

Committed to performance.
Dedicated to deliver.

MILLSTACKER PREMIUM 25/35

- ✓ For milling
- ✓ High capacity for workpieces up to 280 mm
- ✓ Easily moved from one CNC machine to another
- ✓ Set up in less than 5 minutes
- ✓ Preparing new batch while robot is running



FEATURES

System

| | |
|--------------------------------------------------------|-----------------|
| Rigid industrial construction | ✓ |
| Rotating loading table | ✓ |
| Full enclosure and protection | ✓ |
| Movable | by pallet truck |
| Placed on 3-point self-centering anchors | ✓ |
| Fanuc 6-axis robot arm | 25 kg/ 35 kg |
| Drip tray for leaking coolant | ✓ |
| Workpiece side-gripping station | Option |
| Workpiece turnover station for two-sided machining | Option |
| Status light | Option |
| Standard robot-machine interface for every CNC machine | ✓ |

HALTER SmartControl

| | |
|-------------------------------------------------|---------|
| Intuitive and graphical programming in 12 steps | ✓ |
| Touch screen | 15 inch |
| Free choice of pre-installed language | ✓ |
| Input can be entered in inches or mm | ✓ |
| Software analysis for machine utilization | ✓ |
| Automatic program storage | ✓ |
| Max. number of CNC machines to connect with | 4 |

HALTER SmartControl standard functionalities

| | |
|---------------------------------------------------------------|---|
| Positioning workpiece in machine vise with soft push function | ✓ |
| Workpiece regripping for accurate positioning | ✓ |
| Inside and outside gripping | ✓ |
| Adjusting airflow distance | ✓ |
| Working with spindle orientation of the CNC machine | ✓ |
| Eccentric loading and unloading | ✓ |
| Robot park positioning button | ✓ |

HALTER SmartControl enables the following optional functionalities

| | |
|--------------------------------------------------------------------|------------|
| Workpiece turnover function for two-sided machining | Option |
| Unloading workpiece on pallet | Option |
| Unloading workpiece on external fixed position, e.g. conveyor belt | Option |
| Unloading of residual material | Option |
| Cleaning of workpiece outside the CNC machine | Option |
| Positioning workpiece on measuring station | Option |
| Removal of rejected workpieces | Option |
| Workpiece side-gripping | Option |
| Customer-specific functionalities | On request |

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Grippers

| | |
|--------------------------------------------------------|--------|
| 2-finger gripper for rectangular workpieces | ✓ |
| Separate grippers for raw and machined workpieces | ✓ |
| Airflow system | ✓ |
| Workpiece detection system by open/close message | ✓ |
| Quickly adjustable gripper fingers | ✓ |
| Workpiece-specific gripper fingers | Option |
| Pressure sensor on the robot arm monitors air pressure | ✓ |

Safety

| | |
|------------------------------------------------------------------|--------|
| In-machine-space function | ✓ |
| Fanuc DCS area in combination with the Sick floor scanner | ✓ |
| Sliding door provided with safety sensors | ✓ |
| Standard safety fence between CNC machine and the Halter | ✓ |
| Autom. servo-driven door opener with integrated safety mechanism | Option |
| Closed safety circuit | ✓ |

Input

| | |
|-------------------------|---------|
| Voltage | 400 V |
| Peak consumption | 16 A |
| Compressed air pressure | 6,5 bar |

Dimensions

| | |
|--------------|-------------------|
| Length | 1750 mm |
| Width | 1434 mm |
| Height | 2220 mm |
| Total weight | 1210 kg / 1220 kg |

Capacity

| | |
|---------------------------------------------------------|-----------------|
| Minimum workpiece (L x W) | 40 mm x 40 mm |
| Maximum square workpiece (L x W) | 180 mm x 180 mm |
| Maximum rectangle workpiece (L x W) | 90 mm x 280 mm |
| Height of workpiece (min - max) | 10 mm - 175 mm |
| Maximum load capacity robot arm | 25 kg / 35 kg |
| Maximum total weight on rotating table | 1265 kg |
| Maximum stacking height | 350 mm |
| Number of stacking stations (1 empty) | 12 |
| Maximum weight per station | 115 kg |
| Max. number of workpieces at workpiece height of 10 mm | 385 |
| Max. number of workpieces at workpiece height of 20 mm | 187 |
| Max. number of workpieces at workpiece height of 50 mm | 77 |
| Max. number of workpieces at workpiece height of 70 mm | 55 |
| Max. number of workpieces at workpiece height of 85 mm | 44 |
| Max. number of workpieces at workpiece height of 110 mm | 33 |
| Max. number of workpieces at workpiece height of 150 mm | 22 |

BENEFITS

The HALTER LoadAssistant offers enormous advantages for your business. The experience from the users of the HALTER LoadAssistant shows us that this investment can be repaid very quickly (6-18 months).

- ✓ You realize extra output because the actual spindle hours no longer exclusively depend on the regular working hours. Also within regular working hours you realize more output, because the robot has no breaks or downtime.
- ✓ You can better respond to small or unexpected orders, because of the quick set-up time of the CNC robot cell and because it can also be run outside regular working hours.
- ✓ Decrease of hourly production costs, because the labor costs of an operator are 5 to 8 times higher than the depreciation costs of the HALTER LoadAssistant robot cell.

WORKPIECE-SPECIFIC SOLUTIONS

Halter's application engineering team can design grid plates and special gripper fingers for your specific workpieces.



HALTER
CNC AUTOMATION

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