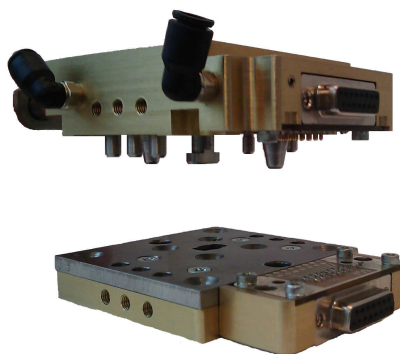




Patented technology

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



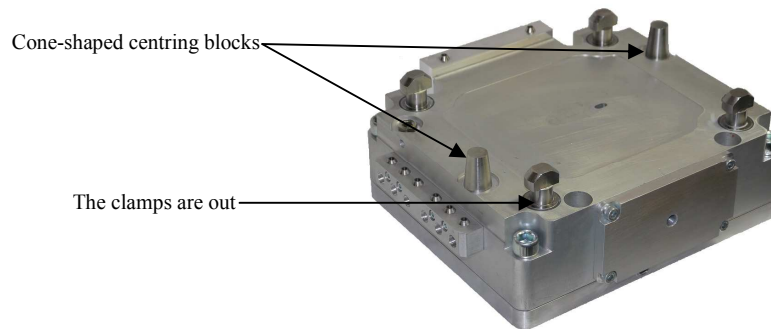
Construction of the reference

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

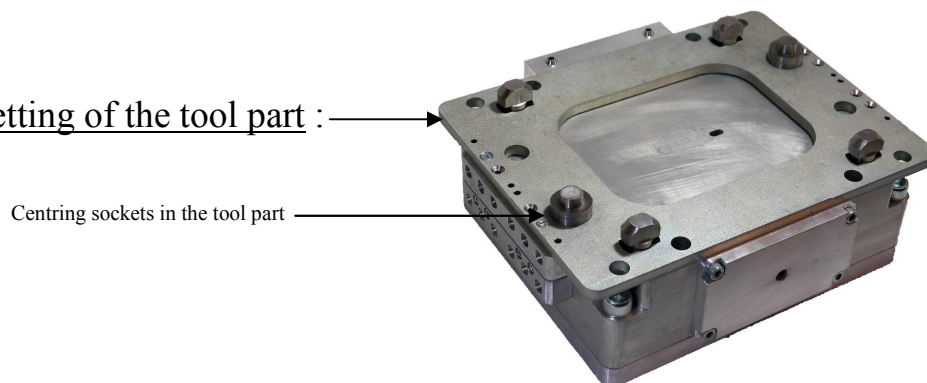
Other sizes, contact us



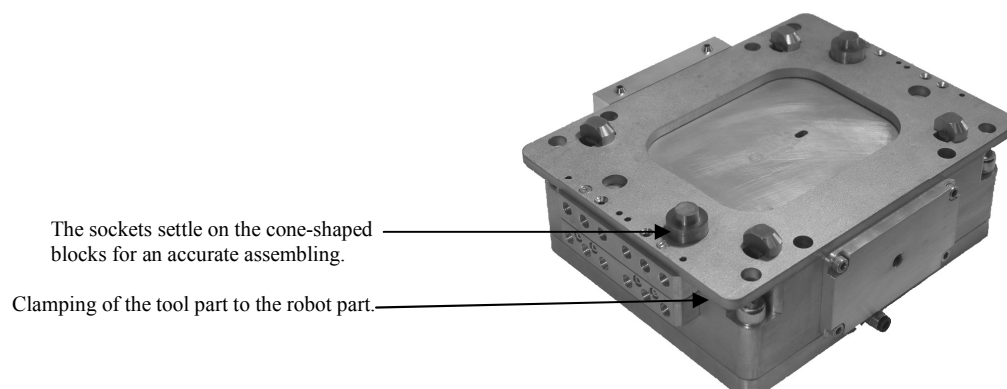
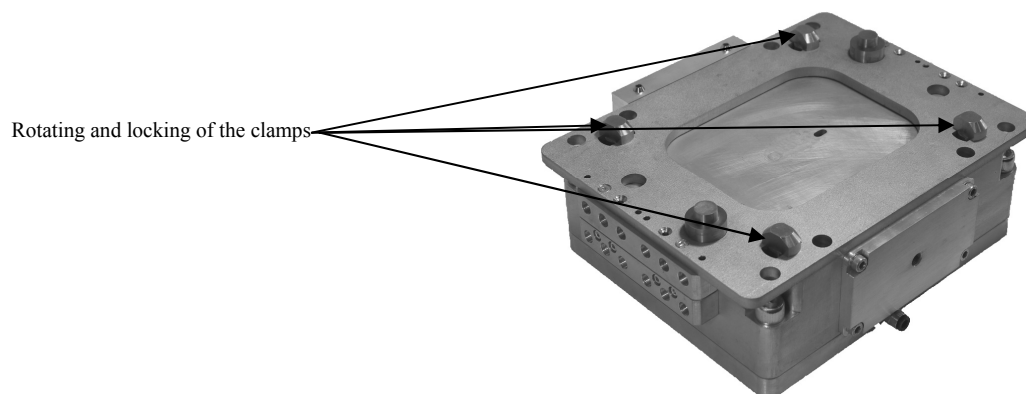
Robot part :



