



Linear handling technology GETECHA automation

GL 1
by GETECHA

GL 3
by GETECHA

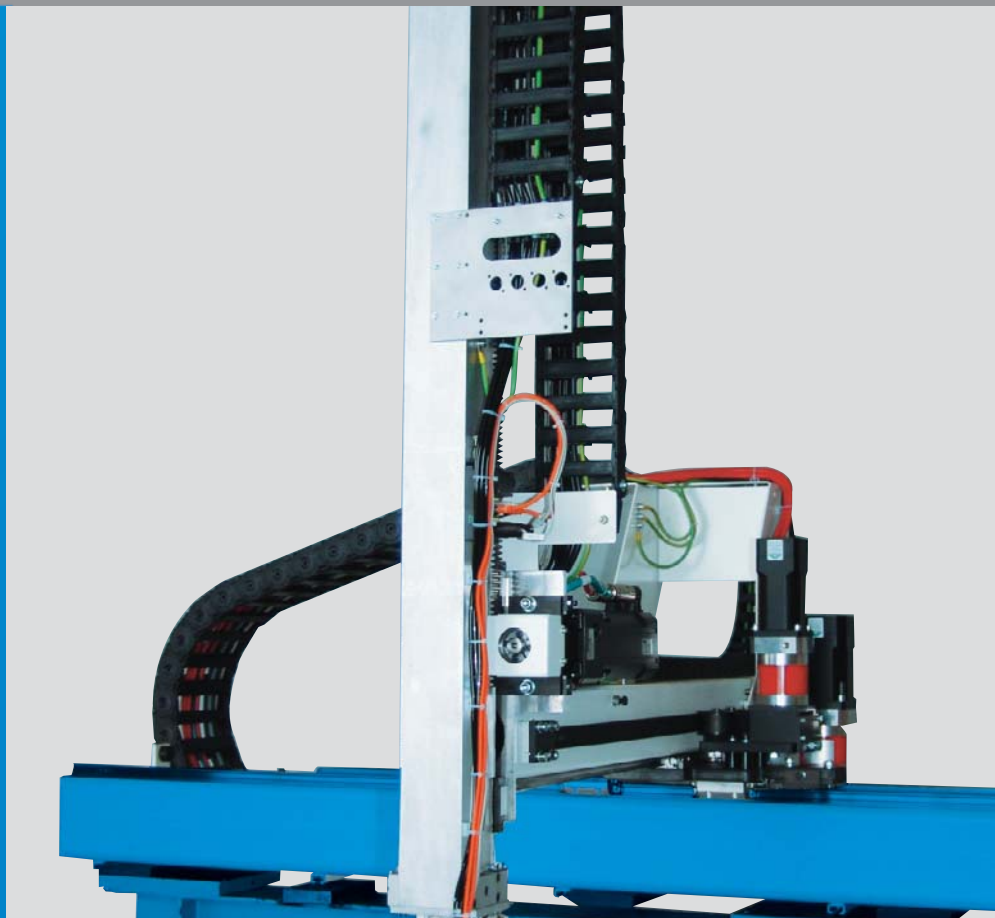
GL 5
by GETECHA

GL 15
by GETECHA

GL 25
by GETECHA

GLS 1
by GETECHA

GLS 15
by GETECHA



GETECHA

INDIVIDUALITÄT IST UNSER STANDARD

Choose the system partner who is also a competent dialogue partner: GETECHA.

For more than five decades, we have been acting as consultants to the plastics processing industry, developing, planning, and manufacturing consistently individual solutions from sprue recovery and automation systems to granulation. We have been supporting many of our customers for a very long time already. We simply feel at home with your challenges.

Individualität ist unser Standard.



GL 1 / GL 3

by GETECHA



Fast, reliable, adaptable

GL 1 and GL 3 remove sprues and small parts from small- and medium-sized injection molding machines quickly and reliably. Communication with the injection molding machine takes place via the Euromap interface. With three independent, linear servoaxes, the machine sticks to the job with exact positioning capability and reproducibility.

Fast lightweight

- Three servo-axes with resolver technology for maximum reproducibility and high dynamics

Flexible in use

- Free programmability of the servo axes and the peripherals reproducible
- Various device variants available

EASYProg

- Parameterization for standard operations without outlay for training

Easy to operate

- Controls with graphics-capable display with 20 lines and foil keyboard with 31 keys
- 200 programs with up to 50 steps each, programmable
- Plain text error messages
- I/O expansion via CAN bus up to 64 I/O
- 3D paletting model freely available
- Parallel program for mastering complicated peripherals

Technical specifications: A = Asynchronous servomotor S = Servomotor P = pneumatic A/P = motor-driven / pneumatic

