

A large industrial vertical boring mill machine, primarily blue and white, is shown in a factory setting. The machine has a large rotating table at the base and a vertical column with a cross-table and tool head. A control panel with a digital readout (DRO) is visible in the foreground. The machine is labeled 'SUMMIT' in several places.

SUMMIT
MACHINE TOOL
MANUFACTURING



VERTICAL BORING MILL

SUMMIT HYBRID SERIES

DIMENSIONS AND SPECIFICATIONS

SUMMIT VERTICAL BORING MILL



SPECIFICATIONS	SCV48	SCV60	DCV80	DCV100	DCV120	DCV160
Capacities (Regular/Optional)						
Maximum Swing w/Vertical Heads	55"	65"	84.6"	104.3"	128"	169"
Maximum Swing w/Side Head	51"	61"	82.6"	102"	122"	161"
Maximum Height under Cross Rail	39.37"	47.24"/66.9"	59"/78.74"	70.86"/90.55"	74.8"/94.48"	74.8"/84.48"
Maximum Weight on Table	6 tons	8 tons	12 tons	15 tons	18 tons	18 tons
Table						
Diameter of Table	47.24"	57"	78.74"	98"	118"	157.48"
Table RPM	2.5 - 250 RPM	2 - 200 RPM	1.5 - 150 RPM	1.2 - 120 RPM	1 - 100 RPM	1 - 100 RPM
Table Drive Motor	55 KW	55 KW	55 KW	71 KW	71 KW	71 KW
Speed Ranges	3 ranges	3 ranges	3 ranges	3 ranges	3 ranges	3 ranges
Vertical Heads						
Swivel of each Vertical Head (R/L)	+/- 35 deg	+/- 35 deg	+/- 35 deg	+/- 35 deg	+/- 35 deg	+/- 35 deg
Left Ram Vertical Travel	N/A	39.37"/47.24"	39.37"/59"	47.24"/59"	47.24"/59"	47.24"/59"
Pentagonal Turret Vertical Travel	29.9"	29.9"	29.9"	29.9"	29.9"	29.9"
Servo Motors + ZF 1/7 reducers	13 Nm, 3 KW	13 Nm, 3KW	13 Nm, 3 KW	13 Nm, 3KW	13 Nm, 3 KW	13 Nm, 3 KW
Side Head						
Vertical Travel of Side Head	*Optional	*Optional	Optional	Optional	Optional	Optional
Vertical Travel of Side Head	23.6"	39.37"/47.24"	47.24"/70.84"	70.84"/82.67"	82.67"/90.55"	80.84"/82.67"
Side Head Horizontal Ram Travel	25.59"	27.55"	27.55"	35.4"	39.37"	39.37"
Cross Rail						
Vertical Travel	31.5"	35.4"/55"	39.37"/59"	59"/78.74"	78.74"/82.67"	59"/78.74"
Cross Rail Feedrate	15.75 IPM	15.75 IPM	15.75 IPM	15.75 IPM	15.75 IPM	15.75 IPM
Cross Rail Elevating Motor	5.5 KW	5.5 KW	7.5 KW	7.5 KW	7.5 KW	7.5 KW
Feeds						
Vertical/Horizontal Feeds No.	inf. Variable	inf. Variable	inf variable	inf variable	inf. Variable	inf. Variable
Feeds Range	.002-.2 IPR	.002-.2 IPR	.002-.2 IPR	.002-.2 IPR	.002-.2 IPR	.002-.2 IPR
Rapid Traverse	118 IPM	118 IPM	118 IPM	118 IPM	118 IPM	118 IPM
Dimensions						
L x W x H Overall	11.5' x 14' x 14'	13' x 14' x 17'	15' x 15' x 17'	17' x 17' x 18'	18' x 20' x 19'	23' x 23' x 18'
Weight (approximate)	16.5 tons	24 tons	36 tons	43 tons	64 tons	65 tons
Main Motor Power	55KW	55KW	55KW	71KW	71KW	71KW

Options
Coolant
Power Turret
Programmable Taper Turning
Programmable Threading
Side Head
Various Tool Holders
2 stage (1/1 & 1/4) ZF Gearbox
Customizable Configuration

NOTE: Specs are general

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.

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