



Radial Drill Presses

**R 40 V • R 60 V • R 80 V • R 100**

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**Proven performance, quality  
and cost-effectiveness**

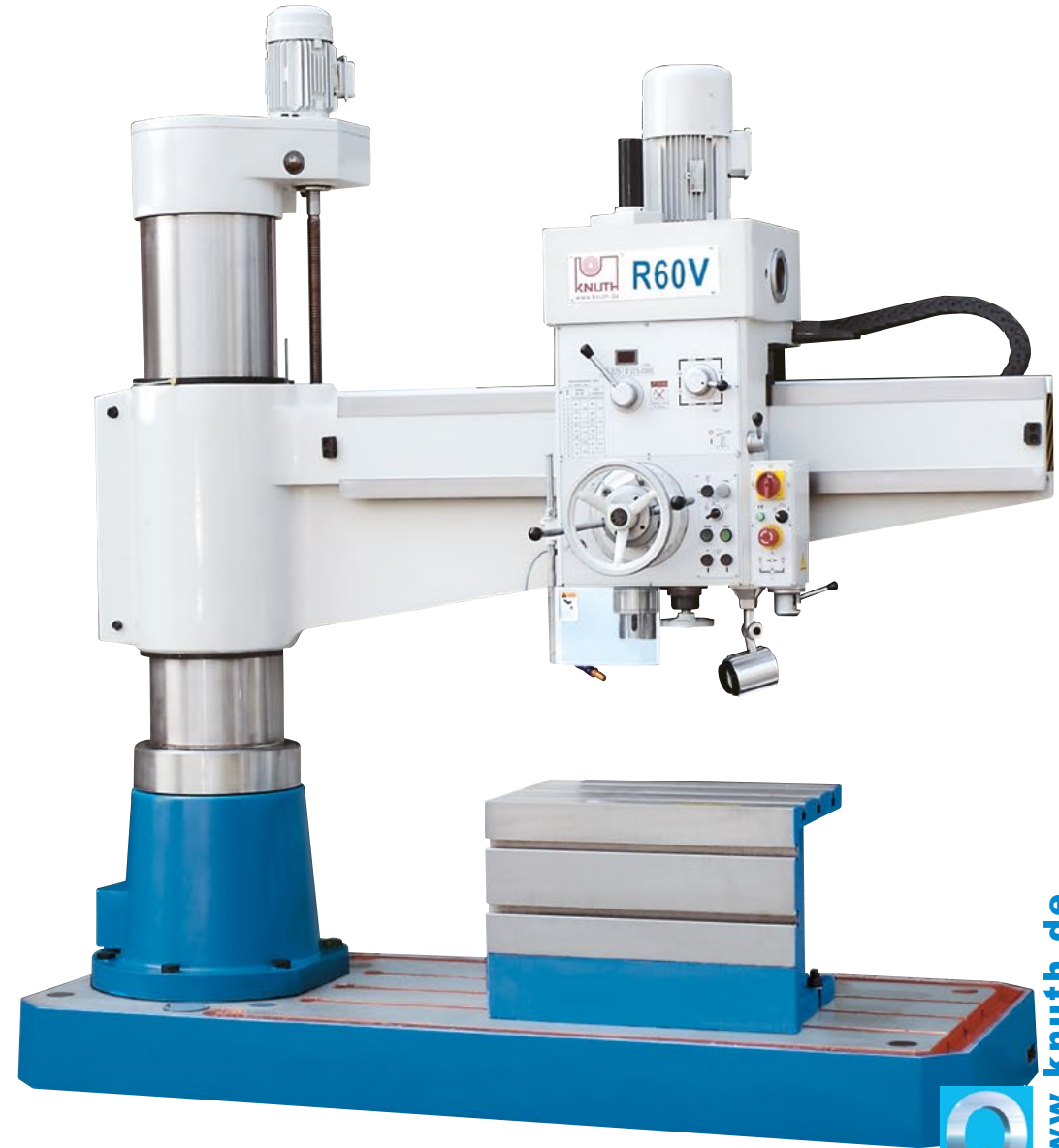
- drilling capacity (steel/casting)  
40 mm - 100 mm
- spindle nose to column distance up to 3150 mm
- spindle nose to table distance up to 2500 mm



