

CONTENTS

4.

02.

ABOUT US #1

A LITTLE BACKGROUND INFORMATION ON YOUR TRUSTED TOOLING AND MACHINERY SUPPLIER.

04.

WELCOME TO DENVER #2

ENTER THE WORLD OF DENVER AND MEET OUR GREATEST PARTNER IN THE WORLD OF GLASS AND STONE PROCESSING MACHINERY.

05.

KREA FIT GLASS #3

EVERYTHING ABOUT THE KREA FIT GLASS EXPLAINED.

14.

DDX SOFTWARE & TRAINING #4

OPERATOR FRIENDLY SOFTWARE & TAILORED TRAINING TO GET YOUR MACHINE WORKING STRAIGHT AWAY.

16.

MYDENVER SOFTWARE #5

THE TOTAL PRODUCTION CONTROL TOOL FOR YOUR COMPANY.

18.

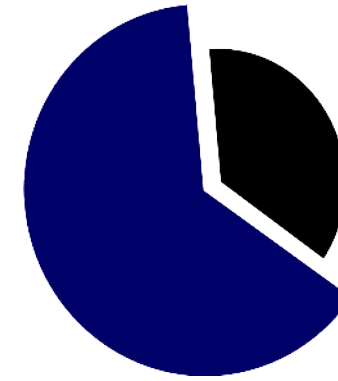
AFTERCARE #6

OUR ENGINEERING SERVICE & REPAIRS - HOW WE DO SUPPORT

20.

QUOTE & WARRANTY #5

VETRO TOOLING



Vetro Tooling has a successful background in the glass trade, not only providing tooling but having its own state-of-the-art workshop and engineering team at its premises, so we can produce bespoke solutions to the specifications of our customers.

Taking our strengths and hardworking ethos we have gained from many years in the glass industry we ventured into the Stone trade a few years ago and have gone from strength to strength. Even against the unstable economy the UK has faced in the last few years, this increase has only shown true that our customer-comes-first mentality works. We continually work closely with our suppliers providing quality tooling to exceed our customers' needs and wants, creating solutions to customers' problems and providing methods to save both time and money.

We know that investing in CNC machinery is a big investment in your company's future and that peace of mind with quality and assistance is of the utmost importance.

What sets us apart from other suppliers is that we have our own workshop, which enables us to manufacture our own wheels made from highest grade Italian diamond. With our vast knowledge in the trade, we aren't just a reseller, we know our stuff!

Over the years we have worked closely with our partners in Italy and produced quality, bespoke tooling which has solved many of the everyday problems our customers face.

We also offer a re-grind or re-spark service to prolong the life of your tools, saving your company money.

Our experienced sales team works closely with our customers and all of them are always on the end of the phone and available to pop into factories to provide solutions for an easier life in the hectic work environment many of us face every day.

**DAVID
LITHAUER**
MANAGING DIRECTOR

"OUR AIM IS TO ALWAYS OFFER OUR CUSTOMERS OUTSTANDING QUALITY AND SERVICE TO RIVAL ANYTHING CURRENTLY ON THE MARKET AND WE CONTINUE TO STRIVE FOR THIS."

**WELCOME TO THE WORLD OF
DENVER
BE CLEVER**



HISTORY

Established in 1984 in the Republic of San Marino, today Denver offers the largest range of stone and glass processing machines, including: bridge-saws with 3 / 4 and 5axis, CNC router machines with 3, 4 and 5 interpolated axis, 5 Axes CNC working centers, universal vertical CNC machines, waterjet and Automatic polishing slab machine. The best price-quality rate, a friendly interface, top quality components and absolute respect for human relationships, are the basis on which Denver builds their business and successful experience.

VISION

DENVER is a company that produces machines for the stone and glass industries.

DENVER is the centre of technological excellence that wants to drive the development of San Marino Tech Valley, inspired by a mentality that has always pursued an excellence deeply rooted in their corporate culture. DENVER is a lifestyle aimed at excellence and constant curiosity, which means growth, progress and solutions that make the history of their market.

We want to convey this sense of excellence to the customer who, by choosing us, becomes part of Denver World, and this for him means to make the difference on the market revolutionizing his way of conceiving the working system and the business. DENVER is the centre of excellence of San Marino Tech Valley not contaminated by the laws of the global mainstream.

