WorkPal 1

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When all you need is everything, it's good to know that there is one company that you can count on to deliver complete solutions and services. System 3R equips world-class electrical discharge machines (EDM), Laser texturing and Additive Manufacturing through to first-class Milling by Tooling, Automation and software systems — all backed by unrivalled customer service and support — we, help you raise your game and increase your competitive edge.

Swedish design and quality

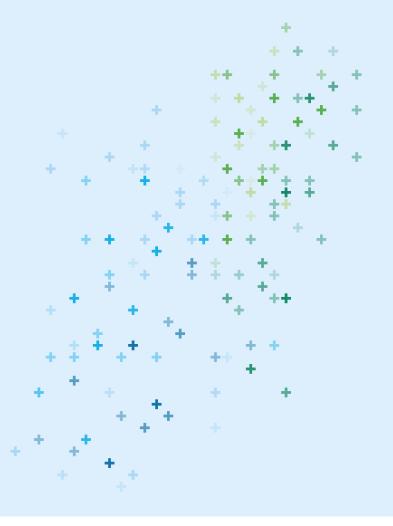
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Automation



Automation made simple

- + Smallest footprint
- + Loading the table of your Milling, WEDM, Laser or grinding machine
- + Easy to operate, glass doors gives maximum visability and access to the magazine.

Achieve greater return on your investment!

Small footprint!

WorkPal 1 is a pallet changer that requires minimal floor space. It is designed for automatic changing of pallets in chucks on machine tables in:

- + milling machines
- + wire EDM machines
- + laser machines
- + grinding machines.

With glass doors across one full side, the WorkPal 1 gives maximum access to the magazine. This greatly facilitates the loading and unloading of pallets.



Wire-cutting EDM (wireEDM) application WorkPal 1





Automation

Wire cutting

The changing arm lifts the pallets over the tank in WEDM machines.

Optional: WorkPal 1 equipped with Cell PC.



Milling application
WorkPal 1





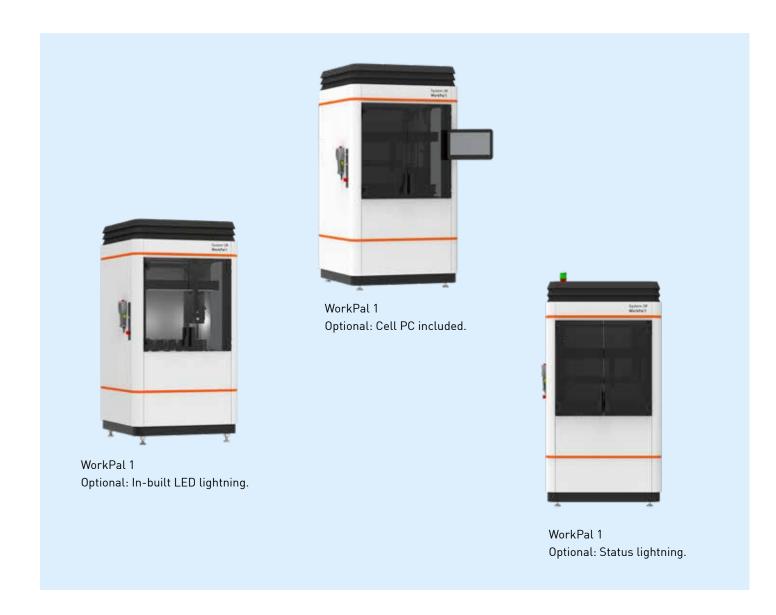
Automation

Milling

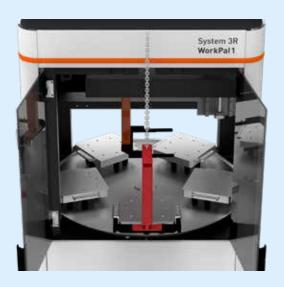


Flexibel magazine configuration

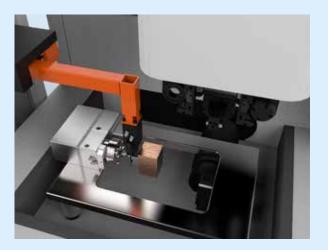




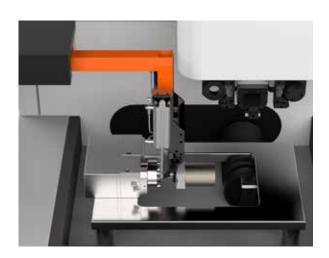
Specifications, WorkPal 1	
Maximum handling weight (incl. gripper, pallet, etc.)	50 kg
Maximum number of machines served	1
Maximum number of tooling types	1
Chuck adapter support	-
Technology	Milling, wire EDMing, grinding, laser and CMM
Linear rail	■ Manual movement
Loading station support	-
Tilting and draining station support	-
Drying station support (wire EDM)	
BatchBuilder	
CellManager	
EasyCellManager (milling)	
Hybrid station support (milling)	-
Pallet station support (milling)	-



The design allows loading of heavy work pieces with an overhead crane.



WorkPal 1 Application exampel: B-axis for Wire-cutting EDM (wire EDM).



WorkPal 1 Application exampel: Tilt gripper for Wire-cutting EDM (wire EDM).