## DESCRIPTION

### KNUTH Radial Drill Presses - perfect in every detail, powerful, rigid and easy to handle

- base, column, boom and gear head are made of premium high-quality cast
- major design features include a large column and a highly torsion-resistant boom
- 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 gears 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
- all models feature 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





# R 40 V • R 60 V • R 80 V • R 100

## DESCRIPTION



## DESCRIPTION

### R 40 V

- 40 mm boring capacity, large throat and optimum machining height
- infinitely variable speed control with back gearing for high torque across the entire speed range
- 4-step feed gears
- the boom can be moved vertically, while column and head remain clamped and fixed in their positions
- the drill head can be moved radially and positioned with high precision via a centrally located hand-wheel
- a clamping lever at the drill head allows the operator to pre-select, if the boom should be released for swiveling, whereby both axes will be simultaneously fixed in the requested position above the drill head clamping lever
- manual central lubrication





## DESCRIPTION

### R 60 V • R 80 V

- optimum size/performance ratio and a new drive technology make these two systems bestsellers
- infinitely variable spindle speed and easy to read digital display
- the quills of the R 60 V and R 80 V feature guided counterweights for easy handling and increased safety
- manually shiftable feed gears with 8 steps
- independent hydraulic clamping: boom can be moved vertically without affecting the spindle-to-bore alignment
- drill head and column can be clamped/ released together or separately with the push of a button
- a central lubrication system ensures reliable lubrication of the column



R 60 V shown

## DESCRIPTIONS

### R 100

- 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 by a multi-disk reversing clutch to avoid excessive load peaks; easy operation
- independent hydraulic clamping of head, column and boom
- drill head and column can be clamped/ released together or separately; controlled via push button
- boom and column are oiled through a reliable central lubrication system



Specifications	R 40 V	R 60 V	R 80 V	R 100
drilling capacity in steel	40 mm	62 mm	80 mm	100 mm
tapping capacity steel	M 32	M 46	M 52	M 70
tapping capacity casting	M 40	M 52	M 60	M 80
drilling depth	260 mm	315 mm	400 mm	500 mm
<b>Working area</b>				
dimensions, machine table	2050 x 920 x 180 mm	2400 x 1000 x 200 mm	3380 x 1230 x 280 mm	2750 x 1220 x 300 mm
dimensions, cube table	620 x 450 x 450 mm	500 x 710 x 500 mm	580 x 850 x 500 mm	1000 x 800 x 560 mm
spindle-to-column surface distance	300 - 1300 mm	350 - 1600 mm	450 - 2550 mm	570 - 3150 mm
spindle nose-to-table distance	300 - 1200 mm	350 - 1250 mm	400 - 1620 mm	750 - 2500 mm
drill head travel (horizontal)	1000 mm	1250 mm	2100 mm	2580 mm
arm stroke (vertical)	640 mm	585 mm	800 mm	1000 mm
<b>Headstock</b>				
speed range	54 - 2150 rpm	38 - 2000 rpm	30 - 1400 rpm	(22) 8 - 1000 rpm
spindle mount	MT 4	MT 5	MT 6	MT 6
<b>Feed</b>				
feeds	0,1 - 0,63 mm/rev	0,06 - 1 mm/rev	0,06 - 1,38 mm/rev	0,06 - 3,2 mm/rev
<b>Drive Capacities</b>				
main motor rating	2,2 kW	4 kW	7,5 kW	15 kW
lift motor	1,1 kW	1,5 kW	2,2 kW	3 kW
<b>Dimensions / Weight</b>				
overall dimensions (LxWxH)	2070 x 850 x 2430 mm	2490 x 1050 x 2780 mm	3590 x 1250 x 3530 mm	4780 x 1630 x 4720 mm
weight	2300 kg	3800 kg	7400 kg	20000 kg
Part No.	101 556	101 649	101 558	101 653