DENVER

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ABOUT

Krea Fit is a compact Multifunctional CNC working center with 3 digital interpolated axes specifically designed for the small and medium size shop aiming to perform the largest variety of jobs in the easiest and most seamless manner. Krea fit is also a perfect match for large glass shops seeking a high-yield working station dedicated to mass production of medium-small products. It features a air-cooled electrospindle specifically designed for outstanding lifetime and efficiency and an automatic tool change magazine with 14 positions. All axes motion is powered by brush-less motors with accuracy ensured by prismatic steel guideways with 4 revolving balls pads protected by bellows.

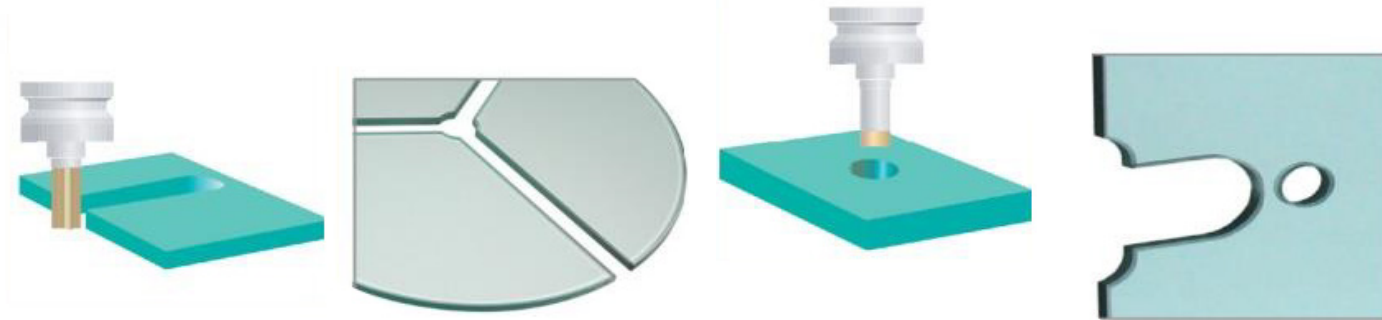


Take a look at our website for more information and videos

PROCESSINGS

IN IT'S AVAILABLE CONFIGURATIONS DEPENDING ON THE SELECTED OPTIONS KREA FIT CAN PERFORM

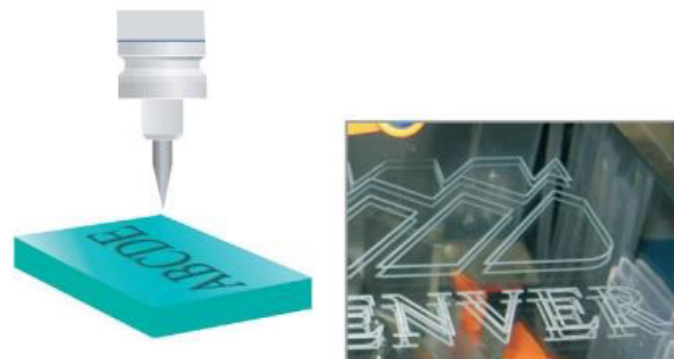
ROUTING



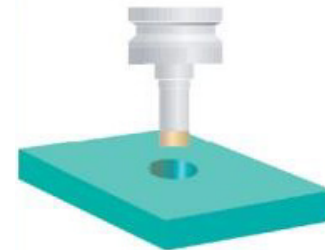
GRINDING



LETTERING



DRILLING



POLISHING



BAS-RELIEF



BASIC CONFIGURATION

KREA FIT GLASS

SELF-LEVELLING ALUMINIUM WORKTABLE

The worktable is made of monolithic rectified solid aluminium mounted on the machine steel frame. Aluminium and steel behave quite differently to temperature daily and seasonally swings resulting in undesired table bending. Thanks to a DENVER patent the KREA FIT worktable is free to widen and shorten with respect to the machine frame thus maintaining it's flatness without the need to mill the aluminium worktable to retrieve the original tolerance. Working table supplied without suction cup and reference stop (to order upon request).

