

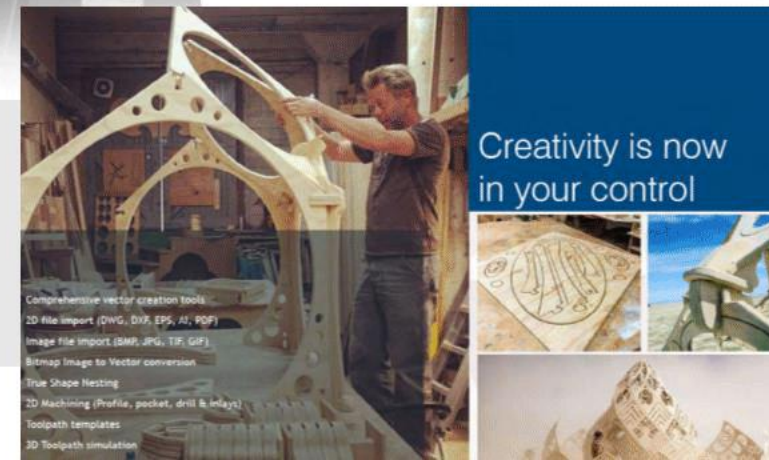
# EcoTek

## TR408AD

**HSD**  
MECHATRONIC  
SOLUTIONS

**Vetric**  
PASSIONATE ABOUT CNC

A compact 8x4 CNC router with HSD router head - ideal for van conversions, cutting applications, supplied complete with the latest version of Vetric VCarve Pro software



417 Springfield Street #203, Agawam, MA 01001 USA Tel +1.413.209.6162



#### Strength

an 8mm thick monoblock base and splayed legs for optimum stability, makes the TigerTec a class leader and will provide many years accurate routing production  
The non ATC 408 weighs over 1650kg Heavier and more rigid than competitors



#### Multifunction table

TigerTec heavy multifunction worktables are prepared for mechanical clamping or vacuum working with separate work zones and a choice of Becker vacuum pumps



#### HSD spindle: quality power reliability precision

all TigerTec CNC routers are fitted with Italian HSD router spindles which are proven, renowned and reliable, serviceable the world over and easy to replace should the unforeseen catastrophic happen

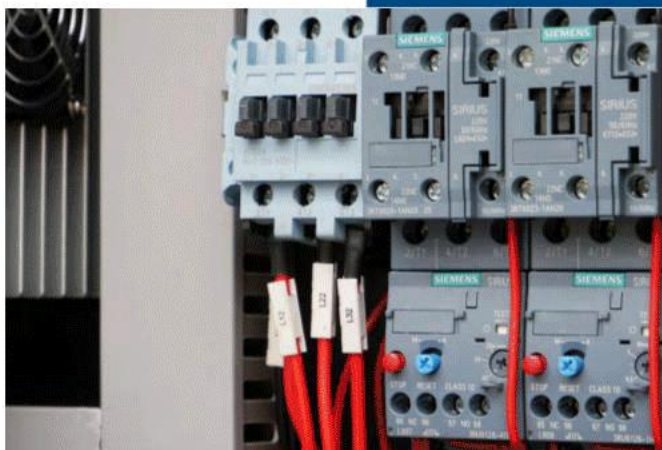
This manual tool change machine has a continuously rated 6.0 kw [S1] electrospindle which can peak 40% of the time at 7.2 kw [S6 - 9.78 hp] - you have plenty of power on tap

**HSD**  
MECHATRONIC  
SOLUTIONS



#### Quality mechanical parts

including precision rack and pinion drive. The heavy duty fully enclosed energy chain prevents ingress of chips and dust reducing wear.



#### Quality control components

Siemens contactors with a robust and reliable, traceable, numbered wiring scheme gives you long term peace of mind



#### Easy to control

the easy to use NK105 hand held control keeps you informed and the mobile control at your finger tips

The TigerTec TR408AD 8x4 Flat Table CNC router is designed for modern workshops with flexibility in mind. They are ideal for all manner of industries needing CNC speed and accuracy. The TigerTec is set apart from other machines at this level using top quality components, manufacture, coupled with the latest version Vectric VCarve Pro software makes this an unbeatable package.

The heart of the machine is an Italian HSD [part of Biesse] router head which can peak at 9.78 hp [S6]. Control is with an easy to use DSP hand-held mobile . The controller is user-friendly for easy installation and training. Each command is very easy to read, understand, and execute.

We supply the machine complete with a the latest version of Vectric V-Carve Pro, easy to use and program, it is supplied with lots of clipart and can import common file formats [DXF, DWG, AI, EPS]

VCarve includes the functionality demanded for complex work while remaining incredibly easy to use. The software is used by cabinet makers, wood workers, sign makers, prop makers, plastic fabricators, and in many other applications

We can provide training inhouse in our factory or we can offer on site training and installation.

