VERSO cnc®

FABRIQUÉE EN FRANCE
MADE IN FRANCE

NUMERICAL CUTTING MACHINES

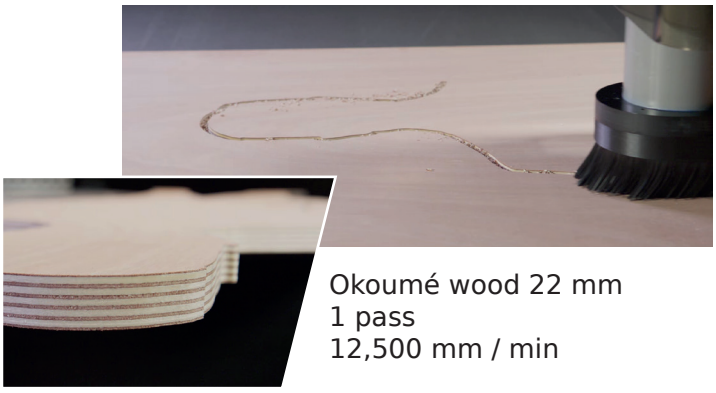
VSR

FULLY VERSATILE
AUTOMATIC
USER FRIENDLY
LASTEST GENERATION

BECOME A DISTRIBUTOR !

MILLING

POWER & HIGH SPEED

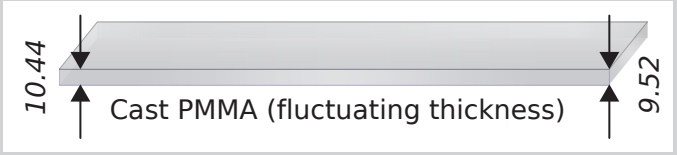


Okoumé wood 22 mm
1 pass
12,500 mm / min

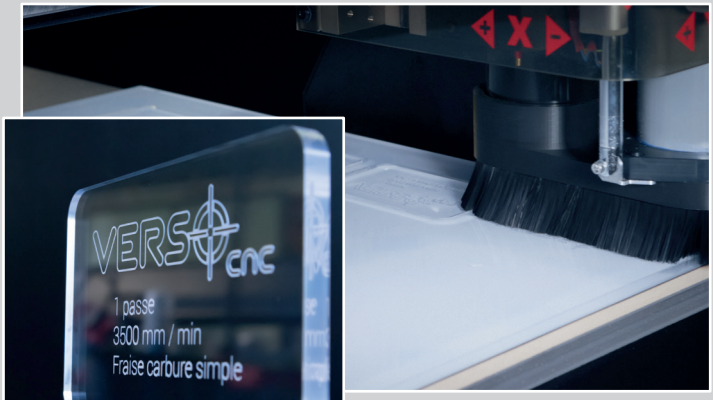
Bloc-LED 30 mm
1 pass
3,500 mm / min

Auto drilling + tapping via UTM

HIGH PRECISION

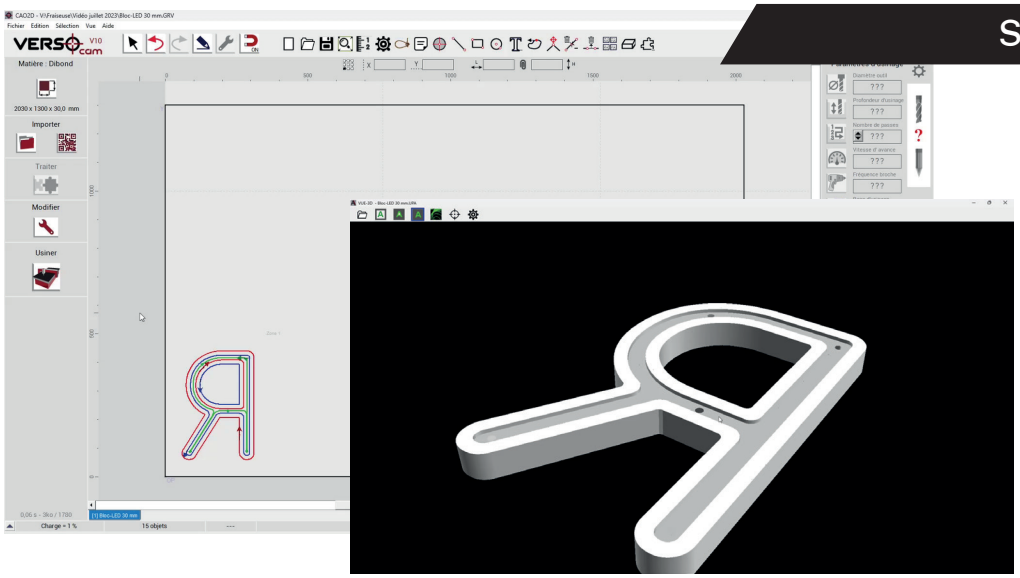


