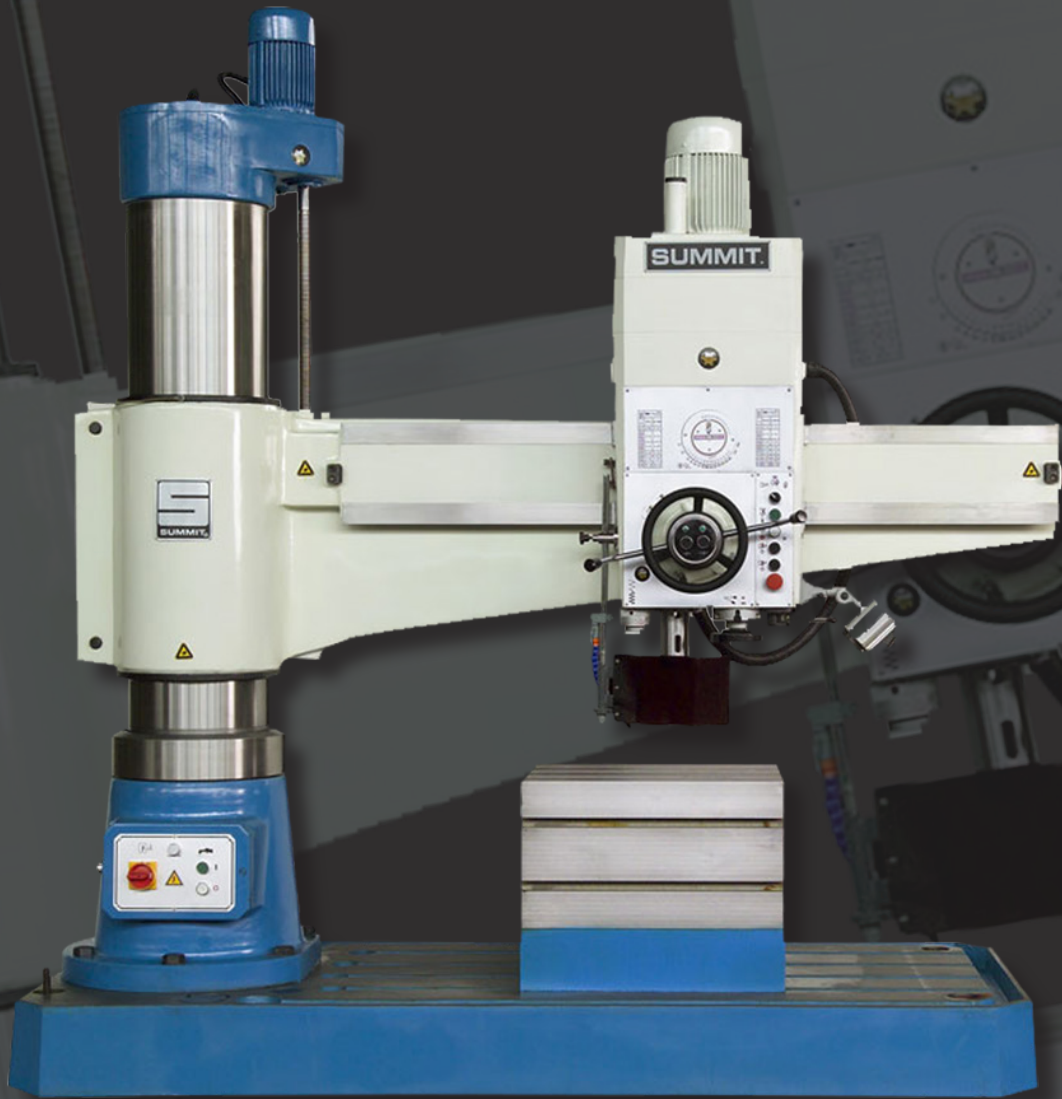


SUMMIT
MACHINE TOOL
MANUFACTURING



RADIAL DRILLS

3'H, 5'H AND 6'H

The **Summit** Radial Drill Series is designed and manufactured to provide the highest level of rigidity, strength and ease of operation. The column, base, arm and headstock are all precision machined from aged, normalized, closed grain cast iron.

The precision ground column is mounted on a fixed base. It is fitted with a large diameter cylindrical roller bearing in the lower end for maintaining position with a combination of a radial roller bearing and a roller thrust bearing in the upper end. This bearing configuration is designed to eliminate radial stress.

