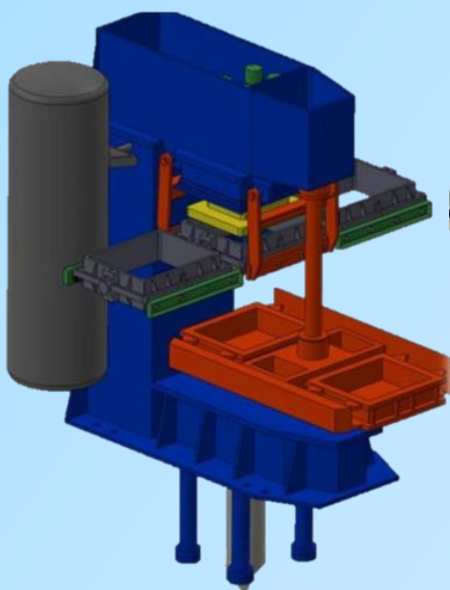


Redefine The Way You Mould



DARPA Series



**Air Impulse
Mouldmaster**



DT Series

Your Green Sand Moulding Partners

Simultaneous Jolt Squeeze Moulding Machine

The DARPA Series:

With more than 2 decades of experience in building and manufacturing the most dependable foundry equipment running across the country.

The DARPA series provides the most sturdy design and serves as the benchmark for simultaneous jolt squeeze moulding machine.

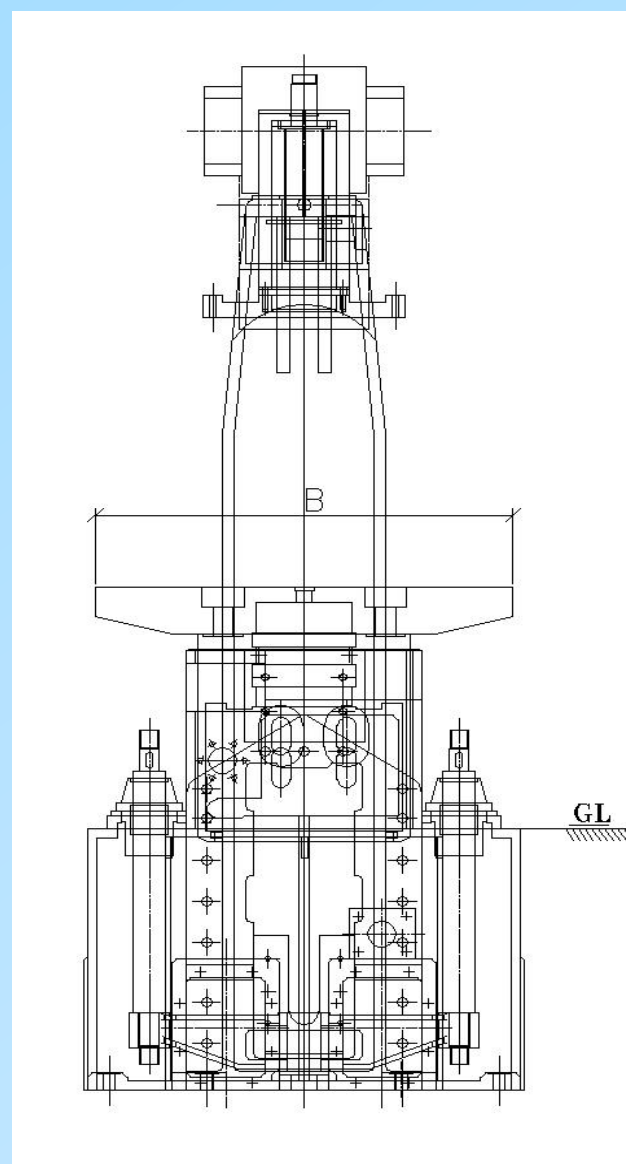
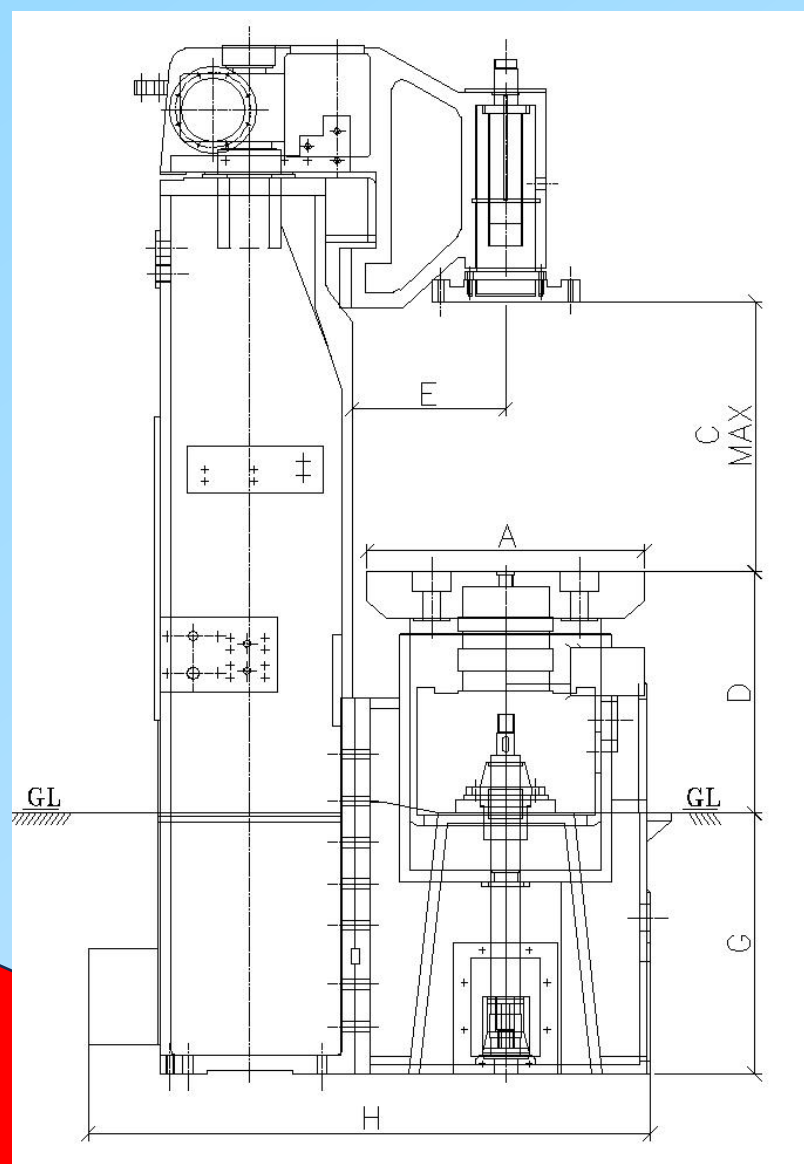
The high frequency, low amplitude jolting with high dynamic squeeze force for uniform and rigid moulds is engineered for easy maintenance.

