

VERSO⁺cnc[®]



NUMERICAL CUTTING MACHINES



VSR

FULLY VERSATILE
AUTOMATIC
USER FRIENDLY
LAST GENERATION



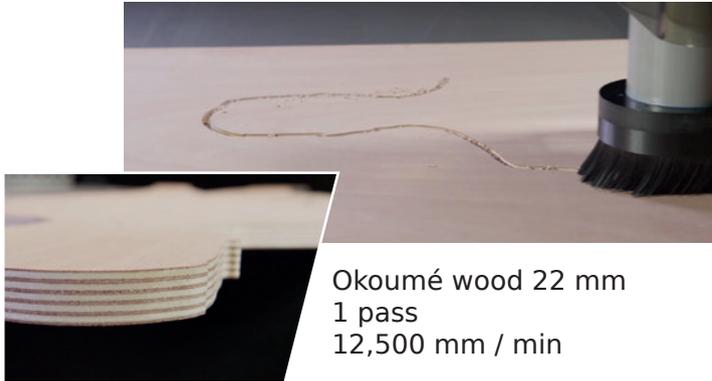
BECOME A DISTRIBUTOR !

www.verso-cnc.fr



MILLING

POWER & HIGH SPEED



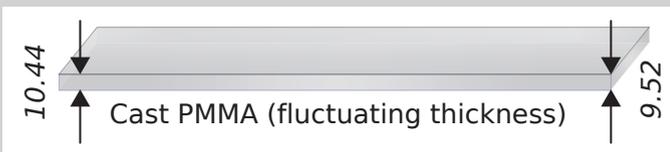
Okoumé wood 22 mm
1 pass
12,500 mm / min



