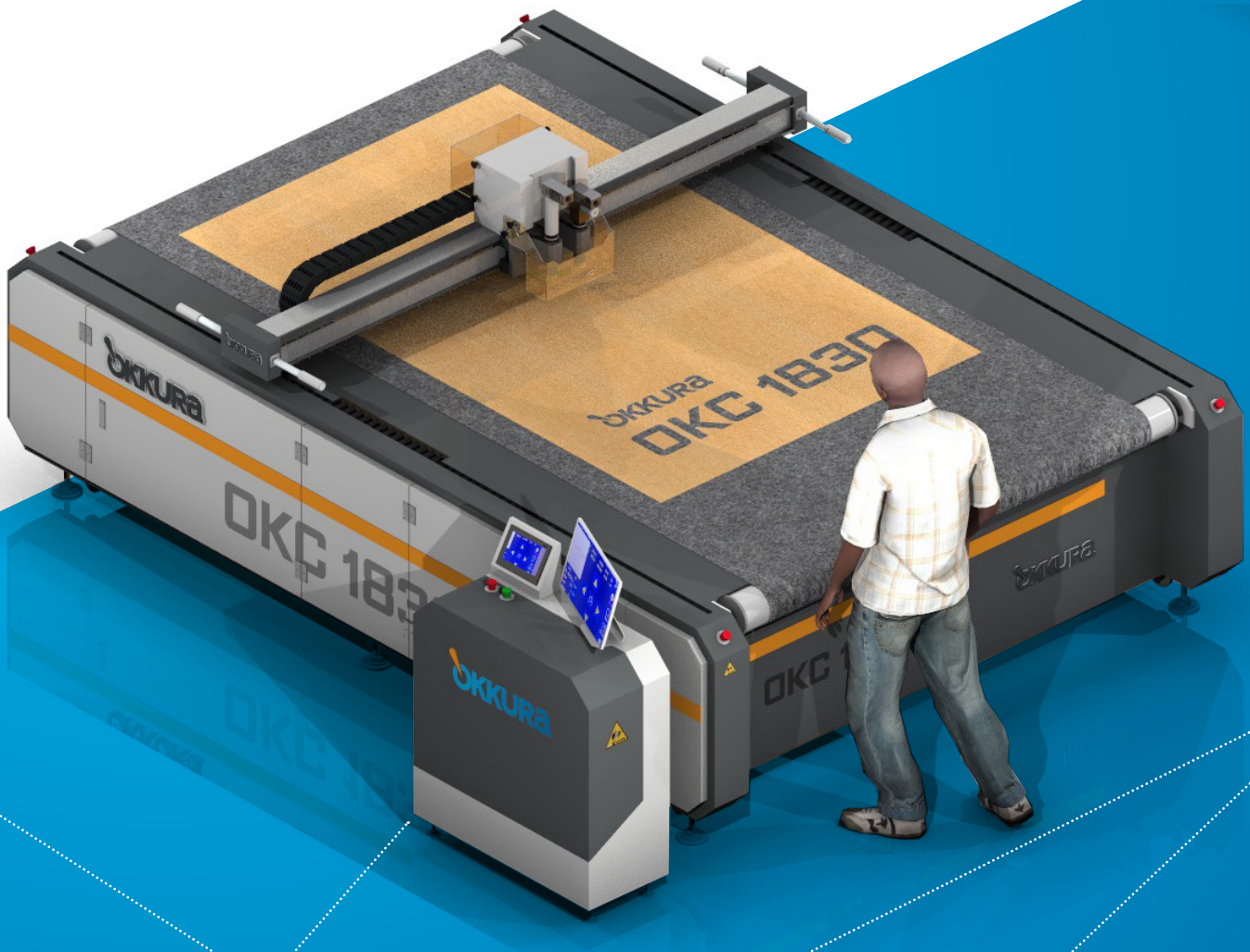
OKKURA

Intelligent Digital Cutting



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OKKURA Intelligent Digital Cutting

precision cutting combined with ultra-fast speeds!

Boost your production efficiency with our all-encompassing cutting solution that optimizes your work-flow and maximizes your output.

