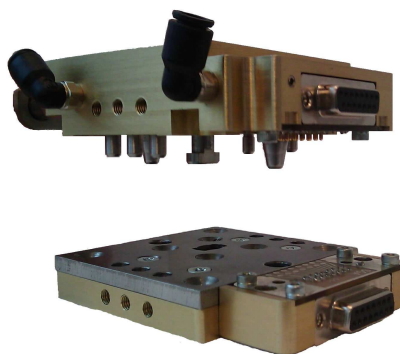




Patented technology

You are presented with a complete range of tool changer for robots which aim at shortening the slack periods on assembly lines.

The period of time for tool changer on chain can be reduced from a few hours to few seconds.

Your robot can therefore perform several tasks thanks to a mere change of tools.



Advantages

- Simple and tough locking system.
- The tools can be stored vertically or horizontally.
- Outdoor-pollution resistant system.
- High clamping potential.
- Irreversible locking in case of energy drop.
- Large choice of compatible energies.



Technical data

Technical data \ Items		GCR 5	GCR 30	GCR 100	GCR 250	GCR 500	GCR 1000
Transportable mass	kg	5	30	100	250	500	1000
Energy		M	P	P	P - E	P	P
Force in locked position	daN	60	350	1000	2000	4000	8500
Max bending moment	Nm	70	150	250	1500	3000	6500
Max torsion moment	Nm	70	150	250	1500	3000	6500
Repeatability	mm	± 0,02	± 0,02	± 0,02	± 0,02	± 0,02	± 0,02
Total weight (robot + tool)	kg	0,170	1,3	4	10,5	25	65
Clamping to the tool capacity	mm	0.7	2	3	4	5	8



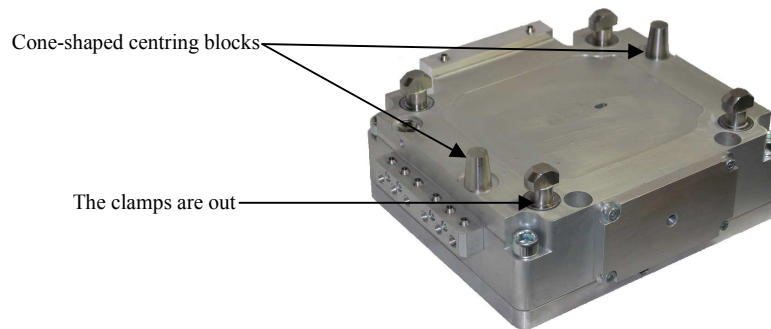
Construction of the reference

GCR	25	M	R	P	L 15
Model	Size	Energy	Interface	Pneumatic connection	Electric connection
 GCR	5 30 100 250 500 1000	M - Manual P - Pneumatic E - Electric	R : Robot side T : Tool side	Pneumatic P1 : pneumatics passages M5 P2 : pneumatics passages G1/8 P3 : pneumatics passages G1/4 P4 : pneumatics passages G3/8	Electric L 1 : pins, 3A/50VDC L 2 : pins, 5A/250VDC L 3 : pins, 13A/700DC

