



SC 80 - 2000 Smart Cells

Smart Production Cells from 80 - 2000 kN

PIONEER - Again!

The Smart Press Cell is the revolution in powder compacting production. Fully integrated production cells with one central HMI for programming and operation. Developed with our partners in worldwide production and based on their feedback and requirements. Current solutions are not designed for efficient production. Weakness in integration, interfaces, parameter exchange and control. Insufficient for operation and user-friendly safety integration.

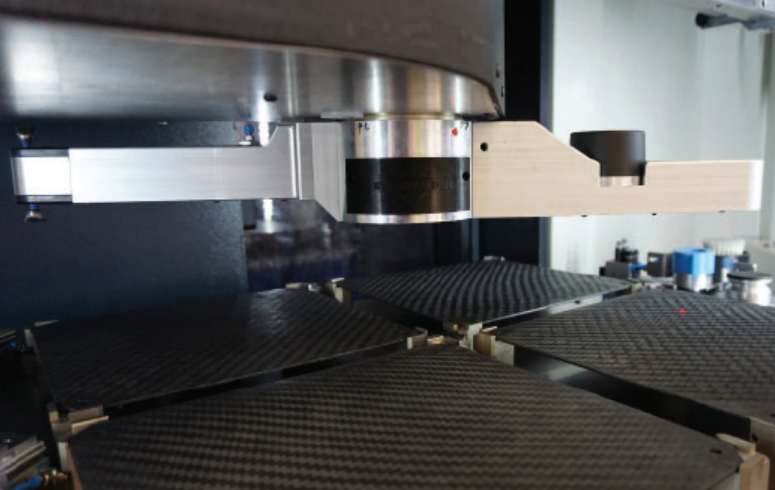
Benefits

- Fast data acquisition for programming and operation
- Full part traceability, the key element for digitalization
- Interlocking axis movement commands of press and part-handling for higher stroke rates
- Unmatched dynamics and accurate movements of the disruptive linear axes development
- No downtime for punch cleaning process
- Flexible tray layouts and ability for max. 3 hours without operator interference
- Central dust collection against powder contamination
- One contact for all customer needs with excellent support and services

Not to forget lacking efficient and fast customer support. Osterwalder has a long experience with combined solutions of powder presses and automation systems. The SC series is the solution for a fully integrated performance production. Entire smart press cell series from the benchmark: Osterwalder! Smart Press cells are available for all Osterwalder single plate powder compacting presses from 80 to 2000 kN press force.

Features

- HMI and control operate on a central point for all machine operations, data and parameters
- One contact for project, installation, training, service
- Optimised mass reduction and rigid axis movements
- Weight-balanced twin-gripper with highest repeatability and with smart insertion/adaptors for all pick-up standards and integrated punch-cleaning
- Wide space (500 x 1000 mm) and highest flexibility for specific tray arrangements and formats
- Smart part cleaning with cyclone technology
- Modular setup for extensions with tray stackers, AGV etc.



Outstanding twin arm and gripper technology



Part deburring - Airclean cyclone- Scale

Smart Cell	Axes	Stroke	Force	Speed	Filling height
SC 80	Upper punch (A)	130 mm	80 kN	350 mm/s	50mm
	Lower punch (ejection principle)	130 mm	80 kN	350 mm/s	
	Core rod (N)	50 mm	30 kN		
SC 160/160 XL	Upper punch (A)	180 mm	160 kN	350 mm/s	100 mm
	Die counterforce/withdrawal	100 mm	80 kN	200 mm/s	
	Core rod (N)	130 mm	40 kN		
SC 320/320 XL	Upper punch (A)	180 mm	320 kN	350 mm/s	130 mm
	Die counterforce/withdrawal	180 mm	190 kN	200 mm/s	
	Core rod (N)	130 mm	40 kN		
SC 640	Upper punch (A)	180 mm	640 kN	350 mm/s	150 mm
	Die counterforce/withdrawal	180 mm	270 kN	200 mm/s	
	Core rod (N)	180 mm	80 kN		
SC 2000	Upper punch (A)	350 mm	2000 kN	350 mm/s	120 mm
	Die counterforce/withdrawal	120 mm	80 kN	200 mm/s	
	Core rod (N)	120 mm	80 kN		
SC 2000 Performa	Upper punch (A)	350 mm	2000 kN	350 mm/s	180 mm
	Die counterforce/withdrawal	320 mm	640 kN	200 mm/s	
	Core rod (N)	180 mm	80 kN		
Repeatability	± 0.001 mm - SC80 - 640 ± 0.002 mm - SC2000	± 0.02 mm - Pickup Part		± 0.05 mm - Placing Part	

Illustrations in this document may feature optional equipment or deviations and products are subject to continuous technical modifications and thus are without obligation.



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