The multifunction table is prepared for mechanical clamping as standard and is prepared with a multi-zone vacuum system for the optional vacuum pump.

All TigerTec machines are built on a heavy 8mm thick steel base that is rectified, stress relieved, then machined and ground as one piece giving unprecedented repeatability and accuracy at this price level.

The steel gantry is reinforced throughout, it is then heat treated and anealed which results in class leading accuracy. The quality control, engineering and build results in smooth, clean precision machining centre.

Applications :

Van conversions, Perspex cutting, Display work, General Woodworking, Furniture, Shopfitting, Scenery production, Signmaking, 2D and 3D Carving in woods, metals solid surface and plastics

About TigerTec

TigerTec are a Sino-American joint venture and one of the leading manufacturers in the field for compact CNC Routers manufacturing for other well

known European and American companies. All components used are from quality renowned suppliers:.

Class leading features:

- HSD Router head
- Siemens contactors
- Delta inverter
- Centralised lubrication
- Rack & Pinion drive
- HiWin HG20 linear guides for 3 axes
- Multifunction table for nesting or clamps
- Fully enclosed cable track
- Latest full version of Vectric VCarve Pro software



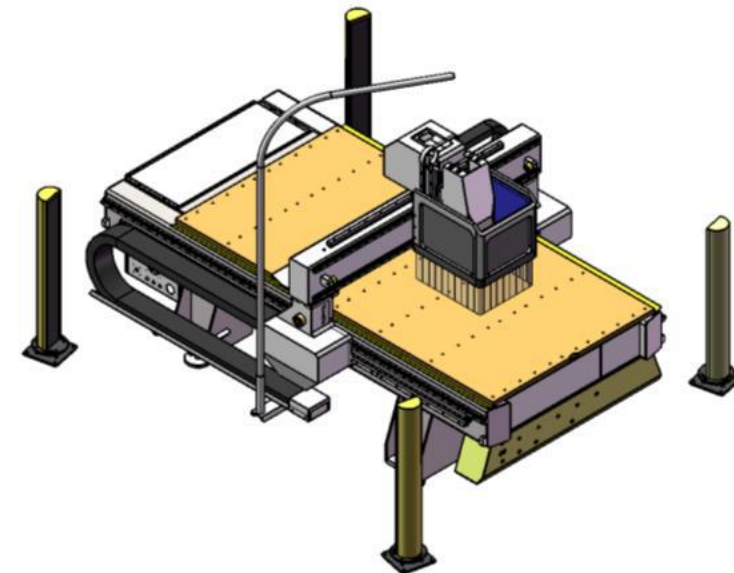
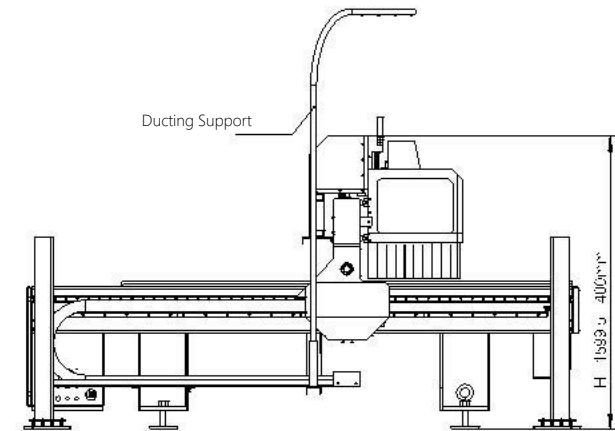
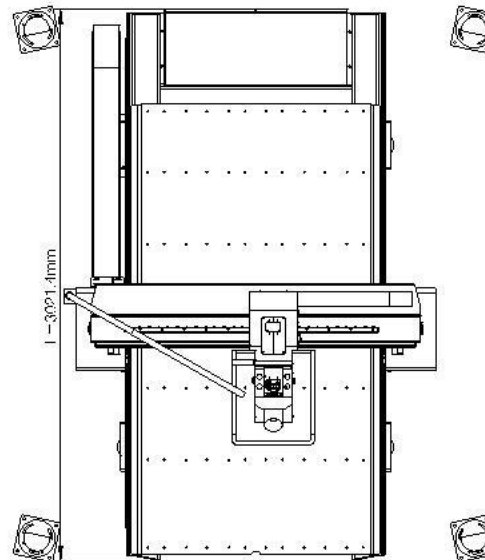
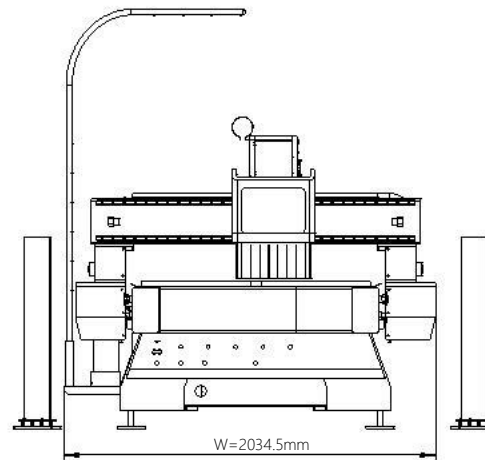


