



Golden 440

4 axes machining center



GEMMA

GOLDEN

4 axes CNC machining center for milling and drilling of components made of aluminium, steel and light alloys

STANDARD CHARACTERISTICS

Structure

- Heavily ribbed electrowelded steel basement with moving column
- Thanks to its strength and stability, it guarantees high quality machining and long-lasting reliability

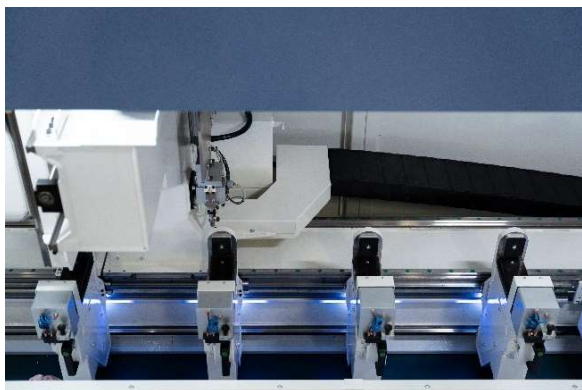
Working area

- 4 double action pneumatic clamps with LED positioning indicator
- Retractable pneumatic left stop



Axes (x-y-z)

- Axes movements controlled by brushless motors through precision ball screws and rack
- Movement on linear guides with automatic grease lubrication



Control panel

- OSAI control equipped with HICAM 2 operator interface to upload and run machining programs; list machining and visualization of workpiece/profile data
- Operator interface on 17" Windows PC
- Wi-fi and teleassistance
- Meets Industry 4.0's requirements



Electrospindle group

Compact electrospindle equipped with:

- high precision ceramic bearings lubricated for life
- HSK63F electrospindle taper that guarantees a strong tool-spindle coupling
- inverter for correct tool speed selection
- water cooling
- automatic tool changer for maximum flexibility in machining operations

Electrical cabinet

- IP 55 protection
- Air-conditioning unit

Safety

- Full fairing
- Complies with CE safety regulations as standard

General specifications



270 mm



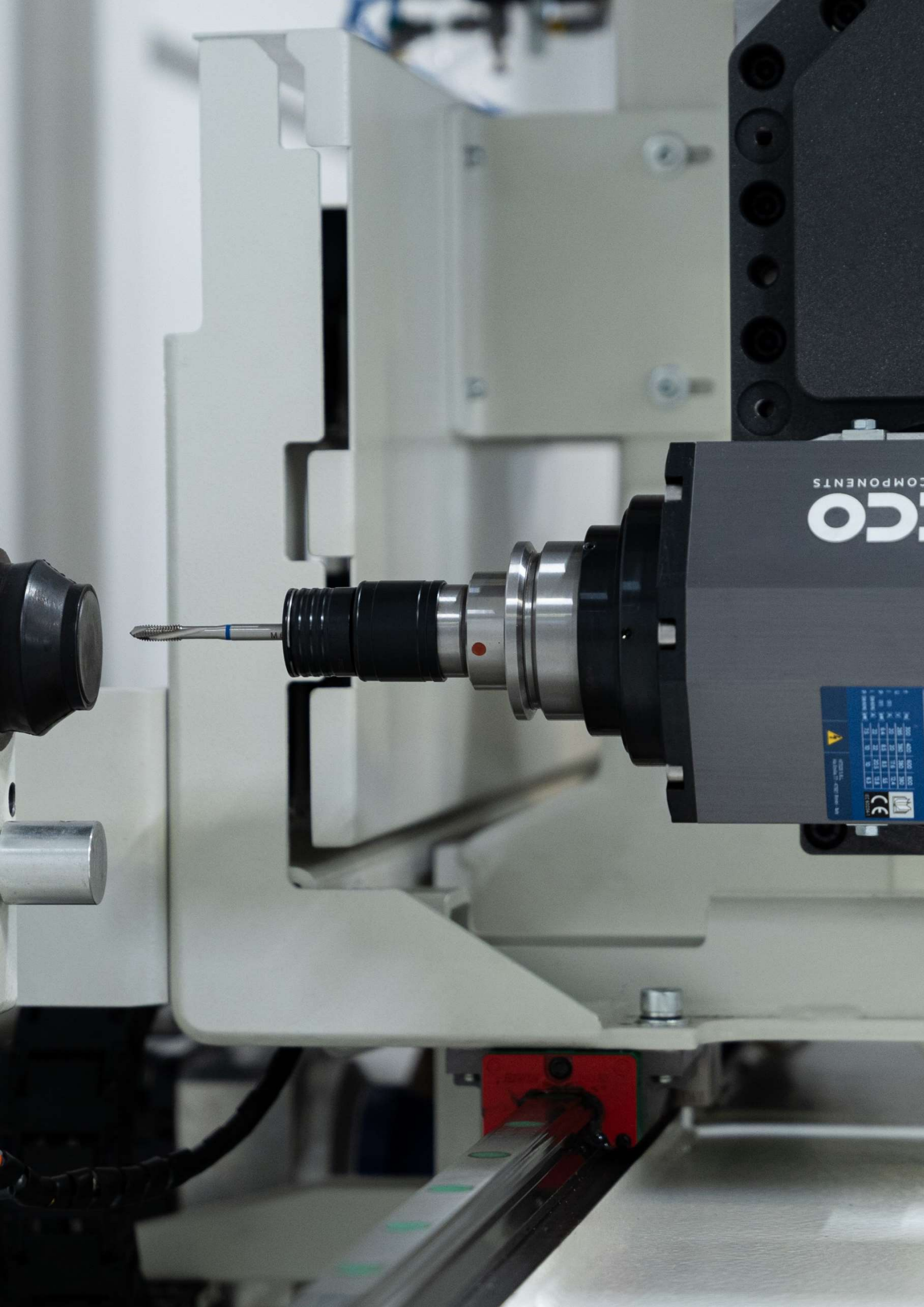
10 kW (S6)



