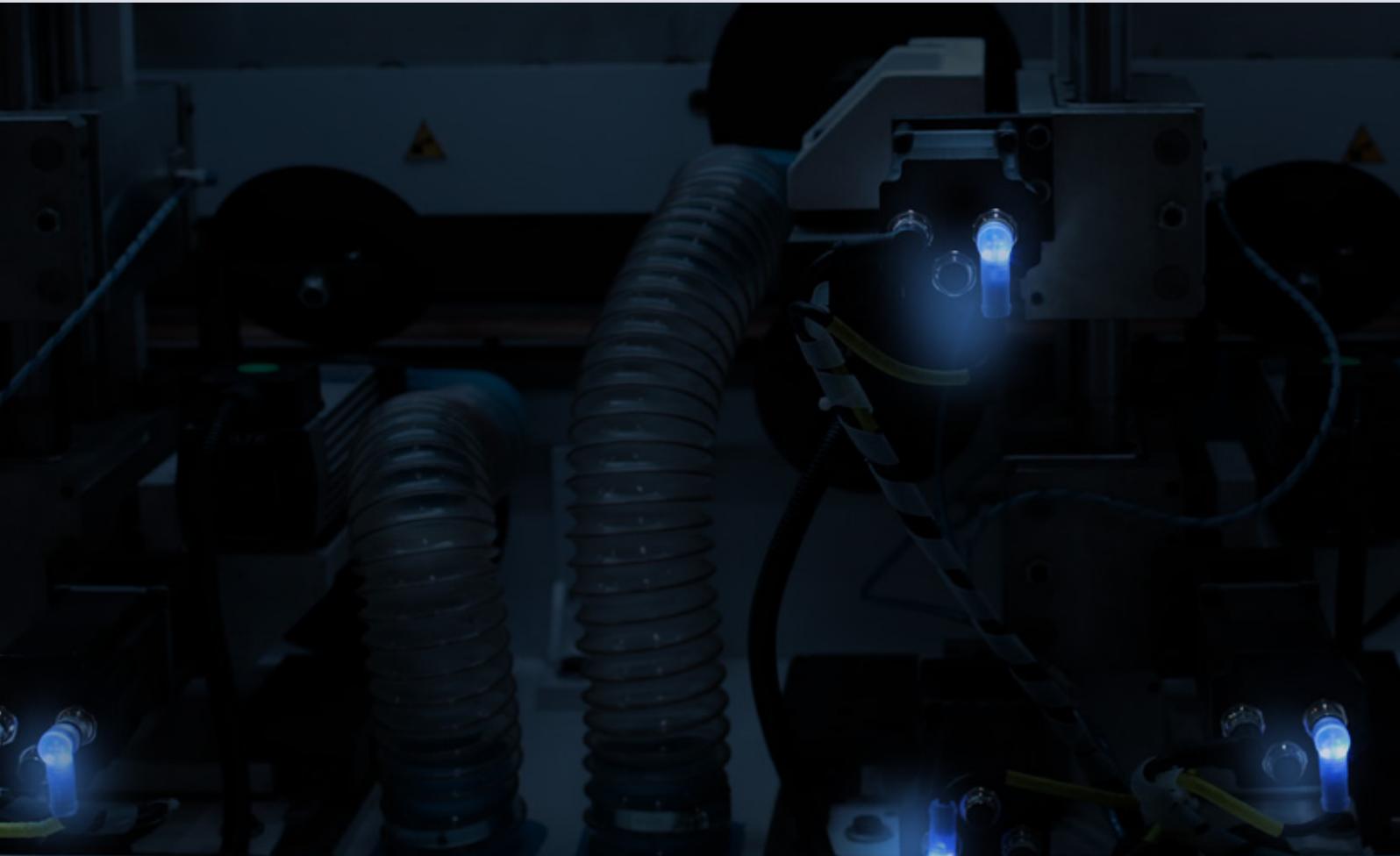


NAVIGA
X360

Naviga X360

Industrial Edge Banding Machine

Промышленный кромкооблицовочный станок



TÖRK  **MAKİNE**

NAVIGAX360 



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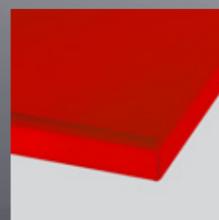
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Solutions for Edge Banding Applications...

Решения для применения кромкооблицовки...



PVC Edge Band
ПВХ кромка



High Gloss
Глянцевая



Melamine
Меламиновая



Veneer
Шпон

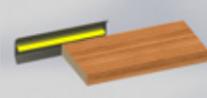
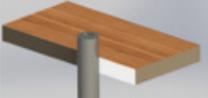
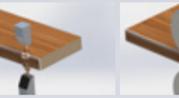
Everything you need for your work!

Всё, необходимое вам для работы!

Naviga X 360S Edgebanding Machine raises your experience like never before. Reducing the unit cost of production by increasing the productivity of the units, Naviga X 360S gives the right answers to the needs of manufacturers.

Кромкооблицовочный станок Навига X 360S возвышает ваш опыт как никогда раньше. Навига X 360S, снижая себестоимость единицы продукции благодаря увеличению производительности агрегатов, отвечает запросам производителей.



Anti Adhesive Agent Unit	Pre Milling Unit	Infrared Pre Heater	Adhesive Pre Melting Unit	Linearly Moving Saw Unit	Rough Trimming Unit With Servo Control	Fine Trimming Unit With Servo Control	Robotic Rounder Unit	Radius Scrapping Unit With Servo Control	Glue Joint Scrapper	Cleaning Agent Unit	Buffing Unit	Jumping Grooving Saw Unit
												
Антиклеевой агрегат	Узел предварительного фрезерования	Инфракрасный предварительный нагреватель	Узел предварительного плавления клея	Линейно движущийся пильный агрегат	Серворегулируемый агрегат грубого фрезерования	Серворегулируемый агрегат чистового фрезерования	Роботизированный раундер-агрегат	Серворегулируемый узел радиусной зачистки	Агрегат очистки от клея	Агрегат очистительной жидкости	Полировальный агрегат	Пильный агрегат проточки канавок со скачкообразным движением

The Naviga X 360S will definitely have a suitable solution for your final product.

