

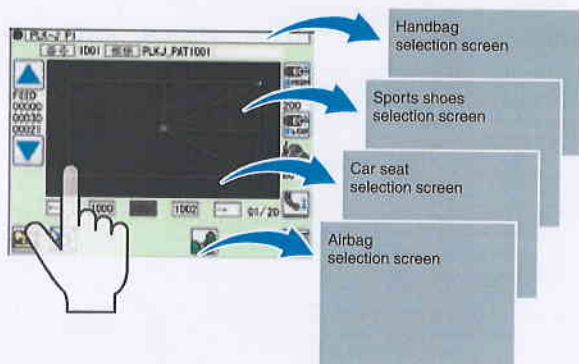


Everything has been done to increase usability

Simple settings with just one touch

Basic settings resolve the problem of being "highly functional but difficult"

Time spent on complex adjustments greatly reduced.



Best touch cloth pressing

Equipped with new module control for intermediate pressing (Patent pending)

Free adjustment enables optimized pressing of a wide variety of cloth, from thin to thick.

Faster and Cleaner

World's highest level of actual sewing speeds achieved

Even seams with large curves are sewn quickly and cleanly.

* 3.0mm pitch: 2,300 rpm (intermittent feed)

Leave tension management to the sewing machine

Digital tension as standard equipment

Tension adjustment previously requiring experience and intuition now managed digitally.



Easy maintenance!
New arm-shaped (design patent pending),
glass epoxy-type sliding plate

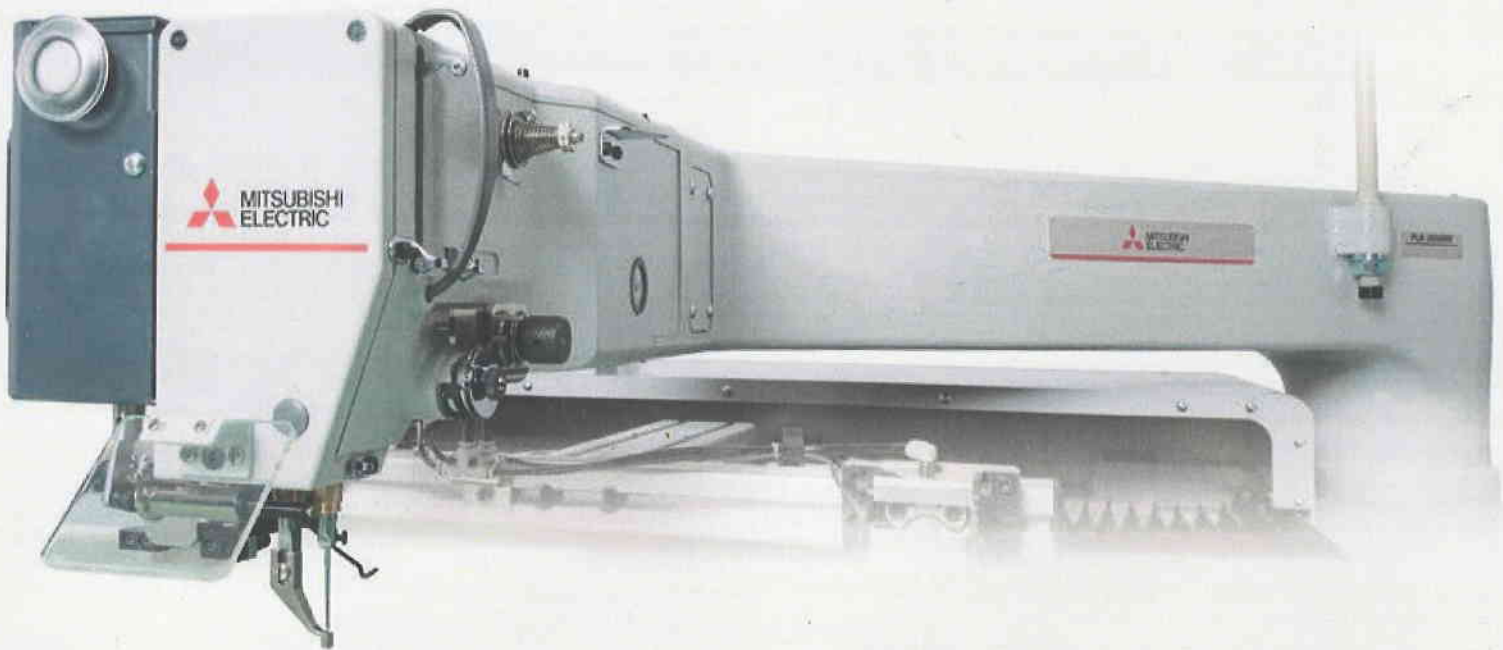


The bobbin can even be replaced from above!
Bobbin open/close window



Easy-to-see operations and simple tool!
6.5-inch color operation panel

PLK-J6040R



The future of sewing in one machine

Leave it to the sewing machine to prevent errors

Cloth thickness checked and setting errors found before sewing starts.