Engineered to work with a wide variety of technical fabrics ranging from carbon and glass fibre to foam, leather, rubber, textiles, and cardboard, etc. Our cutters are available in four versatile widths, 1600, 1,800, 2,500 & 3,200mm as well as our bespoke option. They are all configurable with many tool options, tool heads, conveyor and beam options. This adaptability empowers you to select the ideal size that fits your materials and workspace.

Streamline your cutting processes with Okkura, let's transform your production today!

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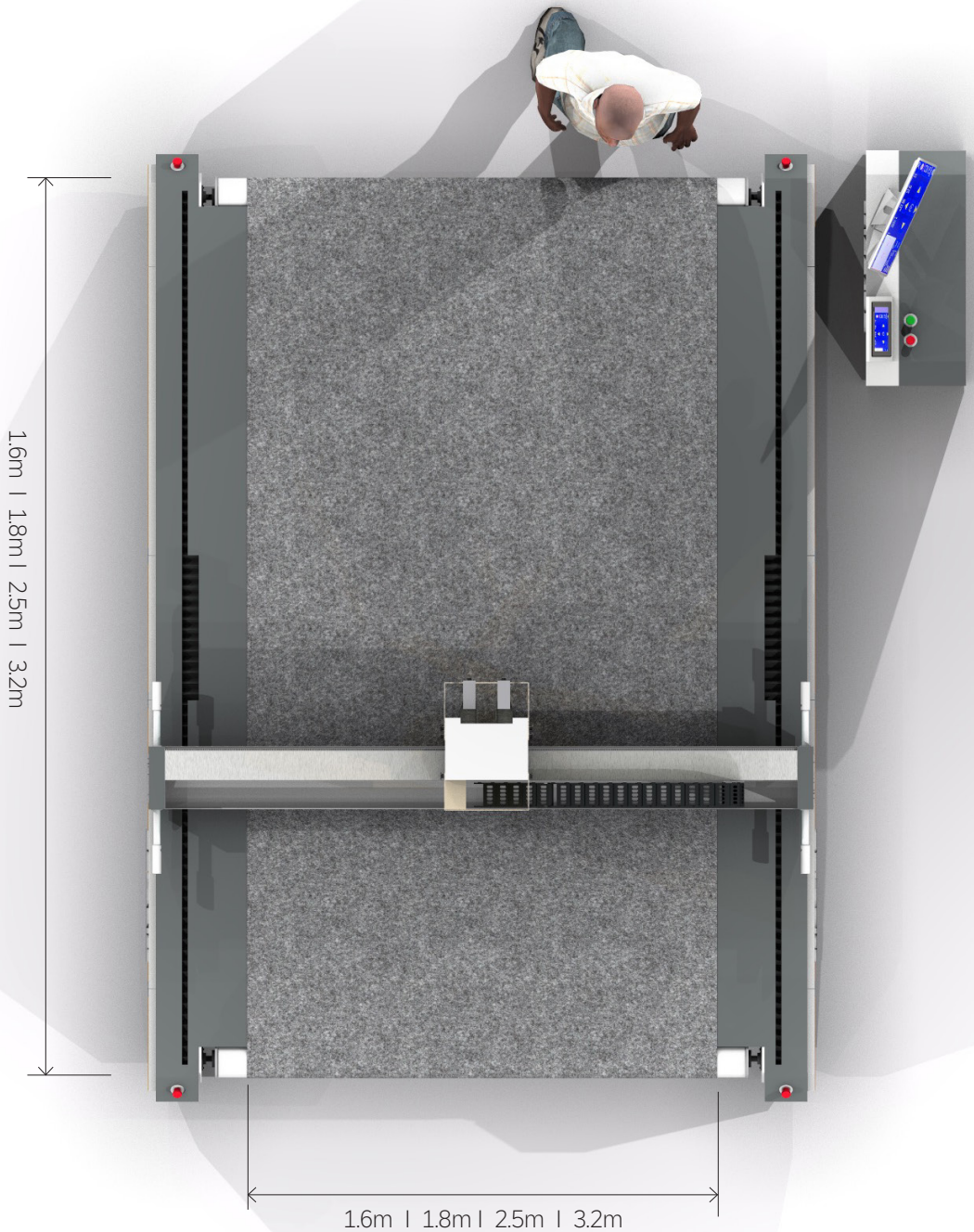
general machine specifications