Model

GL 1-S

GL 3-S

Load capacity (gripper with molding)	1 kg	3 kg
Final drive	3-axis servomotoric	3-axis servomotoric
Z-traverse axis	1.000 – 2.500 mm; 1.5 m/s, toothed belt	1.500 – 3.000 mm; 2.5 m/s max., toothed belt
X-demolding axis	350 mm; 1.0 m/s, toothed belt	350 mm; 2.0 m/s, toothed belt
Y-vertical axis	800 mm; 1.5 m/s, toothed belt	800 – 1.000 mm; 3.0 m/s max., toothed belt
Repeat accuracy	0.2 mm	0.1 mm
Position measuring system	Resolver	S: Resolver; A: Incremental encoder
Max. demolding force	0.5 N	0.5 N
C-folding axis (angle/moment)	0 – 90°, pneumatic; 2 Nm	0 – 90°, pneumatic; 2 Nm
Weight	approx. 140 kg	approx. 250 kg
Electrical interface E 67	standard	standard
Standard configuration		
Manual control / programming unit	mobile panel	mobile panel
Additional console with drilling template	in accordance with Euromap 18	in accordance with Euromap 18
Gripper	optional	optional
1 potential-free contact for belt running	standard	standard
Gripper functions		
1x compressed air; single-acting cylinder	standard	standard
1x Vacuum; venturi	standard	standard

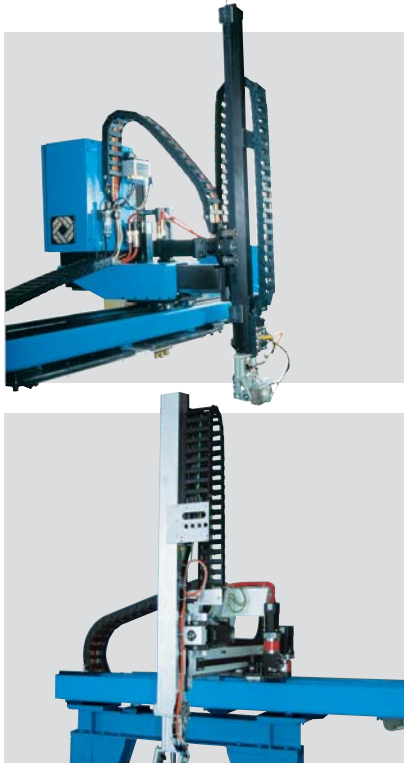
 **GL 5**
by GETECHA

 **GL 15**
by GETECHA

 **GL 25**
by GETECHA

Value-for-money: most outstanding

Price-conscious but reliable automation at injection molding machines. The GL 5 and GL 15 run very precisely even at high speeds. The guides of the linear axes are hardened and ground; resolvers measure the traverse paths on the drive axes. GL 25 for large injection molding machines. removal, insertion or processing, the Z- and X-axes made of steel tubing and the Y-axis made of large-sized aluminum tubing are a match for any task



User-friendly

- SPS with mobile control panel
- Easy to program thanks to cleverly thought-out user prompting
- Stacking and palletizing programs
- Flexible and nestable
- 20-line display with foil keyboard
- Multilingual operator guidance
- EASYProg: parameterization instead of programming

Economical

- Steel beams of the Z-axis mountable on IMM or floor stands
- Easy-to-service
- Steel construction guarantees high torsional strength

With many extras

- EMC conformity
- All user programs can be stored externally via the PC
- Digital vacuum monitor

Flexible in use

- Traverse path freely programmable
- Movement profile freely configurable
- All movement functions possible in manual operation
- Dynamic through low deadweight (aluminum parts in moving components)
- Construction with high torsional strength

Technical specifications: A = Asynchronous servomotor S = Servomotor P = pneumatic A/P = motor-driven / pneumatic

Model	GL 5-S / A / AP	GL 15-S	GL 25-S
Load capacity (gripper with molding)	5 kg	15 kg	25 kg
Final drive	3-axis servomotoric or motor-driven/pneumatic	3-axis servomotoric	3-axis servomotoric
Z-traverse axis	from 2.000 mm; 2.5 m/s	from 2.000 mm; 2.5 m/s	from 2.500 mm; 2.5 m/s
X-demolding axis	from 500 mm; 2.0 m/s	from 700 mm; 1.5 m/s	from 1.000 mm; 2.0 m/s
Y-vertical axis	from 1.000 mm; 3.0 m/s	from 1.200 mm; 3.0 m/s	from 1.500 mm; 2.0 m/s
Repeat accuracy	0.1 mm	0.1 mm	0.1 mm
Position measuring system	S: Resolver; A: Incremental encoder	S: Resolver	S: Resolver; A: Incremental encoder
Max. demolding force	0.5 N	0.5 N	0.5 N
C-folding axis (angle/moment)	0 – 90°, pneumatic; 14 Nm	0 – 90°, pneumatic; 60 Nm	0 – 90°, pneumatic; 30 Nm
Weight	approx. 320 kg	approx. 360 kg	approx. 450 kg
Electrical interface E 67	standard	standard	standard
Electrical Connection	230/400 V; 3~N/PE, 16 A	230/400 V; 3~N/PE, 32 A	230/400 V; 3~N/PE, 32 A
Standard configuration			
Manual control / programming unit	mobile panel	mobile panel	mobile panel
Additional console with drilling template	in accordance with Euromap 18	in accordance with Euromap 18	in accordance with Euromap 18
Gripper	optional	optional	optional
1 potential-free contact for belt running	standard	standard	standard
Gripper functions			
1x compressed air; single-acting cylinder	standard	standard	standard
1x vacuum; venturi	standard	standard	standard

