

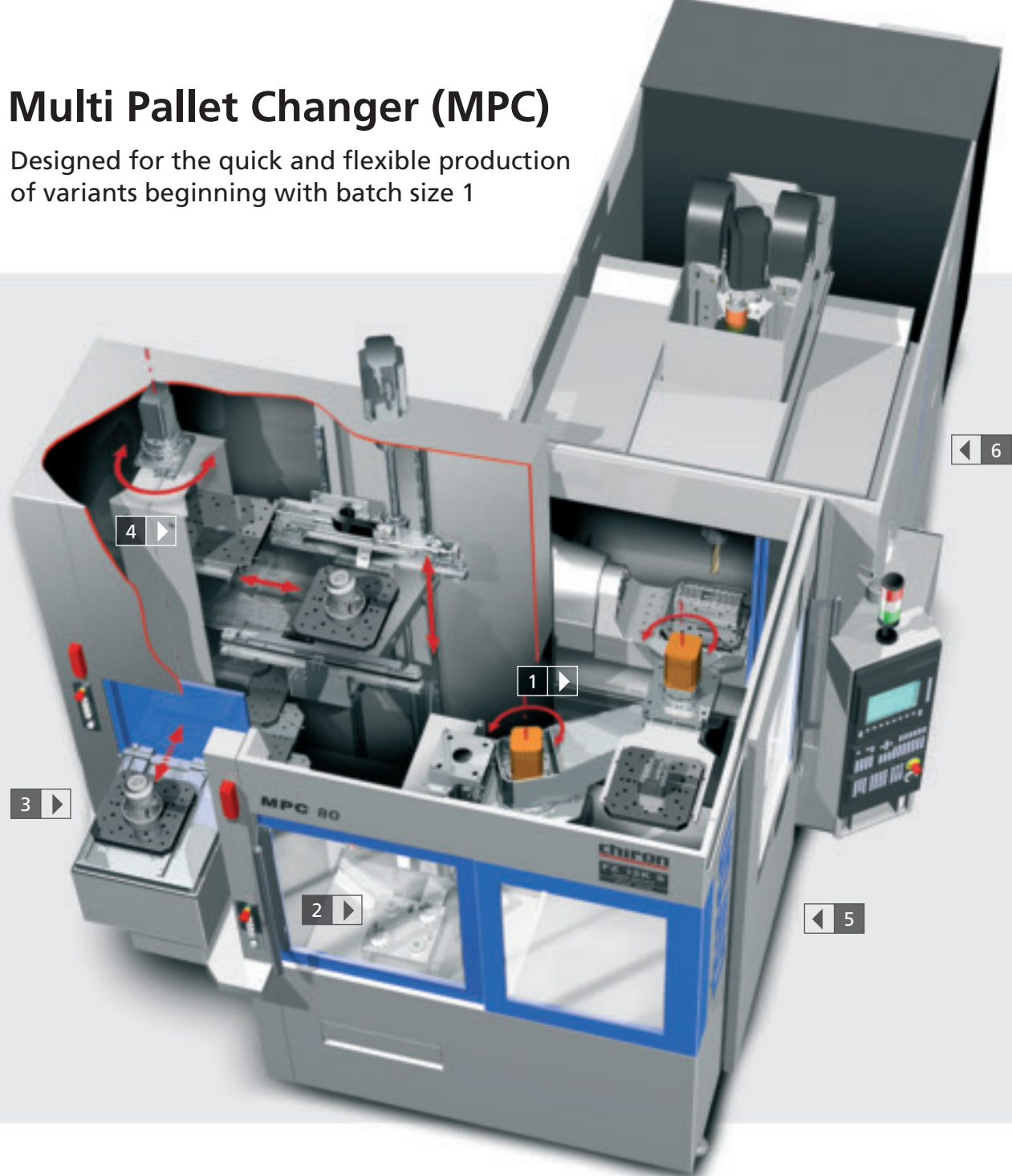


MPC-Multi Pallet Changer

Flexible Manufacturing Cell for Complete, Automated
Machining with Pallet Changer and Pallet Magazine

Multi Pallet Changer (MPC)

Designed for the quick and flexible production of variants beginning with batch size 1



1 Automatic pallet changer

Quick change of machine pallets with zero-point clamping system for continuous high accuracy. High utilization due to minimal pallet change time and fast NC axes. Robust mechanics for a broad spectrum of applications.



2 Loading position

for workpiece exchange during primary processing in high volume production with short cycle times. Encapsulated area with rinsing devices for process safe workpiece exchanges and coolant return with chip collecting tray. Hydraulic / pneumatic energy supply for automatic clamping devices and airsensing control (optional). Ideal ergonomics for access and control elements.

3 Setup station

for the preparation of clamping devices without interrupting the production cycle. Automatic retrieval of machine pallets for loading with raw parts, and replacement in pallet storage for fully automated operation. Hydraulic / pneumatic energy supply for automatic clamping devices and confirmation that workpiece is correctly clamped (optional). Unobstructed access for the possibility of crane loading.