Constant depth engraving 0.2 mm
Automatic sheet measurement via Z sensor



Cast PMMA 10 mm
1 pass - 3,500 mm / min
Simple tool, no finition

SOFTWARE / MACROS



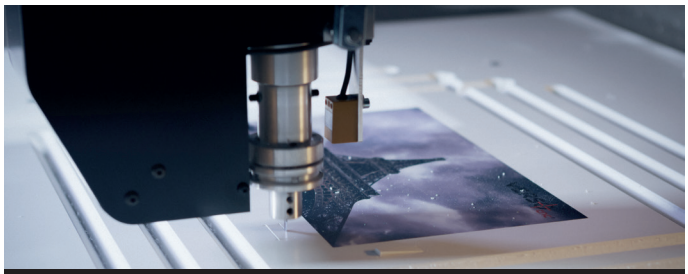
VERSOCAM

Powerful but very simple, VersoCAM allows you to carry out the complex design work in a few minutes !

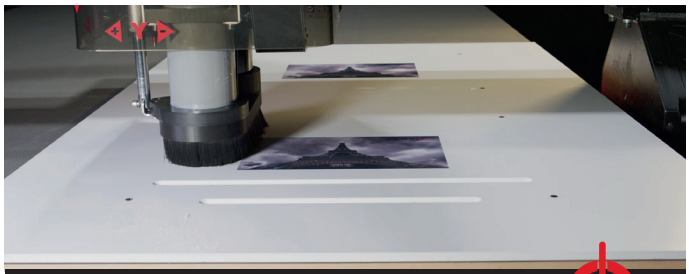
Like our controllers, firmware, CAD and CAM, VERSOCAM is entirely developed by VERSO, for VSR.