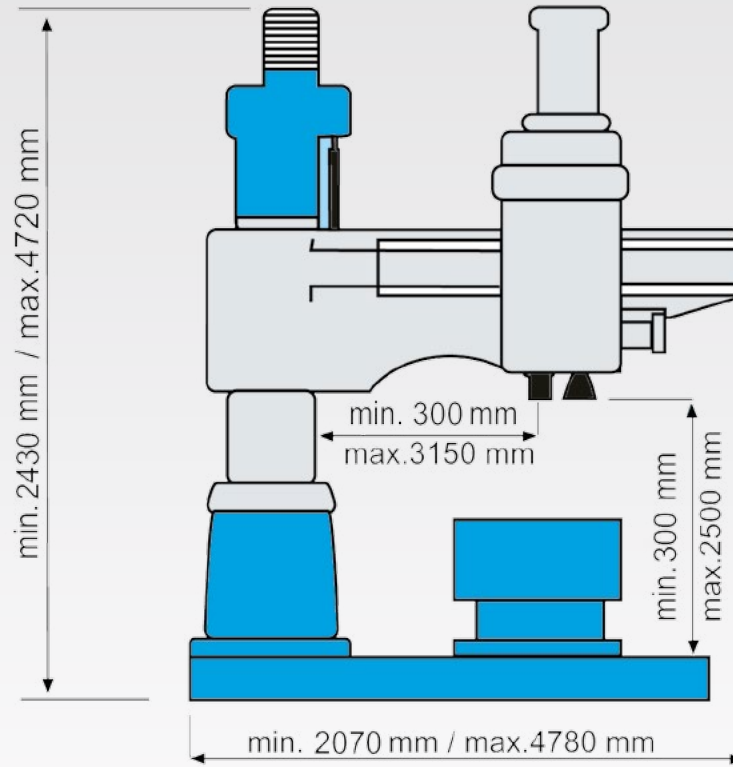
### Option

- Swivel table 400 x 600 mm (R 60 V)	Part No. 250 615
- Reducing sleeve MT 5/2	Part No. 103 835
- Reducing sleeve MT 5/3	Part No. 103 840
- Reducing sleeve MT 5/4	Part No. 103 845
- Accessory set, MT 4 (8 pieces)	Part No. 104 594

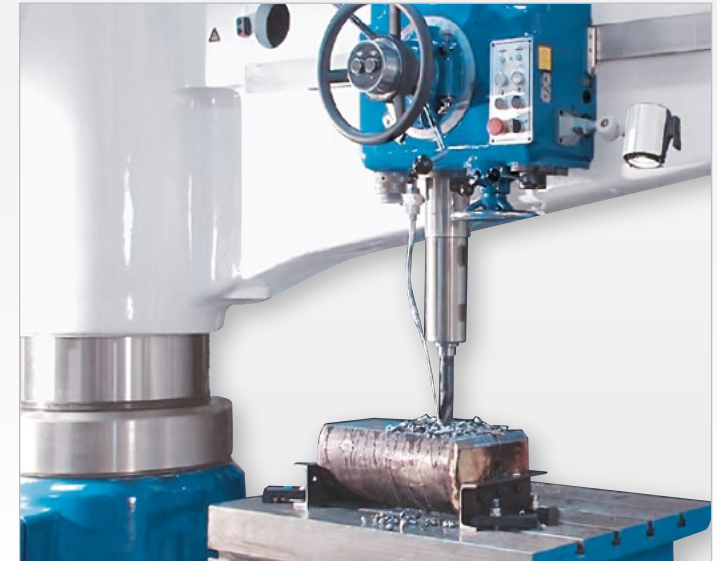
### Standard Equipment

- coolant system
- cube table
- halogen work lamp
- operator manual

### Dimensiones



depth stop with Nonius



powerful machining with automatic feed