WorkPal 1 Optional: Magazine disc for Tilt gripper.

Magazine capacity/application	Pallet system	No of positions
Table chuck – milling, grinding or EDM	Macro 54 & 70	24, 40 or 60
	Macro with chip guard	24
	MacroPT	60
	Matrix 110	20
	GPS 70	24, 40 or 60
	GPS 120	20
	Macro Ø 116	20
	MacroMagnum	6, 10 or 12
	Matrix 142	6, 10 or 12
	GPS 240	7
	Dynafix	5
	UPC (fork gripper or RCS)	4
	ITS 50	24, 40 or 60
	ITS 148	6, 10 or 12
Table chuck – wire EDM	Macro WEDM	12
	MacroTwin WEDM	4
	PSW (RCS gripper)	12
Wire EDM B-axis	Macro 54 & 70	12, 24 or 40
	ITS 50	12, 24 or 40

Technical specifications

WorkPal 1

No expensive machine modifications are required. The changing arm lifts pallets over the tank in wire EDM machines.

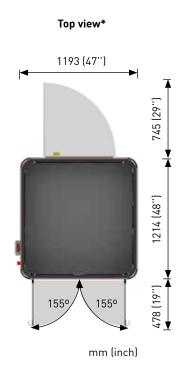






Optional for WorkPal - Drying station

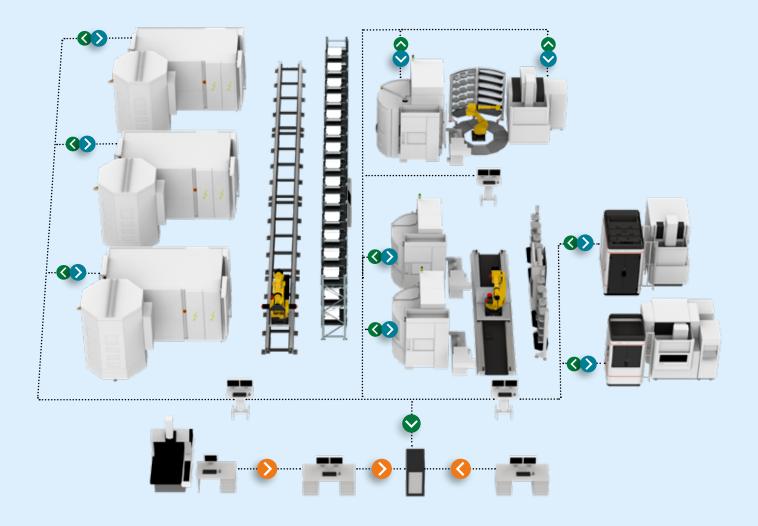
Technical specifications





*NOTE: Dimensions are subject to modifications. Since new design is not yet released.

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Technical specifications		
Transfer weight (may be limited by the pallet system)	50 kg (pallet with workpiece) 111 lbs (pallet with workpiece)	
Maximum total weight in the magazine	300 kg 667 lbs	
MR, X and Z axes	AC servo motor	
Maximum horizontal stroke (X) and speed	828 mm, Speed 1200 mm/s 32.6 in	
Maximum vertical stroke (Z) and speed	400 mm, Speed 650 mm/s 15.7 in	
Maximum MR axis stroke and speed	360°, Speed 90°/s	
Required power supply	single-phase, 180–240 V AC, 14 A at 180 V AC, 20 A at 230 V AC.	
Required air pressure	6 ± 1 bar, 150 litres/minute	
Required floor space	1200 x 1214 mm 47 x 48 in	
Interface – serial RS232/422, M function or parallel I/O		
Options & accessories		
In-built lighting		
Integrated drying station with/without thermostat for temperature control		
ID-system with or without automatic scanning		
Cell PC with WorkShopManager software		
Chip guard for Macro 54 & 70	U-50167.55	
Code carrier	3R-863.01-10, 3R-863.01-10M, 3R-863.25-10, 3R-863.30-10 or C690 800	



WSM - WorkShopManager

User-friendly Cell Management Software

- + Necessary data is entered quickly and in a structured manner.
- + Quick, precise overview of the entire process chain
- + Increased flexibility: The order of priority can be changed at any time.
- + Simpler, safer preparation of automated cells
- + The risk of errors due to the human factor is minimized.
- + Increased process security



- + Create an order
- + Assign operations and NC programs
- + Retrieve offset values
- + Release the order for production

Execution – CellManager

- Manages the pallet ID codes and magazine positions
- + Creates priority lists
- Automatically starts available jobs in the order of the priority list
- Updates the information in the database with the status and machining times of individual orders

Monitoring - CellMonitor

- + Display status of all cells
- Display status of individual machines and processes

Statistics - WSM Statistics

- + Retrieve and analyze cell utilization data
- + Retrieve and analyze order data

Optimize the uptime of your equipment with our Customer Services

System 3R's Customer Services is uniquely positioned to help you maximize the availability, value, precision and productivity of your System 3R equipment. Our cost-effective, customer-centric and expert services put your success at the center, ramp up your productivity and ensure predictable, uninterrupted uptime. System 3R's service engineers are your expert partners for a wide range of success-triggering services.

For more info ask your local System 3R dealer.

For contact details, please refer to: www.system3r.com.