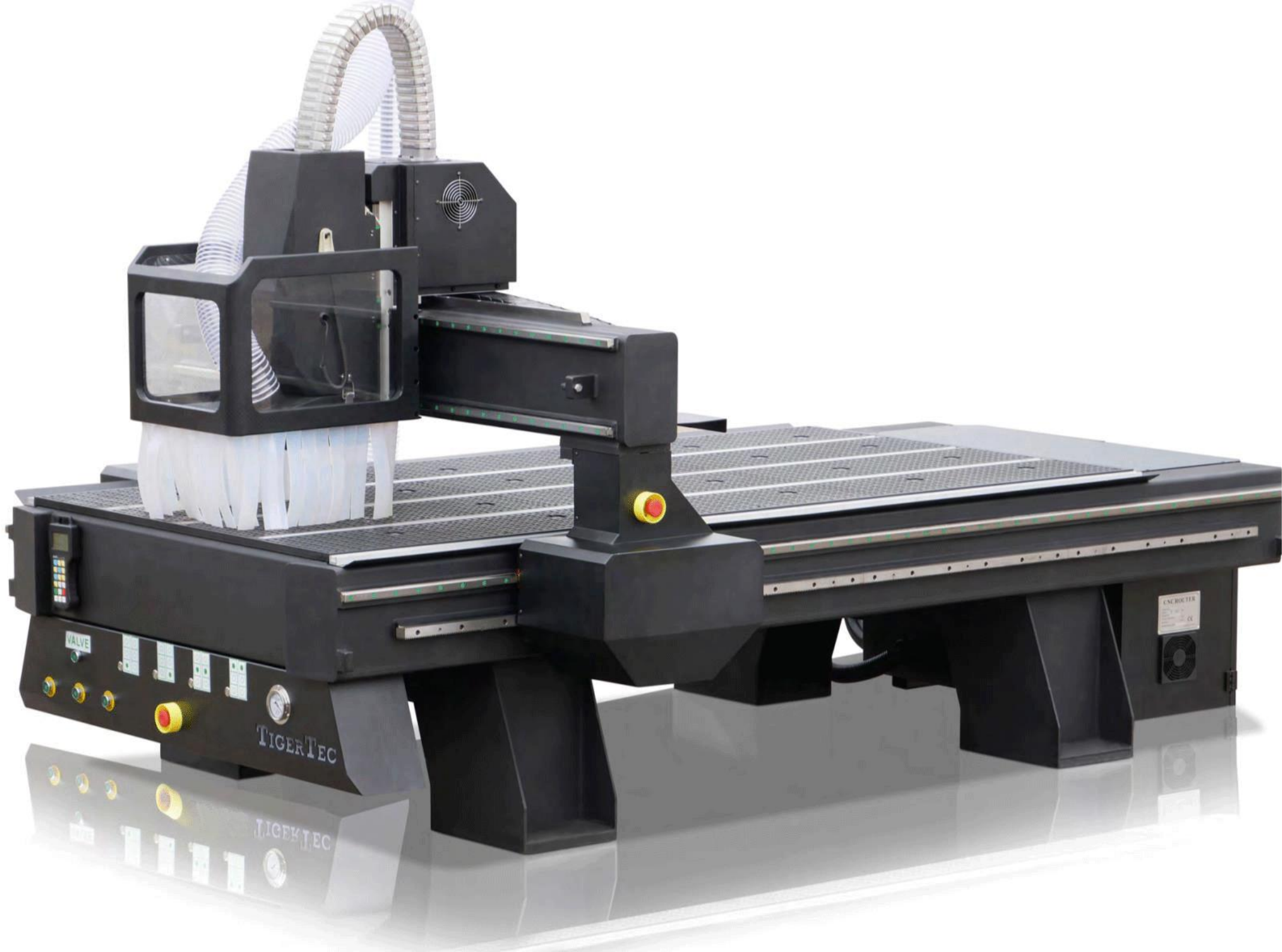
Integrated tool sensor  
allows you to set exact tool length  
when changing tools.

