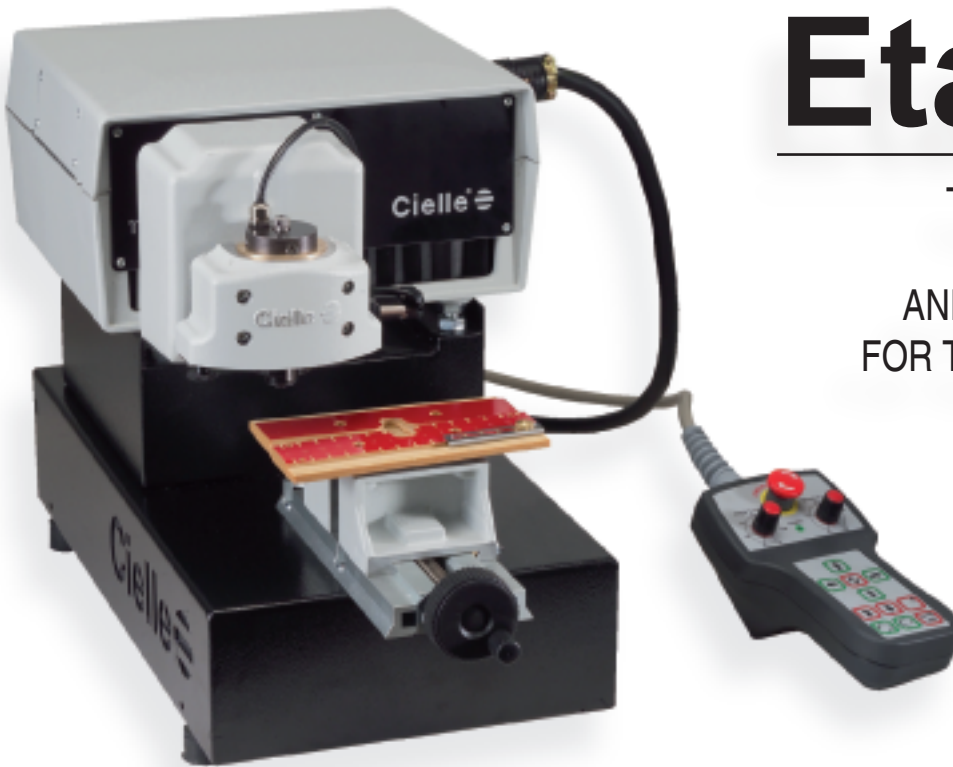# Eta Cielle®

THE MINI-PANTOGRAPH
ULTRA-VERSATILE
AND MULTI-ACCESSORIED
FOR THE SMALL ENGRAVING

ETA 12x8   Versatile and easy-to-use mini pantograph.

The ideal tool for perfectly performing identification and customisation processes on large series of objects, such as key holders, pens and plaques, and for photoengraving.
It can also be used to process materials such as plexiglas, aluminium and brass, and to engrave surfaces that are not perfectly uniform or rounded, such as napkin holders.
A concentrate of the latest technology, with multiple functions.

ETA 12x8 standard
with jaws made from fibrous materials

ETA 12x8
with multi-position jaws

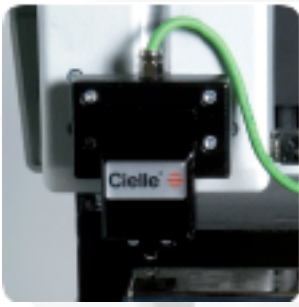Hold any type of object with an irregular outline to the working table, using the multi-position jaws.

ETA 12x8
with technical jaws

Secure the shapes and the volumes with the vice, featuring special zinc-aluminium-manganese alloy jaws.

ETA 12x8
with industrial table

Expand the working area using the table featuring millimetre guides.

ETA 12x8
with 4th indexing head axis and centre

Rotate and engrave on the inside and outside of the curved surfaces of cylindrical and conical objects, using the 4th axis-indexing head and the centre.

Impact head

Impact head that point-engraves pictures on various surfaces, such as aluminium, stainless steel, brass, gold and silver.
Engraving is performed clearly and cleanly, ensuring a grey scale reproduction of the original image.

The customised Incicam Win software can be used to configure and run the jobs, simply and immediately.
It can also be used for the automatic correction of the image and to add text and frames to complete and decorate the engraving.

Materials Quality

For a complete service we offer a wide choice of materials and support for engraving.

Plates and key-holders display in desk, wall or stand type possible solutions.

MACHINE technical specifications

Area covered in a single pass (mm)	120 x 80
Area of engraving table (mm)	300 x 260
Opening width (mm)	170
Max height under cutter (mm)	15
Vertical cutter stroke (mm)	0 ÷ 20
Cutting spindle (max diameter mm)	4
Cutter speed (r.p.m.)	0 ÷ 18.000
Max machining speed (m/min)	3
Max depth of engraved letters (mm)	120
Max vice opening (mm)	90
Overall dimensions wxhxd (mm)	390x620x370
Net weight (kg)	27

Technical characteristics of the CONTROL UNIT

CNC HST 2000 PP CUBIC SPLINE PROFILES WITH PROGRAMMABLE JERK TO BE SET	
Calculation speed (ISO/sec blocks)	1000
Communication protocol	CL-BINARY
Power supply	115/230 V - 50/60 HZ
Servo cycle (KHz)	50
Flash memory	2 MB
Communication interface	USB 2.0
Functional keypad with membrane buttons	11 KEYS + 2 REGULATORS KEYS
CPU DSP MICRO CONTROLLER	
Look ahead buffer	3000 controls
Number of interpolated axes	4
Power modules	MICRO STEP