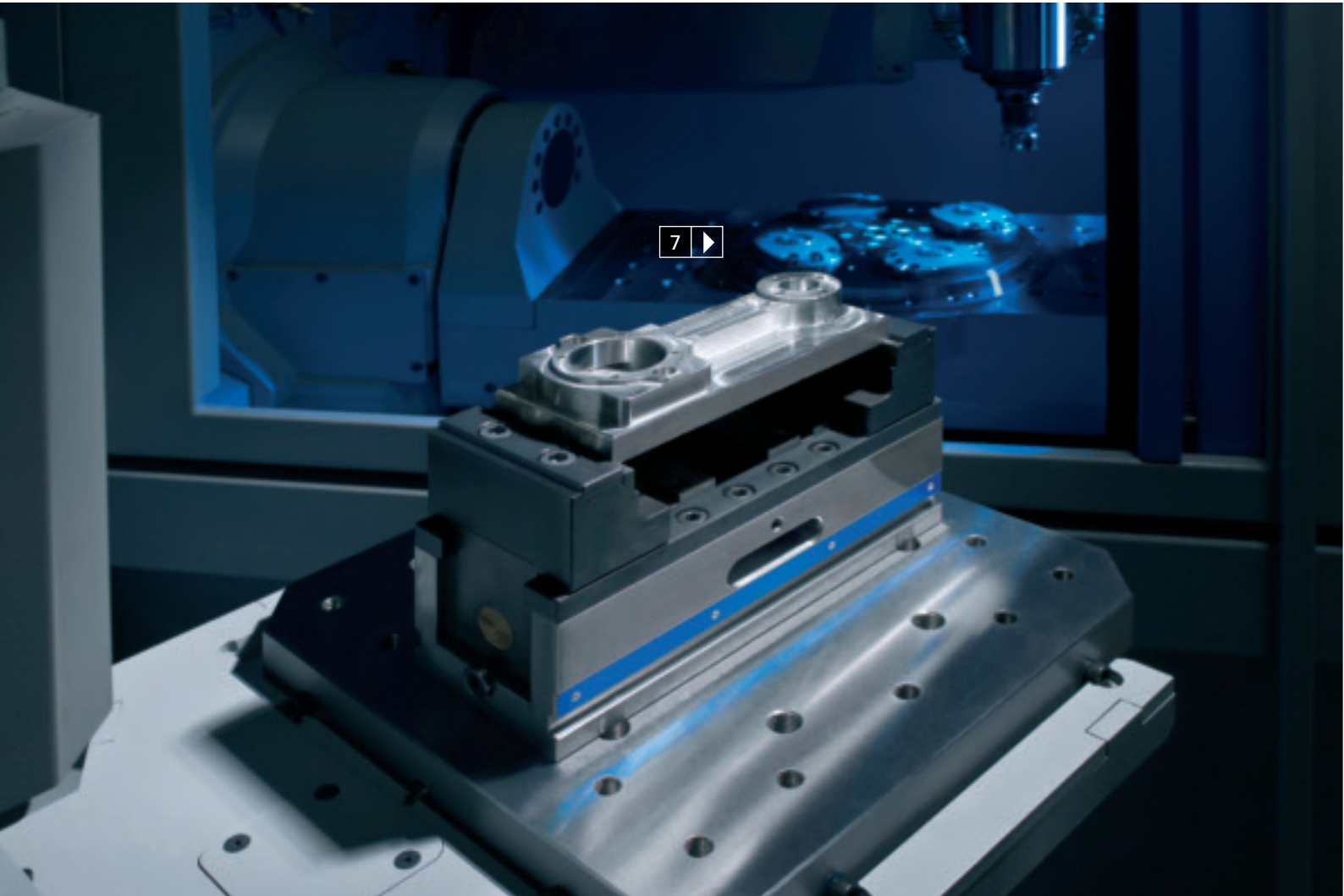
4 Automatic pallet storage

for storage of raw or finished parts pallets for fully automated operation. Space-saving, vertical magazine for a large supply of workpieces requiring minimal space. Storage of pre-loaded machine pallets for quick, automatic retooling during high volume production.



Fast, Faster, MPC

Near-manless machining of single piece and low volumes



5 Setup

of new machining processes with unrestricted access to the machine work area. Convenient access to the machine control with the swivelling control panel. Comfortable working access through large door openings.

6 Process prove out

and programming through the side window with the swivelling control panel. Ideal visibility into the work area for process monitoring.

7 Zero-point clamping system

for highest repeatable accuracy. Rigid connection between the machine and clamping device for any application.





8 Automatic background magazine

Large part diversity requires the availability of an extensive tooling supply. Additional cutting tool capacity with up to 215 tool spaces in the background magazine. Quick access to all tools during processing through an intelligent tool management system.

9 Tool exchange door

for insertion and removal of tools during primary processing for replacement or retooling.

System Overview

Compact, Fast, and Scalable



Series	MILL			
	FZ 15			
	FZ 12			
	FZ 08			
System	MPC 80			MPC 160
Pallet size	Ø 115 mm	220 x 220 mm	320 x 320 mm	450 x 450 mm
Max. pallet weight	20 kg	40 kg	80 kg	160 kg
Set-up from the upper edge of the pallet	150 mm	200 mm	250 mm	300 mm
Storage capacity	12	11	10	9
Increased storage capacity	60	22	16	–
Pallet change time	7.0 s	8.0 s	10.0 s	12.0 s

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