GASBARRE ELECTRIC PRESS



Gasbarre | PTX-Pentronix | Simac



The Gasbarre Electric Press is available for precise compaction of powder into a wide variety of geometries. The technology utilized includes high-efficiency and high-precision drives to control the motion of the upper ram, die plate, and automatic die filling systems. Each axis of the press is freely programmable for complete control of the compaction cycle: die filling, upper punch motion/compaction, die motion, and ejection cycle. Movement of the press axes are performed by closed-loop control. Extreme precision and repeatability are the result.

KEY FEATURES

- Closed-loop controlled electric upper ram
- Closed-loop controlled electric lower ram
- Closed-loop controlled electric fill system ram

RIGID SIDE PLATE FRAME

- Precision machined and stress relieved assembly
- Precision key-locked upper/lower crowns
- Unitized assembly with support base

REMOVABLE DIE SET ASSEMBLY

- Upper punch plate (floating)
- Die plate (floating)
- Lower punch plate (stationary)
- Core rod plate (floating with die)
- Four post plate guidance

AUTOMATIC DIE FILLING SYSTEM

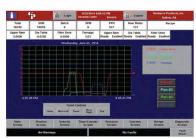
HMI-BASED CONTROL SYSTEM

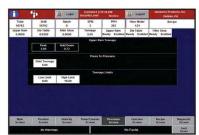
■ Featured below:



6T Gasbarre Electric Press











TECHNICAL DATA: GASBARRE ELECTRIC POWDER COMPACTION PRESSES (LOW RANGES)

6T	15T	20T
6 Tons US [53.3 kN]	15 Tons US [133.4 kN]	20 tons US [181 kN]
2.25	5" (57.15mm)	4.00" [101.5mm]
5.0	0" (127mm)	8.00" [203mm]
		- ALL VILLEY DEVICES
	Included	
13 in/sec [330.2 mm/sec]	12 in/sec I	[304.8 mm/sec]
		2.5 in/sec [63.5 mm/sec]
2 Tame 110 126 7 IANI	7.5. Tene LIC 106.7 IANI	40 Tame LIC IO4 IAN
		10 Tons US [91 kN] 10 Tons US [91 kN]
		4 in [102mm]
Cloded loop oo		
13 in/sec		14.6 in/sec [370.8 mm/sec]
		3.1 in/sec [78.7 mm/sec]
	Repeatability +/- 0.0005 in [+/-	
		04/1-100-0
	TBD	3½ in [88.9 mm] Flange Diameter
		3 in [76.2 mm] Body Diameter
LL.		1½ in [38.1 mm] Min Body length
	Per customer specification	ons
T- 100 T-		
2 in x 2 in	[50.8 mm x 50.8 mm]	4 in x 4 in [102 mm x 102 mm] (Aluminu
		9.8 in [250 mm]
		control programmable via touch screen
20 in/sec [508	3 mm/sec] Repeatability +/-	28 in/sec [711 mm/sec]
0.002	2 in [+/- 50.8 μm]	Repeatability +/- 0.001 in [+/- 25 .4 µm]
Si	pring Tension	Adjustable pneumatic force
	Elevated/Frame mounted with tra	ansfer hose
100		
10.	Manual grease fittings	S
	Included	
	Included	
	Included	
-	Included	
	Included	
Included		
	Included	
	Included	
	Load Cell (mounted to upp	per ram)
	Via touch screen	
	F CCFM @ 90 poi (5 5 box @ (20 lit/min1
5 SCFM @ 80 psi [5.5 bar @ 28 lit/min]		
100		
. IS	integrated with FFS	
E .	480-415-400-380 VAC/3-Phas	e/60-50Hz
	5 cfm @ 80 psig	
		0 27041
57 (2 mm x 2/94 mm]
	6700lbs.	
	2.25 5.0 Closed loop servo co 13 in/sec [330.2 mm/sec] 1.5 in/se 3 Tons US [26.7 kN] 2.25 Closed loop co 13 in/sec 1.5 in/se 2 in x 2 in 8 i Closed loop se 20 in/sec [508 0.002 Sp	2.25" (57.15mm) 5.00" (127mm) Closed loop servo control with position/velocity & force Included 13 in/sec [330.2 mm/sec] 12 in/sec 1.5 in/sec [38.1 mm/sec] Repeatability +/- 0.0005" in [+/- 3 Tons US [26.7 kN] 7.5 Tons US [26.7 kN] 2.25" [57.15 mm] Closed loop control with position & velocity control included via touch screen Included