The radial arm is manufactured in a box form with heavy cross ribbing to give maximum rigidity. Raising and lowering the arm is accomplished by a crown mounted motor with conveniently located push button controls. The machine is fitted with a safety device to prevent column movement when the arm is clamped. Clamping and unclamping the arm on the 5'H and 6'H is hydraulic with push button controls. Clamping and unclamping the arm on the 3'H is achieved manually. The way surfaces of the arm have been hardened and precision ground for long life.

The headstock is fitted with anti-friction mounted shafts and dynamically balanced components; hardened and precision ground alloy steel gears, shafts and splines and a large diameter spindle mounted in precision roller bearings. The horizontal movement of the headstock is manual on roller bearings for ease of operation with hydraulic clamping and unclamping on the 5'H and 6'H and manual clamping and unclamping on the 3'H.

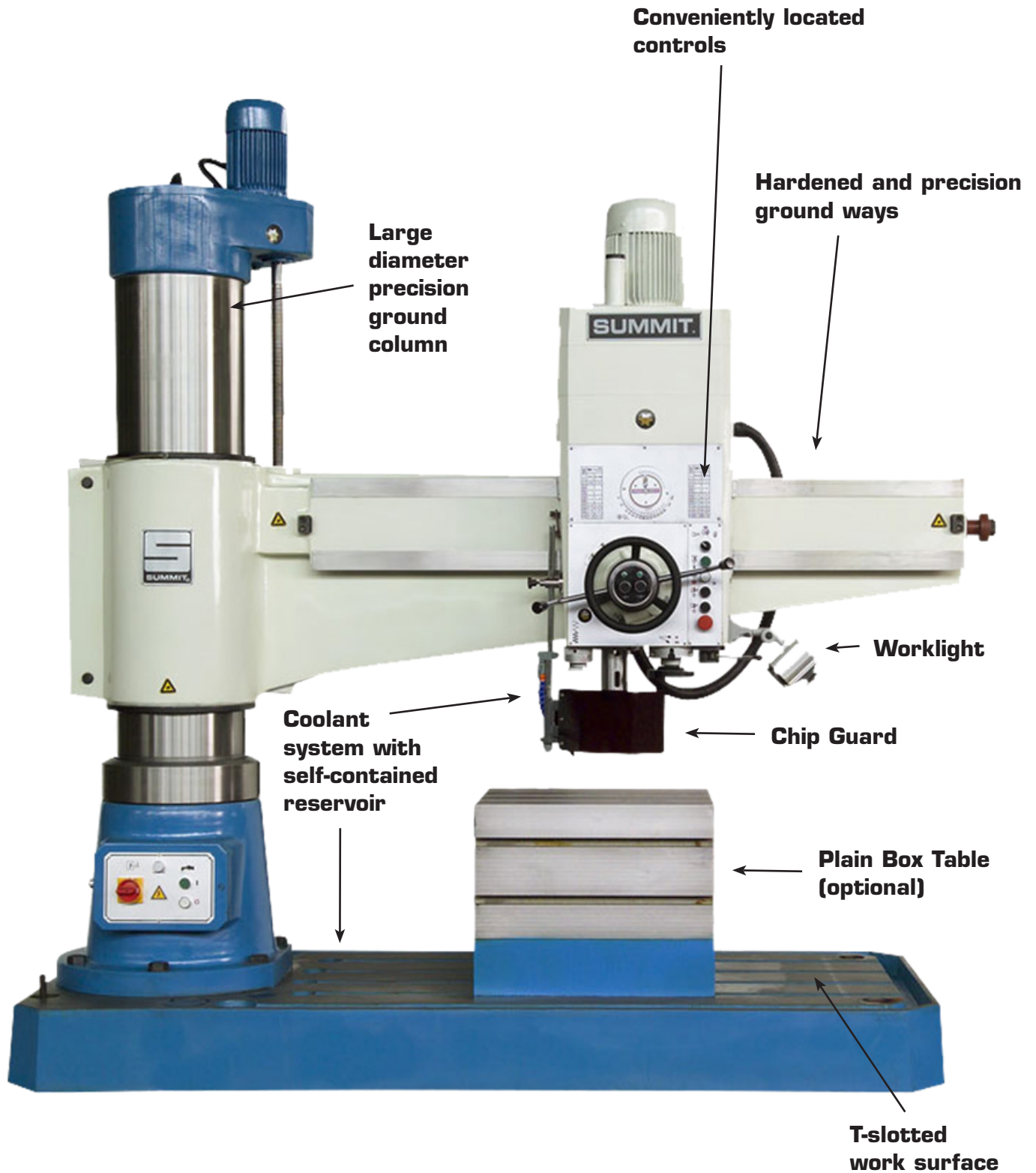
The base is an extra large casting with heavy internal webbing for additional support. It is machined with multiple T-Slots for workholding convenience. The base also serves as the coolant reservoir and is fitted with the coolant pump.