All parts accessible above floor level for easy maintenance.

*Optional Pattern Shuttle for 900 and 1300 Moulding Machines to produce, cope and drag moulds with one machine

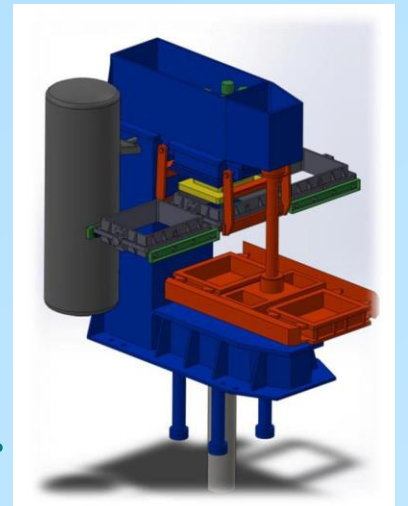
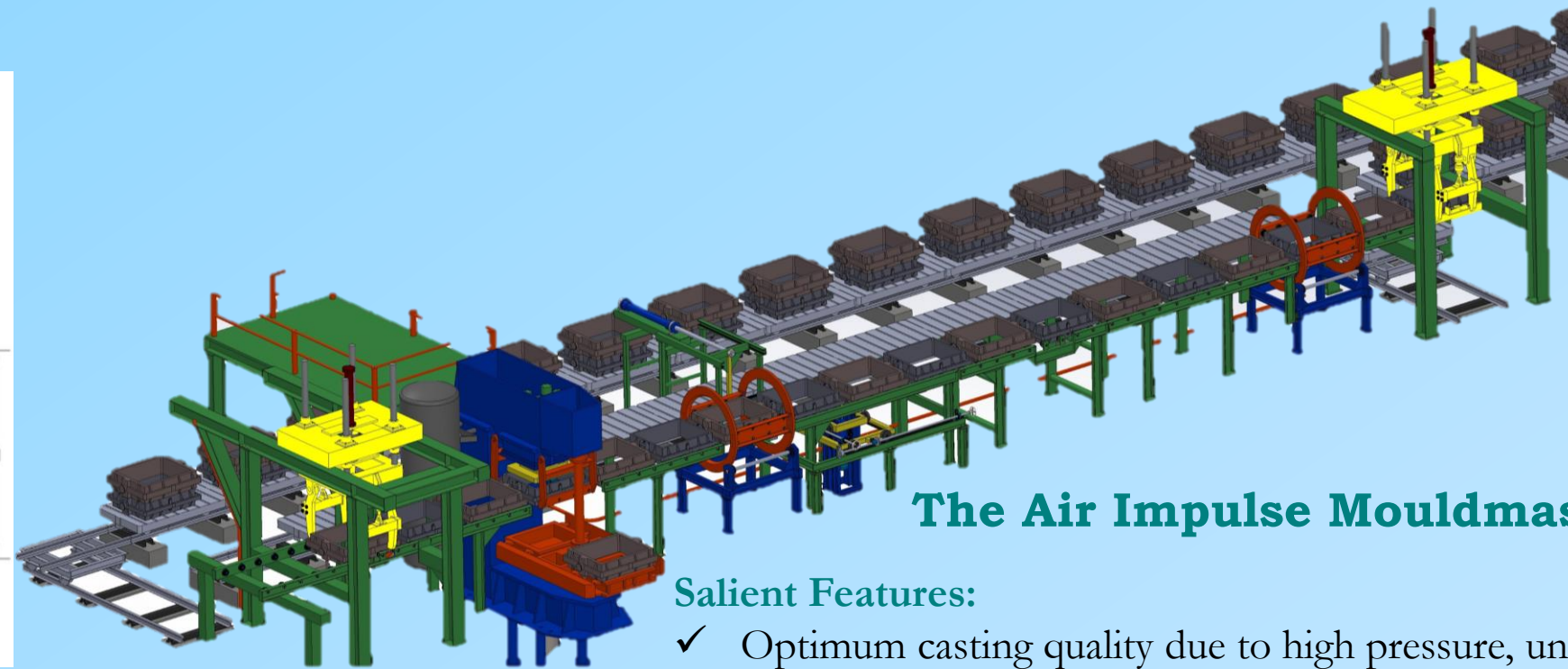
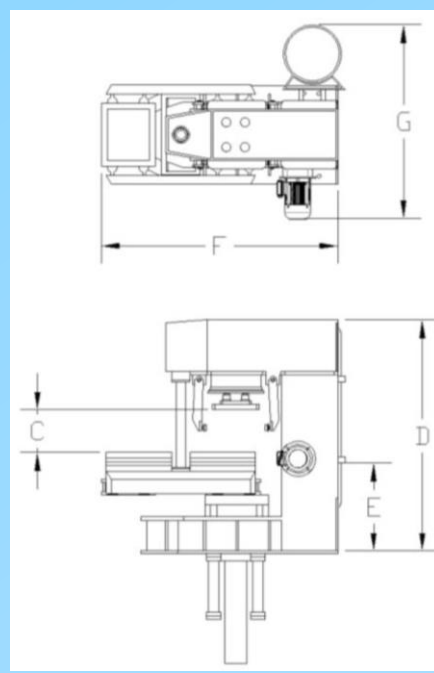
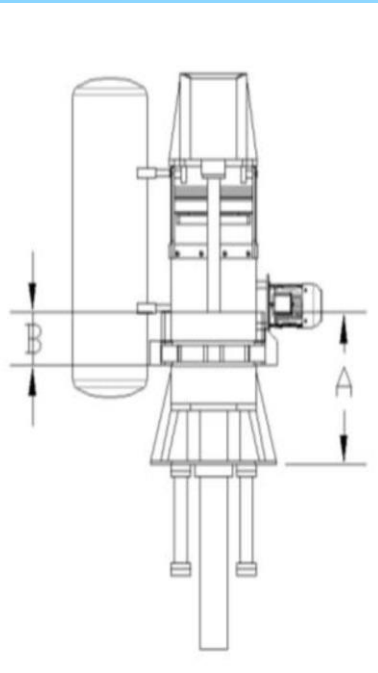
Salient Features:

