

Company Profile

GEIGER Handling has been developing handling units for more than 30 years and is considered a pioneer for the automation of injection molding machines. GEIGER Handling manufactures servo-driven and pneumatic grippers and sprue pickers, linear robots and designs and assembles complete automation systems. As a global leader for automation, GEIGER Handling stands for the development and production of unrivaled robots utilized in industry machines and customized automation solutions. This technology enables customers to remain competitive and successful.

GEIGER Handling components can be found in almost all branches of industry and delivers high-quality products and automation solutions to a large number of Tier 1 suppliers. The company attaches great importance to innovation, quality, flexibility and production efficiency.

Today, GEIGER Handling belongs to a steadily growing corporate group of manufacturing companies at various locations that employ over 350 dedicated staff.

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AUTOMATION

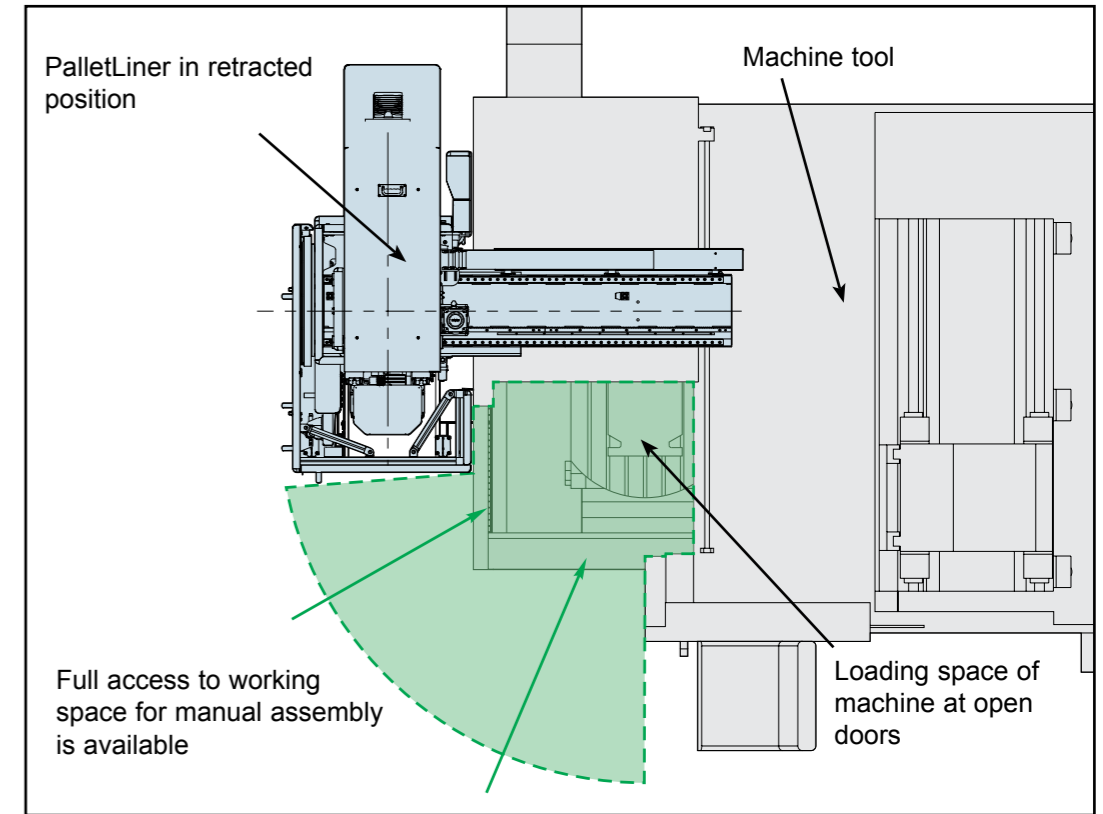


Universal automation solution for machine tools

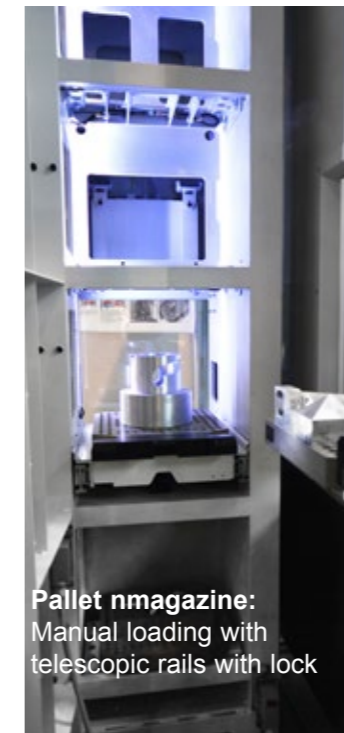
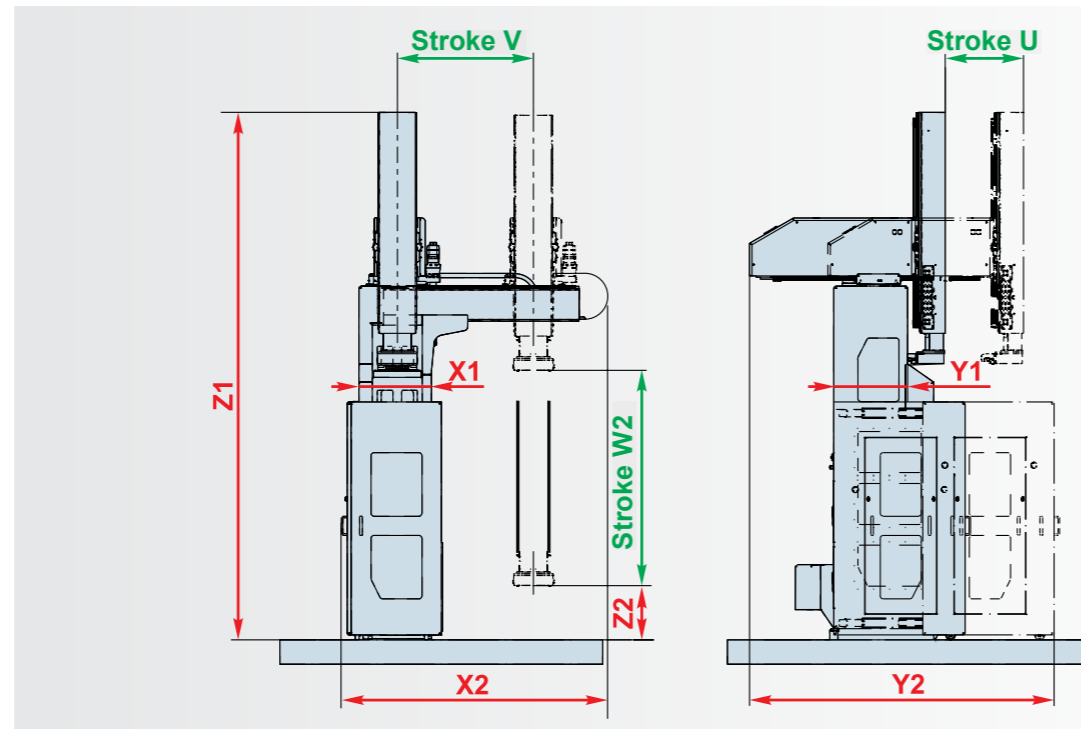
- Automatic workpiece loading and unloading with moving handling system
- Autonomous module, compatible with medium size machine tools
- Compact design
- Manual machine operation and loading are not affected



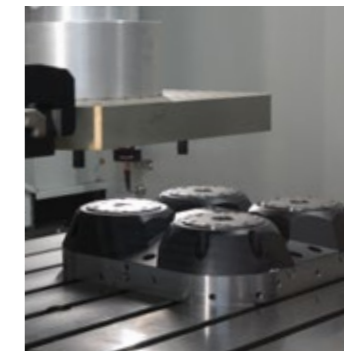
Technical specification		
Linear handling		
Max. part weight incl. pallet:	250 kg 551.15 lb	
Drive axes U/V/W:	Servo motors with rack drive, W axis telescopic (roller chain)	
