



Radial Drilling Machines

R 100



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	3.94 in
Tapping capacity, cast-iron	M 80
Tapping capacity, steel	M 70
Drilling depth (max.)	20 in
Machine table dimensions	108 in x 48 in x 12 in
Cube table dimensions	39 in x 31 in x 22 in
Throat	22 in - 122 in
Spindle nose-to-table surface distance	30 in - 98 in
Arm stroke (vertical)	39 in
Column diameter	28 in

TRAVELS

Drill head travel (horizontal)	102 in
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HEADSTOCK

Speed range	8 rpm - 1000 rpm
Spindle mount	6 MT

FEED

Feeds	0 in/R - 0.13 in/R
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DRIVE CAPACITY

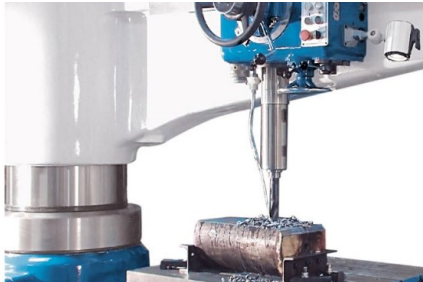
Motor rating main drive	20.1 Hp
Stroke motor	4 Hp

MEASURES AND WEIGHTS

Overall dimensions (length x width x height)	189 in x 65 in x 186 in
Weight	44000 lbs



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
- 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