В Naviga X 360S обязательно найдётся подходящее решение для вашего конечного продукта.

Incorporate the all functions necessary for high-speed, stable and high-quality production, the Naviga X 360S is your biggest helper in reducing production costs.

Обладая всеми функциями, необходимыми для высокоскоростного, устойчивого и качественного производства, Naviga X 360S - ваш самый большой помощник в снижении производственных затрат.

High Performance Components

Высокопроизводительные узлы



Anti Adhesive Agent Unit

Антиклеевой агрегат

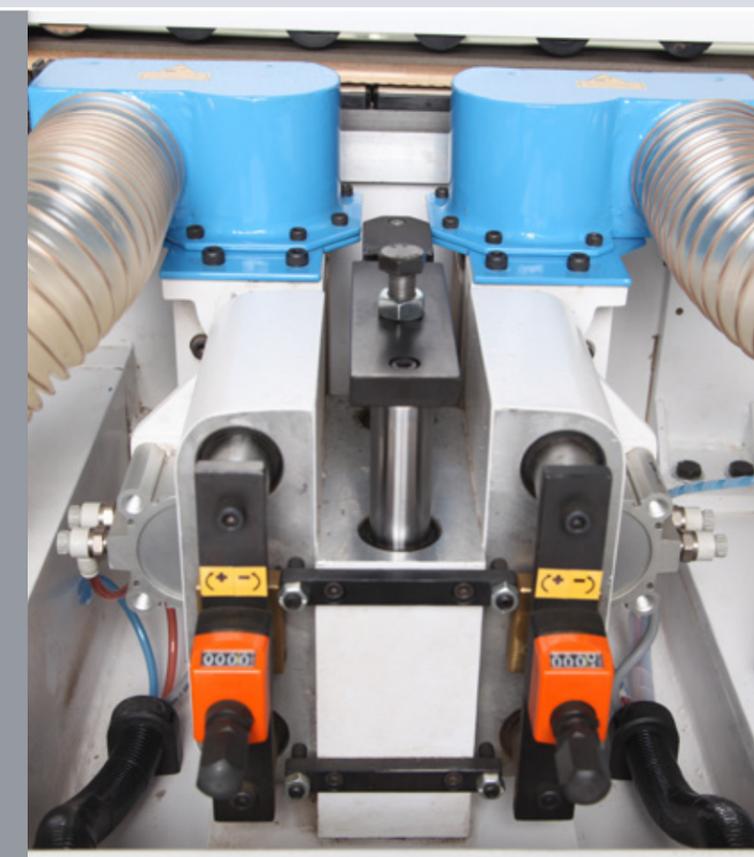
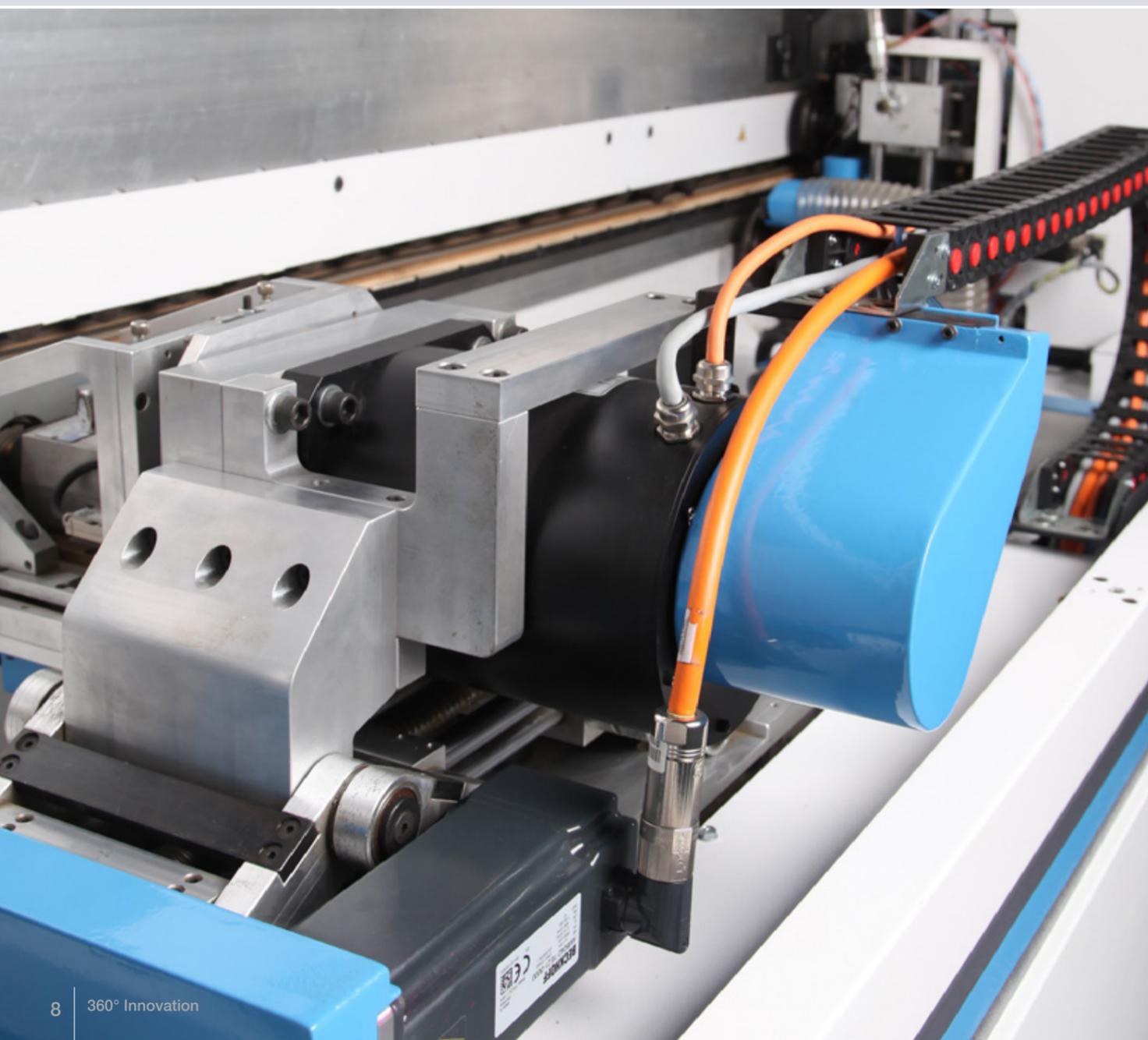
Anti Adhesive Agent Unit at the entrance to the front milling unit of the machine, if the glue leaves the top surface during the gluing of the edge band, the spray solution forms a film layer and prevents adhesion of the adhesive to the surface of the part.



