



INDIA INTERNATIONAL MARKETING COMPANY



DRILLING MACHINES - MATCHLESS SIMPLE & GEARED MODEL DRILLING MACHINES



FEATURES

For over five decades, **MACHLESS** has been in the fore front of manufacturing of Drilling and Tapping machines. **MACHLESS** always believes in quality. We strive to put the best components and materials so that you can get the best cutting power in your hand. We invite you to make it **A CHOICE OF LIFETIME**.

These machines are available in bench, pillar and gang type. The machine covers wide range of operations like drilling, reaming, tapping, lapping and counter boring. These machines present a unique combination of metals rigidity and accuracy for both and it's suitability for mass production and tools room jobs.

HEAD

The drilling head is of heavy duty. It is reinforced and ribbed with cast iron around bores to withstand any distortion while drilling or boring. The bearing surface is precision bored. Internal bores are honed to provide close tolerance for spindle movement. It has a mechanical locking device, which enables the head lobe raised, lowered or swung to any required position.

SPINDLE

The Spindle is made of alloy steel. Spindle drives in internally broached sleeve, fitted in deep grooved ball bearings and taper bearings. Bearings are widely supported and belt tension is not transmitted to spindle. This type of drive ensures a more efficient operation as compared with conventional single key drive.

TABLE

The accurately machined table surface is provide with slots & can be adjusted vertically at the required height by means of rack and pinion set and it is also capable of revolving fully through 360°. Table can also be tilted to required angle up to maximum 45° both sides (Fig. 1).This can be measured with the help of a scale fitted on the rim of the arm. The table holding the arm is held at its place with the help of tapered bolts and cylindrical dowel pin locked in it's place at its base.

DRIVE

The drive to splined is transmitted through a v-belt on stepped pulley. In gear type machine additional slow speeds are obtained by engaging back gear (Fig. 2).All geared model machines are provided with additional heavy duty ball bearing for long life and better load taking capacity in the front area of front machine pulley. These and many more unparallel features are responsible for the super performance and long serving life of MACHLESS products.

SPECIFICATIONS (in mm) Applicable for Drilling Machines & Drilling & Drilling Heads of Gang Drilling Machines.

PARTICULARS	1	2	3	4	5	6	7	8
Drilling Capacity	12mm simple	15mm simple	15mm geared	20mm simple	20mm geared	25mm geared	32mm geared	40mm geared
Spindle Travel	75	100	100	120	120	150	160	185mm
Spindle Centre to Column	— 160	175	180	220	220	260	285	385mm
Spindle Nose to Table (Max.)	380	480	580	570	585	715	620	700
Spindle Nose to Base (Max.)	395	600	700	760	760	1065	1025	1030
Column Diameter	47	58	58	74.5	74.5	87.5	98.5	125
Morse Taper in Spindle	As per JUG Drill Chuck	MT—2	MT—2	MT—2	MT—2	MT—3	MT—4	MT—4
Table Shape	Round	Round	Round	Round	Square	Square	Round	Round
Table Size	— 195 Dia	230.Dia	230	275 Dia	280 x 280	340 X 340	500	500

Base Working Area	200x200	220x220	220x220	275x275	275x275	310x320	370x370	460x480
Floor Area Required	355x210	420x240	420x240	500x300	500x300	685x410	740x480	880x575
No. of Speeds	— 4	4	8	5	8	8	8	8
Spindle Speed with 1440 RPM Moter	725,1175, — 1880, 2950	700, 1150, 1760, 2650	160,256,395, 615,700, 1150,1760, 2650	640, 865 1210, 1695, 2350	2990,1725, 1065,575 485,265, 166,85	540, 779, 1080,1490 250,180, 130,90	80, 119, 175,250 450, 660, 980,1420	—
Spindle Speed with 960 RPM Motor	530, 840, 1560, 2650	475, 865, 1475, 2265	—	425, 575 805, 1130, 1568	1190, 1150, 710, 380 315,184, 105,58	370, 530, 735, 990 170,125, 90,64	55, 95, 135, 185 335, 440, 735,1065	160, 220, 300, 400, 520, 700, 925, 1225
Total Height of Machine	870	970	1140	1230	1310	1700	1820	1875
Motor Required	1/2HP	1/2HPto1HP	1/2HPto1HP	1HP	1HP	1.5HP	2HP	3HP
V-Belt Size	A- 36	A- 39/38	A- 39/38	A- 44/43	A- 44143	8-52/51	B -57/56	B-62
Machine Weight without Electrical	40Kg.	65Kg.	85Kg.	100Kg.	110Kg.	210Kg.	310Kg.	475Kg.
Machine Weight packed without Electrical	95 Kg.	108 Kg.	140 Kg.	160 Kg.	176 Kg.	285 Kg.	470 Kg.	640 Kg.
Auto Feed Rate								0.04to0i mm/Rev. (3 Feeds)

Standard Equipments

Spare Pulley for motor.

Extra Equipments

Motor, Starter, Drill Chuck, Arbor, Sleeves & V-belt



INDIA INTERNATIONAL MARKETING COMPANY

B - 73, PHASE - 1, MAYAPURI INDUSTRIAL AREA (BEHIND POLICE STATION), NEW DELHI - 110 064, INDIA

MOBILE : +91-9810112341, PHONE : +91-11-28117865, +91-11-30583633, FAX : +91-11-28117867
Email : iimc@vsnl.net, iimc.machines@gmail.com
Website : www.iimc-india.com, www.indiamart.com/indiainternational