

frz1001

FLEXIBLE FEED SYSTEM



The robot cell for the feed of bulk goods with different part geometries

DESIGNED FOR:

- Loading and unloading of machine tools
- Loading and unloading of plastic injection moulding machines
- Assembly, press and punching machines



INTELLIGENT AUTOMATION

frz1001

FLEXIBLE FEED SYSTEM

FUNCTION

The parts that have been programmed into the system are gently transported onto a conveyor belt where they are detected by a camera. The camera calculates the robot coordinates and the robot takes the part off. Parts that have already been set up can be called up again and executed at any time. New part types can be quickly and easily taught into the system as well.

APPLICATION AREAS

- Loading and unloading of machine tools
- Loading and unloading of plastic injection moulding machines
- Assembly, press and punching machines

TASKS POSSIBLE DURING PRIMARY PROCESSING TIME

- Testing, measuring, deburring, labelling, assembling, drying, preserving

SYSTEM CHARACTERISTICS

- Functional and innovative automation concept
- Always reliable
- High value retention
- Attractive design
- Only high-quality components
- Robots up to a handling weight of 10 kg
- Robot model, design and capacity data adapted to the production requirements of the customer
- Control of the robot via interface: Input/output assignment or Profibus
- Control panel with 7 function buttons (Start/Stop/Quit/Door/Emergency Off/Operating Mode/Step Mode)
- Feed via conveyor belt
- Fast and easy retooling
- Minimum space requirements due to compact design
- High repeatability
- Stable tubular frame
- Perimeter sheet steel cladding
- Viewing areas with shatter-proof Makrolon panes
- High quality paint finish in RAL 7035 (light grey)
- Background lighting for precise position detection of the parts
- Integrated feed system that is gentle on parts
- Integrated control cabinet

HIGH PROFITABILITY THROUGH

- Minimal investment costs
- Fast and easy retooling
- Fast amortization – within only a few months in 3-shift operation
- Extensive parts variety
- Compact design
- Maintenance friendly

COMMISSIONING / SERVICE

- Pre-programming of parts in the manufacturing plant
- Short on-site assembly time/commissioning time
- Training for machine operators/programmers in the plant or on-site
- Fast on-site service with immediate response

OPTIONAL

- Parts are taken off of pallets
- Completion notification visual display (red/green)
- Floor shifting unit with fixation
- Measuring of the workpieces
- NOK tray – SPC tray for measurement control
- Paint finish in RAL colours – customer preference
- Special solutions on customer request

TECHNICAL DATA

Length:	2040 mm (incl. feed)
Width:	743 mm
Height:	2010 mm
Weight:	280 kg



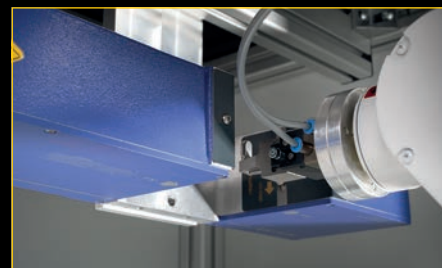
Control panel



Robot grasps parts from the conveyor belt

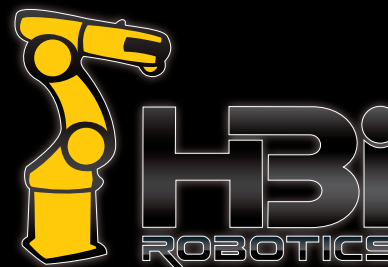


Control panel with 7 function buttons



Measuring of parts

Subject to change without notice / errors and omissions excepted. Version: October 2016



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