UTM

Universal Tangential Module

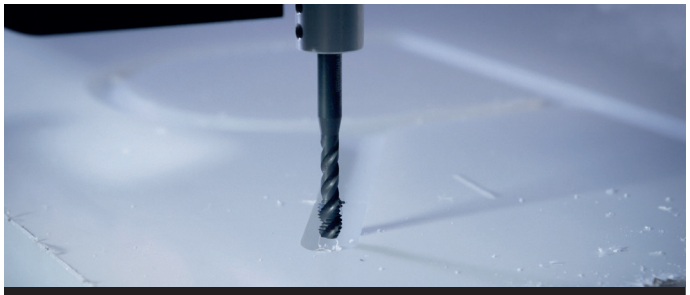


UTM / Oscillating Mode

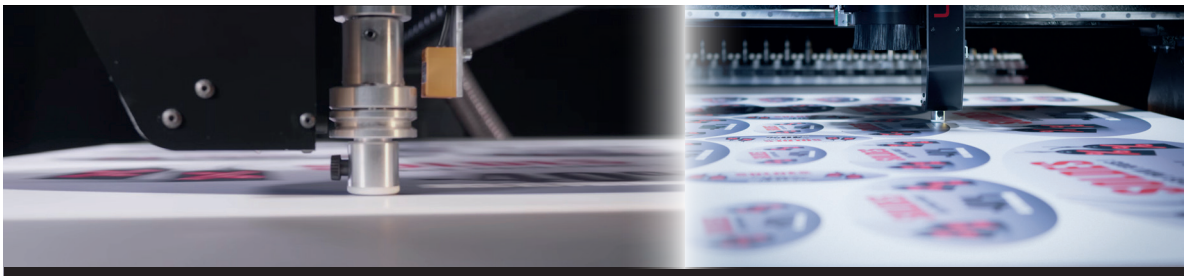


Recognition Process & Milling

UTM + Camera + Stadur® Milling

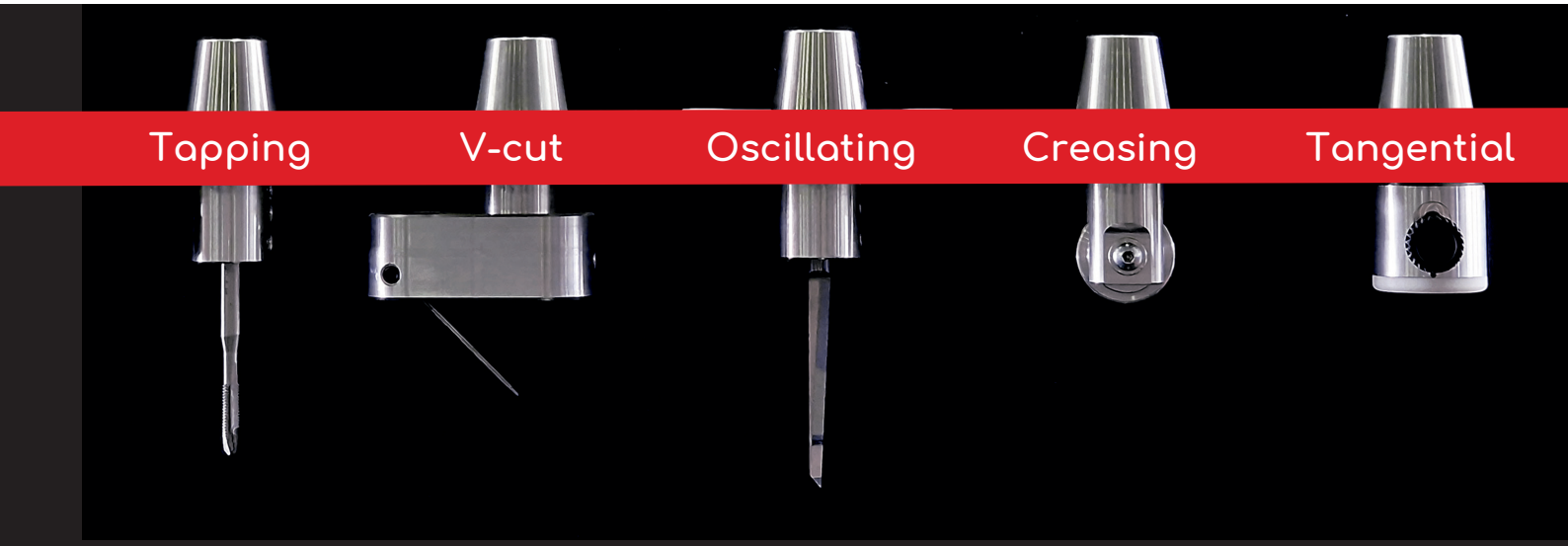


Auto Drilling & Tapping



Auto Adaptative Speed - up to 57,000 mm / min

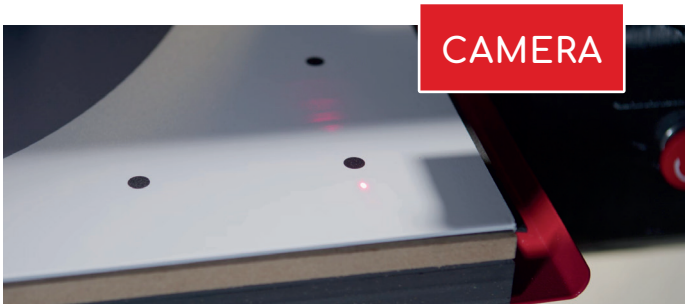
AUTOMATIC TOOL CHANGER



ATC

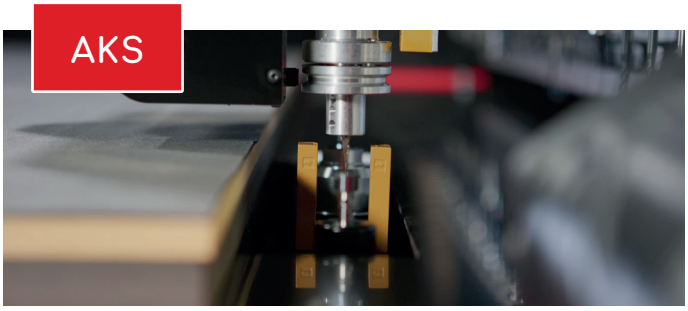