Pre Milling Unit

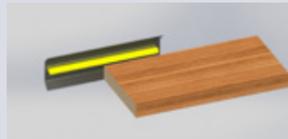
Агрегат передней фрезы

The cutting depth for the Pre Milling is ensured by the automatically adjustable movement of the entrance fence. The cutting depth is entered through the control panel. Thanks to the highly sensitive engine, the adjustment is carried out without error. The Pre Milling Unit which capable of cleaning up to 3 mm, is consists of 2 high-frequency motor with a power of 1.6 kW 9000 rpm.



The best way to clean the overflowed glue on the upper and lower surface of the workpiece is to prevent them from sticking together.

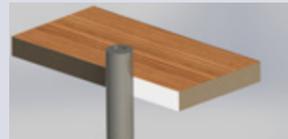
Eliminates cracks generated by panel sizing. Assures a better lamination line.



Infrared Pre Heater

Инфракрасный передний нагреватель

Used to reduce the number of gluing problems, such as “delamination”, arising from the contact of cold preforms with hot glue. While the workpiece passing through this unit, the infrared heater heats the surface on which the glue will be applied. Thus, a more reliable surface for banding is prepared.



Adhesive Pre Melting Unit

Агрегат предварительного плавления клея

Thanks to the Invertor controlled Glue Unit with Pre Melting, it allows the control of glue applied to the work piece edge. The dirt generated by overhang glue is minimized. Pre Melting gets the granule adhesive and sends required volume of melted glue to the application glue pot. This function minimizes the burned glue defects.



Linearly Moving Saw Unit

Линейно движущийся пильный агрегат

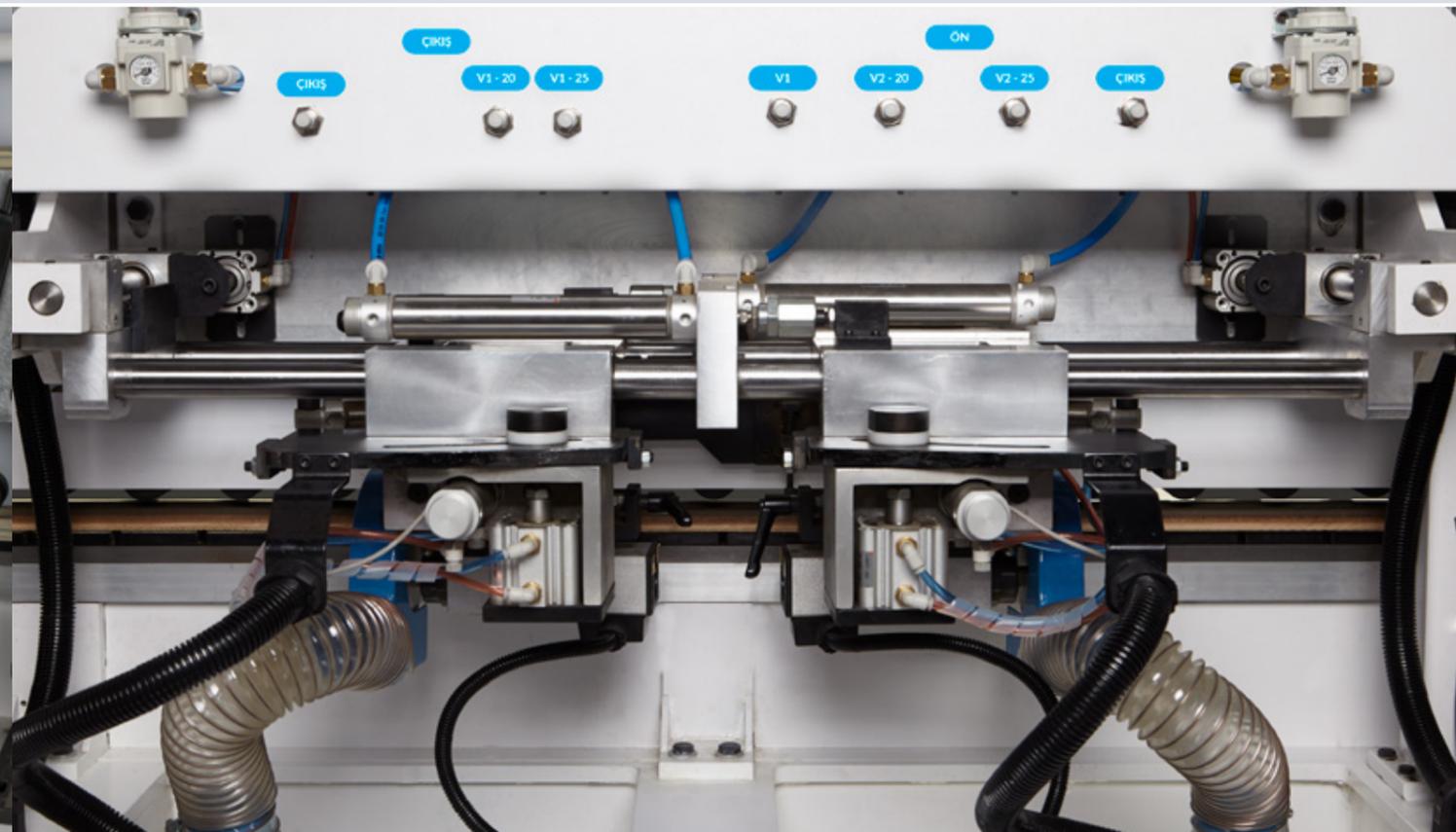
Linear moving Saw Unit catches the workpiece moving 20-25 m/min. and makes a straight edge cut. Thus, the work piece moves towards milling units without any edge defect. Unit performs angular cuts with a single touch of a button on the screen and provides high-precision cutting on all edges from 0.40 mm to 3 mm.