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

*Auto drilling + tapping
via UTM*

HIGH PRECISION

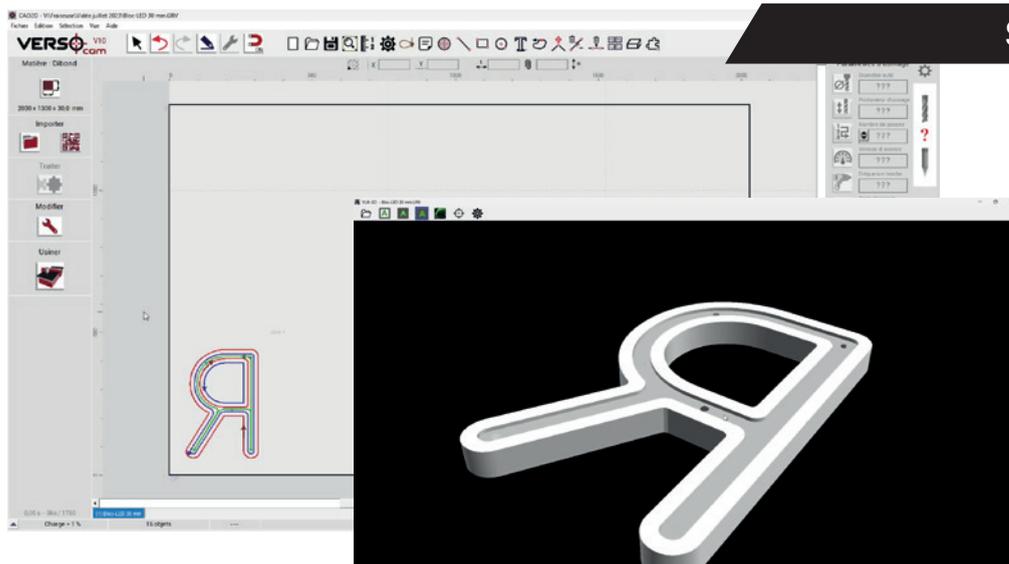


Constant depth engraving 0.2 mm
Automatic sheet measurement via Z sensor



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

SOFTWARE / MACROS



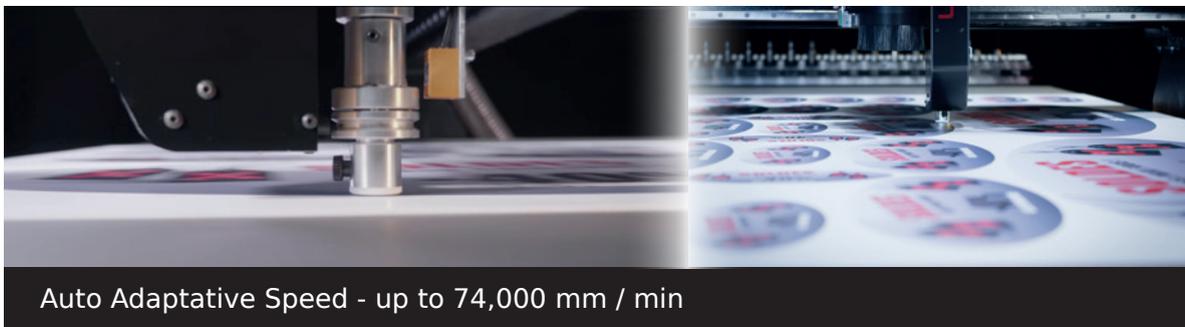
VERSOCAM

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



AUTOMATIC TOOL CHANGER

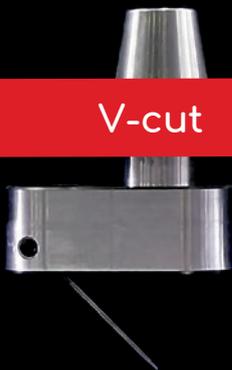
Tapping

V-cut

Oscillating

Creasing

Tangential

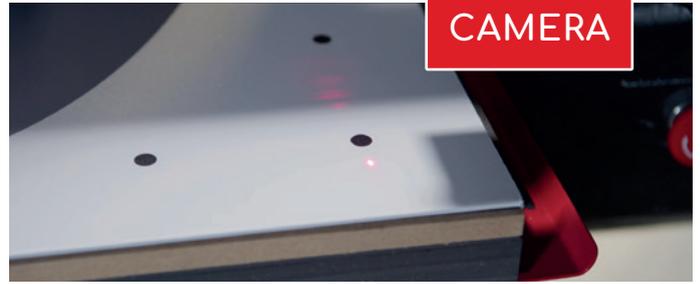


ATC



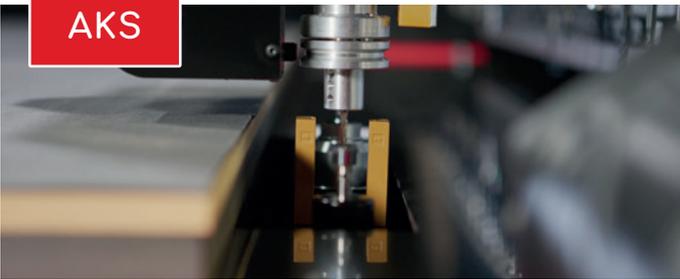
Automatic Tool Changer 24 positions suitable for milling cutters, knives, tapping & creasing tools

CAMERA



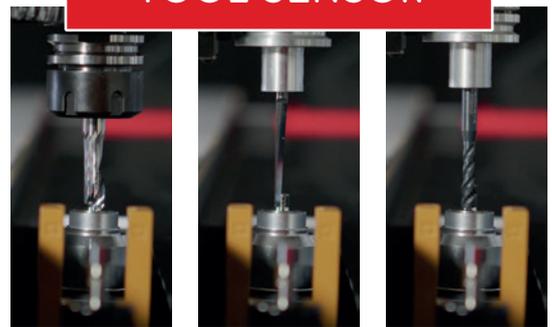
Ultra precise, automatic adjustments
For printing/cutting jobs
& front/back machining
Edges recognition of working piece
Caldera driver available

AKS



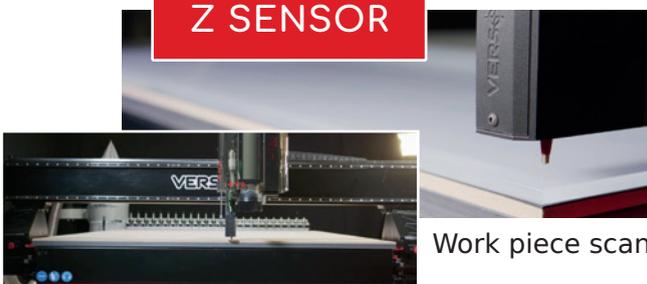
Automatic Knife Setter
Offset and blade direction

