



WINDSOR

Partner in Progress

Blow Moulding Machines





Windsor Machines Limited is one of the leading plastic processing machinery manufacturer and exporter in India for nearly half a century.

Extrusion machinery division is well equipped with state of the art technology and expertise to meet the growing challenges of extrusion machinery and extrusion blow moulding machinery the world-over.

Over the years, Windsor has spread its wings and created a satisfied customer base around the globe.

Major Applications of Blow Moulded Articles

- Edible oil packaging
- Lubricants packaging
- Packaging of drinking water
- Pharmaceuticals packaging
- Chemicals packaging
- Pesticides and insecticides packaging
- Automobile components
- Toys



KBM SERIES



KBM 20

KBM 30

KBM 50

KBM 100

To address market requirements, Windsor has launched KBM 100 machine recently. With the success of KBM series and KBM 100 machines.



- Robust design
- Faster dry cycle speed
- Forward - reverse movement on rails for ease of mould loading

Windsor's KBM series Blow Moulding Machines are the most reliable, performing and efficient. KBM 20, KBM 30 and KBM 50 are being in the domestic and international market for more than two decades, reaping profits continuously to customers. These KBM series machines are being upgraded at regular intervals for productivity, ease of maintenance and operator friendliness.

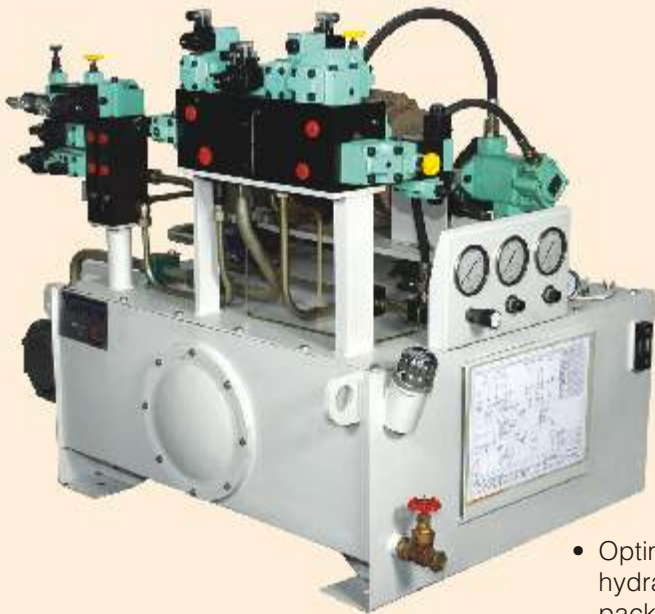


- Sturdy construction
- No vibrations even at high speed
- Extruder up- down movement [Motorised]



- Fixed height extruder in KBM 100 with up- down movement of mould clamping unit
- Above given features minimise flash and hence wastage

- A.C. motor with variable speed A.C. drive for extruder
- Helical gear box with built in thrust for efficient speed reduction



- Accumulator die head of FIFO design
- Faster colour change
- Minimised wastage
- On- off type four point hydraulic parison thickness control

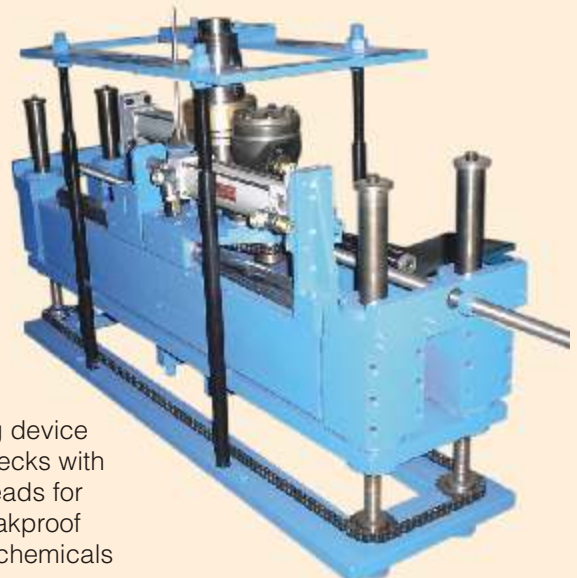


- Optimally designed hydraulic power pack ensures minimum power consumption

OPTIONS:



- 128 point M- Power Moog make or 32 point Yaken make hydraulic parison thickness controller
- Total machine control [TMC] of Moog
- Moog parison control with high response servo valve
- Uniform thickness control with higher accuracy and repeatability



- Unscrewing device facilitates necks with internal threads for ensuring leakproof packing of chemicals

MACHINE TYPE	UNIT	KBM 20	KBM 30	KBM 50	KBM 100
EXTRUDER					
Screw Diameter	mm	65	65	65	90
Length to Dia Ratio		21:1	26:1	26:1	22:1
Max. Plastisizing Capacity HDPE	kg/hr	65-70	110-120	110-120	180-200
Barrel Heating Load	kW	13	16	16	40
Die Heating Load	kW	13	16	16	27
Screw Speed Range HDPE	rpm	12-75	12-120	12-120	10-85
AC motor at 1500 rpm	kW	18.5 A.C.	30 A.C.	30 A.C.	45 A.C.
ACCUMULATOR CAPACITY	kg	1.9	3.4	3.4	9
MOULD DIMENSION					
Height (Max)	mm	600	600	650	1000
Width	mm	580	650	700	950
Thickness (Min)	mm	2 x 155	2 x 155	2 x 225	2 x 230
CLAMPING UNIT					
Clamping Force (Max)	tonnes	12	14	17	60
Daylight (Max)	mm	800	800	1100	1350
Mould opening Stroke(Max)	mm	2 x 250	2 x 250	2 x 330	2x450
Daylight (Min)	mm	2 x 150	2 x 150	2 x 220	2 x 225
HYDRAULIC UNIT					
Operating Pressure	kg/cm ²	150	150	150	150
Drive Power, Hydraulic Pump	kW	15	18.5	18.5	37.5
Oil Tank Capacity	ℓ	250	350	350	850
INSTALLED TOTAL ELECTRIC POWER	kW	60	81	81	149
MACHINE INSTALLATION UNIT					
Floor Space (L X W X H)	m	4.75x4.4x4.25	5.6x4.7x4.75	5.6x4.7x4.75	7.5x5.8x5
Net Weight (approx.)	tonnes	7.5	8	8.5	10.5
UTILITIES					
Air Consumption	lpm	350-550	350-550	350-550	350-550
Air Pressure	kg/cm ²	8-10	8-10	8-10	8-10
Water Consumption at 28° C	lpm	75-80	95-115	95-115	135-150
Water Pressure	kg/cm ²	3-4	3-4	3-4	3-4
ARTICLE DIMENSION					
Max. Volume for Single Cavity	ℓ	20	30	50	100



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