It eases up the retention of the glue on the surface.



Thanks to the two-step glue pot, the glue placed in the lower pot is applied to the placed workpiece.



Thanks to the linear tracking, the unit provides full contact with the part and improves the accuracy of net cutting the edge band.



Rough Milling Unit With Servo Control

Сервоуправляемый агрегат грубого фрезерования

The servo controlled rough milling unit clears the excess edge bands which remaining on top and bottom of the material to 0.5 mm, and reduces the load for the fine milling unit. Thanks to the gradual removal of shavings, you can minimize the number of marks from the blade on the part as well as the color change of the edge band.



Servo Controlled Fine Milling Unit

Сервоуправляемый агрегат чистового фрезерования

Thanks to Units Control with Servo Motors, the quality of the material obtained at the beginning of the day continues to remain the same throughout the day without disturbing the machine's settings.

Impressive Performance, High Quality

Впечатляющая производительность, высокое качество



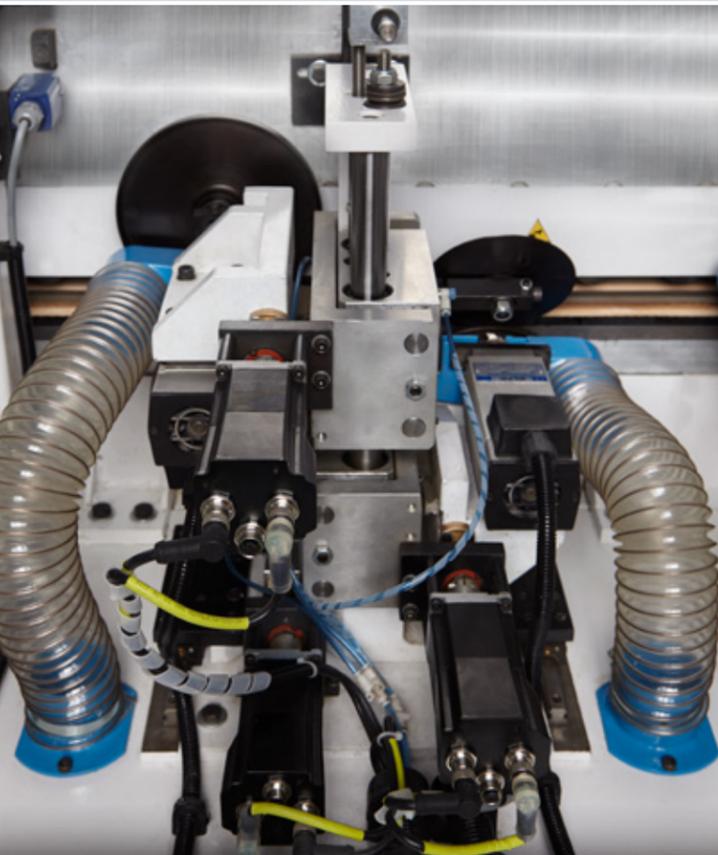
X360 Robotic Rounder Unit

Роботизированный раундер-агрегат X360

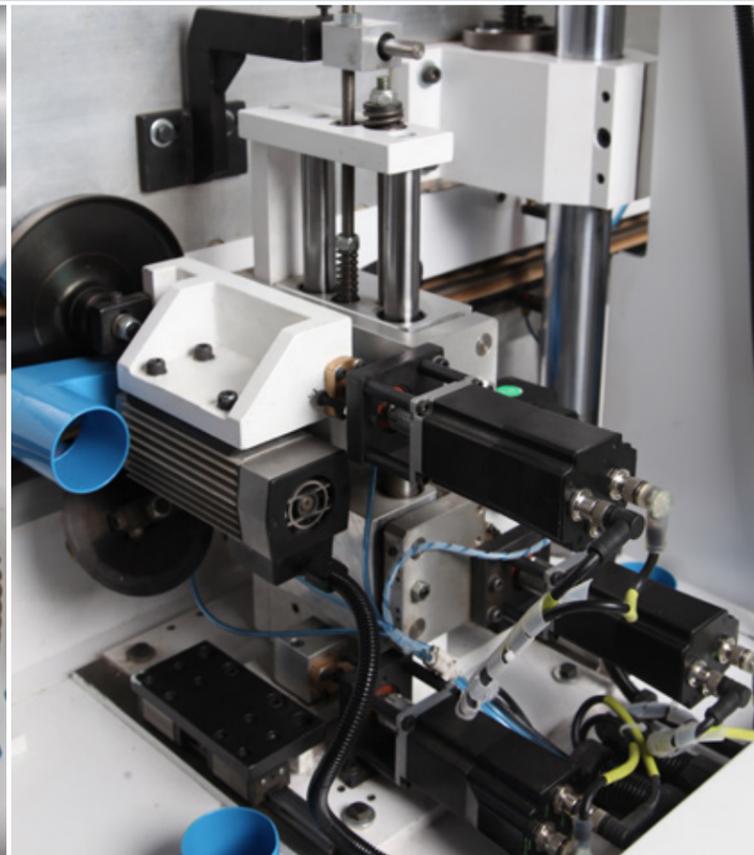
High Precision Robotic Rounder Unit X 360 performs a flawless operation with a single tool that rotates 360° around 4 edges of the piece.