Setting of the tool part :



Clamping :

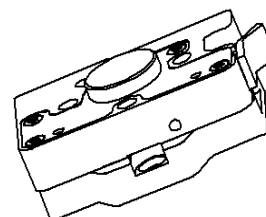
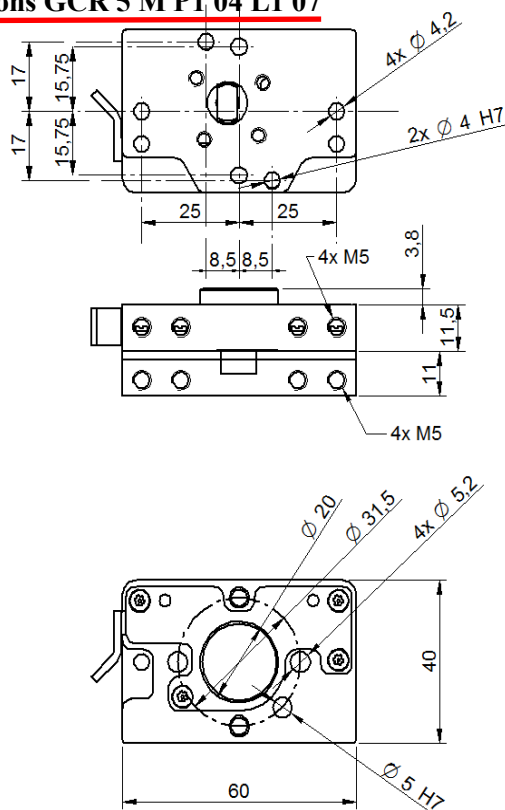


GCR	5	M	R	P1 04	L1 07
Model	Size	Energy	Interface	Pneumatic connection	Electric connection
 GCR	5	M - Manual	R : Robot side T : Tool side	Pneumatic P1 04 : 4 pneu passages M5	Électrique L1 07 : 7 pins, 3A/50VDC

Technical data

Technical data		GCR 5
Transportable mass	kg	5
Energy		M
Force in locked position	daN	60
Max bending moment	Nm	70
Max torsion moment	Nm	70
Repeatability	mm	± 0,02
Total weight (robot + tool)	kg	0,170
Clamping to the tool capacity	mm	0.7

External dimensions GCR 5 M P1 04 L1 07



* 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.

GCR

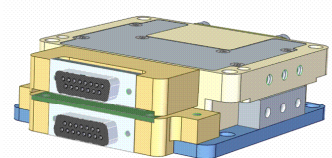
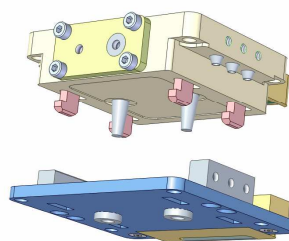
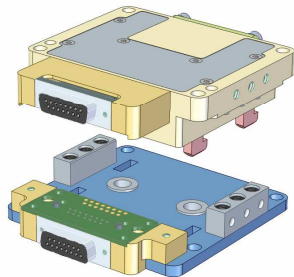
TOOL CHANGER



GCR 30

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

GCR	30	P	R	P1 06	L1 15
Model	Size	Energy	Interface	Pneumatic connection	Electric connection
 GCR	30	P - Pneumatic	R : Robot side T : Tool side	Pneumatic P1 06 : 6 pneu passages M5 Possibility with G 1/4	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