ALUMINIUM
TABLE

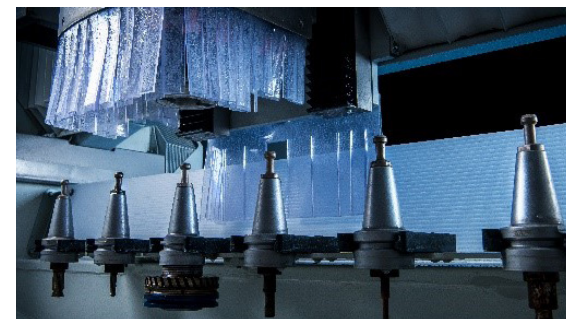


FRAME

Monolithic normalized and heavily ribbed steel and precision machined frame. Ceramic paint treatment (created for offshore): sand-blasted, rust-proof primed, added epoxy resin coating to two components, for on term protection against corrosion.

HI-TECH ELECTROSPINDLE

A Hp.10.6/kW 7.8 (S6) air cooled electrospindle featuring outstanding lifetime and efficiency, ISO 40 cones attachment with rotary joint to enable internal wheels water cooling.



AUTOMATIC TOOL CHANGE

The machine features a 14 positions tool magazine for ISO 40 cones. The magazine is located in the rear of the worktable to reduce average distance to be covered by the machine during tool changes.



VACUUM PUMP UNIT

Vacuum switch to signal an insufficient vacuum level. 3 ways valve for vacuum open/close and blow to ease the workpiece positioning.

HARDWARE

The machine features OSAI Open Series NC unit with Ethercat system and axes digital management technology. PC interface with 64 bit, Windows 10 operative system with USB port, network board, mouse, keyboard and TFT 22" flat monitor.



The machine can be connected to intranet allowing office-based remoted programming.

Remotable performing platform with teleservice connection.



3 AXIS CNC



- **X Axis:** The width-wise stroke is on linear guideways with revolving ball pads protected by bellows. The motion is powered by a brushless motor with adjustable speed (0-20mt/min) and overload switch limit. Revolving ballscrew transmission.

X stroke: 2200mm



- **Y Axis:** The depth wise stroke is operated by a single central brushless motor with adjustable speed (0-20 mt/min) and overload switch limit. Motion is obtained on linear guideways with revolving balls pads protected by bellows. Maximum sturdiness and accuracy are ensured by inclined teeth rack and pinion transmission with patented lose correction system.

Y stroke: 1200mm



- **Z Axis:** The verticle motion of the operating head is effected on linear guideways with revolving balls pads protected by bellows with adjustable speed 0-12 m/min.