Automatic Tool Changer 24 positions suitable for milling cutters, knives, tapping & creasing tools

CAMERA



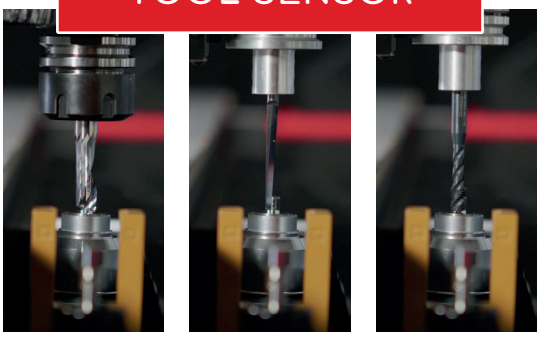
Ultra precise, automatic adjustments
For printing/cutting jobs
& front/back machining
Edges recognition of working piece
Caldera driver available

AKS



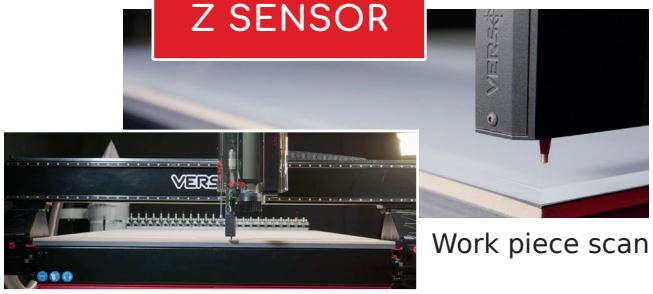
Automatic Knife Setter
Offset and blade direction

