SPECIFICATION SHEET Bholanath

Drill Machine Automation BH-DMA-05-M



Drilling and **Thread Tapping** is an important operation in every workshop. For mass production operator gets tired doing repetitive up down z-axis motion with force. Due to operator fatigue the production suffers.

Bholanath Precision has overcome this with simple Z-Axis automation.

BH-DM-05-M is an **40mm** standard new drill machine on which helical helical geared stepper motor is mounted on the Z axis, due to which the up down motion becomes automatic.

To watch videos kindly click on below you tube links.

Youtube link-

Https://www.youtube.com/watch?v=9N0ilWz6ADg&feature=youtu.be

Https://www.youtube.com/watch?v=NiRaVS_ygz0&feature=youtu.be

Https://www.youtube.com/watch?v=TOCJEuW6g2k&feature=youtu.be

BH-DMA-05-M comes with state of art control panel which consists of stepper driver controller BH-SDC-01-N, stepper driver BH-SMART-6A, power supply and necessary wiring and switches

The controller **BH-SDC-01-N** is simple controller manufactured by Bholanath, the controller language is simple English and very easy to learn and operate.

To watch the controller operating videos kindly click on below you tube links.

Youtube link-

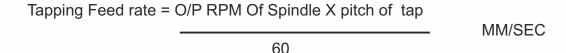
Https://www.youtube.com/watch?v=mA7aqmB9eCo&feature=youtu.be
Https://www.youtube.com/watch?v=wizLndJLTeA&feature=youtu.be
Https://www.youtube.com/watch?v=dXrevwVmH50&feature=youtu.be
Part 1
Part 2
Part 3

A Foot switch is connected to the controller for easy operation so that operators hands remains free and and homing limit switch is provided.

Features of the machine -

- 1. Drilling size and depth as per data sheet
- 2. Peck drilling is very simple by programming
- 3. Drilling Feed speeds settable by programming
- **4.** High speed Reaming
- 5. Limit switch for homing
- **6.** Direct Tapping with controller (No attachment needed)
- 7. Coolant tank optional available at extra cost
- 8. Siddhapra Engg. Work (SEW) Machine is used in this model.



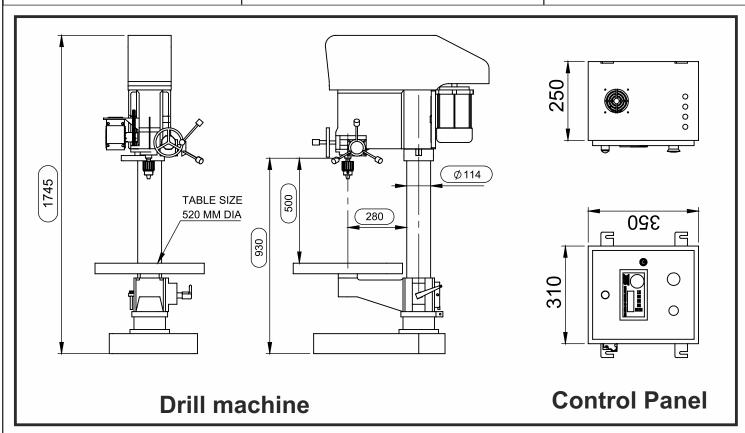


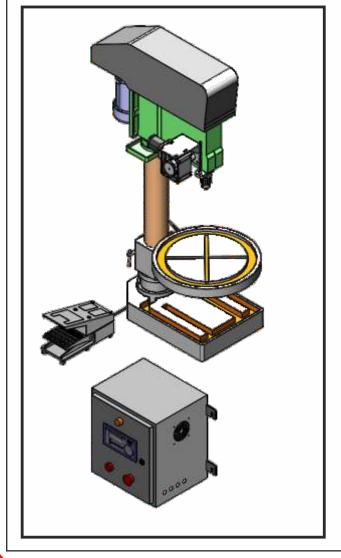


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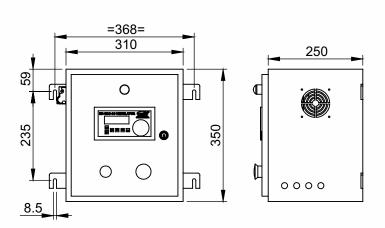


→ Technical Data ←

TECHNICAL SPECIFICATION

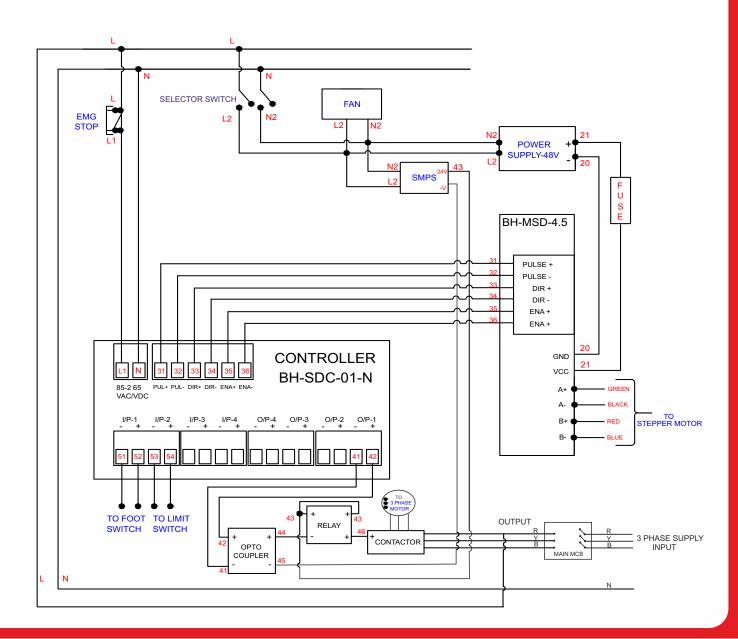
SR NO.	DESCRIPTION	CAPACITY & SIZE
1	DRILLING CAPACITY IN STEEL	40 MM
2	SPINDLE TRAVEL MAXIMUM	170 MM
3	SPINDLE TAPER	SOLID
4	NO OF SPINDLE SPEED	08
5	COLUMN DIAMETER	114 MM
6	MAX DISTANCE BETWEEN SPINDLE CENTRE TO COLUME FACE	280 MM
7	MAX DISTANCE BETWEEN SPINDLE NOSE TO WORKING TABLE	500 MM
8	MAX DISTANCE BETWEEN SPINDLE NOSE TO BASE PATE	930 MM
9	WORKING TABLE SIZE	520 MM DIA
10	ELECTRIC MOTOR	1.5 HP
11	MOTOR RPM	1440
12	SIZE OF BASE PLATE	460X315
13	OVERALL HEIGHT OF MACHINE WITH GUARD	1745 MM
14	V-BELT SECTION	B-58
16	Feed rate of Z Axis (Rapid)	40 mm/sec
17	Drilling feed rate	3mm/sec
18	Controller Input / Output	2 Input /3 Output
19	Power consumption	1200W

Mechanical Dimension for Control Panel





Circuit Diagram for control panel.



Program for Z axis Drilling Machines (Drill size 40mm & Drill Depth 10mm)

