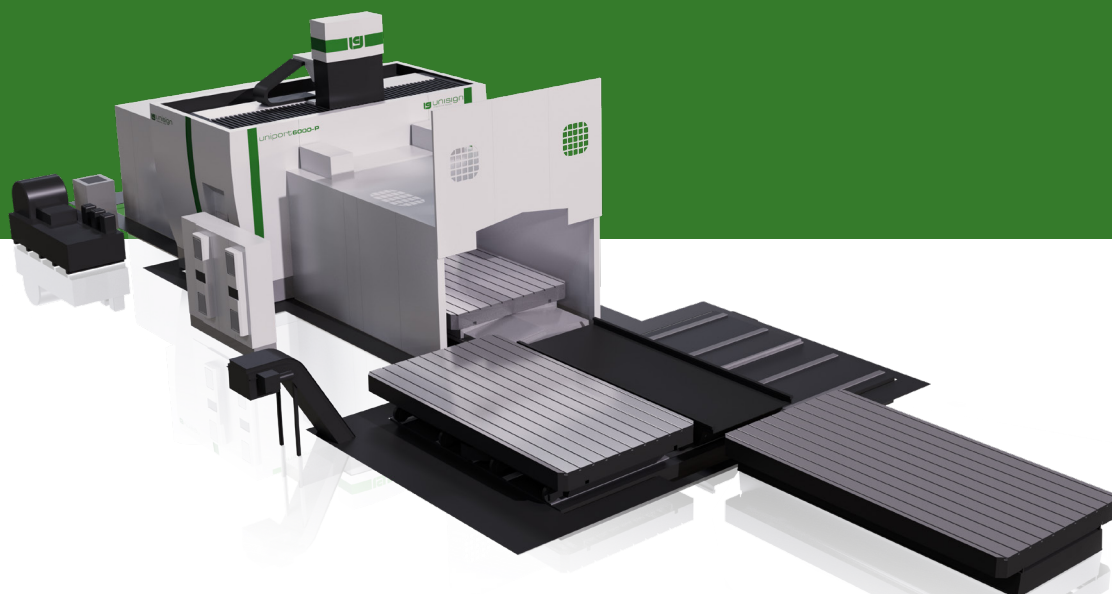




# UNIPOINT 6000-P

Portal CNC machining centre with pallet changer



# Pallet changer: maximum productivity and flexibility

Fully enclosed  
machining area

Large workpieces

**The UNIPORT6000-P is a vertical CNC machining centre with stationary portal bridge and pallet changer for large capacity 5-sided milling and drilling. The CNC machine is engineered for high performance and maximum productivity. Its integrated pallet changer allows for parallel loading and machining: while one workpiece is being machined, the next can be prepared — ensuring high spindle utilisation and continuous operation.**

**Ideal for large welded structures or castings, the UNIPORT6000-P can be configured with a wide variety of machining heads, making it perfectly suited for virtually any application.**

## Benefits

### Productivity & safety

The advanced pallet changing system allows for simultaneous loading and machining. This significantly increases spindle hours, minimizes downtime, and enables long periods of unattended operation.

The standard setup includes two pallets, each with its own dedicated loading station. More pallets can be added for even greater efficiency.

The pallet loading station is ergonomically accessible with the pallet surface 800 mm above floor level.

### Key advantages

- Continuous production process
- Minimized idle time
- Unmanned operation possible for longer periods
- Integrates well in automated cells

### A safe, clean working environment

The fully enclosed machine housing meets the highest safety standards, providing a safe and comfortable working environment — clean, dry, and well-organized.

With a large viewing window and an ergonomically placed control panel near the spindle, operators benefit from excellent visibility of the machining process.