- ✓ Sturdy Construction
- ✓ Better Productivity time with cycle time of 12 to 25 sec
- ✓ Centralized and Automized Lubrication System
- ✓ Pneumatic Controls
- ✓ Shockless high frequency with low amplitude jolting
- ✓ Optional automatic PLC Control System
- ✓ All pneumatic system of FESTO



Technical Parameters		DARPA 300	DARPA 450	DARPA 700	DARPA 900	DARPA 1300
		300	450	700	900	1300
Jolt Capacity	kg	300	450	700	900	1300
Squeeze Force						
Static	Kgf	5000	8000	15000	20000	25000
Dynamic	Kgf	15000	24000	40000	50000	62500
Pattern Draw	mm	220	320	350	350	360
Dimensions						
Table Length (A)	mm	580	680	800	980	1050
Table Width (B)	mm	960	1050	1200	1280	1400
C	mm	580	630	700	870	730
D	mm	670	700	710	780	820
E	mm	320	415	430	565	585
F	mm	1970	2260	2420	2620	2760
G	mm	510	620	740	940	1090
H	mm	1500	1780	1890	2000	2100
Air Per ½ Mould	L	300	500	650	1000	1400
Air Pressure	bar	6-7	6-7	7	7	7
Air Receiver Capacity	L	750	1000	1500	2000	3000

AIR IMPULSE MOULDMASTER (AIM) High Pressure Moulding Machine:



The Air Impulse Mouldmaster

Salient Features:

- ✓ Optimum casting quality due to high pressure, uniform mould compaction
- ✓ Mould separation after impulse squeeze ensures minimal mould breakages
- ✓ Only one sand supply system, this saves installation costs with optimum utilization of sand resulting in reduction of sand wastage
- ✓ Full utilization of pattern plate due to better compaction of pattern areas located close the flask wall

The AIM Line:

- **Mould Handling System:** protects the mould integrity through perfect synchronization
- **Separation Cum Punch Unit:** Line starts with a separating unit setting the cope and drag flask on the moulding line.
- **Unit Cleaner:** this ensures smooth operation of the line and helps to improve mould quality
- **Rollover Devices:** Helps to prevent sand spill on the moulds
- **Drilling Station:** A low cost cup drilling station (manually or automatically)
- **Mould Closure:** Cope Flask set on to drag with high precision, due to heavy guide rods and active position units of cope and drag flasks.
- **Transfer Station:** Finished moulds are transferred with reliable frequency inverter drives which ensure good motion controls
- **Cooling Line:** Equipped with hydraulic push and breaking cylinders for acceleration and deceleration
- **Flasks:** Robust flasks designed to withstand pressure forces during impulse and squeeze.

Technical Parameters		AIM I	AIM II	AIM III
Table Size	mm	750 x 560	950 x 710	1155 x 860
Mould Box – inside Minimum	mm	450 x 300	550 x 450	700 x 550
inside Maximum	mm	650 x 500	800 x 650	1000 x 800
outside Maximum	mm	850 x 650	1000 x 850	1250 x 1050
Squeeze Stroke Maximum	mm	200	250	300
Separating Stroke Maximum	mm	200	300	400
Squeeze Force Adjustable Upto Maximum	mm	310	500	735
Electrical Connected Load	kW	5.5	7.5	11
Weight	kg	6000	9500	20000
Dimensions:				
A	mm	1180	1500	1870
B	mm	600	450	300
C	mm	490	605	605
D	mm	2510	3085	3635
E	mm	655	1160	1680
F	mm	2700	3530	4400
G	mm	2300	2850	3600

Special Purpose Moulding Machines:



Goliath High Pressure

The Goliath Jolter Mouldmaster:

Our biggest jolting moulding machine specially designed to handle, manage and produce large castings with sizes extending upto **3.6mt x 2 mt x 500 mm (H)** with a jolting capacity of upto 12 MT with hydraulic squeeze arrangements along with pattern shuttling systems/ pattern stripping with complete mould handling lines. Managing a mould hardness of 90BHN vertical and 95 BHN horizontal.

Specially designed for Railway Bogey's.

The D66 Super High Pressure:

Our special purpose High Pressure Moulding Machine designed to manufacturer round castings with a smaller height of upto 50mm. The machine has been designed to manufacture upto 360 moulds in an hour with optimum hardness and the lowest possible rejection of around 1% of total moulds made. The same can be paired with your existing green sand line or added as a new line altogether to manufacturer stackable castings.

Specially designed for all Round Castings/ Rings.