Axis movements controlled by servo motors and 360° turning by Direct Drive Motor technology. Rounder Cutter moves precisely to its position with a motorized system by using the thickness given on Touch Screen Control. Cutter follows the same profile of Fine Trimming Unit to match the radius on the 4 corners of the workpiece.

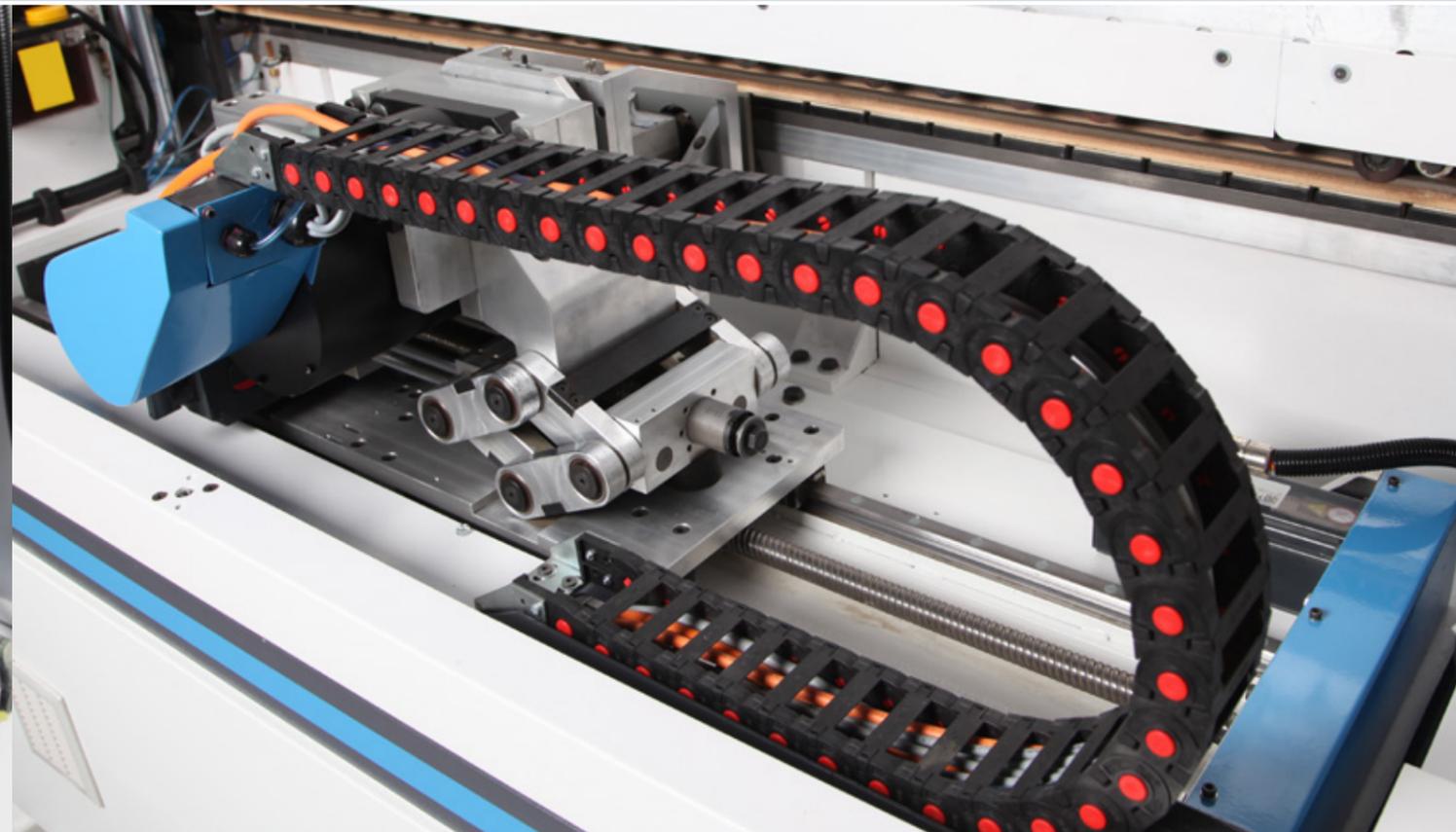
X 360 S copies the ergonomic movement of the the Human Hand which brings simplicity to the unit adjustment.



Reduces the shavings load for the fine milling unit, edge bands up to 1 mm are can be sizing perfectly.



Removes the shavings of the edge band which passed through the Rough Milling Unit. It allows you to get a much smoother surface of the material.



The rounding of the edges of the edge-banded parts, has become one of the most problematic aspects of the business of manufacturing panel furniture. For advanced high-speed workpieces, there are solutions with 2 milling units or 4 milling units. Nevertheless, whether 4 milling units and also for 2 milling units it is very difficult to work continuously with the same radius. The ideal solution for this task is to imitate human ergonomics and to be able to round edges with one knife.



Servo Controlled Radius Scraping Unit

Сервоуправляемый узел радиусной зачистки

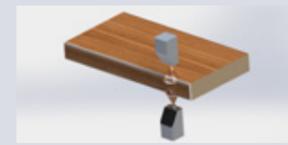
“It scrapes the bottom and top edges of the workpiece with the same radius as the tool in the milling unit. Eliminates the defects caused by edge material and workpiece, improves the quality of processing on the surface.”



