reliable central lubrication system

## STANDARD EQUIPMENT

Coolant system  
Cube table  
LED work lamp  
Operator instructions