

VERSO⁺cnc[®]



NUMERICAL CUTTING MACHINES



VSR

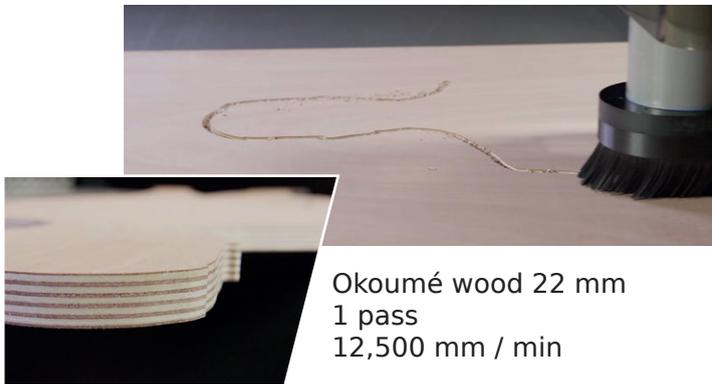
FULLY VERSATILE
AUTOMATIC
USER FRIENDLY
LAST GENERATION



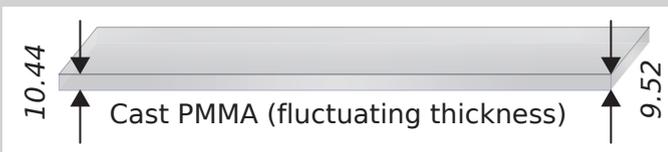
BECOME A DISTRIBUTOR !

