

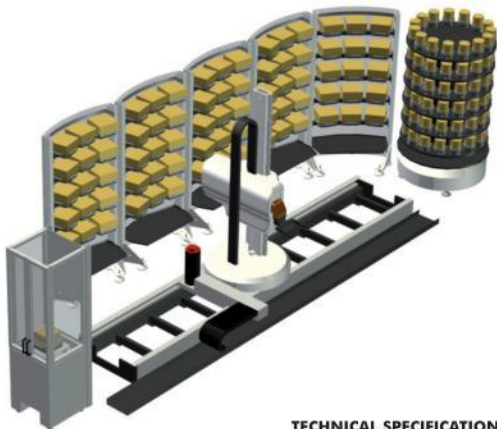
WorkMaster Linear



WORKMASTER LINEAR

is an automation concept that gives extreme flexibility. By placing WorkMaster on rails, the changer unit can be made to serve a large number of machines, and at the same time more space is created for magazines and peripherals.

Several designs of magazine are available. The basic variants are modular racks or rotating magazines, where the shelves are matched to the pallet systems in System 3R's wide range of products.



Typical fields of application are:

- ▶ milling – changing of workpiece and cutting tool
- ▶ grinding – changing of workpieces
- ▶ die-sinking EDM – changing of workpieces and electrodes
- ▶ wire EDM – changing of workpieces.

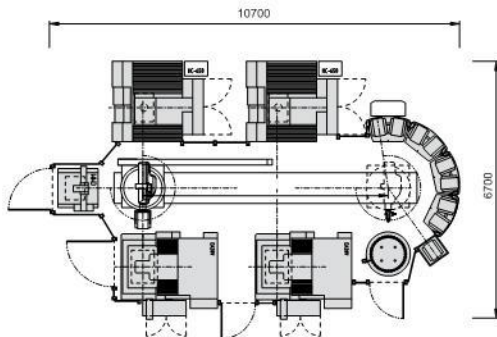
TECHNICAL SPECIFICATION

- Transfer weight – pallet with workpiece 75 kg or 150 kg, electrodes 10 kg
 - X-, Z- and C-axes – AC servomotor
 - Linear axis – AC servomotor
 - Max stroke, X-axis, 1250 mm
 - Stroke, Z-axis – 1400 mm
 - Rotation, C-axis, 300 degrees
 - Linear axis motion – 4 to 20 metres
 - Power supply required: three-phase 400 V AC, 3.5 kVA
 - Air pressure required – 6 ± 1 bar, 150 l/min
 - Interface - serial R232/422, M-function or parallel I/O
- ▶ Option – ID system with/without automatic scanning

CONFIGURATION EXAMPLE

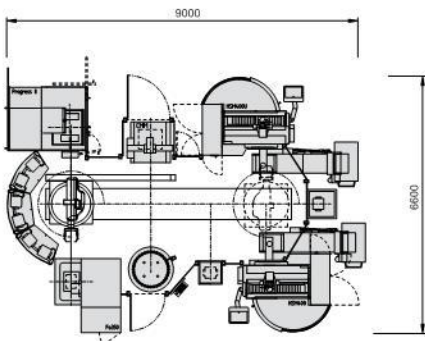
Production cell with several machining technologies. Milling, die-sinking EDM and measurement. The cell is monitored by CellManager for assured process security.

- Milling machines
- Die-sinking EDM machines
- Measuring machine
- Rack magazine
- Rotary magazine
- Preparation station
- Washing station



Milling cell

- Milling machines
- Measuring machine
- Rack magazine
- Preparation station



MODULAR MAGAZINES GIVE FLEXIBILITY

The magazines are available in two basic designs – rack or rotary. In both cases they are matched to System 3R's pallet system. Each magazine unit consists of a number of shelves. The number is determined by the height of the workpieces in

question. Because of the modular design, you can start with fewer pallet positions. When the need arises, you can add one or more magazine units to increase the production capacity in step with the growth of your business.

Half rack magazine

- Five levels
- Maximum load per level – 150 kg
- Maximum total load – 1200 kg
- ▶ Option – door for loading from behind
- ▶ Option – more shelves

Tool system	Number of positions per shelf	Maximum dimensions workpiece
GPS240	1	450 x 450 mm
Dynafix	1	450 x 450 mm
Delphin	1	450 x 450 mm
MacroMagnum	1	200 x 200 / Ø200 mm



Full rack magazine

- five levels (standard)
- Maximum load per level – 300 kg
- Maximum total load – 1200 kg
- ▶ Option – door for loading from behind
- ▶ Option – more shelves

Tool system	Number of positions per shelf	Maximum dimension workpiece
MacroJunior	21	45 x 45 / Ø45 mm
Macro 54 och 70	12	70 x 200 / Ø80 mm
GPS70	12	70 x 200 / Ø80 mm
Macro Ø116	6	150 x 150 / Ø160 mm
GPS120	6	150 x 150 / Ø160 mm
MacroMagnum	5	170 x 170 / Ø185 mm
GPS240	3	275 x 275 mm
GPS240	2	400 x 400 mm
Dynafix	2	400 x 400 mm
Delphin	2	400 x 400 mm

In **wire EDM**, only customer-specific solutions, since the number of positions per shelf is determined mainly by the size of the workpiece and therefore of the clamping elements and not by the tool system – whether you choose Macro, Unimatic or MacroTwin.



Rotary magazine

- Maximum total load – 1000 kg

Tool system	Number of positions per shelf	Maximum dimensions workpiece
Macro Ø116	20	135 x 135 / Ø150 mm
GPS120	20	135 x 135 / Ø150 mm
MacroMagnum	15	160 x 160 / Ø190 mm
GPS240	6	280 x 280 mm
Dynafix	6	280 x 280 mm

In **wire EDM**, only customer-specific solutions, since the number of positions per shelf is determined mainly by the size of the workpiece and therefore of the clamping elements and not by the tool system – whether you choose Macro, Unimatic or MacroTwin.



Indexing magazine

- Maximum total load – 1000 kg

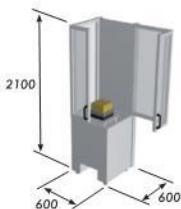
Tool system	Number of positions per shelf	Maximum dimensions workpiece
MacroCombi	60	44 x 44 / Ø44 mm
Macro 54 och 70	32	65 x 65 / Ø90 mm
GPS70	32	90 x 90 / Ø95 mm



WPS – preparation station / loading station

Station for the preparation of workpieces. The station has a door and side guards. Fencing is not needed. A chuck is not included.

- Maximum workpiece dimensions – 450x450x450 mm
- Maximum load – 200 kg
- Collection tray for oil and flushing liquid
- Presence monitoring
- Prepared for chuck installation, including foot control and pneumatic connections
- ▶ Option – manual flushing liquid sensor
- ▶ Manual indexing unit, 4x90 degrees, with locking device
- ▶ D antenna, fixed



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