- Power 11kw overall
- Dual & Single tool head option, combined with the following tool options
    - Electric oscillating knife
    - Pneumatic oscillating knife
    - Power rotary knife - round/polygons
    - Creasing tool - 3 wheel sizes 55mmd, 35mmd, 30mmd
    - Marker pen holder
    - Punching hole tool
    - Kiss cut tool
    - Variable angle speed V-cutter - angles 45, 30, 22.5, 15, 0
    - Tangential knife
- Safety devices infrared induction beams to X + Y,
- Cutting speed Max. 1200mm/s
- Movement speed Maximum 1500mm/s
- Cutting thickness Maximum 20mm (set according to different materials and tools)
- Vacuum table 9kw vacuum absorption with felt / PU - variable
- Repeated positioning accuracy ±0.05mm
- Mechanical Precision Maximum 0.05mm
- Drive system Mitsubishi / Taiwan Delta / servo motor,
- Taiwan PMI linear guide rails
- Control system OKKURA touchscreen controller
- Transmission XY by rack and pinion, Z axis and rotary seat by ball screw
- Data transmission method USB port or Ethernet
- Support file DXF, PLT, AI, SVG, PDF, NC, DST, DSB, etc.
- Operation environment Temperature 0-40 , Humidity 20%-80%RH
- Voltage 380V/220V/50Hz/60HZ
- Optional Auto Contour Cut - ACC
- Optional Cut path Projection - CPP

STANDARD SIZE OPTIONS

- **1.6m cut width:** standard bed length options: 1.2m | 2m | 3m | 4m
- **1.8m cut width:** standard bed length options: 1.6m | 2.5m | 3m
- **2.5m cut width:** standard bed length options: 3m
- **3.2m cut width:** standard bed length options: 3.4m

We also offer bespoke length / custom design


1.6m I 1.8m I 2.5m I 3.2m
1.6m I 1.8m I 2.5m I 3.2m

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tool options

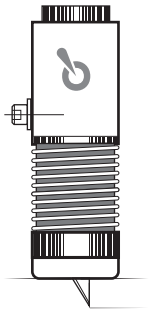
OKKURA machines can be specified with either dual or single tool head mounts combined with a comprehensive range of powerful cutting tools and blades providing solutions for most material cutting applications.
We will asses your material/s and products that you want to cut and recommend tools and blades for your cutting application.

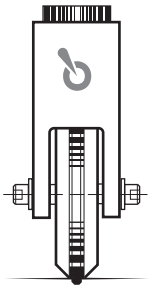
ELECTRIC OSCILLATING

Designed to cut softer medium density materials. The high oscillating frequency of our tool electric oscillating knife makes it possible to cut at high processing speed for greater throughput. This tool is available with a .5mm or 1mm stroke. We offer a wide range of flat and pointed blade types.

TOOL ADVANTAGES

1. Depending on application, available with 0.5 mm or 1.0 mm stroke.
2. Perfect for cutting detailed contours.
3. Very high stroke frequency.
4. High cutting speeds.





CREASING

Creasing Tool is designed for processing double- and tripple-wall corrugated cardboard. The tool accommodates crease wheels with a diameter of 90 mm/3.5" and a width of 28 mm/1.1", which guarantees high-quality creases with and against the corrugation. The wheels snap into the holder, making them quick and easy to insert and replace.

TOOL ADVANTAGES

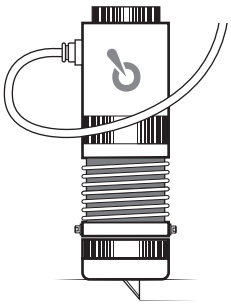
1. Clean creases without tearing.
2. Directional pressure adjustments (with/against corrugation).
3. Crease wheel diameter: 90 mm/3.5".
4. Crease wheel width: 28 mm/1.1".5.
5. Crease wheels snap into holder

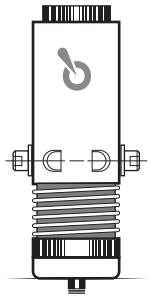
PNEUMATIC OSCILLATING

Pneumatic Oscillating Tool is an air-driven tool particularly well suited for cutting tough, dense materials but can also handle soft, thicker ones. Two versions of Pneumatic Oscillating Tool are available for accommodating blades with a thickness of 0.6 mm or 1.5 mm. With sufficient beam clearance, materials up to 110 mm/4.3" thick can be cut.