# EcoTek TR408AD

## Technical Specification:

Working area:	1300 x 2500 mm
Z Axis	200 mm
Max cutting speed:	20m/min
Max moving speed:	45m/min
Control	DSP NK105 G2
Drive	Synchronous step-
pers, with planetary reducer	
Transmission	Rack pinion
Router head	6.0 Kw [S1] HSD
Max speed	18000 rpm
Collet size	ER32
Table	Multifunction
Vacuum pump	Optional
Weight:	1750kg







# TR408AD ATC



**HSD**  
MECHATRONIC  
SOLUTIONS

**Vetric**  
PASSIONATE ABOUT CNC

A compact 8x4 CNC router with HSD router head and 8 position automatic tool changer - ideal for van conversions, cutting applications, supplied complete with the latest version of Vetric VCarve Pro software





**Quality HSD Router head**

our TigerTec CNC routers use premium components: this machine is specified with a world renowned HSD Italian router head for long life and serviceability. This ATC machine uses an E3951 spindle which has 9.5 kW continuous rating [S1]

If you are comparing CNC routers, always check what spindle is fitted. It will be the 'muscle' in your new machine



**VCarve**

VCarve includes the powerful functionality demanded by our users, while remaining affordably priced and incredibly easy to use. The comprehensive drawing and machining tools coupled with the realistic machining simulation allows you to efficiently design and cut the parts you need, getting them right first time.

- Full range of 2D Drawing and Editing Tools plus 3D File Import ...**
- Draw common shapes such as polylines, circles, arcs, rectangles etc.
  - Text using all Windows standard fonts + Vectric Single Line fonts
  - 2D File Import (DWG, DXF, EPS, AI, PDF)
  - Image File Import (BMP, JPG, TIF, GIF)
  - Bitmap Image to Vector conversion
  - Layer control, Guide lines, Snap Grid
  - Single 3D File Import (STL, OBJ, 3DM, SKP)
  - Import Multiple Vectric 3D Clip Art Files
  - Import and Assembly (V3M)

**Strength**

an 8mm thick monoblock base and splayed legs for optimum stability, makes the TigerTec a class leader and will provide many years accurate routing production

**Multifunction table**

TigerTec heavy multifunction worktables are prepared for mechanical clamping or vacuum working with separate work zones and a choice of Becker vacuum pumps



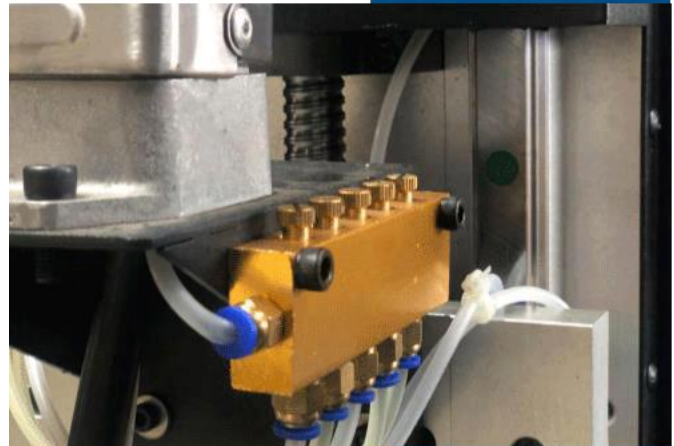
- Comprehensive Tool Pathing and Simulation Options ...**
- Advanced 2D Profiling with Interactive Tabs/ Bridges, Lead and Ramp options
  - Pocketing with optimization for 2 tools
  - Drilling, including peck-drilling options
  - Robust and fast V-Carving (chip carving) and 3D Prism/ Bevel toolpaths
  - Auto-Inlays with multiple inlay options
  - 3D Random Texturing Toolpath
  - 3D Roughing and Finishing Toolpaths
  - Custom Molding and Form Cutters
  - Tiling of toolpaths to cut jobs larger machine bed
  - Multi-color Toolpath Previews
  - Huge range of output options to drive most CNC machines

- The Pro Edition includes the following:**
- Work on parts larger than 63 x 63 cm
  - True Slope **Nesting** across multiple sheets
  - Templates to apply settings to new designs
  - Merge Toolpaths
  - Job Setup Sheets
  - Gadget (scripting) support
  - Wrapped Rotary Axis Machining



**Auto tool change**

the 8 position tool changer increases the flexibility allows you to produce more complex routing and drilling with ease. It uses industry standard low cost ISO30 tool holders with ER32 collets from 3-20mm



**Centralised lubrication**

makes it easier to keep your machine in tiptop condition. It's easy: one pump lubricates all the machine axis linear bearing guides - flow can be adjusted on the distribution manifold



The TigerTec TR408AD flat Table CNC router with auto tool changer is designed for modern workshops with flexibility in mind. They are ideal for all manner of industries needing CNC speed and accuracy. This quality coupled with the bundled Vectric Software makes for a great package for routing, cutting and nesting.