Axis travel:	U: 800 mm 31.49 in	
	V: 1,390 mm 54.72 in	
	W: 2,350 mm 92.52 in	
Shear force of the axes U/V:	4.0 kN 899 lbf	
Lifting force of axis W2 (for payload):	5.0 kN 511.55 lbf	
Power consumption of axes U/V/W2:	1.7/1.7/2.4 kW 2.27/2.27/3.21 hp	
Weight of handling system:	approx. 2,500 kg 5180.86 lb	
Pallet storage		
Capacity (number of pallets):	Standard: 5	Option: Extensions on request
Pallet size (LxW):	Standard: 400 x 400 mm, 15.74 x 15.74 in	Option: other sizes on request
Weight of workpiece max. (LxWxH):	Stand.: 400x400x350 mm, 15.74 x 15.74 x 13.77 in	Option: other sizes on request
Weight of the pallet rack with housing:	approx. 2,350 kg 511.55 lb (with 5 pallets)	
Control (Option 1)		
Control system:	Siemens SIMATIC S7 ET200SP	
Inverter system:	Siemens SINAMICS S120	
Control panel:	Siemens SIMATIC HMI with touch control	
Internal communication:	ProfiNet	
External communication:	Profibus DP	
Hand terminal (Option 2)		
	Geiger Handling HT7	



Dimensions	
Z1: (W2 axis retracted, max. height)	5,389 mm / 212.16 in
Z2: (min. height below max. extended W2 axis)	485 mm / 19.09 in
X1: (Pallet storage in zero point position)	742 mm / 29.21 in
X2: (max. space required)	2,685 mm / 105.70 in
Y1: (Depth pallet storage)	754 mm / 29.68 in
Y2: (max. space required)	3,150 mm / 124.01 in



Pallet magazine:
Manual loading with telescopic rails with lock



Clamping station:
4-group high-precision zero-point clamping with indexing and form-fitting lock



Pallet gripper:
Positive locking system with pneumatic cleaning of the contact surfaces

Option: Palletliner without pallet magazine