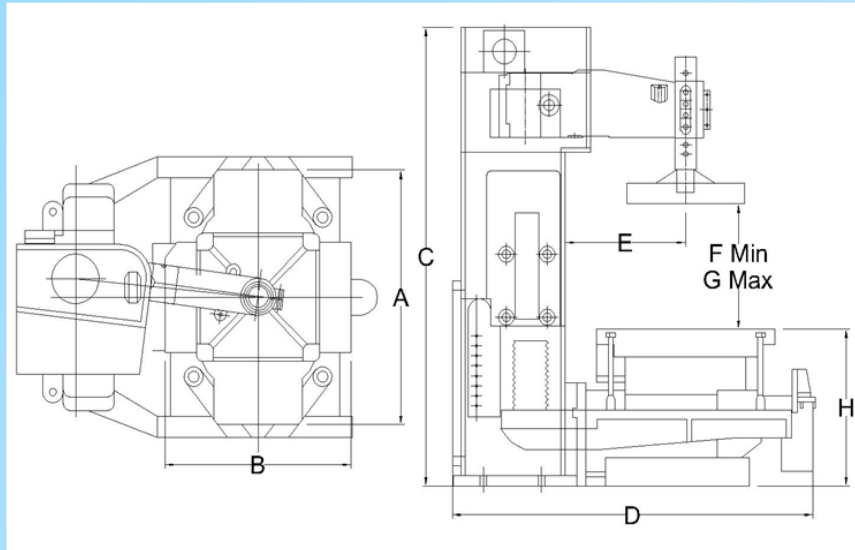


D66 High Pressure

Anvil Type Jolt Squeeze Moulding Machines:

Salient Features:

- ✓ Springless Anvil Jolter
- ✓ High Jolt Amplitude
- ✓ Combined jolt squeeze for rigid mould and short cycle
- ✓ Oleo-pneumatic pattern draw for precise stripping and oleo-pneumatic swing arm
- ✓ No pit work – on ground level



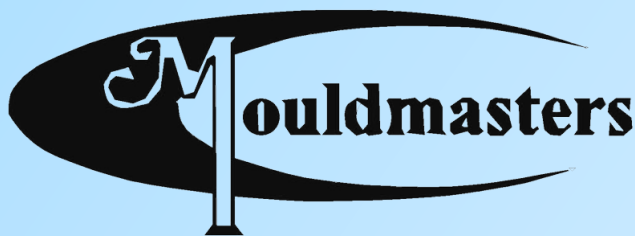
Technical Parameters		DT 450	DT-3 (Regular)	DT-3 (Superior)	DT-7
Jolt Capacity	Kg	450	680	680	2100
Squeeze Force					
Static	Kgf	9000	7210	9000	20000
Dynamic	Kgf	22500	18000	22500	55000
Pattern Draw	mm	320	320	320	330
Dimensions					
Table Length (A)	mm	1100	1000	1100	1400
Table Width (B)	mm	800	800	900	1095
Height (C)	mm	2095	2095	2095	2475
Width of Machine (D)	mm	1575	1575	1575	2095
Column to Squeeze Plate Centre (E)	mm	490	490	490	585
Minimum Height (F)	mm	384	384	384	560
Maximum Height (G)	mm	463	613	613	865
Height of Table (H)	mm	875	750	750	820
Table Size -Roller Lift	mm	1100x600	1000x500	1100x600	1400x750
Air Per ½ Mould	L	500	450	500	1100
Air Pressure	bar	6.3 Kg/ cm/ 90 psi			

Reconditioning and Overhauling Equipments:

We at Mouldmasters, with over 30 years of foundry machine manufacturing and maintenance we help foundries re-condition their existing moulding machines to bring them back to their original form and increase their useful life for production.

- ✓ We work closely with the foundries to understand the issues they face with their moulding machines and help eliminate all redundancies they might face during production.
- ✓ With an over 100 point check of the existing moulding machine, the equipment is brought back to its original form prior to its assembly and all its parameters are re-checked and re-machined to bring them back to their original form.
- ✓ We refurbish/repair all makes, models and sizes of jolt squeeze and high pressure machines.
- ✓ We provide genuine spare parts to cater to all your maintenance needs
- ✓ With a team to support Pan-India supply of after sales service.

We also help convert existing jolt-squeeze machines to automated efficient lines with speeds of 80-100 moulds per hour, resulting in lower manpower requirements and increasing productivity.



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