TOOL SENSOR



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

Z SENSOR



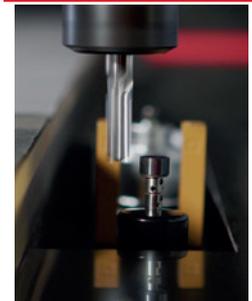
Work piece scan

Table Z scan

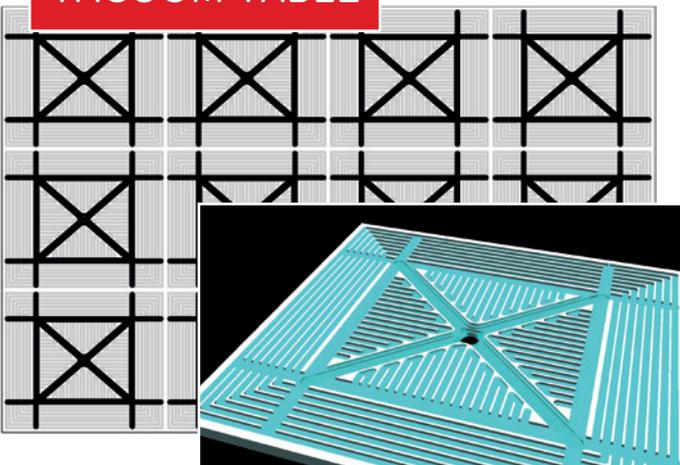
AUTO Z BRUSH



TOOLS Ø



VACUUM TABLE



Automatic zone switching during work

VACUUM PUMP



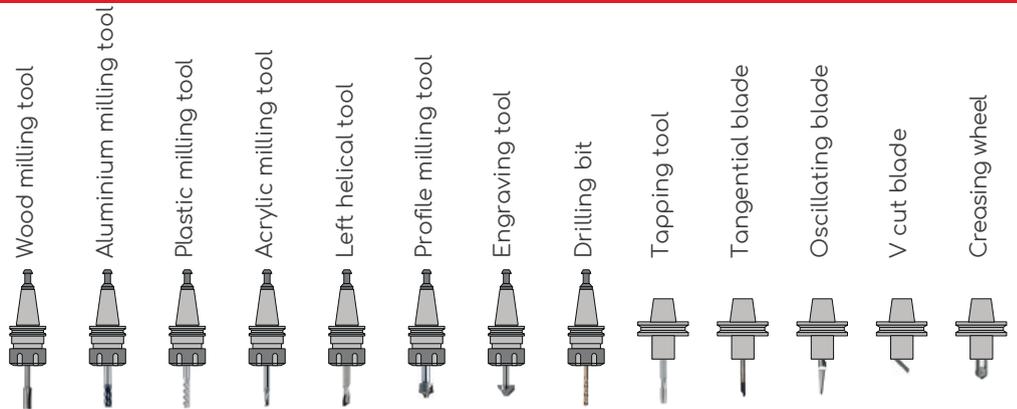
Power modulation from 0.8 to 10 KW
managed by VERSOCAM during work

Energy saving
Effective aspiration

HIGH QUALITY COMPONENTS



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					✓			✓		✓			
Honeycomb PE			✓					✓			✓		
Cardboard					✓					✓	✓	✓	✓
Foam Core Cardboard					✓		✓	✓		✓	✓	✓	
Acoustical Felt								✓		✓	✓	✓	
Polystyrene								✓		✓	✓		
Thermo (floor)					✓			✓	✓	✓			

Flexible Materials

Adhesive Vinyl										✓			
Tarpaulin										✓			
Fabric											✓		
Foam	✓		✓			✓	✓	✓			✓	✓	✓
Rubber										✓	✓		
Leather											✓	✓	
Synthetic Leather										✓	✓		

VS2010R
VS2020 R
VS2030R
VS2040R

Frame type	Welded steel, stabilized and machined			
Working area (mm)	2050 x 1050	2050 x 2050	2050 x 3050	2050 x 4050
Maximum working speed*** (mm / min)	35,000***		74,000***	
Acceleration*** X/Y/Z (m/s ²)	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)	2.5 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 distortion offset	Automatic			
Tool sensor	Electronic / Automatic			
Table and work piece Z sensor***	Inductive - high precision			
Diameter sensor***	Tripod tool sensor			
Tool changer*** (number of tools)	24***			
Tool changer security	Sensor for tool inversion			
Table type	Automatic 8 zones***	Multi-zone vacuum table	Automatic 12 zones***	
Vacuum zones control				
Vacuum pump power (KW)***	From 0.8 to 10 KW - pressure sensor / inverter control loop***			
Dust cleaner power (KW)	2.0			
Dust collector	Electric actuator. Z position adjusted by VERSOCAM during work			
Controller and firmware	Two Cortex-M3 ARM / VERSO SPEEDDM			
CAD/CAM software	VERSO CAM V11			
Supported file formats	dxf / ai / plt / pdf / HPGL / SVG / EPS / PS / STEP			
CPU type	Intel i3 ou i5 fanless, integrated in the main cabinet			
Screen type	24" 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 (C curve) - 300 mA GFCI
Electrical connection	5 X 10 mm ² cable
Compressed air	Dry air, pressure 8 - 10 bars, minimum air flow 350 l/min. ISO6150 connector.
Minimum compressed air flow (l / min)	350

Included

Accessories

ER32 wrench
9 ISO 30 tool holders
6 ER32 collets
ISO 30 taper cleaning tool

VERSOCAM Modules (SOFT)

UTM - Tangential cutting, oscillating cutting, V-cut and tapping. AKS activation (Automatic Knife Setter for offsets).

ATC - Automatic tool changer management (spindle tools & UTM tools).

CAMERA - Optical registration of printed marks and sheet edges. QR code reading. Automatic offset.

CONTROLLED VACUUM TABLE - Automatic zone switching during machining. Real-time turbine power adjustment + boost mode.

SHEET PROBING - Automatic multi-point thickness measurement of the material. Real-time compensation based on the recorded map during machining.

DIAMETER PROBING - Measurement of the rotating tool diameter.

Note: The standard hardware configuration of VSR machines supports all the software options listed above. These options can therefore be added at any time without any hardware addition or modification to the machine.

* Software option

** with mounted dust extraction hose support

*** In the absence of a suitable OSSD-compatible safety device connected to the machine (e.g. infrared light curtains, pressure-sensitive safety mats, etc.), the machine will be automatically limited to 30,000 mm/min and 1 m/s².