4.500 kg



7.100x2.100x2.300 mm



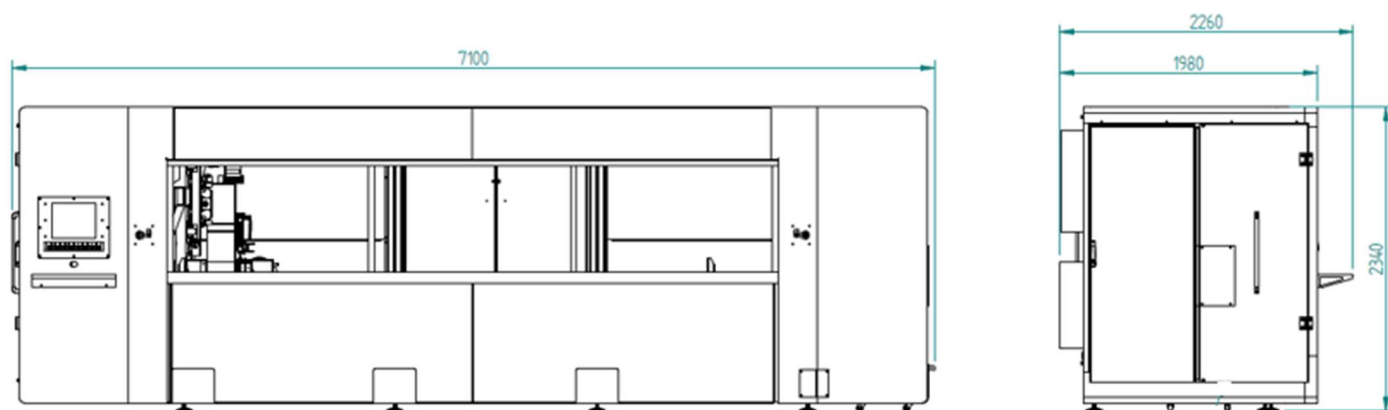
TECHNICAL INFO

Orthogonal axes (x-y-z)		Pivoting axis (a)		
X axis (longitudinal)	Stroke	4300 mm	A axis pivoting angles	+/- 90°
	Speed	100 m/min	Speed	5 m/min
	Acceleration	2 m/s²	Acceleration	0,2 m/s²
Y axis (transversal)	Stroke	850 mm	Power supply	
	Speed	80 m/min	Electric power (three-phase)	400 V / 50 Hz
	Acceleration	2,5 m/s²	Compressed air supply	7 Bar
Z axis (vertical)	Stroke	500 mm	Machining tolerance	
	Speed	45 m/min	Positioning accuracy	± 0,2 mm
	Acceleration	1,5 m/s²	Positioning repeatability	± 0,1 mm
Electrospindle group		Automatic tool change		
Electrospindle power	10 kW (S6)	Tool magazine	Moving column	
Electrospindle bearings lubrication	Lifelong	Number of tools	14 positions	
Electrospindle taper	HSK63F	Max cone length + tool	160 mm	
Rotation speed (with inverter)	1.000-24.000 g/min	Max cone weight + tool	10 kg	