TOOL ADVANTAGES

1. Powerful oscillation with 8 mm stroke.
2. Robust, maintenance-free pneumatic drive.
3. Two blade thickness options 0.6 or 1.5 mm thick.





PUNCH

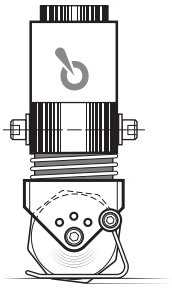
The OKC punching tool has been engineered to increase the punching force at high speed giving additional throughput. It can easily punch a verity of different material types from leather, to rubbers, neoprenes and other materials. It can be equipped with punching tools of different diameters such as 1mm, 1.5mm, 2mm, 3mm, 4mm, 5mm & 6mm and has a punch stroke between 30 to 45mm.

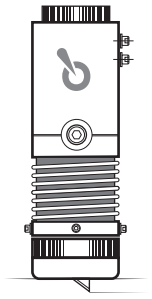
POWER ROTARY KNIFE

Pneumatic oscillating tool is an air driven tool suited to cutting both dense and thicker soft materials such as foams. This air driven tool packs a punch, the 8mm stroke gives this tool the ability to cut through tough materials with ease.

TOOL ADVANTAGES

1. Use of rotary blades reduces drag on material.
2. Choice of 3 RPM settings (16,000/12,000/8,000).
3. Low-impact processing of materials with low melting points.
4. High throughput; clean, accurate results.





KISS CUT DRAG KNIFE

The ideal tool for cutting vinyls where depth control is essential. The variable pressure of the KC tool allows for precision cutting of foils without damaging the liner materials. This tool will comfortably cut films and vinyls up to 3mm thickness. This tool can be used various other types of materials such as thin papers and card stock.

TOOL ADVANTAGES

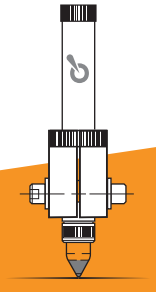
1. Two processing methods: kiss-cut + through-cut.
2. Max. material thickness: 3 mm/1/8".
3. Precise depth control.
4. Perfect separation of film and liner material.
5. Special glide shoe for processing Diamond Grade vinyl

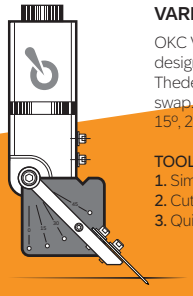
DRAWING TOOL

Pneumatically operated drawing tool is a very cost effective way of marking materials from text to centre lines. It comes with different marker types from permanent marker type to ball point. Drawing tool can be swapped quickly and easily without the need to access the cutting tools.

TOOL ADVANTAGES

Cost effective plotting





VARIANGLE V-CUT

OKC Variangle tool is perfect for producing complex structural designs from foam core or sandwich board materials. Thedesign of this tool makes for quick blade and tool tool swap. The Varicut tool can be set to different angles from 15º, 22.5º, 30º & 45º.

TOOL ADVANTAGES

1. Simple, precise angle settings.
2. Cuts at 5 different angles (0°, 15°, 22.5°, 30°, 45°).
3. Quick blade changes.

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blades

We offer an extensive range of blades tailored to the cutting of a diverse array of materials, cutting depths, tool types, and cutting speeds. Our inventory includes specialized blades designed for applications ranging from soft plastics to dense composites, ensuring optimal performance for any task. As part of our comprehensive delivery process, our experts conduct a careful assessment to identify the most suitable blades for your specific material cutting requirements, taking into account factors such as thickness, texture, and desired finish.

Recently, we have made significant advancements in the development of blades for cutting woven structure materials. Our high-speed rotating blades use technical coatings and are engineered for precision and efficiency, with the application of specialized coatings, these blades not only achieve a cleaner cut but also demonstrate enhanced durability, reducing wear and extending the lifespan of the blade. This innovation ensures that you can achieve superior results with less downtime and greater cost efficiency in your cutting operations.