The hook oiling timing is digitalized, so adding oil is never forgotten and adding too much oil is prevented.

From quality control to quality assurance

Stitch skipping function and thread break detection function included as standard features

In addition to detecting defects (screening), pass/fail judgment uses data management, supporting quality warranty (traceability).

Superior energy-saving benefits

Low vibration + Low noise = Reduced power consumption

Low power consumption in consideration of the global environment and the workplace.

Energy-saving technologies supporting a reduction in personnel



Higher speeds and larger sewing area.
Power consumption cut by 25% compared to previous machines.

Linking factories to the next generation

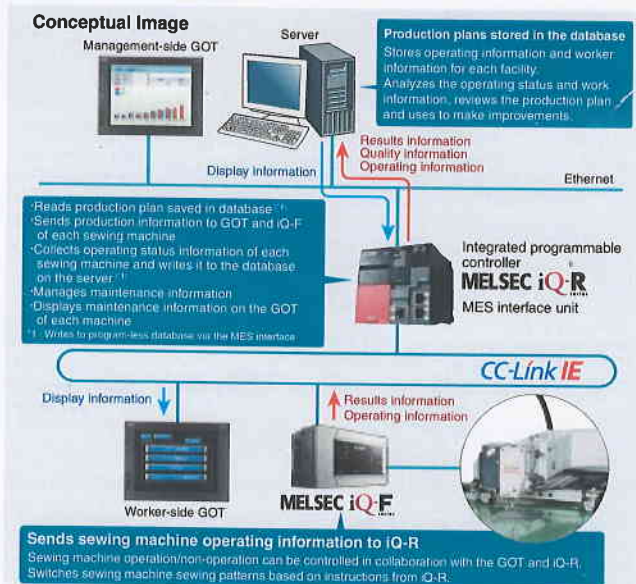
Integrated FA-IT solutions driven by Mitsubishi Electric

e-Factory

Operating status visibility realized through enhanced communication functions.

Flexible factory management realized.

Sewing machines that contribute to resolving onsite issues.



Specifications

Item	Type	PLK-J6040R
Stitching style		Single-needle lockstitch
Hook format		Double-size full rotary hook
Compatible needles		DPx17 #18
Sewing area (X x Y)		600mm x 400mm
Max. stitching speed *1		Intermittent feed: 2,300rpm Continuous feed: 2,500rpm
Feeding method		Intermittent/Continuous feed (switchover method)
1 stitch seam length		0.1-20.0mm (min. resolution 0.1mm)
Max. stitches		20,000 stitches/pattern no.
Max. patterns		9,900 *2
Storage media		USB flash memory
Upper shaft motor		Mitsubishi 750W direct servo motor
Lower shaft motor		Mitsubishi 400W direct servo motor
External presser method		Chuckling
Center presser drive method		Independent drive (stepping motor drive)
Center presser foot lift		15.0mm(max. 24.0mm, min. setting unit 0.1mm)
Center presser foot stroke		Digital adjustment stroke: 00-10.0mm
Needle thread regulator		Manual/Digital switchover system including input data storage and automatic sewing direction support adjustment
Oiling system		Sprayer: Adjustable spray time
Operation panel		6.5-inch color LCD touch panel USB connector equipment
External device I/F		USB communication Terminal block I/O: 16 Input points, 16 output points
Barcode reader		Supports USB barcode reader
Programmable controller performance		Original step sequence function
External dimensions		Target: 1,350 x 1,570 x 1,205mm (WxDxH)
Weight		Target: 440kg
Power		200-240VAC one-phase/three-phase 100-120V, 380-415V(optional unit required)

*1 Due to factors such as type of sewing material, presser mass and seam length, maximum rated speed may not be possible.

*2 There may be a limit to the maximum number of patterns due to the number of stitches in the sewing pattern.