TOOL SENSOR



Auto tool length measurement for knives, milling, tapping & creasing tools

Z SENSOR



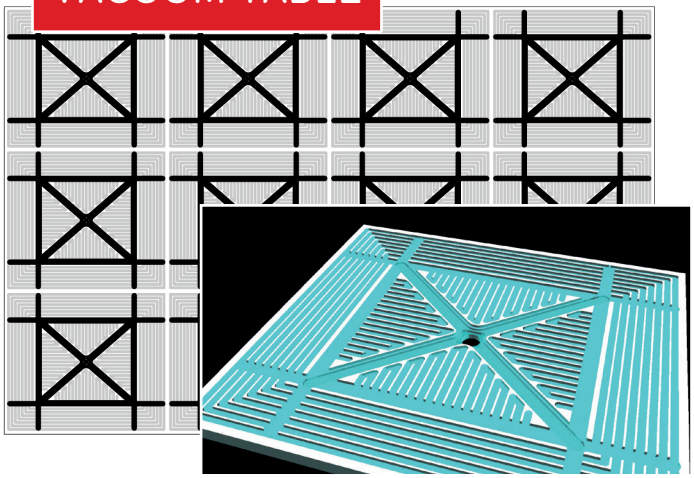
Work piece scan

Table Z scan

AUTO Z BRUSH

TOOLS Ø

VACUUM TABLE



Automatic zone switching via VERSOCAM during work

VACUUM PUMP

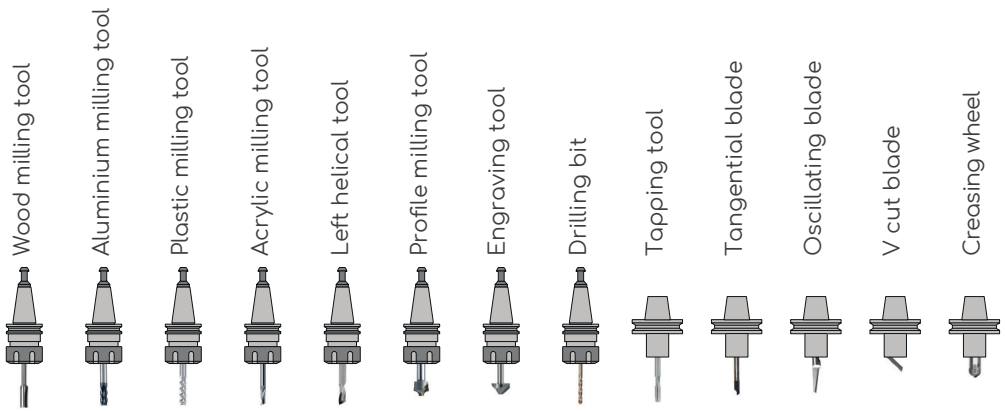
Power modulation from 0.8 to 10 KW managed by VERSOCAM during work

Energy saving
Effective aspiration

HIGH QUALITY COMPONENTS

HIWIN · YASKAWA · DELTA · Schneider Electric · NIPPON BEARING · MEAN WELL · arm · OMRON · AirTAC · SICK Sensor Intelligence.

TOOLS & MATERIALS



Rigid Materials	SPINDLE								UTM				
Aluminium		✔			✔		✔	✔	✔				
Wood	✔				✔	✔	✔	✔					
PMMA				✔		✔	✔	✔	✔				
PVC			✔		✔	✔	✔	✔	✔				
PE (Polyethylene)			✔			✔	✔	✔	✔				
POM			✔			✔	✔	✔	✔				
Aluminium Sandwich		✔				✔	✔	✔					
Semi-rigid Materials													
Foamed PVC < 5 mm			✔		✔	✔	✔	✔		✔			✔
Thin Wood	✔				✔	✔	✔	✔		✔			
Magnet					✔			✔		✔			
Honycomb PE			✔					✔			✔		
Cardboard					✔					✔	✔	✔	✔
Foam Core Cardboard					✔		✔	✔		✔	✔	✔	
Acoustical Felt								✔		✔	✔	✔	
Polystyrene								✔			✔	✔	
Thermo (floor)					✔			✔	✔	✔			
Flexible Materials													
Adhesive Vinyl										✔			
Tarpaulin										✔			
Fabric											✔		
Foam	✔		✔			✔	✔	✔			✔	✔	
Rubber										✔	✔		
Leather											✔		
Synthetic Leather										✔	✔		