The heart of the machine is a 7.5kw Italian HSD router head with an easy to use DSP Hand-held Control. The controller is user-friendly for easy installation and training. Each command is very easy to read, understand, and execute.

We supply the machine complete with a the latest version of Vectric VCarve Pro, which is easy to use and program, it is supplied with lots of clipart and can import common file formats.

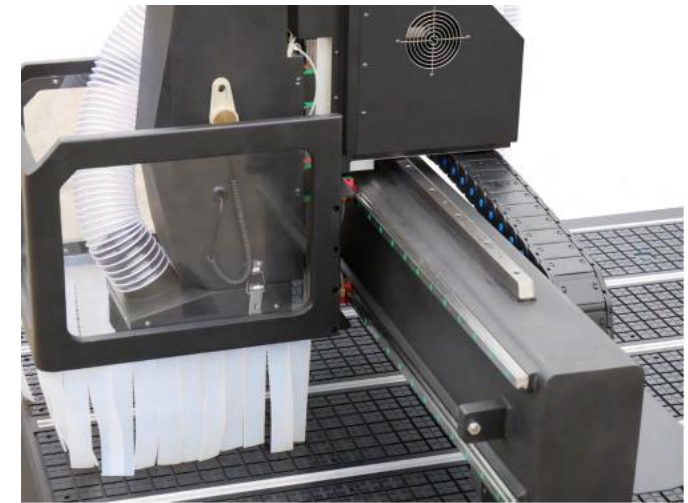
VCarve includes the functionality demanded for complex work while remaining incredibly easy to use. The software is used by cabinet makers, wood workers, sign makers, prop makers, plastic fabricators, and in many other applications

We can provide as much or as little training inhouse as you want either in our factory or we can offer on site training and installation.

The multifunction table is prepared for mechanical clamping as standard and is prepared with an 8 zone vacuum system for the optional vacuum pump.

Class leading features:

