



MILLING & DIGITAL CUTTING SYSTEMS



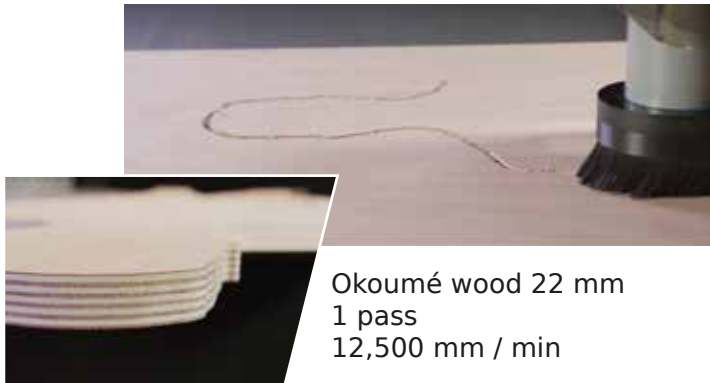
VSR / ONE MACHINE. TWO WORLDS.
MILLING + DIGITAL CUTTING.



From solid aluminium to self-adhesive vinyl. One machine. One software platform.

www.verso-cnc.com

MILLING



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

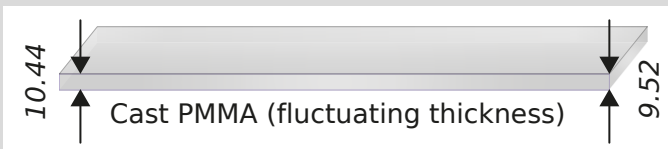
POWER & HIGH SPEED



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

*Auto drilling + tapping
via UTM*

HIGH PRECISION ON THE REAL MATERIAL

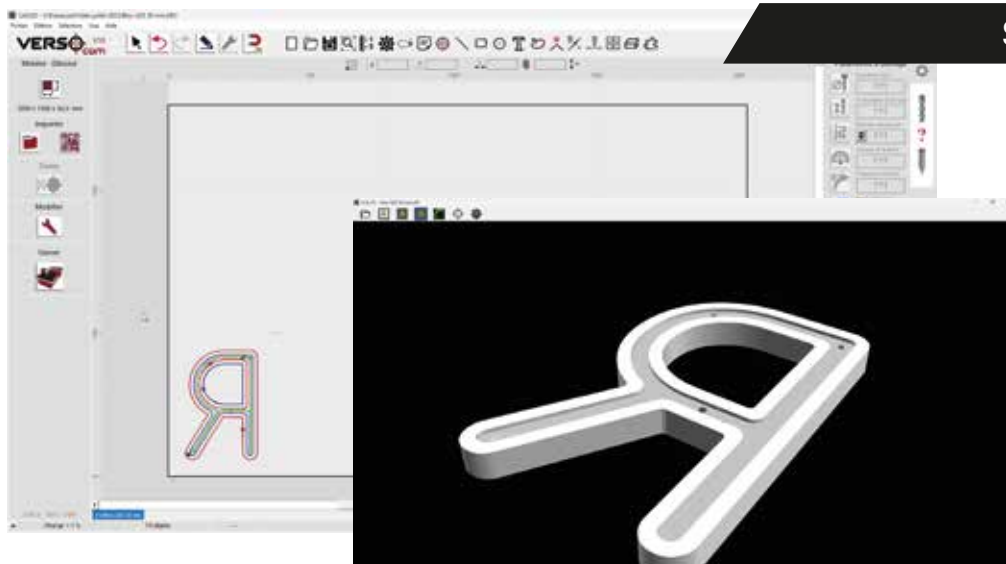


Automatic surface mapping compensates table and material thickness variations in real time.



Cast PMMA 10 mm
1 pass - 3,500 mm / min
Standard tool, no finishing

SOFTWARE / MACROS



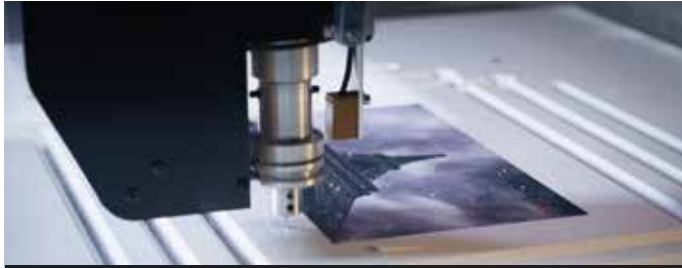
VERSOCAM

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

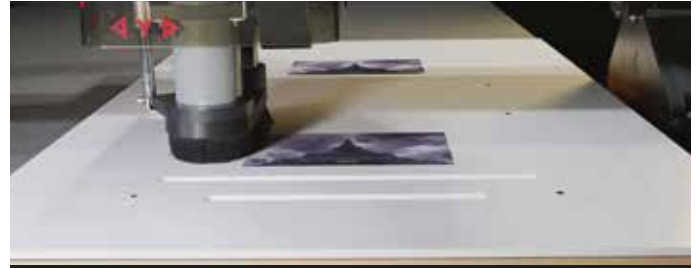
Like our controllers, firmware, CAD and CAM, VERSOCAM is entirely developed by VERSO, for VSR.