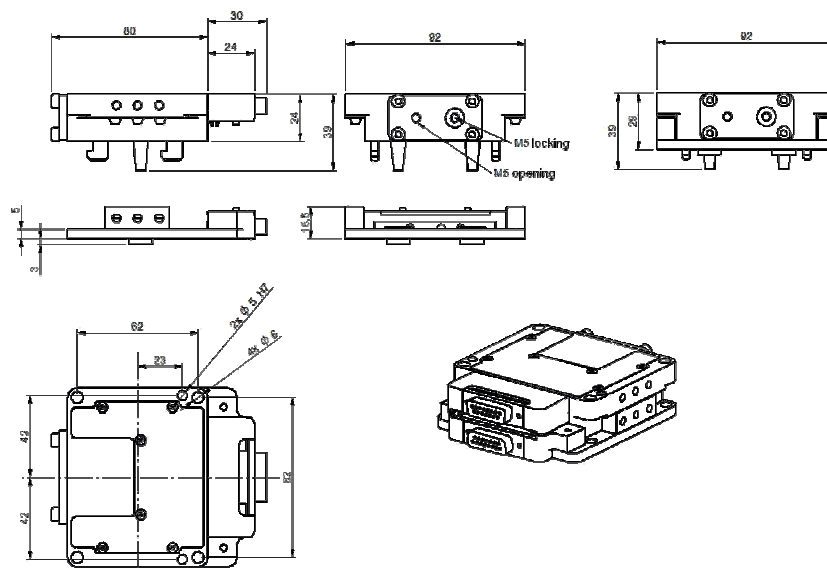


Technical data

Technical Data		GCR 30
Transportable mass	kg	30
Energy		P
Force in locked position	daN	350
Max bending moment	Nm	150
Max torsion moment	Nm	150
Repeatability	mm	± 0,02
Total weight (robot + tool)	kg	1,3
Clamping to the tool capacity	mm	2



External dimensions GCR 30 P P1 06 L15



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GCR	100	P	R	P2 06	L1 07
Model	Size	Energy	Interface	Pneumatic connection	Electric connection
 GCR	100	P - Pneumatic	R : Robot side T : Tool side	Pneumatic P2 06 : 6 pneu passages G1/8 P3 06 : 6 pneu passages G1/4	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

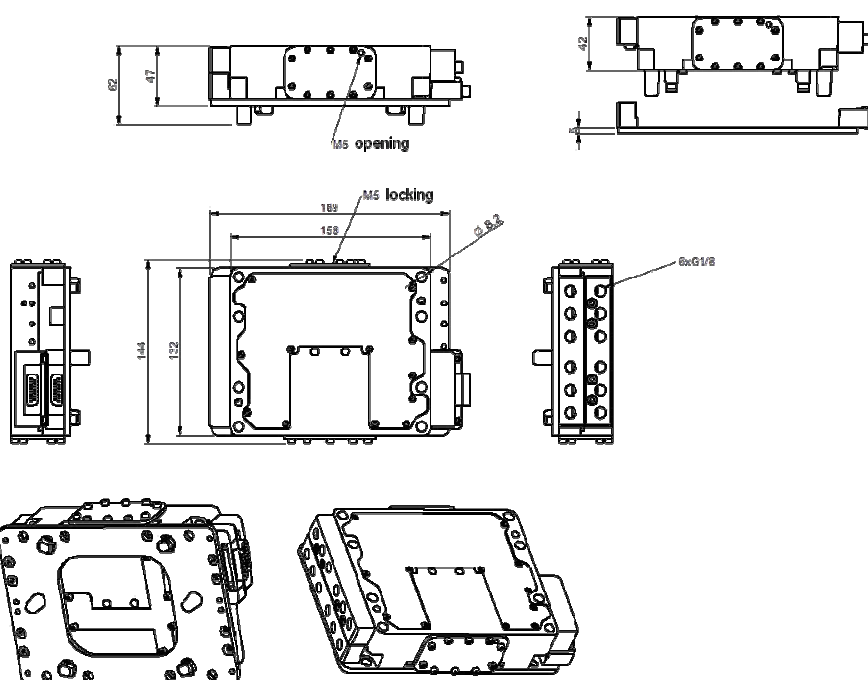


Technical data

Technical Data		GCR 100
Transportable mass	kg	100
Energy		P
Force in locked position	daN	1000
Max bending moment	Nm	250
Max torsion moment	Nm	250
Repeatability	mm	± 0,02
Total weight (robot + tool)	kg	4
Clamping to the tool capacity	mm	3



Extrenal dimensions GCR 100 P2 06 L1 15



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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