AA, AD, BD, RA Special coating blades available July 2025

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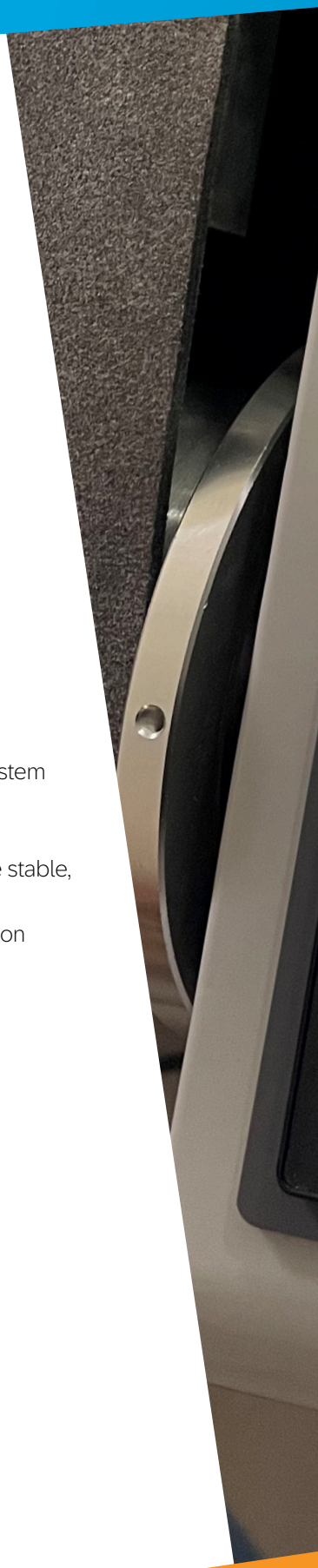
controller

The Trocen cutting machine controller is a sophisticated device designed to facilitate precise control over various cutting operations in manufacturing and fabrication processes. It offers intuitive user interfaces, allowing operators to easily program and monitor cutting tasks. With advanced features such as real-time feedback, motion control optimization, and compatibility with multiple cutting tools, the Trocen controller ensures high precision and efficiency, making it an essential component for achieving quality results in both professional and industrial settings.



- 5-inch TFT LCD touch screen, intuitive and simple operation.
- Using a new 32-bit high-speed DSP to makes our system more stable.
- Product is easy to operate, saving time after training.
- Support U disk offline file preview function, real-time display of head movement track.
- Device parameters can be set completely away from the PC.
- All optocouplers isolate external electromagnetic interference, and the system works stably and reliably.
- Supports multiple languages.
- Support USB2.0 high-speed interface, U disk read and write files are more stable, can identify various brands of U disk.
- Support network communication and USB communication, the transmission speed is faster and more stable.
- Support Z-axis auto focus, Y-axis dual drive function,Double head shift;
- Support full blowing, work blowing, layer blowing.
- Intelligent diagnosis system self-fault.
- One key to switch the way of manually moving the axis.
- A variety of humanized positioning modes and return modes, which are convenient for customers with different habits to operate the machine.
- One-key continuous cutting, convenient to continue cutting after the processing file is interrupted in any way.
- When adjusting the cutting effect, there are few setting parameters, and the user is easy to hold.
- Support Y-axis drum cutting.
- Support automatic feeding function.
- Support over size cutting, mirror cutting function.
- Support dispensing and line drawing functions.


START
STOP
Motion Controller TC-6832
X 1279.7
Y 2053.9
Z 0.0
U 600.0
UD1 0.0
UD2 0.0
R1 0.0
R2 0.0
2022.4.7 23:05
0:0:0
Idle
File NEOPRENE-E
Speed 100.0
Count 0
UpOrigin1 34.1
DownOrigin1 44.9
Layer
Zero
Set
Stop
Box
Origin
Start
TROCEN

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SAi software

Okkura has partnered with SAi Flexi.

Easiest to learn and use

Whether a beginner or experienced graphics professional, Flexi's simple interface and intuitive tools make it easy to quickly produce stunning high quality signs and print products.