Safety Precaution

To ensure safe and proper use of the products in this document, please make sure to read the relevant instruction manuals and technical notes before use.

Note: Be sure to confirm the details of the warranty when making a purchase.

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Changes for the Better

FACTORY AUTOMATION

INDUSTRIAL SEWING MACHINES

PLK-G Wide-area Series



PLK-G6030WR

*Automation
Technology*
BY MITSUBISHI
ELECTRIC

Tec Team sewing machines gmbh

Lessingstr. 16

64546 Mörfelden-Walldorf

Tel. 06105-923083/84 Fax: 06105-923085

Features



Switch function of needles with twin rotary hooks
Needle switching function with twin rotary hooks offers the possibility of stitching two-different colors or two-different sizes of thread.



Thread catcher
Holding the upper thread makes it possible to switch needles smoothly and prevent skipped stitches at the sewing start point.



Stable trimmer performance
Adapting the horizontal thread trimmer mechanism offers stable thread trimming on a wider range of thread sizes.



Pneumatic 2-step tensioner
The ability to adjust the upper thread tension during sewing in two steps, allows for varying material thickness and direction of sewing.

Specifications

Item	Model	PLK-G6030WR
Sewing area (X × Y)		600 × 300mm
Stitching style		Double needle lockstitch(Needle selecting system)
Hook		Double-size twin horizontal rotary hook
Max speed (*1)		Intermittent:1,800rpm Continuous:1,800rpm
Feeding system		Intermittent or continuous(Switchover method)
Stitch length		0.1 to 20.0mm
Max. stitches		20,000/pattern
Max. pattern		900
Enlargement/Reduction function		10% to 200% for both X and Y axis (adjustable in 0.1% steps) (axis)
Memory medium		USB flash memory (not included with sewing machine) (USB-connected FDD can also be connected)
Work piece holder lift stroke		30mm
Work piece holder lifter drive		Pneumatic
Presser foot lift stroke(*2)		12mm(Max.15mm)
Presser foot stroke(*3)		4mm to 10mm(Factory setting 4mm)
Spindle motor		XL-K756-20
Needle		DPX17 #18
Operation panel		PLK-G-PAL-2
Mass		445kg
Outline dimensions (W×D×H)		1,350 × 1,720 × 1,250mm
Power supply		200V to 240V single-phase or three-phase 110V to 120V and 380V to 415V are both compatible using optional power-supply unit

*1 : Based on the sewing application, settings, etc.

*2 : The presser foot lift stroke, represents the height of the presser foot when the sewing is stopped.

*3 : The presser foot stroke, represents the stroke of the presser foot during the sewing.

Applications



< Automobile Interior >



< Bags >



< Chairs, Sofas >

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INDUSTRIAL SEWING MACHINES

PLK-G Ultra-Thick Material Series

PLK-G2008H/BTRM

PLK-G3040R



Electronic Sewing Machine for Lifting Equipment and
Extra-Thick Safety Belts - PLK-G2008H



Electronic Sewing Machine for Stitching Extra-Thick Bag Parts (container bags, large bags, etc.) - PLK-G3040R

*Automation
Technology*
BY MITSUBISHI
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Mitsubishi Industrial Electronic Sewing Machine

PLK-G2008H

Features

[Extra-thick material compatible]

This model is perfect for stitching safety belts, suspension fittings and sling belts for lifting.

[Extra-thick thread trimmer]

An extra-thick needle thread and bobbin thread trimmer using a heat cutter is provided.

* BTRM specifications only have bobbin thread trimmer.

Specifications

Model	PLK-G2008H	PLK-G2008H-BTRM
Stitching style	Single needle lockstitch	
Sewing area	200mm x 80mm	
Maximum sewing speed	700rpm ^(Note 1)	
Feed method	Intermittent or continuous feed (switchover method)* Intermittent feed is recommended	
Stitching pitch	0.1mm to 20.0mm (minimum resolution 0.1mm)	
Memory medium	USB flash memory (USB-connected FDD is also supported)	
Maximum number of stitches	20,000 stitches/pattern	
Maximum number of stored patterns	900 patterns (control panel's internal memory)	
Enlargement/reduction function	10 to 200% for both X and Y axis (variable in 0.1% steps)	
Applicable needle	794 #230	
Hook type	Special semi-rotation hook (with bobbin removal mechanism)	
Thread trimmer	Heat cut method	Heat cut method (only bobbin thread)
Needle stroke	56.3mm	
Work holder lift stroke	20mm	
Presser foot lift stroke	25mm	
Work holder method	Air method	
Spindle motor	XL-G554-20(Y)	
Power supply	200 to 240V, single-phase/3-phase 100 to 120V, 380 to 415V (option unit is required)	
Outline dimensions	1,200mm x 780mm x 1,320mm (WxDxH) (excluding thread stand)	
Total weight	172kg	170kg

(Note 1) Depending on the type of sewing material, presser weight and stitch length, etc., the maximum speed may not be attained.