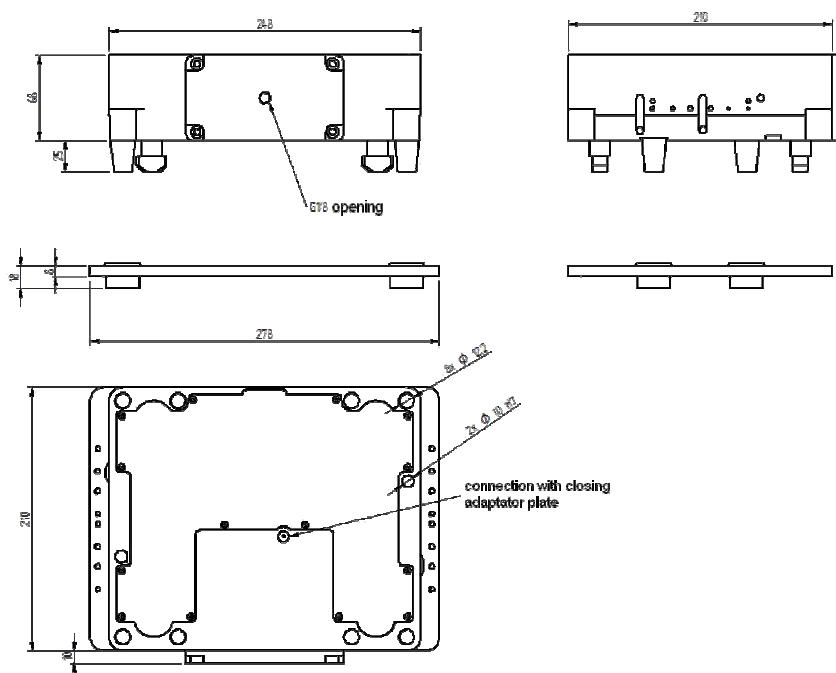


Technical data

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

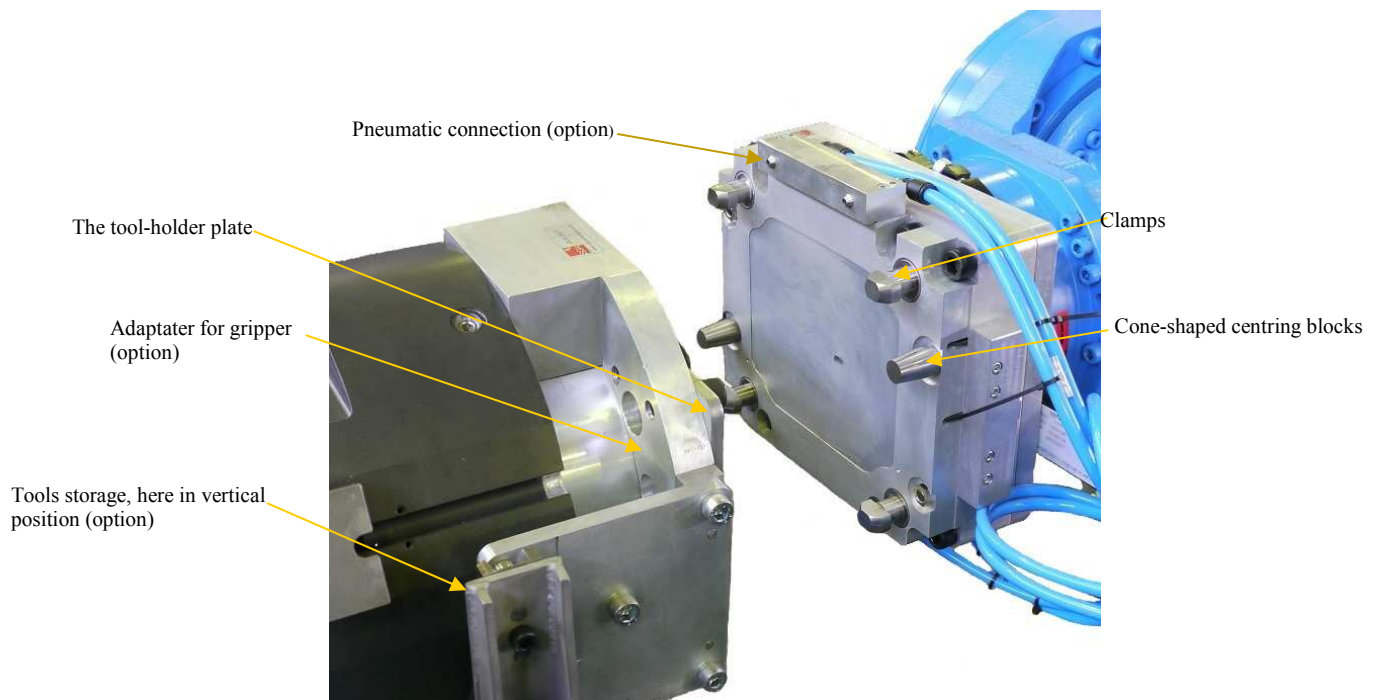


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GCR250 is a compact and powerful four-clamp tool changer which is highly stable thanks to its important fulcrum.

- 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).





Technical Data		GCR 500
Transportable mass	kg	500
Energy		P
Force in locked position	daN	4000
Max bending moment	Nm	3000
Max torsion moment	Nm	3000
Repeatability	mm	± 0,02
Total weight (robot + tool)	kg	25
Clamping to the tool capacity	mm	5

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GCR 1000

