



# Radial Drilling Machines

## R 80 VT PRO



### SKU : 101602

The R-VT PRO models represent the new generation of the widely used conventional radial drill presses. The unique operating concept simplifies machining and supports the user during the selection of operating parameters. These models allow precise drilling, countersinking, and thread cutting and are an ideal solution for single parts and small batch productions. These radial drill presses are widely used in repair and maintenance operations, tool and steel construction.

- Unique operating concept
- Advanced control of machine functions
- Servomotor-driven quill feed
- Rigid design with proven high stability
- 3-year Warranty on the Touchscreen

## TECHNICAL SPECS

### WORKING AREA

Drilling capacity	80 mm
Drilling capacity, cast iron	105 mm
Tapping capacity, cast-iron	M 60
Tapping capacity, steel	M 52
Drilling depth (max.)	400 mm
Throat	465 mm - 2550 mm
Spindle nose-to-table surface distance	360 mm - 1560 mm
Drill head travel (horizontal)	2095 mm

### HEADSTOCK

Speed range	30 1/min - 1400 1/min
Spindle mount	6 MT

### FEED

Feeds	0 mm/min - 350 mm/min
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### DRIVE CAPACITY

Motor rating main drive	7.5 kW
Stroke motor	2.6 kW

### MEASURES AND WEIGHTS

Overall dimensions (length x width x height)	3.59 m x 1.25 m x 3.56 m
Weight	7400 kg

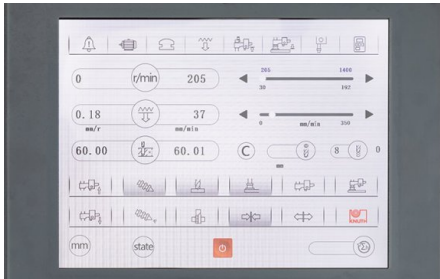


## PRODUCT DETAILS

- 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
- Swivel axis and travel axis feature extremely smooth operation to make the operator's everyday production work easier
- A central lubrication system ensures reliable lubrication of the column

### Electronically controlled servo quill feed with large touchscreen display

- Drilling depth is electronically set and the input value is checked by the system
- Measuring units for input and display can be selected by the operator (mm or inch)
- The high-performance coolant system enabled at the touchscreen and will be turned on and off as a function of the main spindle
- The machine has 2 gear steps, and the rpm can be infinitely varied and displayed at the monitor
- A servo motor provides infinitely variable control of the quill feed - upon reaching the preselected drilling depth, the quill automatically returns to the starting position
- Thread cutting is, however, completely manual, i. e., the operator changes the quill's rotational direction upon reaching the drilling depth
- The operator sets the boom height by touching the respective icon, whereupon the system automatically releases and fixates the hydraulic clamps, turns off the lift motor, and considers all set limit stops
- Drill head and column can be clamped/released together or separately
- Boom can be moved vertically without losing the spindle-to-bore alignment
- The control software also provides recommendations for rpm and feed in relation to the desired drill size
- Various alarm screens warn the operator in case of operational errors and display information on the operational state



### R 40 VT PRO, R 60 VT PRO and R 80VT PRO with thread cutting feature (SKU 101657/101648)

- On this model, the automatic thread cutting function can be enabled at the touchscreen
- Depending on the tap size, the correct pitch and recommended rpm are automatically read from the internal database
- The thread cutting process is performed with automatic feed
- The spindle speed is synchronized with the thread leads, and the depth stop limits the thread depth
- Once the preset depth has been reached, the spindle reverses its rotation and the quill automatically returns to the starting position

## STANDARD EQUIPMENT

Touchscreen control panel  
 Automatic thread cutting cycles  
 Servo motor for quill feed  
 Accessory set for drilling  
 Cube table  
 Manual central lubrication  
 Coolant system  
 Work light  
 Height adjustable spindle cover  
 Operator instructions



## KNUTH on YouTube

### Information to the point

On our YouTube channel you can find videos for nearly all machines from our program. We show the machines from current deliveries and you get an impression of the handling, the processing quality and the machining performance.

**Are you interested in a machine for which you cannot find a current video?  
Please feel free to contact us!**