PLK-G3040R

Features

[Extra-thick bag material compatible]

The tube-shaped table makes it simple to sew on container bag belts or belt stays, fitting for suspension belts and attaching parts onto large items.

Specifications

Model	PLK-G3040R
Stitching style	Single needle lockstitch
Sewing area	300mm x 400mm
Maximum sewing speed	1,000rpm ^(Note 2)
Feed method	Intermittent or continuous feed (switchover method)* Intermittent feed is recommended
Stitching pitch	0.1mm to 20.0mm (minimum resolution 0.1mm)
Stitching style	USB flash memory (USB-connected FDD is also supported)
Sewing area	20,000 stitches/pattern
Maximum sewing speed	900 patterns (control panel's internal memory)
Feed method	10 to 200% for both X and Y axis (variable in 0.1% steps)
Stitching pitch	DDX1 #26
Hook type	Full rotation special large-sized hook
Thread trimmer	Bobbin thread trimmer standard
Needle stroke	50.8mm
Work holder lift stroke	Max. 50mm
Work holder mounting weight	Standard cloth holding device + max. 4kg
Presser foot lift stroke	15mm
Presser foot stroke	3 steps: 0, 4.5, 9mm (standard 9mm)
Work holder method	Air (main circuit: 0.4MPa, slider circuit: 0.2MPa)
Spindle motor	XL-G554-20(Y)
Power supply	200 to 240V, single-phase/3-phase 100 to 120V, 380 to 415V (option unit is required)
Outline dimensions	1,200mm x 780mm x 1,320mm (WxDxH) (excluding thread stand)
Total weight	620kg

(Note 2) Depending on the type of sewing material, presser weight and stitch length, etc., the maximum speed may not be attained.



Safety Precaution

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Note: Be sure to confirm the details of the warranty when making a purchase.

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INDUSTRIAL SEWING MACHINES

PLK-G Wide-area Series

- PLK-G4030/G4030R
- PLK-G6030/G6030R
- PLK-G5050/G5050R
- PLK-G10050/G10050R



*Automation
Technology*
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• Specifications

Item	Model	PLK-G4030	G4030R	PLK-G6030	G6030R	PLK-G5050	G5050R	PLK-G10050	G10050R
Stitching style		Single-needle lockstitch							
Hook		Double-size rotary hook		Double-size rotary hook		Double-size rotary hook		Double-size rotary hook	
Hook		Shuttle (large)							
Sewing area (XxY)		400 x 300mm		600 x 300mm		500 x 500mm		1,000 x 500mm	
Max. speed (*1)		Intermittent: 2,000rpm Continuous: 2,000rpm				Intermittent: 1,600rpm Continuous: 2,000rpm			
Feeding system		Intermittent or continuous (switchover method)							
Stitch length		0.1 to 20.0mm (minimum resolution 0.1mm)				0.1 to 20.0mm (intermittent) / 0.1 to 4.3mm (continuous) (minimum resolution 0.1mm)			
Max. stitches		20,000/pattern							
Max. patterns		900 (*2)							
Enlargement/ reduction function		10 to 200% for both X and Y axes (variable in 0.1% steps)							
Memory medium		USB flash memory (not included with sewing machine) (USB-connected FDD can also be connected)							
Mass		420kg	430kg	440kg	450kg	470kg	480kg	500kg	510kg
Work holder lift stroke		30mm							
Presser foot drive		Pneumatic							
Chucking device		Special specification							
Presser foot lift stroke		12mm (Max. 15mm) variable in 0.2mm steps							
Presser foot stroke		4 to 10mm							
Spindle motor		Mitsubishi Electric 750W direct servo motor							
Needle		DP x 17 #18 (standard)							
Operation panel		5.7" LCD touch panel, white LED backlight							
Outline dimensions		1,081 x 1,572 x 1,234mm (W x D x H) (excluding thread stand)		1,350 x 1,572 x 1,234mm (W x D x H) (excluding thread stand)		1,384 x 1,855 x 1,234mm (W x D x H) (excluding thread stand)		2,105 x 1,855 x 1,234mm (W x D x H) (excluding thread stand)	
Power supply		200 to 240V, single-phase/3-phase 100 to 120V, 380 to 415V (optional unit required)							

*1: Sewing speed may be limited by the type of sewing material, presser weight and stitch length, etc.

