HEDELIUS

TRAVELLING COLUMN MACHINING CENTER WITH **HEAVY-DUTY AUTOMATION**

TILTENTA + MARATHON LR810



16:00 — 6:00 — 16:00

NIGHT

UNMANNED AND PROCESS-STABLE

+ **Autonomous operation:** Heavy-duty pallet production runs. Storage for up to 10 pallets, 800 × 800 mm. Up to 2,000 kg transfer weight.

DAY

FULL FOCUS ON MANUAL OPERATIONS

+ **Manual operation:** Full access to the front of the machine is maintained. XXL individual components can be loaded from the front.

CNC MACHINING CENTRES
MADE IN GERMANY

Large components, long travel distances and automated production are not mutually exclusive. With the combination of the TILTENTA 9-2600 and MARATHON LR810, HEDELIUS is presenting, for the first time, the interaction of a universal travelling column machining center with a high-performance heavy-duty automation system in a fully integrated, productive overall concept.

The new system combines an X-axis travel of 2,600 mm with automatic side loading, without restricting free access to the machine for flexible machining of individual components.

The MARATHON LR810 provides up to ten heavy-duty pallet positions and enables the automated loading of workpieces weighing up to 1,650 kg.

This makes the machine particularly suitable for companies looking to machine large individual components, small batches and recurring orders with diameters of up to 1,250 mm / 1,450 mm more economically.

During daytime operation, the TILTENTA remains highly flexible: Large and complex workpieces can be conveniently set up and machined manually.

Outside regular shift hours, the LR810 takes over automated loading – providing additional productive spindle hours, reducing downtime and improving machine utilization.

The result is a production concept that combines two key requirements: maximum flexibility for changing orders and increased productivity through unmanned operating times.

MARATHON LR810

- Workpieces up to
  TILTENTA 9: Ø 1.250 x 1.000 mm
  TILTENTA 10: Ø 1.450 x 1.200 mm
  TILTENTA 11: Ø 1.450 x 1.000 mm
- Pallet change in just 130 seconds
- Clamping height up to 1,200 mm
- 4-axis loading system with rotating gripper module
- 360° setup station for convenient workpiece handling













TECHNICAL DATA

Working Area	TILTENTA 9	TILTENTA 10
X, Y, Z axes (V/H)	2600/2030 x 900 x 900/1005 mm	2600/1730 x 1000 x 1000/1165 mm
Swivel range	-5° – +98° / -98° – +98°	
Transfer weight	2000 kg	
Number of pallets	10	
Pallet dimensions	800 x 800 mm	
Interference circle diameter	Ø 1250 x 1000 mm	Ø 1450 x 1200 mm
Performance		
SK40/BT40	14.000 min^{-1}, 117 Nm, 22 kW	–
SK40/BT40	14.000 min^{-1}, 185 Nm, 37 kW	–
HSK A63	15.000 min^{-1}, 217 Nm, 50 kW	–
HSK A63	18.000 min^{-1}, 136 Nm, 35 kW	–
HSK A63	24.000 min^{-1}, 123 Nm, 30 kW	–
SK50 / BT50 / HSK A100	–	8.000 min^{-1}, 300 Nm, 50 kW
SK50 / BT50 / HSK A100	–	12.000 min^{-1}, 300 Nm, 50 kW
Tool magazine		
Capacity (optional)	60 / 130* / 175* / 240* / 324*	40 / 192*
Tool length max.	330 / 390* mm	400 mm

*Optional