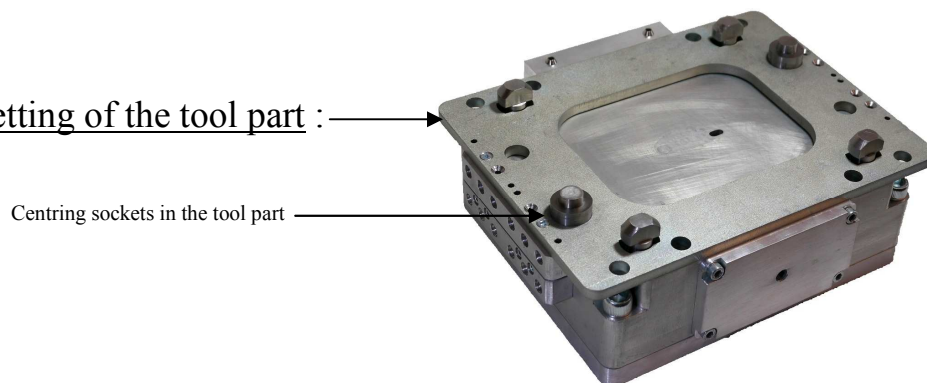
Other sizes, contact us



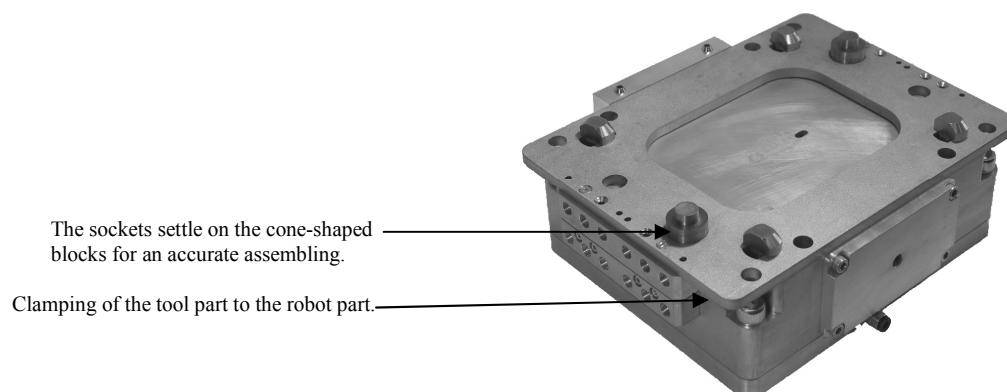
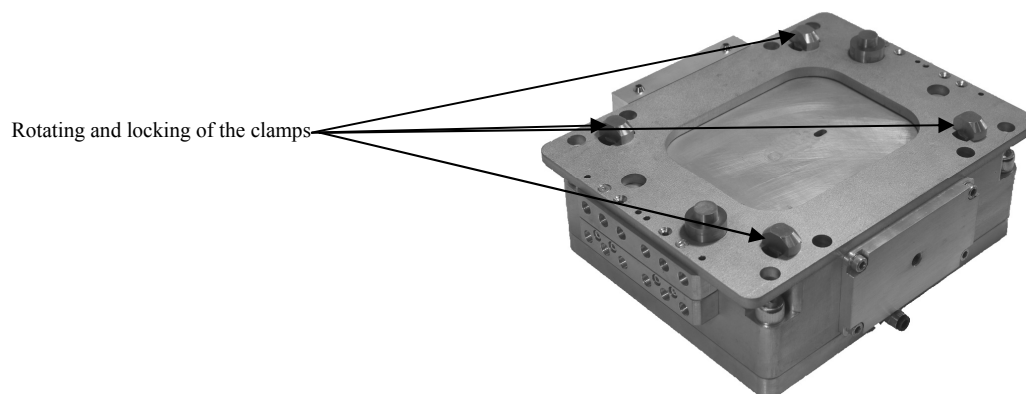
Robot part :



Setting of the tool part :



Clamping :





GCR 250

Files 2D and 3D downloadable on www.sga-automation.com

GCR	250	P	R	P2 06	L1 07
Model	Size	Energy	Interface	Pneumatic connection	Electric connection
 GCR	250	P - Pneumatic E - Electric	R : Robot side T : Tool side	Pneumatic P2 06 : 6 pneu passages G1/8 P3 06 : 6 pneu passages G1/4 P4 06 : 6 pneu passages G 3/8	Electric L1 07 : 7 pins, 3A/50VDC L1 15 : 15 pins, 3A/50VDC L2 10 : 10 pins , 5A/250VDC L3 08 : 8 pins, 13A/700VDC

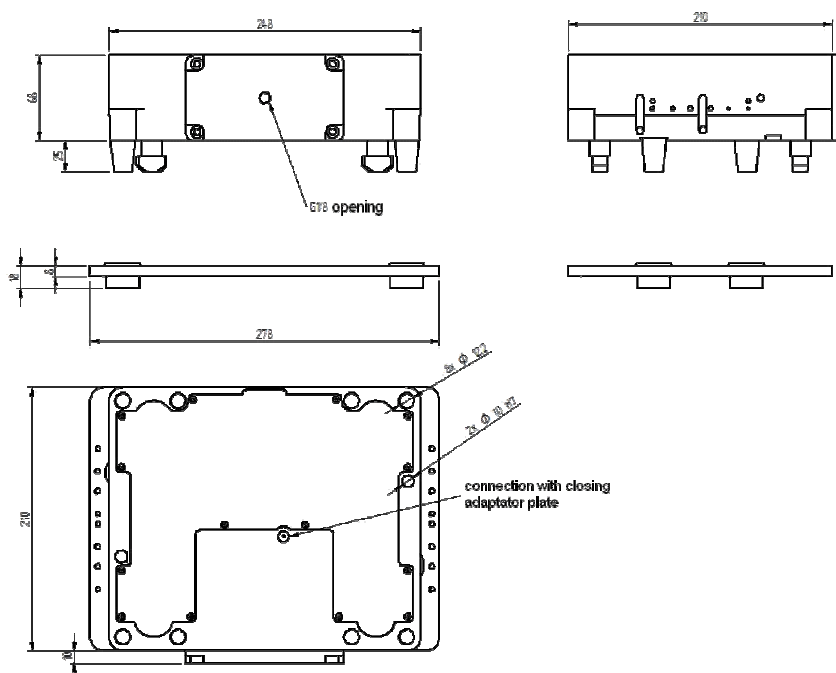


Technical data

Technical Data		GCR 250
Transportable mass	kg	250
Energy		P, E
Force in locked position	daN	2000
Max bending moment	Nm	1500
Max torsion moment	Nm	1500
Repeatability	mm	± 0,02
Total weight (robot + tool)	kg	10.5
Clamping to the tool capacity	mm	4



External dimensions GCR 250 P2 06



* Dimensions are supplied for information only, they can be subjected to variations for technical improvements. We reserved us the right of bringing changes without previous notice.



GCR250 is a compact and powerful four-clamp tool changer which is highly stable thanks to its important fulcrum.

- Torsional stress : 2000 daN
- Totally irreversible mechanism.
- Tools storage horizontally or vertically.
- Stroke of the clamps : 5mm. Constant clamping stress all along the stroke.
- Clamps rotate before clamping. No friction on the tool-holder plate and therefore, no wearing out or loosening.
- Maximum weight : 250Kg
- Maximum static bascule couple : 1500Nm
- Resistant to dust and projections.
- Equipped with two inductive 2mm range sensors to detect the tool part.
- Sensors for locking or unlocking control.
- The 2 parts are altogether only 76mm thick.
- Pneumatic and electric connections (up to 12 and 15).