Glue Joint Scrapper

Узел очистки от клея

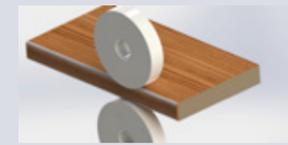
It scrapes the remnants of the glue, by scanning the bottom and top of the workpiece.



Cleaning Agent Unit

Узел очистительной жидкости

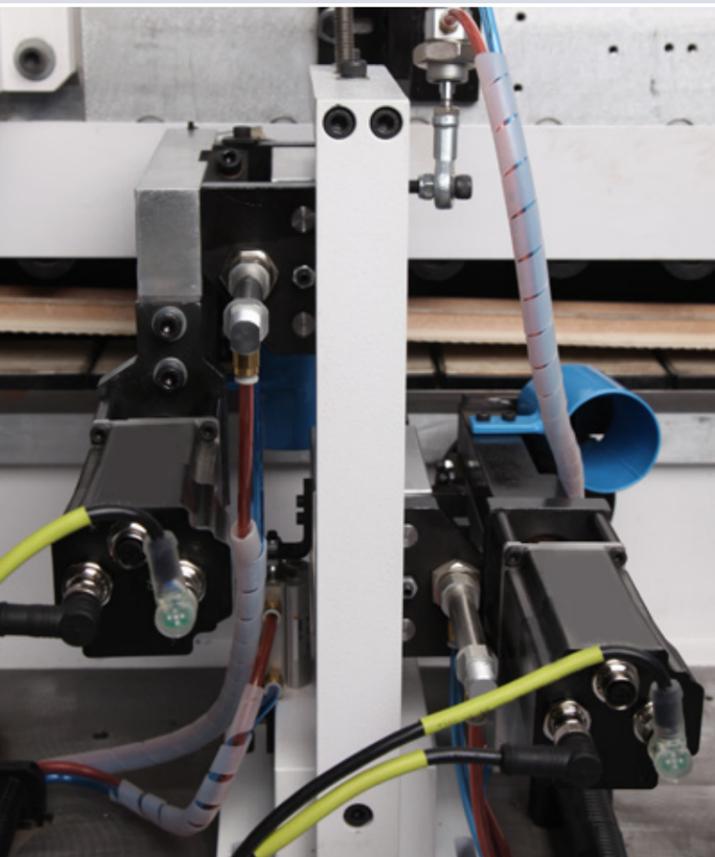
The Cleaning Liquid sprays a special composition of chemical to above and below surface of the laminated parts. This solution prepares the workpiece to cleaning before the Buffing Unit.



Buffing Unit

Полировальный узел

After all operations, the workpiece is passes between the polishing wheels and the last cleaning takes place.



Thanks to the blade that can cut with 0.05 mm precision, A smoother Radius surface can achieved.



This allows you to get rid of glue residues before polishing.



Helps to restore the color of the scraped surfaces, prepares for polishing.

This is the last of all operations related with the edge band. This is the Unit which most recent retouching to the workpiece.

Other Units and Specifications

Другие модули и спецификации



Jumping Grooving Saw Unit

Пильный агрегат проточки канавок со скачкообразным движением

Whether grooving through out the piece or with Jumping you get the channel of 3-10 mm.