*2: The max. patterns may be limited depending on the number of stitches of each pattern in the memory.



Safety Caution

In order to properly and safely utilize the sewing machines mentioned in this brochure, before starting the operation, please make sure to read the related instruction manuals.



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Eco Changes is the Mitsubishi Electric Group's environmental statement, and expresses the Group's stance on environmental management. Through a wide range of businesses, we are helping contribute to the realization of a sustainable society.



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New publication, effective Jul. 2015.

Specifications are subject to change without notice.



G4030, G6030, G5050, G10050
 G4030R, G6030R, G5050R, G10050R

Wide-area pattern sewing machine

PLK-G4030/G4030R

Sewing area
 400 x 300mm



PLK-G6030/G6030R

Sewing area
 600 x 300mm



Extra-wide-area pattern sewing machine

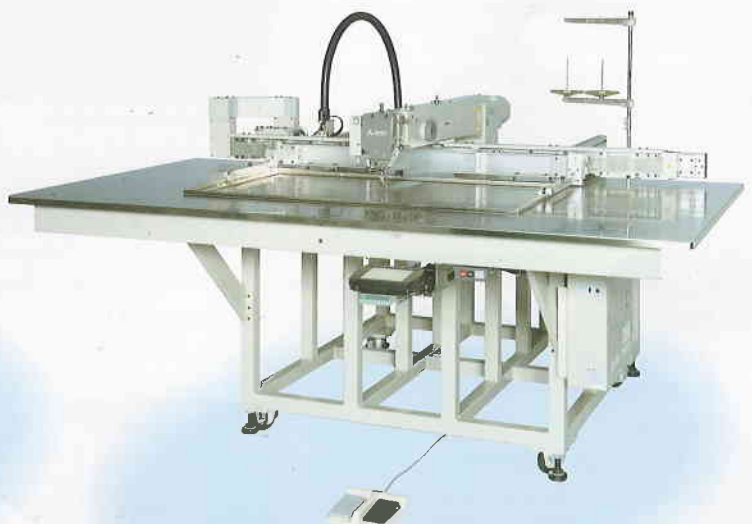
PLK-G5050/G5050R

Sewing area
 500 x 500mm



PLK-G10050/G10050R

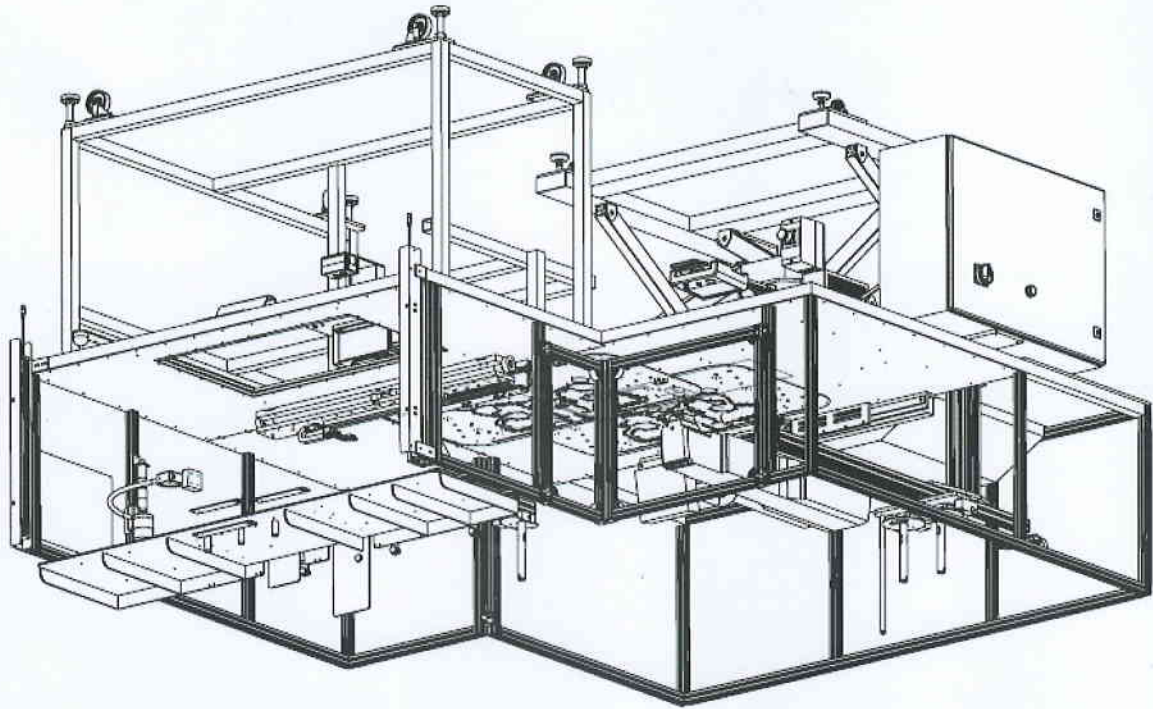
Sewing area
 1,000 x 500mm



Exclusive line is designed for clients who seek for very innovative solutions, that will improve significantly the process of sewing.

Specification of possible equipment:

- Sewing area from 600x300mm up to 1000x500mm