UNIPORT6000-P  
[www.unisign.com](http://www.unisign.com)



**Flexible multi-sided machining**

The UNIPOINT6000-P combines a generous work envelope with powerful head configurations. The Unisign right-angle head indexes in 2.5° (optional 1°) increments around the C-axis, enabling efficient multi-sided machining without reclamping. For ultimate flexibility, the universal angular

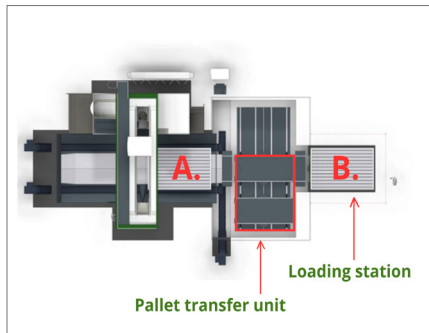
head is available. This head allows tool positioning at nearly any angle via both the B- and C-axis, also in 2.5° (optional 1°) steps.

**Key advantages**

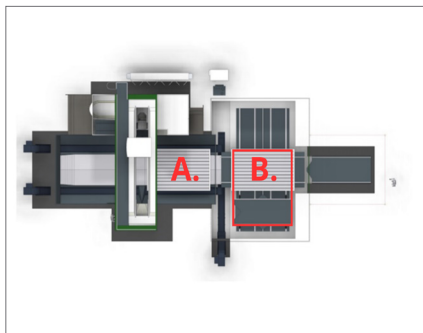
- Reduced setup times
- Faster cycle times
- Full access to complex surfaces and geometries

*UNISIGN... your partner in productivity!*

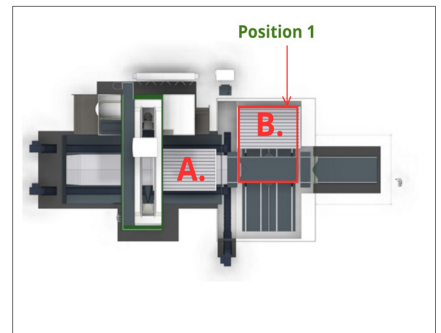
UNIPOINT 6000-P; pallet changing in 8 steps



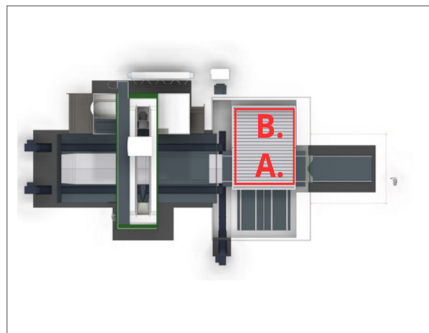
**Step 1: Starting position**  
Pallet A inside the machine  
Pallet B at the loading station.



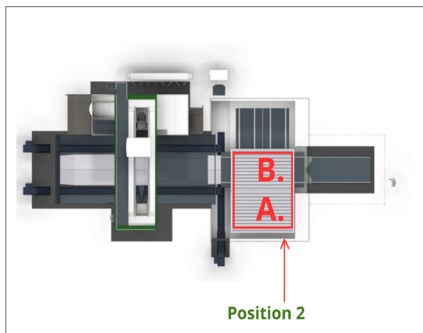
**Step 2: Preparing for pallet change**  
Pallet B moves from loading station to pallet transfer unit.



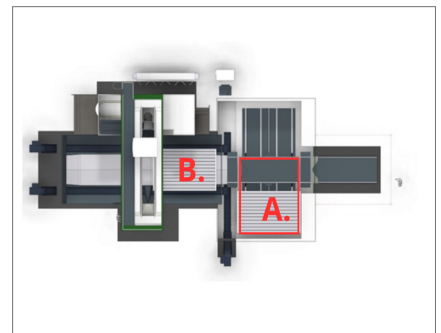
**Step 3: Initial position for pallet change**  
Pallet transfer unit, now carrying pallet B, moves to position 1.



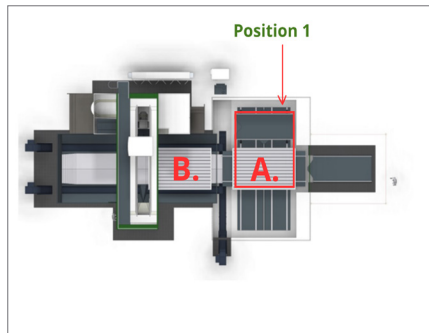
**Step 4: Executing the pallet change**  
Pallet A moves from machine to pallet transfer unit.