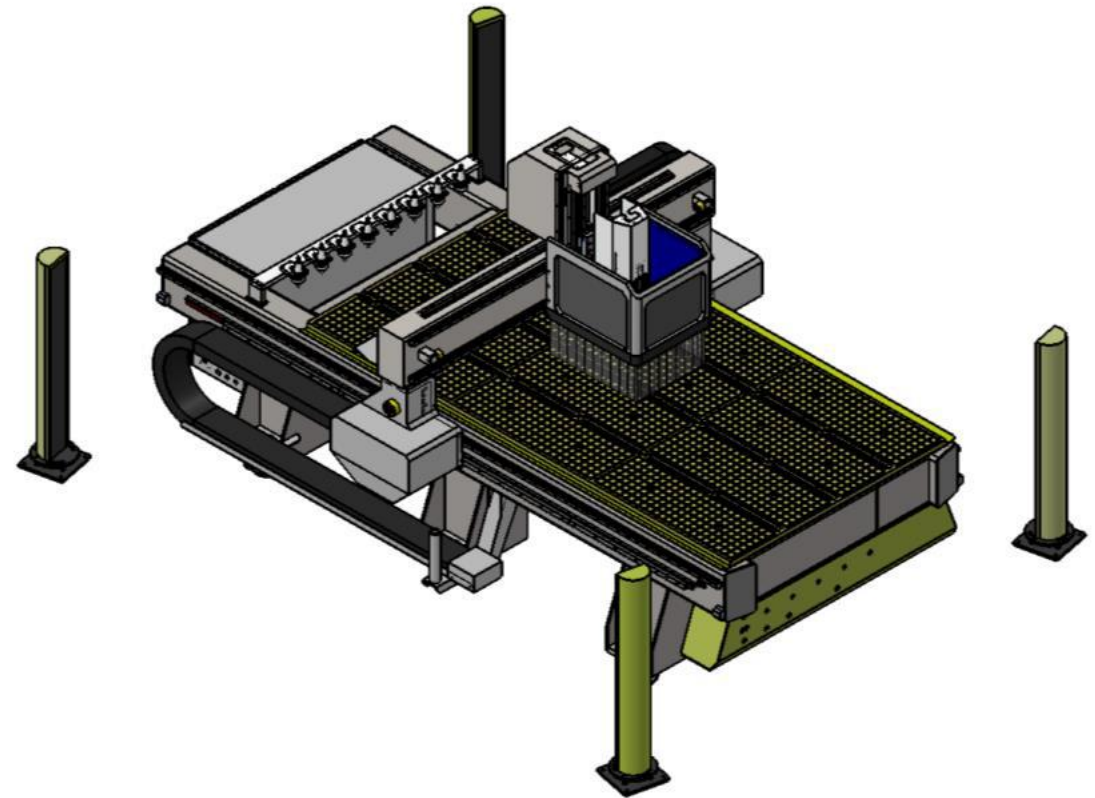
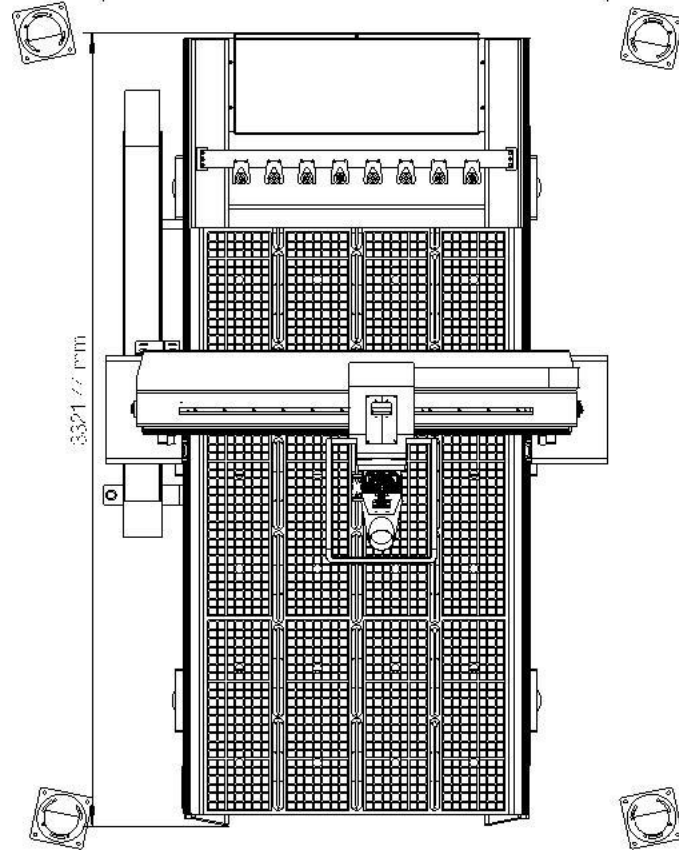
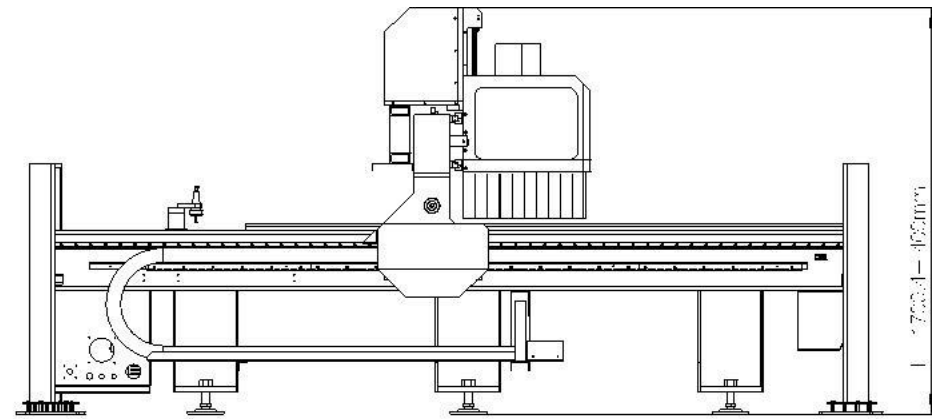
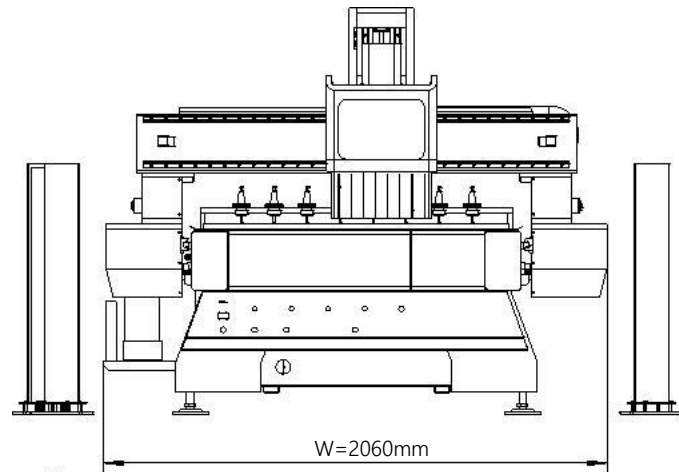
- HSD Router head
- Siemens contactors
- Delta inverter
- Centralised adjustable lubrication
- Rack & Pinion drive
- THK HSR25 rails and bearings with double wipers/seals for X&Y & HSR20Z
- Multifunction table for nesting or clamps
- Fully enclosed cable track
- Tool length sensor
- Pneumatic activation for dust hood
- Latest full version of Vectric VCarve Pro software
- 5 x Pop up stops
- Adjustable centralised lubrication