- Jig Eject system, with special automated rotary table controlled by WEISS motor
- Coding of holding plates, allowing the system to start sewing process automatically with the programmed sewing pattern
- Components laying sequence with the exchangeable nests (that allow to use different projects on the same machine)
- Thickness of layers measurement system
- Loading tables lightning system
- Shelves for components
- Shelves for holding plates

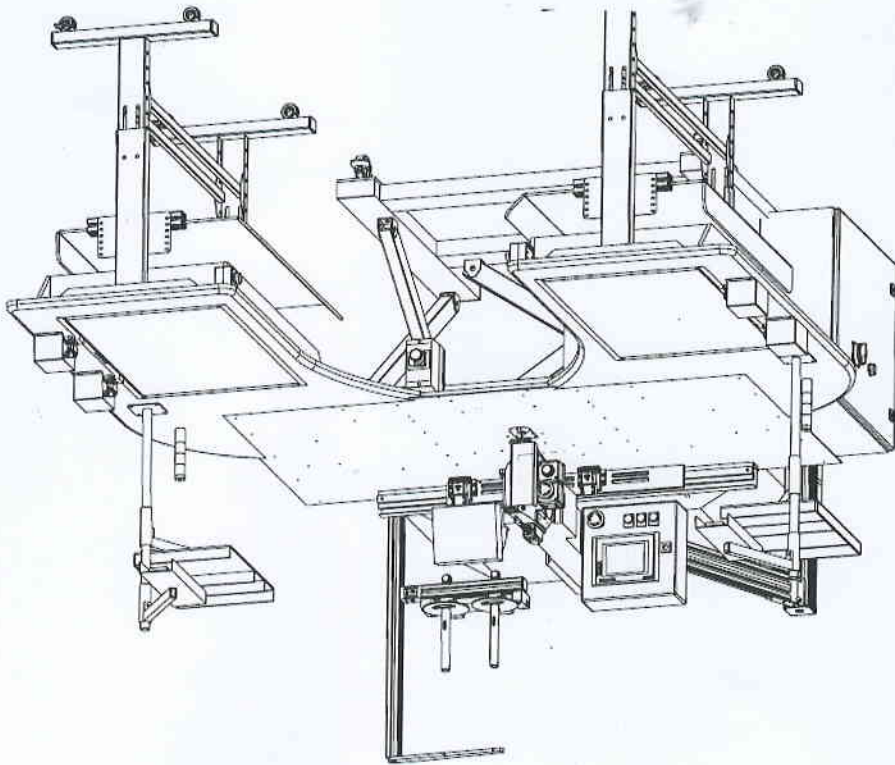


Standard line is designed as a full automated CNC machine, for larger sewing areas. It's designed for clients who seek for a comfortable and safe work within a large sewing station.

Standard line

Specification of possible equipment:

- Sewing area from 300x200mm up to 600x300mm
- Jig Effect system, with loading tables type "U"
- Coding of holding plates, allowing the system to start sewing process automatically with the programmed sewing pattern
- Possible automated holding plates transport system
- Components laying sequence fixed on the loading tables, or with the exchangeable nests (that allow to use different projects on the same machine)
- Thickness of layers measurement system
- Loading tables lightning system
- Shelves for components
- Shelves for holding plates



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