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

GCR	1000	P	R	P2 06	L1 15
Model	Size	Energy	Interface	Pneumatic connection	Electric connection
 GCR	1000	P - Pneumatic	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 15 : 15 pins, 3A/50VDC L2 10 : 10 pins, 5A/250VDC L3 08 : 8 pins, 13A/700VDC

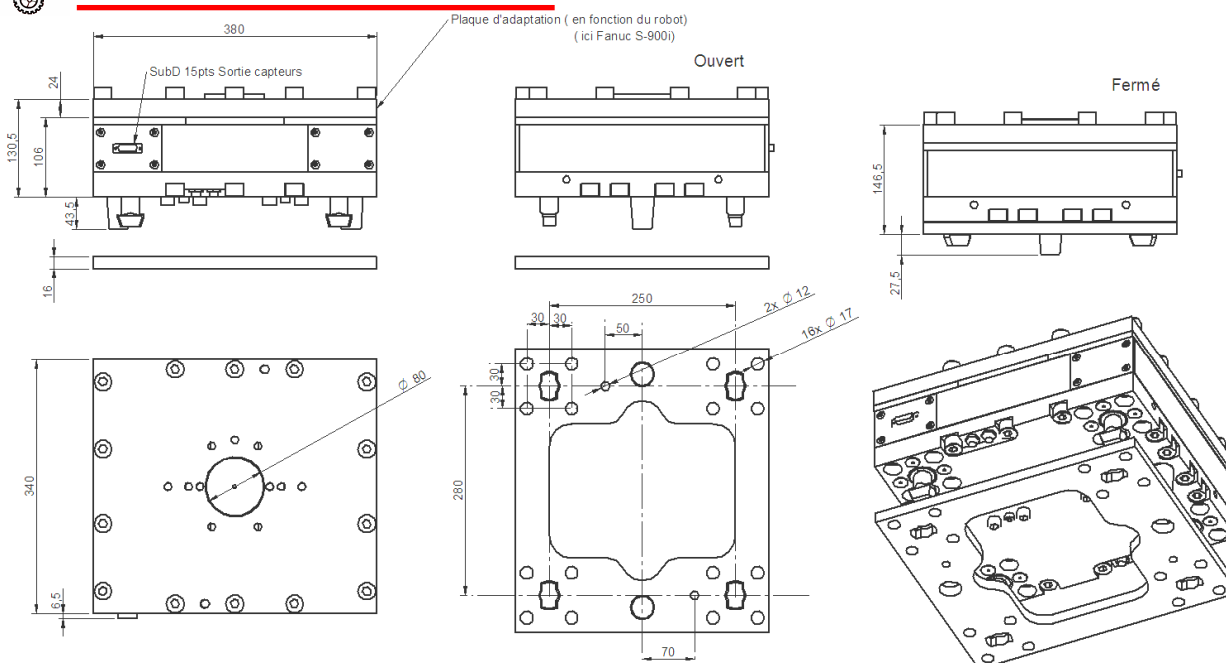


Technical data

Technical Data	GCR 1000
Transportable mass	kg 500
Energy	P
Force in locked position	daN 8500
Max bending moment	Nm 6500
Max torsion moment	Nm 6500
Repeatability	mm ± 0,02
Total weight (robot + tool)	kg 65
Clamping to the tool capacity	mm 8



External dimensions GCR 1000 P2 06



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