Servo Controlled Entrance Fence

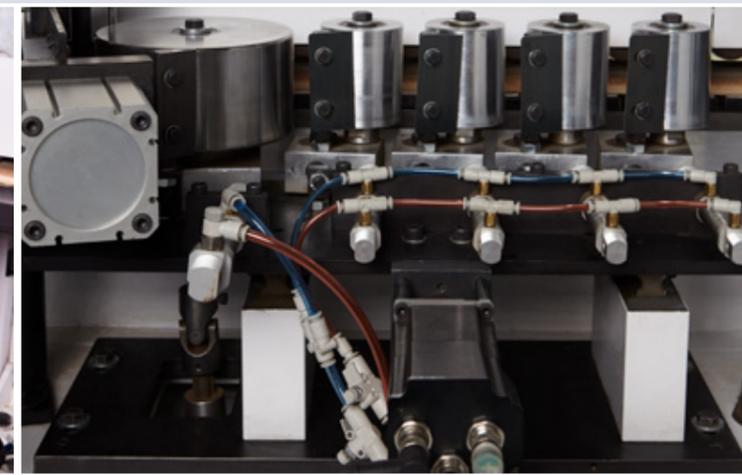
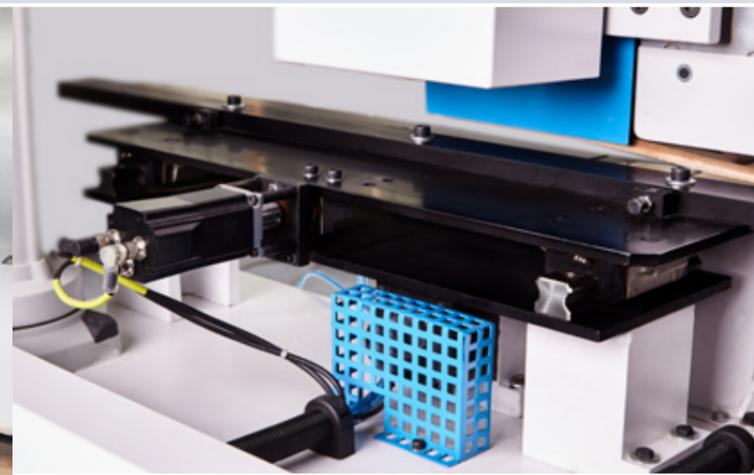
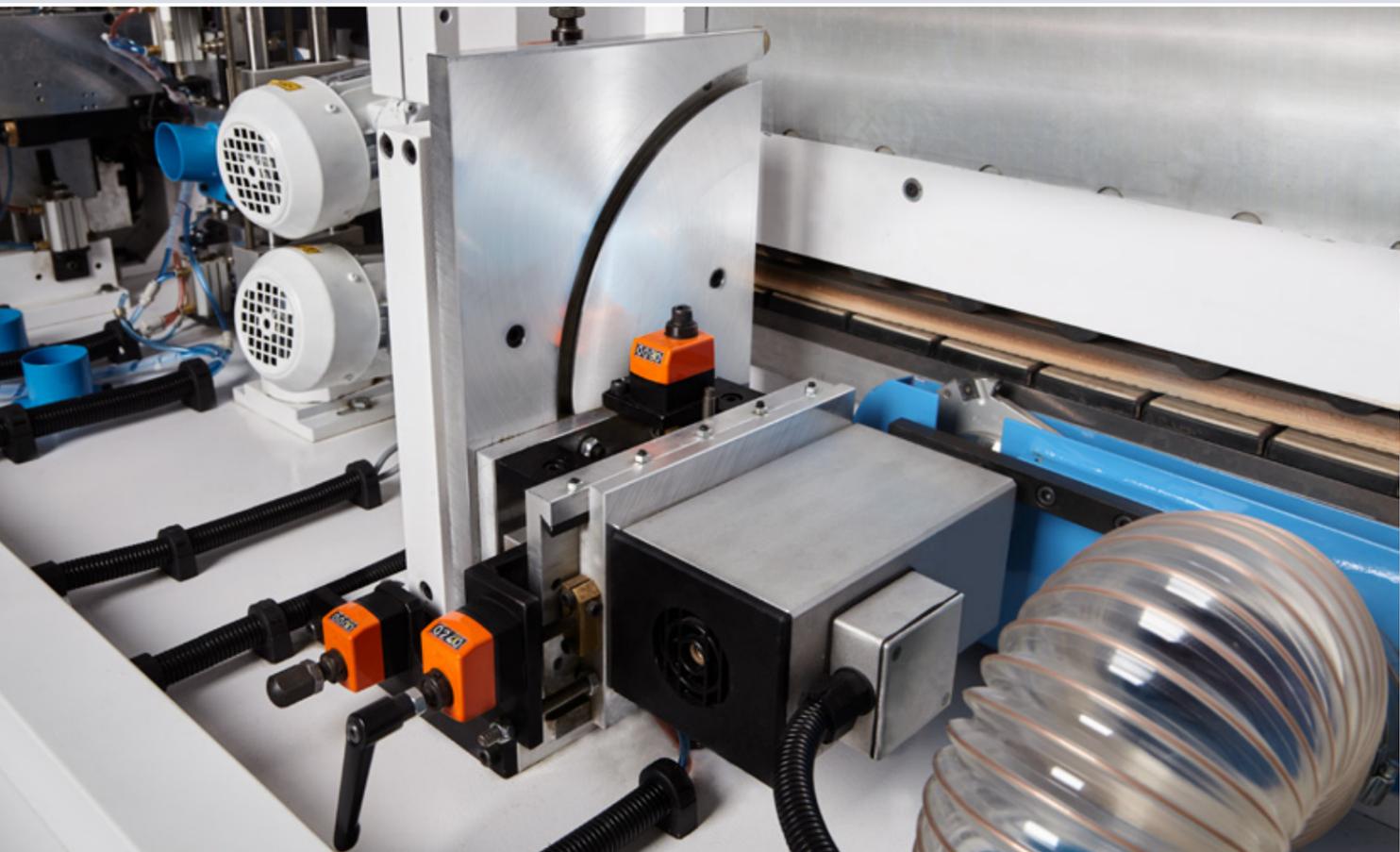
Сервоуправляемый передний козырёк

It moves on two Linear Guides via Servo Motor and backlash free screw. It moves according to the edge milling value of the workpiece.

Pressure Rollers With Servo Control

Сервоуправляемые прижимные ролики

Makes the Necessary Pressure to glue Edge Band to Workpiece. It consists of 1 Big and 4 small Rollers. It automatically adjusts the position accordingly to thickness of the Edge Band.



Single solution for close end or through channels.

Automatic Lubrication System

Автоматическая система смазки

Lubricates the rollers of the caterpillar chain system, which exerts a uniform pressure on the V-belt. Thus, this prevents the generation of heat as a result of friction.

Top Pressure System With V-Belt

Система верхнего прижима с V-образным ремнем

This Unit Consists of 70 mm V-belt and pressure rollers to assure homogenous pressure. The pressure on the workpiece distributed equally by the help of top pressure beam that avoids the movement of the piece during 20-25 m/min speeds. Belt remains no marks on the high gloss surfaces.

Touch Screen

Сенсорный экран

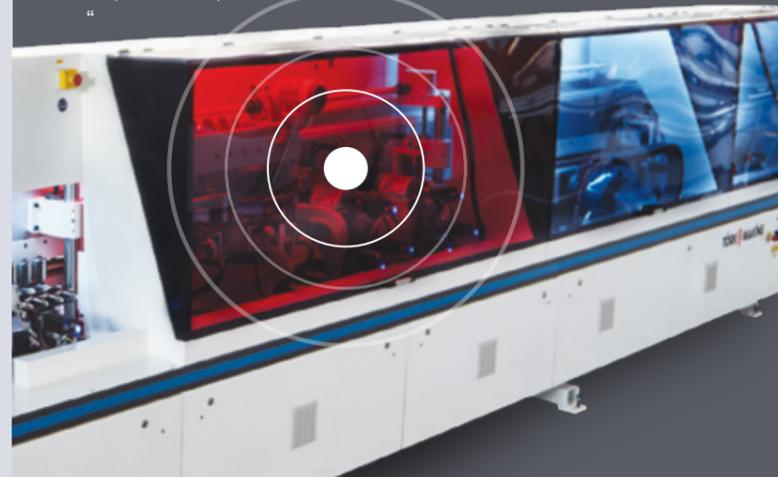
Thanks to 15" Touch Screen, all Units can be control seperately.