		Tools included	4 (standard)	
		Holder clamp cones included	4	

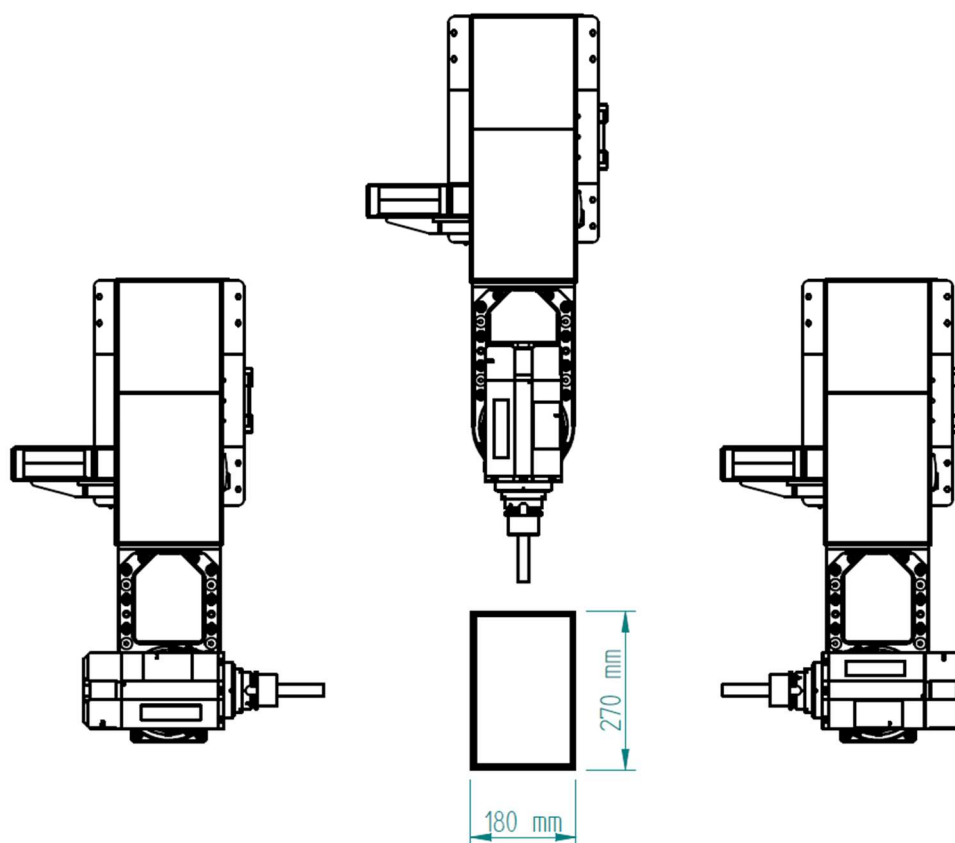


Optionals	
- Automatic clamps - Motorized clamps - Extra couple of manual clamps - Extra couple of automatic clamps - Extra couple of motorized clamps - Right hand retractable stop - Bar code reader - Motorized conveyor belt - Profile length measuring device - Tool length measuring device - Full fairing - Oil tank 25 l - HICAM 3 ADVANCE software license	- Additional HICAM 3 ADVANCE license - Module to import data in NCX format for HICAM 3 - CAMQUIX software license - Additional CAMQUIX license - Module to import data in Text, XML or CSV formats for CAMQUIX 3D STEP-file detection CADXTRACT license - Additional CADXTRACT license - Autotransformer for special voltage (on request) - UL-CSA compliant components - Container shipping

Machine layout



Working fields





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