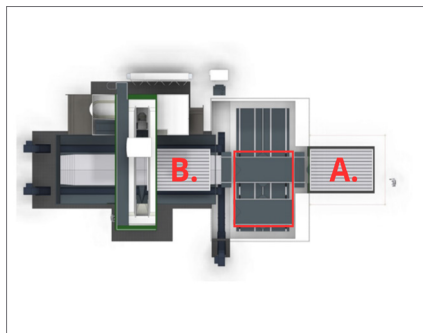
**Step 5: Swapping the pallets**  
Pallet transfer unit, now holding both pallet A and B, moves to position 2.



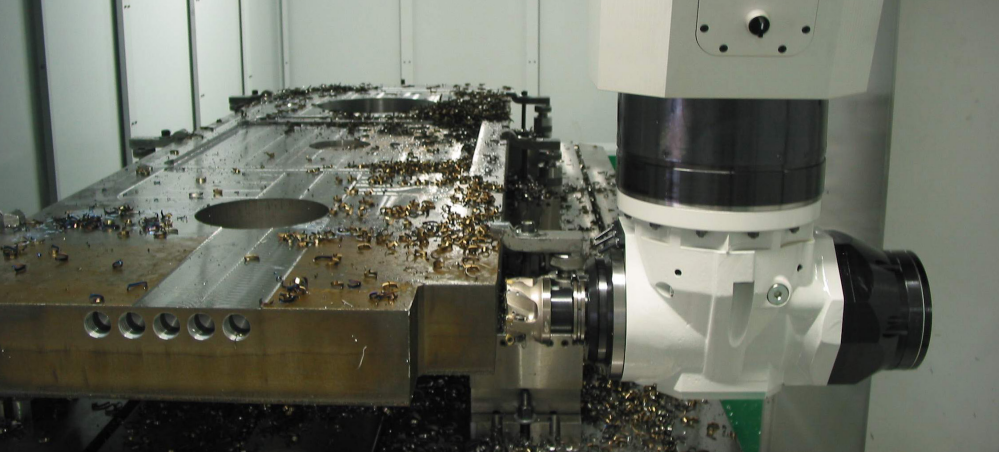
**Step 6: Completing the pallet change**  
Pallet B moves from pallet transfer unit into machine.



**Step 7: Preparing for unloading**  
Pallet transfer unit, now holding pallet A, moves back to position 1.



**Step 8: End of cycle**  
Pallet A moves from pallet transfer unit to loading station, ready for unloading.



# Technical specifications

The UNIPORT6000-P CNC machine is typically installed in a pit, to enhance accessibility. It offers a selection of spindle and torque configurations, along with two tooling interface options (HSK-A100 | ISO50).

## Work area

X-axis, longitudinal travel	mm	4.000 - 7.000
Y-axis, cross travel	mm	2.000 - 3.500
Width clearance portal bridge	mm	2.000 - 3.500
Vertical clearance portal bridge	mm	1.300, 1.550 or 1.800
Z-axis slide travel	mm	1.000 or 1.250
Pallet length	mm	3.000, 4.000, 5.000 or 6.000
Pallet width	mm	1.500, 2.000, 2.500 or 3.000

## Spindle

Gear box driven spindle: 36/54 kW  
Maximum spindle speed 6.000 rpm  
Maximum spindle torque 720/1.000 Nm

## Various

### Tooling

Taper size	HSK-A100 / SK50
Number of pockets	# 27-197
Tool change time	10 sec

### Speed

- Rapid traverse for X-axis	40.000 mm/min
- Feed rate	5 - 30.000 mm/min
- Rapid traverse for Y and Z-axis	40.000 mm/min
- Feed Rate	5 - 40.000 mm/min

## Accessories

Right angular head  
Universal head  
Siemens / Heidenhain

## Industries



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