

DRILL MACHINE

(Battery operated)

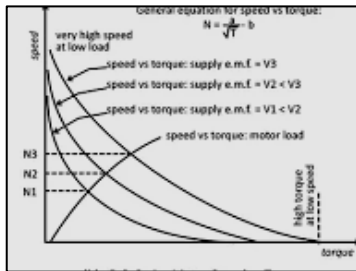
MBODM series

Introduction:

SPEM series of battery operated drill machines are available in more than 5 different modes, virtually offering solutions to high speed/torque control applications for fabrication, paper, wire drawing, printing, extrusion, biomedical, petrochemical, automobile, organic/inorganic chemical, milk plant, sugar, textiles, beverages, water management/treatment, non conventional energy management applications, nuclear and defense and many other research & development applications. Company also offers cascade -feedback control chopper drive system, which can be interactively coupled to drive the multi motors system in synchronous mode with high degree of resolution.

Feature:

Compact and energy efficient, low noise
 Dynamically balanced & vibration-less motion
 Inherent self-braking acting action, thus less hunting.
 High battery back to as much 4-5 hours
 Maximum torque/k.watt.



SPEED Vs torque characteristic of drill m/c

MBODM001

MBODM002

ELECTRICAL/MECHANICAL SPECIFICATIONS OF BATTERY OPERATED DRILL MACHINE POWER <2000 Watts

MODEL	Watts	R.P.M.X 100	Torque N.m	Volts D.C.	Amps D.C.	Back up-hrs	Battery Amp-hrs	Tmax °C
MBODM-001	100.0	09/15	1.06/0.52 x15	12/24/option	8.2/4.1	1.0	7.0	80
MBODM-002	200.0	09/15	1.26/0.63 x15	12/24/option	16.6/8.3	1.0	14	80
MBODM-003	300.0	09/15	3.15/1.55 x15	24/36/option	21.4/13.0	1.5	28	80
MBODM-005	500.0	09/15	6.3/3.15 x15	48/36/option	32.4/21.1	1.0	24	80

Battery Operated Drill Machine Controller

Operating voltage: 12/24 volts, d.c.

Frequency: n.d.

O/p rpm/torque (peak) ripples: 0.01% of reading

Temperature coefficient of variation: 10000 ppm

Overload: 25% for 5 min

Load compatibility: ferrous/non-ferrous

Rpm ripple: +/- 0.5 percent of rated voltage

Torque regulation: ±1% or better for 0 to 100% change in current

rpm regulation: 1.0% of full voltage Load: 0.1% of maximum voltage

(Line: ±0.05% of full voltage +500mV over specified input range)

(Input voltage: ± 1.0% of maximum current for a ± 10% input line change)

Control: 1.cascade mode feed back control (constant rpm/torque)

Protection: Current limit/Current trip

Isolation of 3kV DC or better should be provided between positive and ground (Body).

Other specs as indicated in datasheet.

Size: 10x8x8 inch, 3.6 k.g.



5x8x8 (4.3 kg)

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