

Core handling systems

On customer request, SUZHU supply core machines are equipped with integrated automated core handling systems with robots and data transfer.

SUZHU produces handling systems based on industrial robots ABB or KUKA and keeps long-term cooperation with both companies as a certified supplier. SUZHU develops and builds its own core grippers accordingly to the customer's request.

Core handling systems include **partially automation or fully cycle of automation**:

- **core picking up** by robot with special SUZHU gripper
- **core painting** including paint batch with paint mixing pump
- **core drying oven** continuously working, temperature programmable in selected areas, electric or gas
- **core transportation system** with roller conveyors and transfer cars, core pallets
- **core storage** fully automatic including storage software
- **core setting by robots** laser check of core and mould surface and positioning according really mould location
- **core setting** especially for green sand lines (automotive) by traditional core setting devices
- **data transfer** core making and storage conditions and connection with mould or casting number





Core pick-up from core box by robot

Core machines Z84 series

with central sand mixer and sand supply

with automation of core picking-up, painting and core transport system



Automatic handling system for central cores for Railway castings bolster and frame, including

- continuous core drying oven
- storage including storage software and core lifetime supervision
- transport to moulding line
- core setting robot with laser check of core and mould surface and positioning according to really location of mould
- core data transfer

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