

Hydraulic

POWDER COMPACTING PRESSES



rigid - flexible - precise

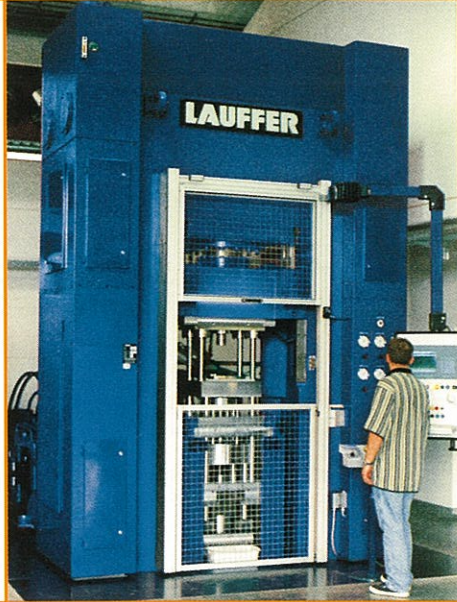
LAUFFER
PRESSEN

RPM...SE SERIES

Closed Loop Controlled Multi-Axes Presses

Hydraulic LAUFFER presses are designed to produce carbide, iron powder and ceramic based parts and have proven successful for many decades.

Our RPM ... SE series presses allow flexible programming and come standard with a closed loop control.



Important Features:

- Press frame is rigidly engineered and constructed
- Precise guiding of upper ram with 8-point gibbing
- Generous space for adaptor or tooling installation
- Wear-resistant and long-life hydraulic cylinders
- Precision CNC positioning of all axes with closed loop feed-back
- Highly responsive and rapid accel/decell of all forces of the axes
- Pressing to constant height and density
- Precise and infinitely adjustable closed loop controlled top punch hold-down
- Closed loop controlled punch spring-back compensation
- Underfill, overfill and profile filling
- Remote diagnostics via modem or ISDN
- Short die change times by quick clamp systems (no mechanical stops, no hydraulics/electrics in the adaptor)

LAUFFER powder compacting presses are equipped with up to 6 closed loop controlled axes and up to 4 further adaptor axes. This allows us to meet the increasing demands of the powder metal industry for the production of reproducible parts, without fracturing, and a reliable working process.

- Compacting up to pressing position via CNC closed loop controlled axes (no incidental retracting of the punch, caused by external conditions). This provides an ideal pressing sequence allowing powder to be directed exactly into the respective segments.
- Withdrawal and parts removal by defined, closed loop controlled compensation of the punch spring-back.

RPM...SE			100	160	250	400	630	800	1200
Standard design									
Upper piston	Pressing force	kN	1000	1600	2500	4000	6300	8000	12000
	Stroke	mm	400	400	400	500	500	600	600
Lower piston	Pressing force	kN	1000	1000	2500	3200	5000	6300	8000
	Withdrawal force	kN	630	800	1500	2000	2500	4000	6300
	Stroke	mm	200	250	250	300	300	300	300
Center pin in lower piston	Pressing force	kN	160	160	160	160	160	200	200
	Stroke	mm	200	250	250	300	300	300	300
Multi-axes design									
2nd press axis in upper piston	Pressing force	kN	630	1000	1000	2000	3200	4000	6300
	Stroke	mm	50	50	50	50	60	60	100
Center pin in upper piston	Pressing force	kN	170	160	160	160	160	160	160
	Stroke	mm	50	50	50	50	50	60	60
2nd press axis in lower piston	Pressing force	kN	630	630	1600	2000	2500	3000	3000
	Stroke	mm	50	50	50	100	100	100	100

Subject to changes. Additional specifications and sizes upon request.