Robust toolset

Unlike other software, Flexi was designed from the ground-up for the sign and print industry, so it includes unique tools that make every aspect of job preparation and production faster.

Technical Support

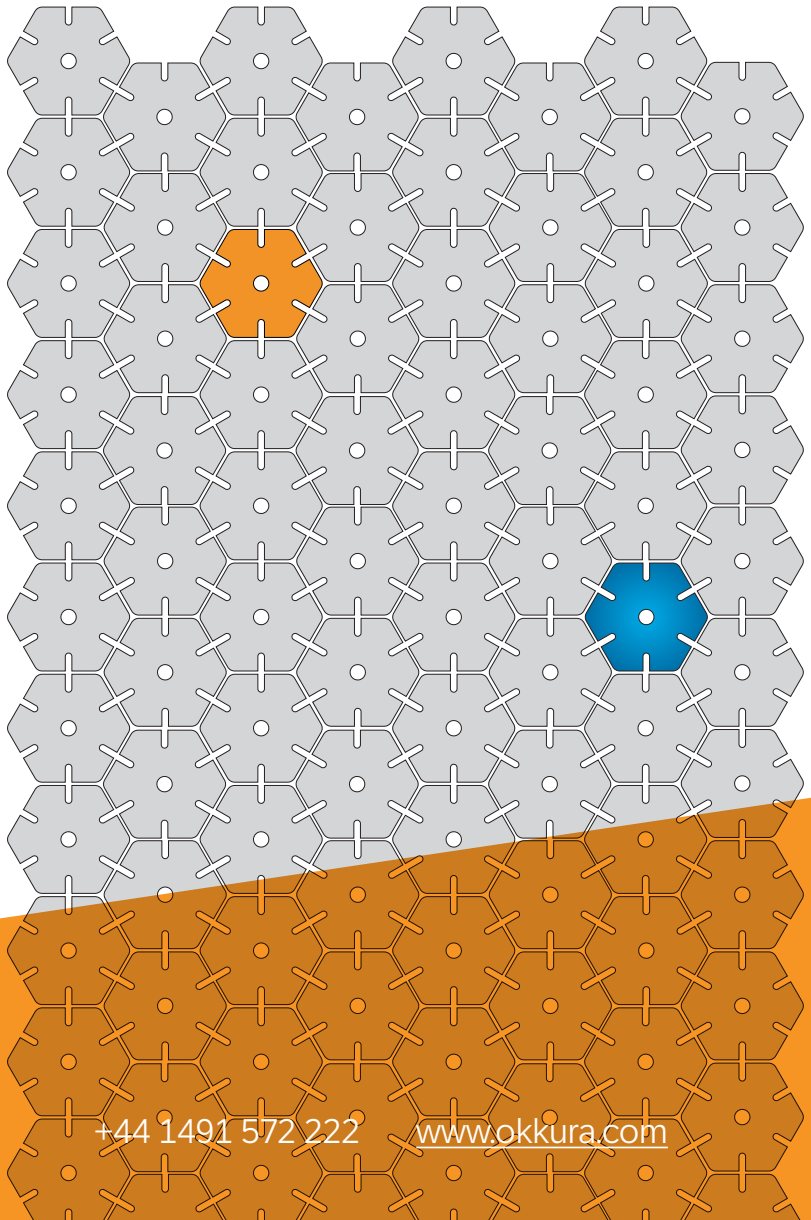
Enjoy FREE technical support by phone, email or chat for subscribers. No need for an expensive service plan.

NESTFAB

nesting software

NestFab saves you time and money, while using your material more effectively – you have full control over nesting settings such as part quantities, sheet sizes and part rotation to meet the demands of any cutting technologies and materials. Finding excellent nests quickly and continuously looking for improvements for outstanding material usage, watch as NestFab makes saving after saving off your bottom-line!

There is no better nesting software than NestFab available anywhere else in the world today! Check out our Ultra-Performance add-on for the smartest nesting that wins even more material savings. Favouring repeated nests where possible can dramatically reduce programming time, while utilizing common cuts can reduce the cutting time.