MILLING

POWER & HIGH SPEED



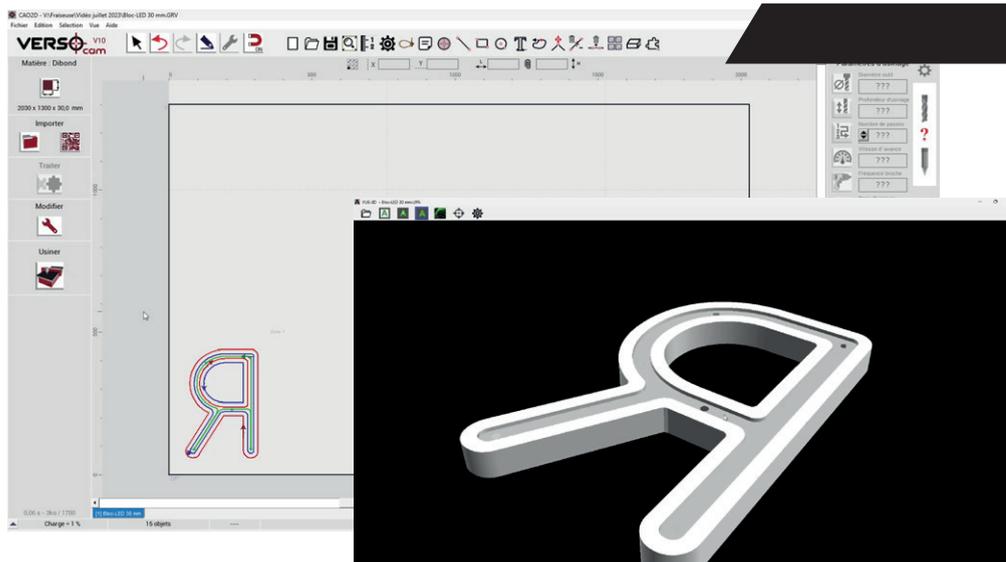
HIGH PRECISION



Constant depth engraving 0.2 mm
Automatic sheet measurement via Z sensor



SOFTWARE / MACROS



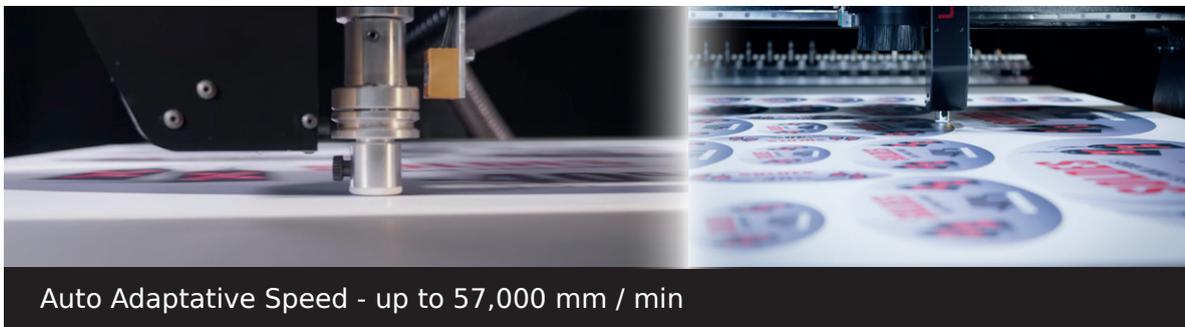
VERSOCAM

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

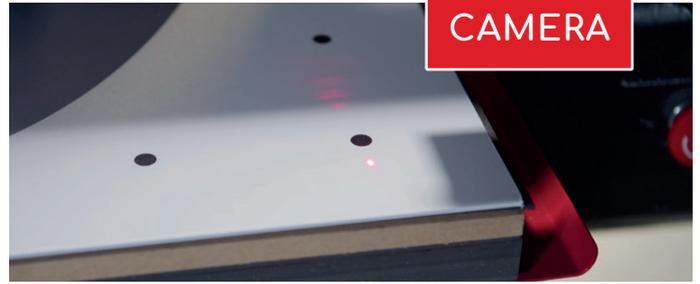


ATC



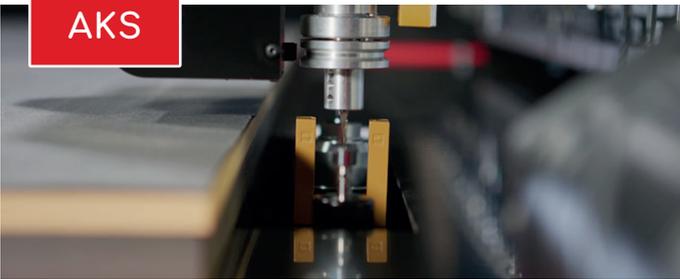
Automatic Tool Changer 24 positions suitable for milling cutters, knives, tapping & creasing tools

CAMERA



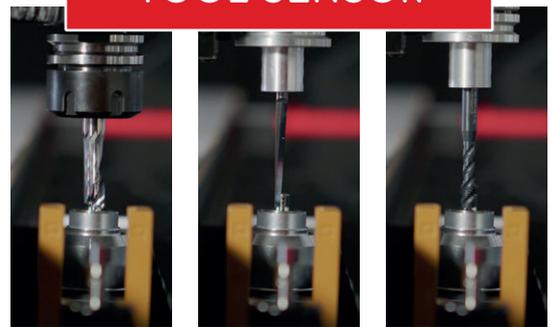
Ultra precise, automatic adjustments
For printing/cutting jobs & front/back machining
Edges recognition of working piece
Caldera driver available

AKS



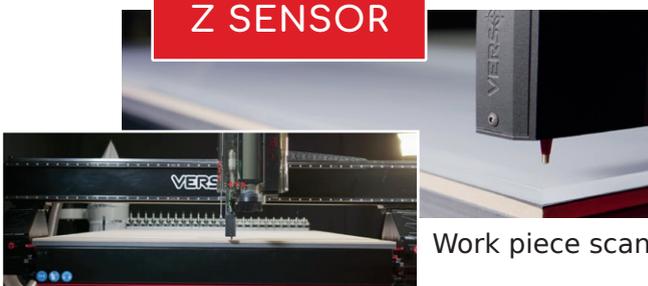
Automatic Knife Setter
Offset and blade direction

TOOL SENSOR



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

Z SENSOR



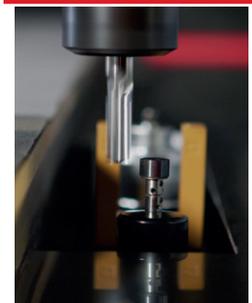
Work piece scan

Table Z scan

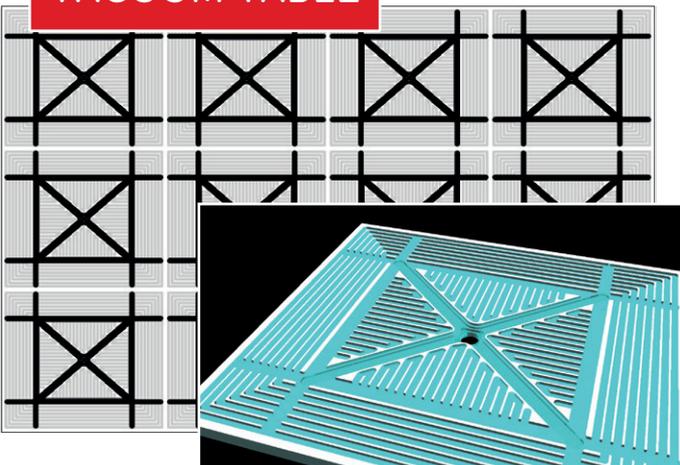
AUTO Z BRUSH



TOOLS Ø



VACUUM TABLE



Automatic zone switching during work

VACUUM PUMP



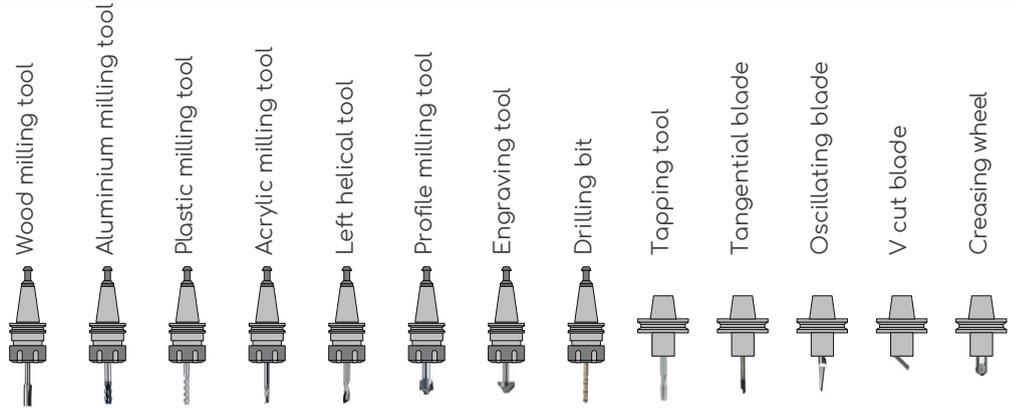
Power modulation from 0.8 to 10 KW managed by VERSOCAM during work

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 1000	2050 x 2000	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			
Tool changer (number 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)	2.0			
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			

** with vacuum hose holder

Included

ER32 wrench
9 ISO 30 toolholder
6 ER32 spring collets
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.