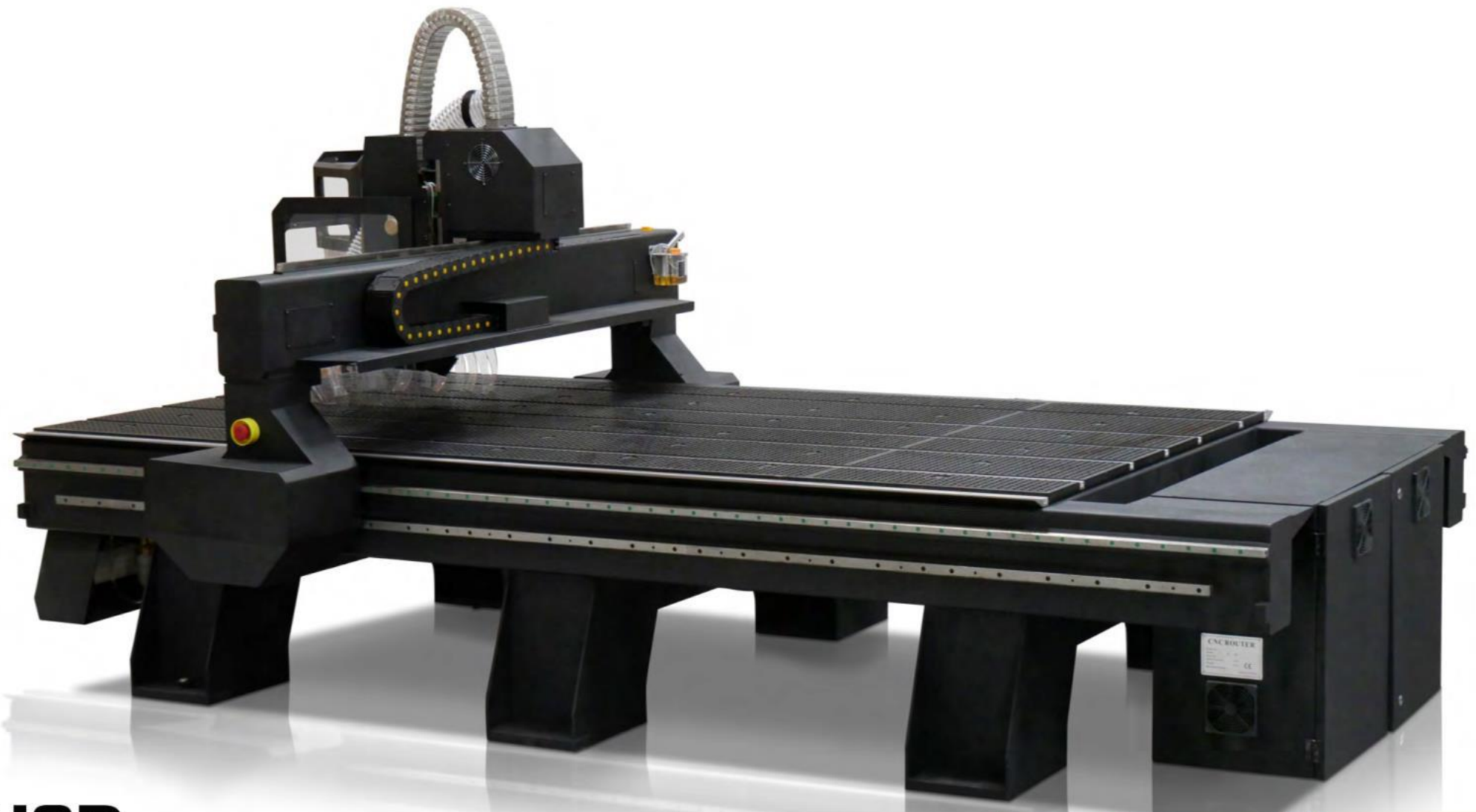


Technical Specification:

Working area:	1300 x 2500 mm
Z Axis	200mm
Max cutting speed:	20m/min
Max moving speed:	45m/min
Control	DSP NK105 G2
Drive	Twin Stepper, with planetary reducer
Transmission	Rack & pinion
Router head	7.5kw HSD ES951
Auto tool changer (requires compressed air supply)	8-position
Tools Holders included	8 pcs
Max speed	18000 rpm
Collet size	ER32
Multifunction table: T-slot clamp or vacuum	
Vacuum pump	Optional
Weight:	2200kg