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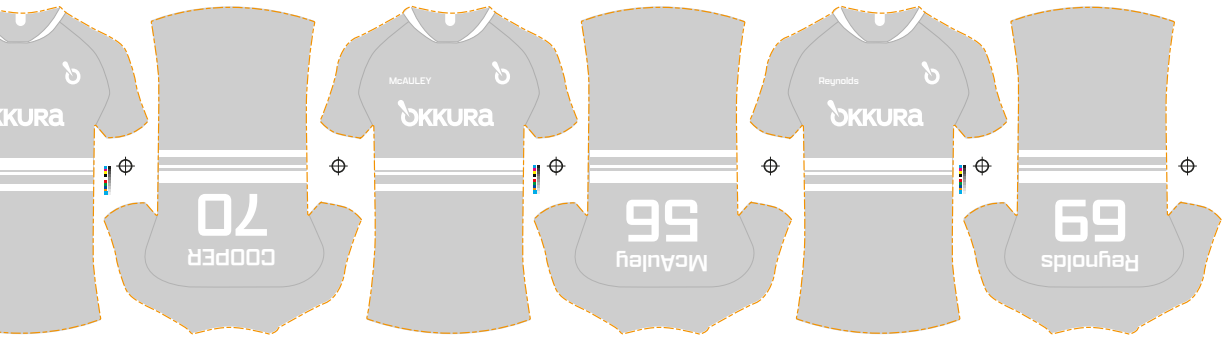
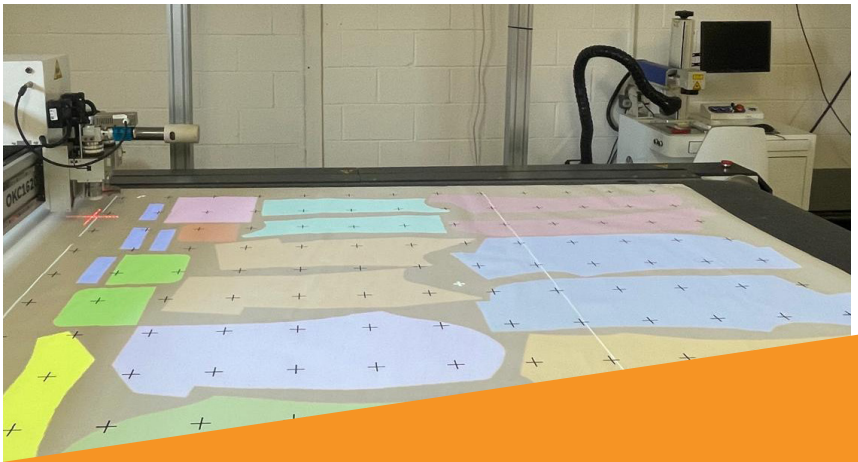
ACC auto contour cut

The ACC (Auto Cut Calibration) feature allows the machine to effectively scan the material on the bed using a high-resolution, top-mounted SDD (Solid State Detector) camera. This advanced technology enables our software to accurately calculate the optimal cutting paths in real-time, ensuring precision and consistency in every cut. This capability is particularly beneficial for cutting printed materials, such as T-shirts, as it can detect registration marks and variations in design, allowing for flawless alignment with the graphics. The ability to adapt cutting paths dynamically enhances the productivity and quality of the finished product, making it an invaluable option for businesses specializing in custom apparel and other printed materials.



CPP cut path projection

CPP (Cutting Path Projection) enables the machine to accurately project the intended cut path onto the cutting bed. This feature provides the operator with a visual representation of where the cutting will occur, allowing for precise final adjustments to be made before initiating the cutting process. By ensuring that the projected path aligns perfectly with the material, operators can enhance the accuracy and efficiency of the cutting operation, minimizing waste and optimizing end results.



1625 machine shown with additional gantry.

LED lighting and SDD camera and projection system

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unified production

To streamline the digital cutting production process we have developed a unified production material handling system. This includes:

- **Rollmate** vertical material storage,
- **Feeder** automated material feeding,
- **Workstation** allowing cut material to be easily weeded and waste collected from the end of the bed
- **ACC** Auto Contour Cut
- **CPP** Cut path projection
- **Vacpick** our vacuum picker allowing operators to pick cut material from the OKC bed without having to stretch over the machine, thus reducing fatigue and the risk of injury.

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