



## Gantry Machines

*Excellent production of Large Parts*

# Dimension and Performance in Detail

Version as 30P/30PB | 40P/40PB | 50P | 30PP

- **CNC-Controls**

Heidenhain | Siemens

- **Performance Classes**

SK40|HSK-A 63 and SK50|HSK-A 100

- **Traverse Paths**

X-Axis 3,000 - 12,000 mm

Y-Axis 2,500 - 5,800 mm

Z-Axis 1,100 - 1,800 mm

- **2-Axis Fork Head**

continuously in both axes

simultaneously swiveling

Clamping of both axes by programme

- **Speed Range**

8,000 - 42,000 rpm

- **Power Range Motor Spindle**

16|30|50|68|90 kW

- **Torque**

100|191|530|575 Nm

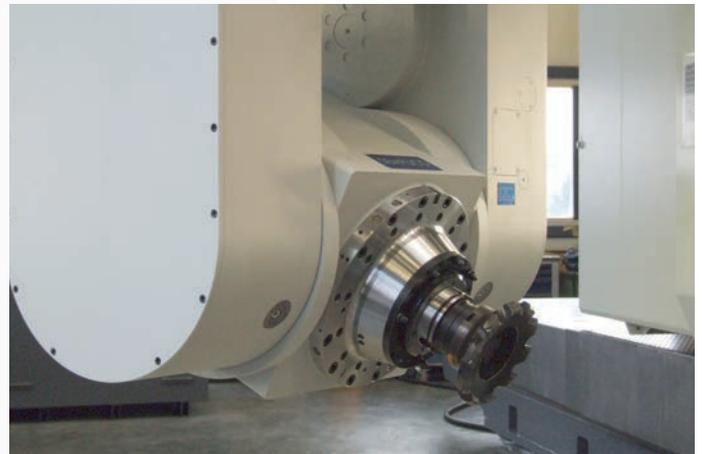
- **Tool Change Systems**

Tool magazines moving in X-axis | External

round storage for tools with change robot |

Pick-up magazine for angle heads | Multi spindle

heads and oversized tools.



# MATEC Gantry Machines, Superior Milling Solutions



In their combination four essential design features guarantee a perfect result in terms of precision and surface quality on the workpiece.

**Z-axis as carriage unit:** i.e. constant distance to the guide in each Z-axis position. Many conventional Z-axis systems become more unstable with every millimeter of extension stroke.



**The gantry cross-section** is significantly larger in the diagonal than the travel of the Z-axis. Thereby deformations due to bending and torsion are reduced to barely measurable values.

**Portal beam with three Y-guides.** Guide track distance is greater than the Z-axis stroke. This design transfers forces from the milling process directly into the static components of the machine. A vital effect in terms of precision.

The **2-axis fork head** has been designed for being used without compromise in its specific performance class. The fork head is the most stressed component of the machine. Stable bearings, electronically controlled movements and precise mechanical processes are guaranteed to succeed.



# It is your Choice



## **MATEC 30P | 40 P**

Ergonomic table variant  
perfectly suitable for flat workpieces



## **MATEC 30PB | 40PB | 50P**

Machine table/clamping surface on hall floor level | Fully  
accessible | Profitable for high and heavy workpieces



## **MATEC 30PP**

Variant with moving table and stationary portal | Load-  
dependent axis dynamics | Optional with pallet changer -  
Pallett: 2,000x2,000 | 3,000x2,000

# MATEC - at Home in Large Parts Machining



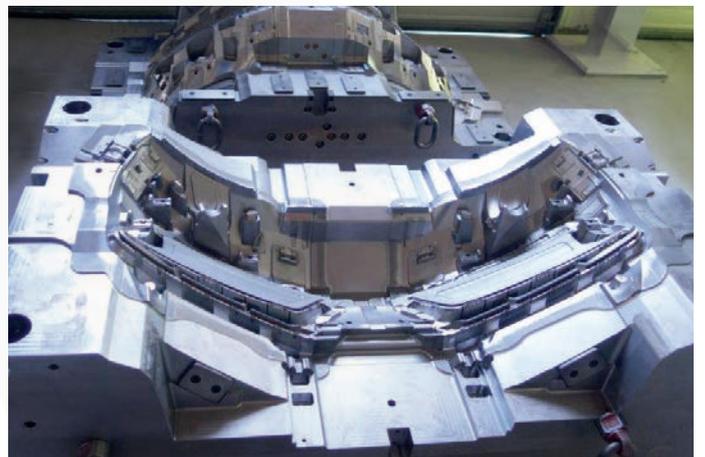
Aerospace



Engineering



Mould



Mould



Printing Industry



Medical Engineering

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