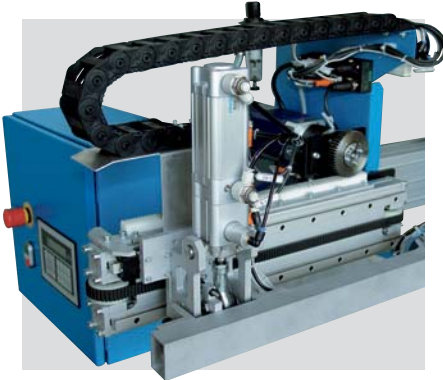


Special requirements – we have the solution for you

Lateral removal

Using our modular system, we assemble lateral removal solutions – tailored to our customers' needs.

Whether one axis or four, 1 kg or 150 kg handling weight, we can supply the appropriate unit.



- **Versatile in use**
 - Multiple versions available
 - 1 to 4 servo-axes
 - 1-150 kg handling weight
 - High-speed telescope axes available
- **EMC conformity**
 - Conforms to the electromagnetic compatibility directive
- **Outstanding in use with**
 - Two-component machines
 - Short cycle times
 - Low hall heights
- **High positioning accuracy and repeatability**
 - Even at high speeds
 - Hardened, ground roller guides and linear axes
 - High torsional stability through ribbed aluminum or steel beams on the Z-axis
- **Economical in use**
 - Mounting of the steel transfer beam for the Z-axis directly on the injection molding machine
 - Alternatively, freestanding on floor stands
 - Low deadweight through welded aluminum construction in the moving components
 - Acceleration and braking ramps (sin² ramps) prevent damage to mechanical parts
 - Low maintenance outlay

Technical specifications: A = Asynchronous servomotor S = Servomotor P = pneumatic A/P = motor-driven / pneumatic

Model	GLS 1-S	GLS 15-S
Load capacity (gripper with molding)	1 kg	15 kg
Final drive	Servomotor	Servomotor
Z-traverse axis	700 – 1.500 mm, 1.5 – 3 m/s	1.300 – 3.500 mm, up to 3 m/s
X-demolding axis	-	optional
Y-vertical axis	-	optional
Repeat accuracy	0,2 mm	0,1 mm
Position measuring system	Resolver	Resolver
Max. demolding force	0,5 N	0,5 N
C-folding axis	standard	standard
Angle	0 – 90°	0 – 90°
Weight	approx. 60 kg	depending on version
Electrical interface E 67	standard	standard
Electrical Connection	230/400 V; 3~N/PE, 16 A	230 /400 V, 3~N/PE, 32 A
Standard configuration		
Manual control / programming unit	2-line LED display	mobile panel
Gripper	optional	optional
1 potential-free contact for belt running	standard	standard
Gripper functions		
1x compressed air; single-acting cylinder	standard	standard
1x vacuum; venturi	standard	standard



Projects realized by GETECHA



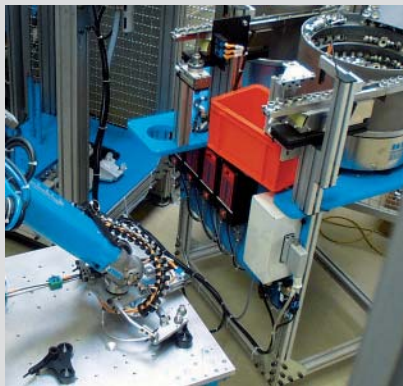
Standard removal and depositing of parts and sprues

Requirements:

Removal and depositing of parts and sprues from the injection molding machine. The controls must minimize the retooling time for frequently necessary tool changes through powerful programming support.

Our solution:

With a GL 1-S handling unit equipped with EASYProg function, a new article can be set up in just minutes. Three freely programmable servo-axes ensure maximum flexibility.