UTM

Universal Tangential Module



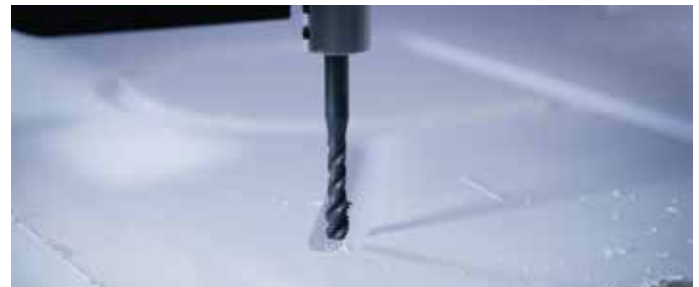
UTM / Oscillating Mode



Recognition Process, Milling & EOT



UTM + Camera + Stadur® Milling



Auto Drilling & Tapping



Automatic Adaptive Speed - up to 74,000 mm / min

AUTOMATIC TOOL CHANGER

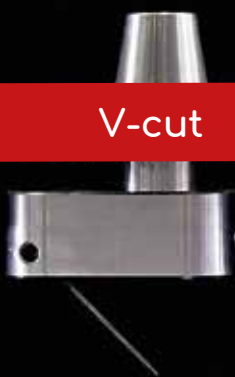
Tapping

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
Workpiece edge detection
Caldera driver available

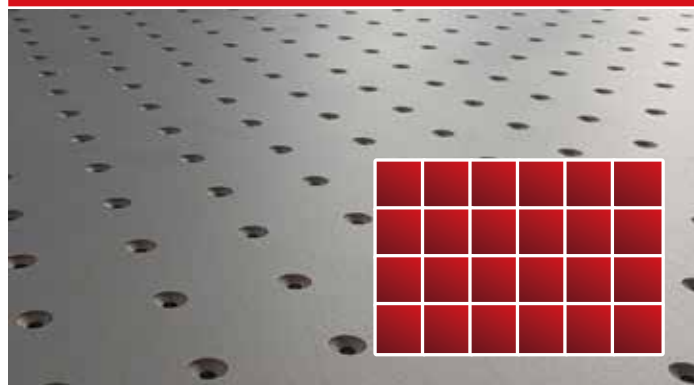
VACUUM PUMP



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

- Energy saving
- Effective aspiration
- Boost mode

AUTOMATIC VACUUM TABLE



Automatic zone switching during work

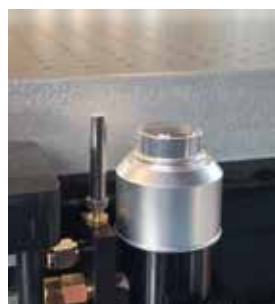
Z SENSOR



Workpiece scan

Table Z scan

AUTOMATIC TOOL PROBING



Suitable for all tools:

- Milling
- Drilling
- Tapping
- Knives & EOT
- Creasing
- Vcut

AKS



Automatic Knife Setter (offsets)

DUST SHOE



Servo-controlled

TOOLS Ø



SELECTED COMPONENTS FROM

HIWIN®

YASKAWA®

DELTA®

Schneider®
Electric

NIPPON BEARING®

MW
MEAN WELL®

arm®

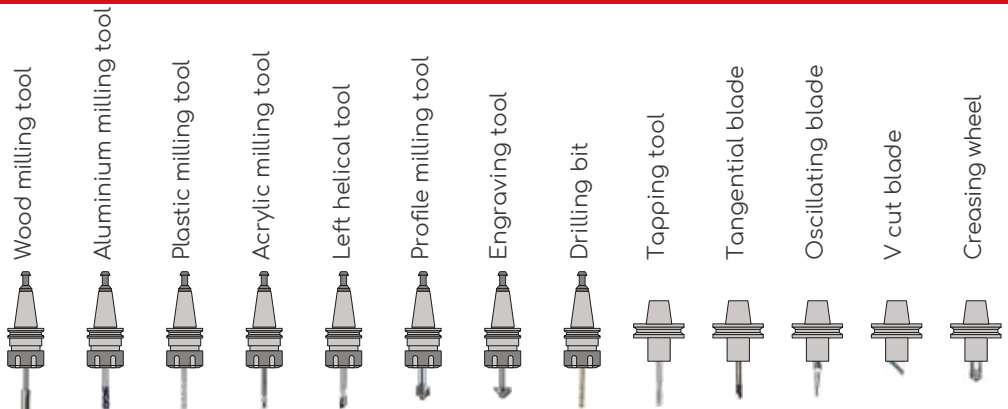
OMRON®

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

Flexible Materials

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

ER32 wrench
9 ISO 30 collet chucks
6 ER32 collets
ISO 30 taper cleaning tool
5 UTM collet chucks
(simple, oscillating, Vcut, tapping, creasing)

VERSOCAM Options (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.

FUTURE-PROOF HARDWARE

All VSR machines include the hardware required for every VERSOCAM option. Functions can be activated later without modifying the machine.

* Enabled when the software option is installed

** with mounted dust extraction hose support

*** In the absence of a suitable 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.

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/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)	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 compensation	Automatic			
Tool sensor	Electronic / Automatic			
Table and workpiece 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	Multi-zone aluminium vacuum table			
Vacuum zones control*	Automatic 12 zones		Automatic 24 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			
CADCAM software	VERSO CAM V12			
Supported file formats	dxf / ai / plt / pdf / HPGL / SVG / EPS / PS / STEP			
CPU type	Intel 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 7 - 10 bars, minimum air flow 350 l/min. ISO6150 connector.	
Minimum compressed air flow (l / min)	350	