Z stroke: 300mm

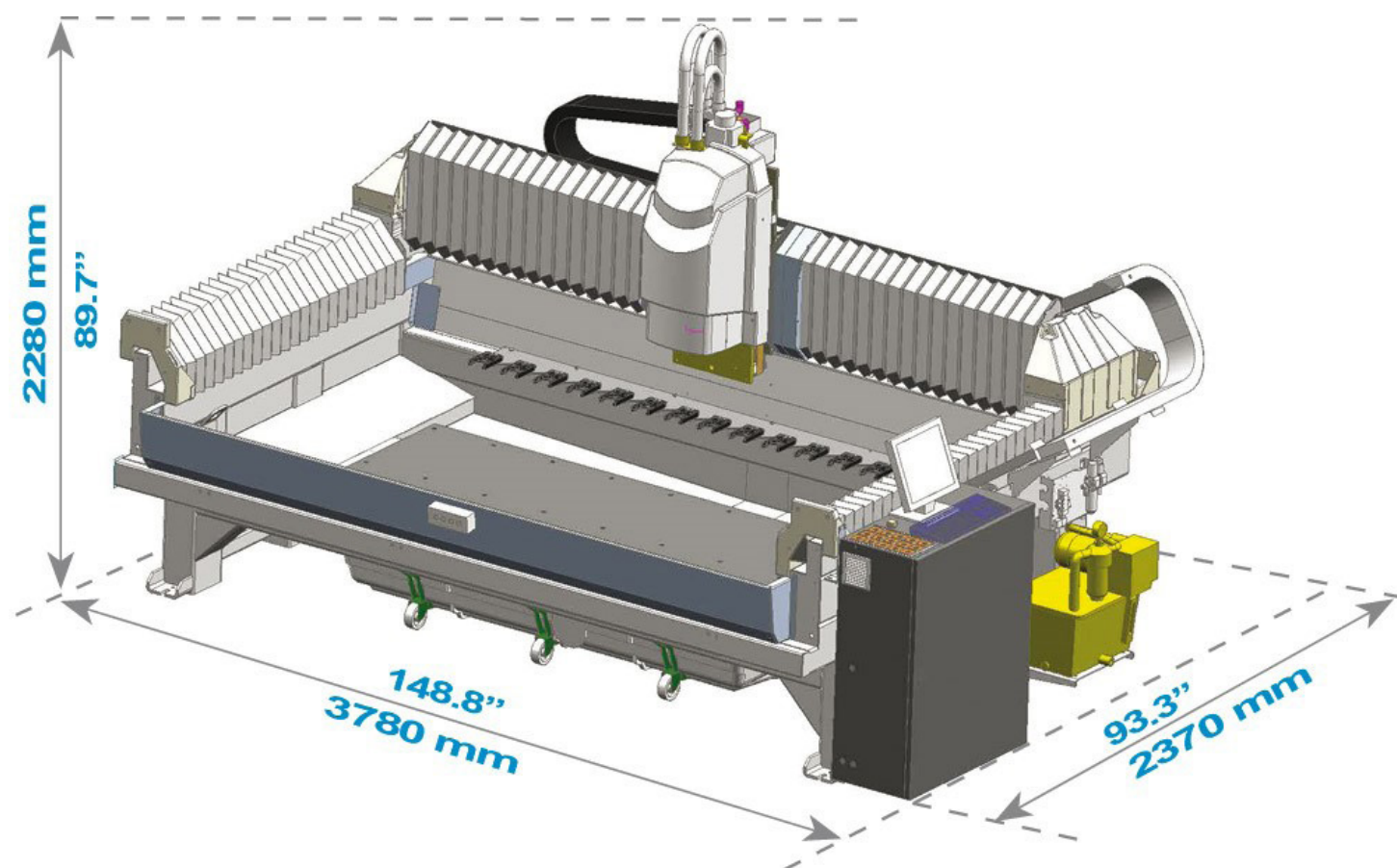
BASIC MACHINE DATA

	Machine dimensions (LxDxH)	3810x2370x2280mm 150 x 93.5 x 90"
	Worktable	2020 x 1020mm 79.5 x 40.1"
	Max working size (with wheel Ø 100mm)	2100 x 1100mm 82.6 x 43.3"
	Height of the worktable	553mm 21.77"
	X-axis stroke on linear guides	2200mm 86.6"
	X-axis speed (brushless motor)	m/min 0 ÷ 20 inches/min 0 - 787.4"
	Y-axis stroke on linear guides	1200mm 47.2"
	Y-axis speed (brushless motor)	m/min 0÷20 inches/min 0 - 708.6"
	Z-axis stroke on linear guides	Max 300mm 11.8"
	Z-axis speed (brushless motor, auto lubrication)	m/min 0÷12 inches/min 0÷590.5
	Spindle Motor power	kW 10.6/Hp 7.8 (S6)
	Adjustable spindle speed	RPM 0÷10.000
	Processed thickness	3-25mm (0.07 - 19.6")
	Internal water consumption	4 l/min fl.oz./min 140.8
	External water consumption	100 l/min fl.oz./min 2111.7
	Air pressure needed	bar 8
	Tool holding cones	ISO-40 MAS-BT
	Positions in auto tool changer	Pos 14
	Machine total weight	Kg 3000 6613.8lbs
	Truck shipping dimensions	3780x2368x2280mm 150.6 x 97.3 x 87.4"
	Sea-shipping dimensions	150.6 x 90.5 x 87.4" (1x20' container)