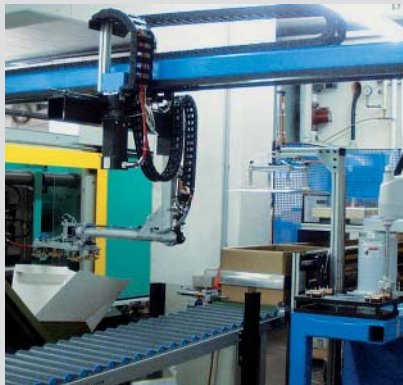
Flexible manufacturing cell – from removal to pre-assembly

Requirements:

Two moldings from the moveable mold halves of the injection molding machine must be removed, fitted with bushings, and deposited in multiple lanes on a conveyor belt.

Our solution:

The moldings are removed from the injection molding machine using a 6-axis articulated robot and intermediately buffered in a cooling station. Multiple bushings with a specified orientation are then pressed into the cooled parts. The parts are then ejected from the manufacturing cell via a conveyor belt.



Removal in a very confined space

Requirements:

Four moldings must be removed from the injection molding machine and deposited in plastic crates, making optimum use of space whenever possible. A cardboard divider should be placed on top of each layer of moldings. Only a limited hall height is available for this.

Our solution:

The lateral handling system removes the parts from the mold and deposits them in a transfer station. The Scara robot picks up the parts and stacks them in a minimum of space in a carton that has been moved into place. An additional 2-axle handling unit places a divider in the carton.



Insertion of metal parts and removal of finished parts

Requirements:

Insertion of steel shafts in the stationary side of the mold and removal of the parts with the surrounding injection moldings from the moveable side of the mold.

Our solution:

The GL 25 handling unit, equipped with dual turning grippers, removes eight steel shafts from the magazine and turns the gripper by 180°, places the shafts in the half of the mold on the nozzle side and removes the finished parts and sprues with a second stacking axis on the ejector side. In pivoted position, the finished parts are deposited.



Granulation

Beside-the-press granulators
Central Granulators
Heavy-Duty Granulators



Automation

Sprue removal
Handling systems
Special automation solutions



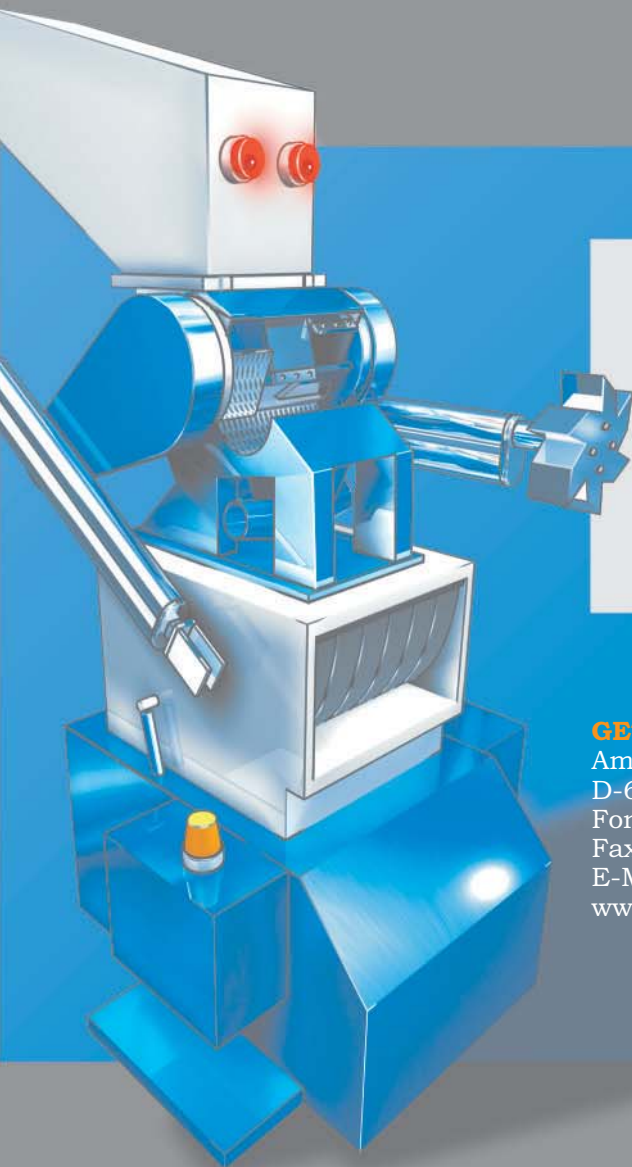
Technical installations

Development
Manufacturing
Start of operation

GETECHA granulators granulate plastics and return them to the production cycle. The granulators can be expanded into stand-alone recycling systems.

GETECHA realizes tailor-made, turnkey automation systems right around injection moulding machines. They are your one-stop source for development, manufacturing, service and training.

GETECHA have a worldwide sales and service network at their disposal. We guarantee fast, uncomplicated support.



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