# TR408AD ATC





**HSD**  
MECHATRONIC  
SOLUTIONS

A compact 10x5 CNC router with HSD router head - ideal for van conversions, cutting applications, supplied complete with the latest version of Vectric VCarve Pro software

**Vectric**  
PASSIONATE ABOUT CNC

Creativity is now  
in your control

- Comprehensive vector creation tools
- 2D file import (DWG, DXF, EPS, AI, PDF)
- Image file import (BMP, JPG, TIF, GIF)
- Bitmap Image to Vector conversion
- True Shape Nesting
- 2D Machining (Profile, pocket, drill & inlays)
- Toolpath templates
- 3D Toolpath simulation



The TigerTec TR510 10x5 larger capacity flat table CNC router for those wanting a larger format machine which is simple, great quality and price. Ideal for all manner of industries needing CNC speed and accuracy.

Class leading features:

HSD Router head

Siemens contactors

Delta inverter

Centralised lubrication

Dual Rack & Pinion drive

HiWin linear guides for 3 axes

Multifunction table

Fully enclosed cable track

Vetric VCarve Pro software

Collet selection included

Tool sensor included

Technical Specification:

Axis Travel:	1550 x 3050 mm
Z Axis	200mm
Max cutting speed:	20m/min
Max moving speed:	45m/min
Control	DSP NK105 G2
Transmission	Dual synchronised
Drive	Rack & pinion
Router head	6.0 Kw [S1] HSD
Max speed	18000 rpm
Collet size	ER32
Weight:	2200 kg

## Strength

an 8mm thick monoblock base and splayed legs for optimum stability, makes the TigerTec a class leader and will provide many years accurate routing production



A Compact 10x5 CNC router with a ES951 9.5kw continuously rated HSD router head, an 8 position linear auto tool changer - Yaskawa synchronous drive servos, THK linear guides, pop up stops and centralised lubrication. This machine is ideal for furniture, caravans, van conversions, cutting applications, supplied complete with the latest version of the easy to use Vectric VCarve Pro software





#### Strength

an 8mm thick monoblock base and splayed legs for optimum stability, makes the TigerTec a class leader and will provide many years accurate routing production



#### Auto tool change

the 8 position tool changer increases the flexibility allows you to produce more complex routing and drilling with ease. It uses industry standard low cost ISO30 tool holders with ER32 collets from 3-20mm

The TigerTec TR510ADTC is a 10x5 flat table CNC router with auto tool changer. It is designed for modern workshops who want a larger format, yet compact CNC routing and cutting centre with flexibility in mind. They are ideal for all manner of industries needing CNC speed and accuracy. This quality coupled with the bundled Vectric Software makes for a great package for routing, cutting and nesting.

The heart of the machine is a 9.0 kw Italian HSD ES951 [Biesse] router head with an easy to use DSP Hand-held Control. The controller is user-friendly for easy installation and training. Commands are very easy to read, understand, and execute.

#### Class leading features:

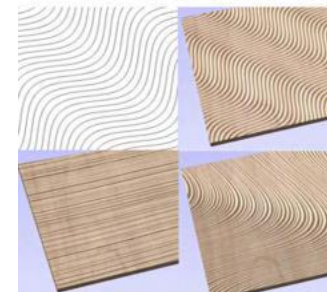
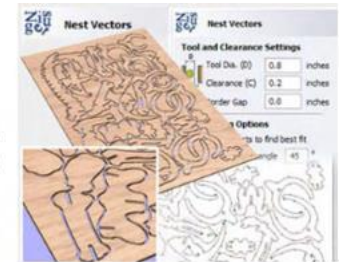
- HSD ES951 Router head
- Siemens contactors
- Synchro Dual Rack & Pinion drive with Yaskawa servos & Shimpo gear boxes
- Delta inverter
- Centralised lubrication
- THK25 Japanese linear guides
- Multifunction table for nesting or clamps
- Fully enclosed cable track
- Latest full version of Vectric VCarve Pro software
- Collet selection included
- Pop up stops

#### Technical Specification:

- Axis Travel: 1550 x 3050 mm
- Z Axis: 200mm
- Max cutting speed: 20m/min
- Max moving speed: 45m/min
- 9.0 kw HSD ES951 automatic tool changer with 8-position (requires compressed air supply)
- Included 8 pcs ISO 30 Tools Holder



# nesting optimises materials



# create vector based textures with ease



A Compact 2100x3300 jumbo sheet CNC router with a ES951 9.5kw continuously rated HSD router head, an 8 position linear auto tool changer - Yaskawa synchronous drive servos, Japanese precision THK linear guides, pop up stops and centralised lubrication. This machine is ideal for nesting if you want to use jumbo boards ... furniture, caravans, van conversions, cutting applications, supplied complete with the latest version of the easy to use Vectric VCarve Pro software - unbeatable.