TECHNICAL CHARACTERISTICS AND STANDARD SIZES

VERSO cnc®

VSR

VS2010R	VS2020 R	VS2030R	VS2040R

Frame type	Welded steel, stabilized and machined			
Working area (mm)	2000 x 1000	2000 x 2000	2000 x 3050	2000 x 4050
Maximum working speed * (mm / min)	57,000			
Acceleration * X/Y/Z (m/s²)	3			
X/Y axis motorisation	AC brushless Yaskawa Japan & helical planetary reducer 90°			
Z axis motorisation	AC brushless Yaskawa Japan (built-in brake) & helical planetary reducer + pneumatic actuator			
Z axis maximum speed (mm / min)	30,000			
X & Y axis transmission	Helical gear/rack			
Z axis transmission	Ballscrew			
Resolution (µm)	5 µm			
Linear guideway	Prismatic Hiwin HG25 rails + HG25 blocks			
First homing	Omron inductive sensors			
Final homing	Encoders signal (resolution +/- 5µm)			
Gantry squareness	Encoders signal (automatic during homing)			
Spindle type	800HZ - ISO30 pneumatic			
Spindle power (KW / FDM S6)	9			
Spindle speed (RPM)	2,000 --- 24,000			
Spindle cooling	Forced-air (electric fan)			
Tool cooling	Compressed air			
Camera	Integrated camera			
Camera offset	Automatic			
Camera distorsion offset	Automatic			
Tool sensor	Electronic			
Table and work piece Z sensor	Inductive - high precision			
Tool changer (nuber of tools)	24			
Tool changer security	Sensor for tool inversion			
Table type	Multi-zone vacuum table			
Vacuum zones control	Automatic 8 zones		Automatic 12 zones	
Vacuum pump power (KW)	From 0.8 to 10 KW - pressure sensor / inverter control loop			
Dust cleaner power (KW)	2			
Dust collector	Hiwin electric actuator. Z position adjusted by VERSOCAM during work			
Controller and firmware	Cortex-M3 ARM / VERSO SPEEDDM			
CADCAM software	VERSO CAM V10			
Supported file formats	dxf / ai / plt / pdf / HPGL			
CPU type	Intel i3 ou i5 fanless, inegrated in the main cabinet			
Screen type	22" integrated			
Keyboard / mouse	Wireless			
Operating temperature	15°C - 35°C			
Weight (Kg)	1750	2000	2200	2450
Dimensions (motion) L x W x H (mm)	3100 x 2430 x 2300 (**3050)	3100 x 3430 x 2300 (**3050)	3100 x 4480 x 2300 (**3050)	3100 x 5480 x 2300 (**3050)
Dimensions (transport) L x W x H (mm)	2500 x 1800 x 2200	2500 x 2800 x 2200	2500 x 3850 x 2200	2500 x 4850 x 2200

AIR AND POWER SUPPLY

Power supply	400 V (three-phase power + neutral + ground) - 40 A circuit breaker (D curve) - 300 mA GFCI
Electrical connection	5 X 10 mm² cable
Compressed air	Dry air, pressure 8 - 10 bars, minimum air flow 350 l/min. ISO6150 connector.
Minimum compressed air flow (l / min)	350

** with vacuum hose holder

Included

Set of milling tools
ER32 wrench
9 ISO 30 toolholder
6 ER32 spring collets
Milling underlay
Cleaning tool ISO30 spindle

UTM (optional)

UTM module
Oscillating knife toolholder + one blade
Tangential knife toolholder + one blade
V cut (45°) toolholder + one blade
Creasing wheel toolholder + one wheel
Tapping toolholder + one M5 thread tap
AKS (Automatic Knife Setter for offsets)

Diameter Sensor (optional)

Tripod tool sensor +/- 5µm
For milling tools (Ø > 1 mm)
Suitable for single flute milling tools
Provided with setting tools and box

Safety Scan (optional)

Safety LASER scanner. Two sides from home position. Ideal for corner installation (see typical layout diagram).

* Without this option or any other suitable safety device (e.g. infrared light curtains, pressure detection mat etc.) connected to the machine, it will automatically be limited to 30,000 mm/min - 1 m/s².

Information as of 20/09/2023