3D DIAGNOSTIC SYSTEM

СИСТЕМА ВЫЯВЛЕНИЯ НЕИСПРАВНОСТЕЙ 3D

" The advanced nervous system shows the malfunction with the help of a 3D video on the screen. The cabin where the fault is located is flashes red and guides the operator with the help of a smart LED illuminated Module. Thus, the operators, without resorting to the help of the TÖRK machine service, eliminate the malfunction and provides an uninterrupted production process.



All-inclusive for your comfort

Для вашего комфорта всё включено!



Troubleshooting / Выявление неисправностей

Thanks to the system of detecting malfunctions, 3D video animation shows the faulty part with the help of guidance of the LED lights.



Production Information / Сведения о производителе

The system which stores operational information in Excel format, can display this information on its own screen, and also in case of connection with an of-ice computer, it makes possible to download information from the machine to directly the production department.



Automatic / Автоматический

All Units are controlled on this screen.



Manual / Мануальный

If necessary, it provides to move the all machine units manually.

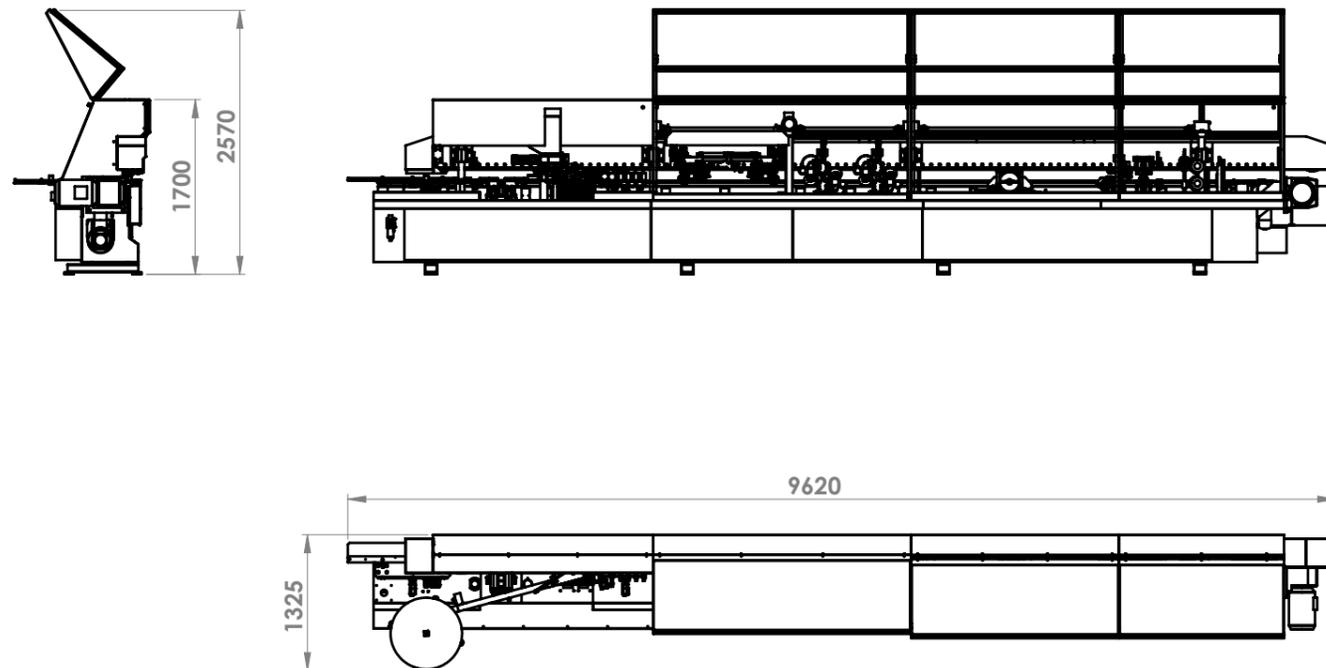


MACHINE DIMENSIONS

РАЗМЕРЫ СТАНКА

TECHNICAL SPECIFICATIONS

ТЕХНИЧЕСКИЕ СПЕЦИФИКАЦИИ



WORKING MEASUREMENTS / РАБОЧИЕ ИЗМЕРЕНИЯ	
Workpiece width / Ширина заготовки	min. 120 mm мин. 120 мм
Workpiece thickness / Толщина заготовки	min. 8 mm - max. 60 mm мин. 8 мм - макс. 60 мм
Distance between two parts / Расстояние между 2 деталями	min. 430 mm мин. 430 мм
Edge band thickness (mm) / Ширина ленты (мм)	min. 0.3- max. 3.0 мин. 0.3- макс. 3.0
Workpiece length / Мин. длина заготовки	min. 150 mm (without rounder) min. 250 mm (with rounder) мин. 150 мм (без раундера) мин. 250 мм (с раундером)
The Length of workpiece entering into the machine [mm] / Ввод в устройство [мм]	35 мм
CONNECTION / ПОДКЛЮЧЕНИЕ	
Rated Voltage / Рабочее напряжение	380 V AC / 50 Hz 380 В переменного тока / 50 Гц
Control Voltage / Контрольное напряжение	24VDC 24 В постоянного тока
Frequency / Частота	50 Hz 50 Гц
Total Power Consumption / Общая электрическая мощность	37 kW 37 кВт
Dust Suction Diameter [m³/h] / Выход поглощения пыли [м³/с]	10.000 m³/h 10 000 м³/с
Machine Air Pressure Consumption / Расход давления воздуха станка	8 Bar 8 Бар.
Type of Air Connection / Тип воздушного соединения	min 3/4" (approx. r: 35 mm) мин. 3/4" (в среднем 35 мм в диаметре)
OTHER / ДРУГОЕ	
Machine Working Speed / Рабочая скорость станка	20-25m/Min. 20-25 м/мин.
Machine weight [kg] / Вес станка [кг]	4440 kg 4440 кг.

NAVIGAX360