*Options may affect basic machine's configuration and characteristics

FLOOR PLAN KREA FIT

**Optional extras may change floorplan.*



DDX SOFTWARE

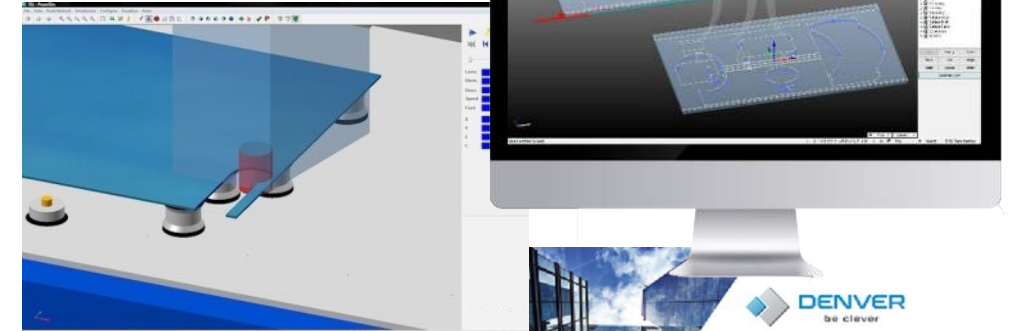


**“CONFIDENCE IN
SOFTWARE IS KEY”**

MADE FOR GLASS PROCESSING

Software Pro Tech powered by DDX.

- 2D CAD-CAM single interface environment.
- Import of single and multi-layer DXF file, PDF and images.
- Milling, drilling, writing & profiling.
- Tool path simulation.



OPERATOR TRAINING

Confidence in software is key to getting the most from your CNC. Training for operators will take place at our in-house training rooms at Vetro a week prior to delivery. Our aim is to make your machine work for you as quickly as possible after installation. Our engineers will make sure you are as prepared as possible



IN HOUSE TRAINING

MYDENVER SOFTWARE

***OPTIONAL**

IMPORTANT NOTICE

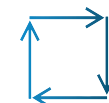
*Offered by Denver as an optional extra at an extra charge Vetro believe's that this is a must have piece of software for all of our customers. In turn we have taken the decision to offer it for free alongside any new machine purchased!

"A PRODUCTION CONTROL TOOL FOR YOUR COMPANY"



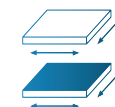
MACHINE WORKING HOURS

Graphical information about machine usage history.



AUTOMATIC CYCLE TIME

Machine hours ratio on automatic cycle vs. total machine hours. Indicates the efficiency and effectiveness of the machine.



MATERIALS /M²

Total production and different processes performed listed by type of raw material.



PRODUCT/PIECES PROCESSED

Total number of pieces made and listed by type of work.



PRODUCT/WORK TIME

Machine operating times for the various types of work carried out.



TOOLS

Number of holes drilled or linear length processed according to the tools set up on the machine.



PROCESSING

Graph of total work performed and split between work times. Duration of machining and working time divided by the different components machined.



MAINTENANCE

Immediate overview of routine maintenance to be performed on the machine for swiftly controlled periodic maintenance interventions.



SEARCH AND FILTERS

Selection of specific time periods, orders and monitoring of individual production runs' process data and worked pieces.



MyDenver is a fantastic piece of software that allows you to graphically view the performance of your machine in terms of time of use, amount of material used and the processes performed.

Available on the machine PC and can be accessed remotely by mobile or tablet.



SERVICE & REPAIRS

ENGINEERING SERVICE & REPAIRS

HOW WE DO SUPPORT

Vetro Tooling offers a warranty and support package for all machines sold that far exceeds anyone else's that is currently available. We have a name to uphold of quality and customer satisfaction and we don't plan on losing that. We know what machine down-time can cost a running factory and brake down's are a top priority for us to get you back up and running.

As well as warranty packages on new machine sales our engineers are always on call to carry out services or repairs to CNC machines, Stone or Glass. With years of experience in machines, software and tooling we have every aspect covered.

After speaking to our customers we realised that the time for the engineer at there factory is more than valuable but paying hidden costs is not making anyone happy. We set out to give the customer a black and white charge so there are no nasty

surprises when the invoice lands on your desk.

As we carry an extensive stock of tooling and spare parts this also helps on lead times to have your CNC machines back up and running.

If you are looking at any service or repair work being carried out, just give us a call and we will be more than happy to run through the problems you are facing and get you back up to speed in no time!