The engineering excellence, fine craftsmanship, quality materials and impressive specifications of the **Summit** Radial Drill series combine to provide years of productive, trouble free operation.

STANDARD FEATURES

- Built in coolant and piping
- Precision spindle, hardened and ground CRNI
- Hydraulic clamping on 5'H & 6'H
- Safety limit switches
- Pressurized lubrication system
- Heavily ribbed cast iron base and arm
- Hardened and ground gears and shafts
- Large T-slotted base
- Adjustable clutch with automatic depth stop
- Hydraulic preselected shifting of feeds and speeds
- Counter balanced spindle

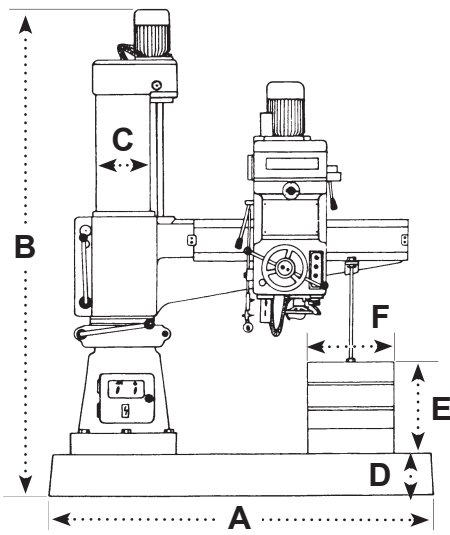
SUMMIT RADIAL DRILLS 3'H, 5'H, 6'H



5'H shown

DIMENSIONS AND SPECIFICATIONS

3', 5' AND 6' DRILLS



A
B
C
D
E
F

	3'H	5'H	6'H
	59" x 29"	94.5" x 39"	114" x 49"
	85"	105"	124"
	9.45"	13.8"	18"
	6.3"	7.9"	9.8"
	15.7"	19.6"	19.6"
	17.7" x 15.7"	24.8" x 19.6"	37.4" x 24.8"
	3'H	5'H	6'H
Drilling capacity	1.25"	2"	2.5"
Distance from spindle axis to column (min/max)	7.9" - 39.4"	13.8" - 63"	17.7" - 80.7"
Vertical travel of arm on column	19.7"	23.6"	31.5"
Column diameter	9.45"	13.8"	17.7"
Spindle taper	4 MT	5 MT	5 MT
Spindle travel	9.8"	12.4"	15.75"
Spindle speeds (number)	8	16	16
Spindle speeds (range)	38 - 3000	25 - 2000	20 - 1600
Spindle feeds (number)	8	16	16
Spindle feeds (IPR)	.004" - .050"	.0015"-.125"	.0015"-.125"
Horizontal traverse of spindle head on arm	27.5"	50"	63"
Distance between spindle & working surface of base (min/max)	10.4" - 41.9"	12.6" - 48"	15.75" - 63"
Arm elevating motor	1 H.P.	2 H.P.	3 H.P.
Hydraulic clamping motor for head and arm	N/A	1 H.P.	1 H.P.
Coolant pump motor	.12 H.P.	.12 H.P.	.16 H.P.
Spindle motor	3 H.P.	5.5 H.P.	7.5 H.P.
Overall dimensions (L x W x H)	68"x30"x91"	99"x42"x111"	123"x50"x132"
Net weight	3,740 lbs.	7,700 lbs.	15,400 lbs.

WARRANTY: A copy of Summit Machine Tool Manufacturing L.L.C.'s standard written warranty is attached to each Summit Machine. Call or write to Summit for a copy or for further information concerning Summit's standard warranty. All purchases are subject to Summit's standard written warranty. Specifications are subject to change without notice.

POINT OF OPERATION GUARDING is the responsibility of the end user. For information contact your local OSHA office.

SUMMIT MACHINE TOOL MANUFACTURING, L.L.C.

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