

Specifications/

BAS-352K-0A0

Application	
A	Airbag

	BAS-352K
Stitch form	Single needle lock stitch
Hook	Double-capacity shuttle hook
Max. sewing speed	2,100sti/min
Max. sewing area (WxD)	700 x 450mm
Footprint (WxD)	1,770 x 1,600mm
Feed mechanism	Intermittent feed (pulse motor drive)
Stitch length	0.05-20.0mm (per 0.05mm)
Max. number of stitches	100,000 stitches (per program)
Max. number of programs	999
Jig clamping system	Standard equipment
Height of stepping presser foot	27mm (highest needle stop position)
Stepping presser foot stroke	0-10mm (per 0.1mm)
Thread wiper	Standard equipment
Thread trimmer	Standard equipment
Digital tension	Standard equipment
Material thickness detection function	Standard equipment
Upper thread tension sensor	Skipped stitch detection,thread breakage detection,thread tension monitoring
Upper thread slip prevention function	Standard equipment
Needle bar height monitoring	Standard equipment
Needle guard monitoring	Standard equipment
Hook timing monitoring	Standard equipment
Needle clearance monitoring	Standard equipment
Oil level monitoring	Standard equipment
Data storage media	Internal flash memory (data addition is available with external memory)
Motor	AC servo motor
Weight	Approx. 333kg
Power	1-phase: 200V-240V 450VA
Air pressure/Consumption	0.5MPa, 1.8l/min

Option/
-Work Clamp Assy

Peripheral equipment/
-Jig Box Assy<SD0126201>

Brother GT/ISM Support App



RoHS Compliant BAS-352K is compliant with the RoHS Directive(the restriction of the use of certain hazardous substances in electrical and electronic equipment) which came into effect in the EU in July 2006.

Please read instruction manual before using the machine for safety operation.
-Product specifications are subject to change for improvement without notice.
-Photographs are for illustration purpose. They may not represent actual operating conditions and may display optional parts.

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NEXIO

Direct Drive Programmable Electronic Pattern Sewer

BAS-352K
700mm x 450mm





DIGIFLEX TUNE

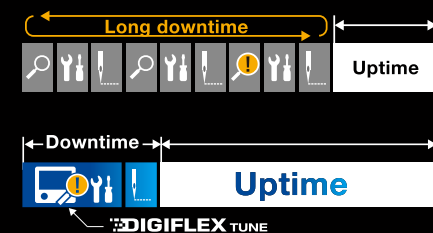
Brother's innovative digital technology enables analog adjustments to be accurate to 0.01 millimeters. Supports stable production by maintaining high production efficiency and quality.

Productivity

Sensing makes it clear how to handle sewing defects, minimizes downtime and increases productivity.

The adjustment time of the sewing machine due to poor sewing is greatly reduced by sensor monitoring technology. Appropriate adjustments depending on the cause of the sewing defect can be made just from checking numerical values on the panel.

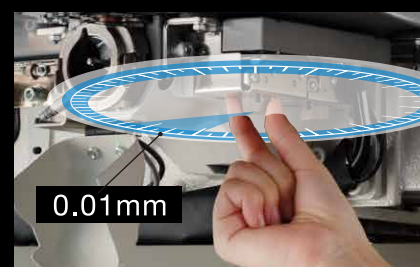
Experienced mechanics



Reproducibility

Adjustments in increments of 0.01 millimeters are possible, eliminating variations in adjustments due to people and environments.

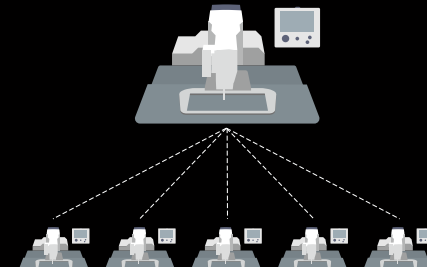
The sewing machine adjustment, which was done visually or manually, will change to adjusting while checking the target value set on the panel and current value.



Expandability

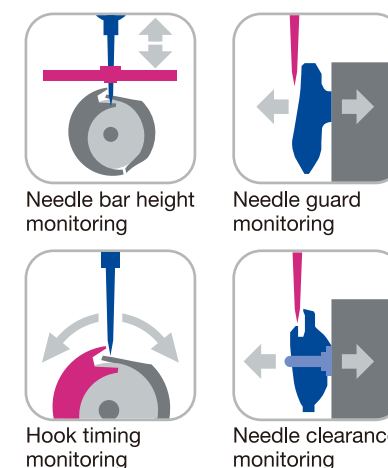
Digitalization makes it possible to make the same adjustments to multiple sewing machines, making it possible to develop globally unified adjustments.

The same adjustment can be achieved simply by matching the set value with another sewing machine.



Digitalization of adjustments

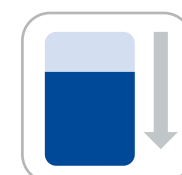
The digital adjustment method using sensing makes it easy to adjust the needle bar height position, hook timing, needle guard gap, needle clearance, while checking the numerical values on the panel.



Preventing machine breakdown

Oil level monitoring

By alerting you when the oil level is low, you can prevent machine damage due to operation without oil.

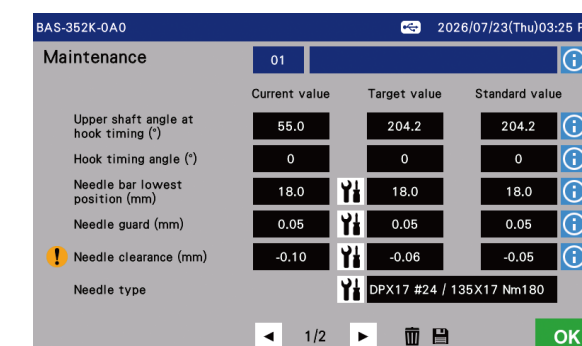


Oil level monitoring



Smart Machine Management

On the panel, it will display the numerical values for the sewing machine adjustments, including the "standard value," the "target value" that you can set, and the "current value," which shows the status of the machine.

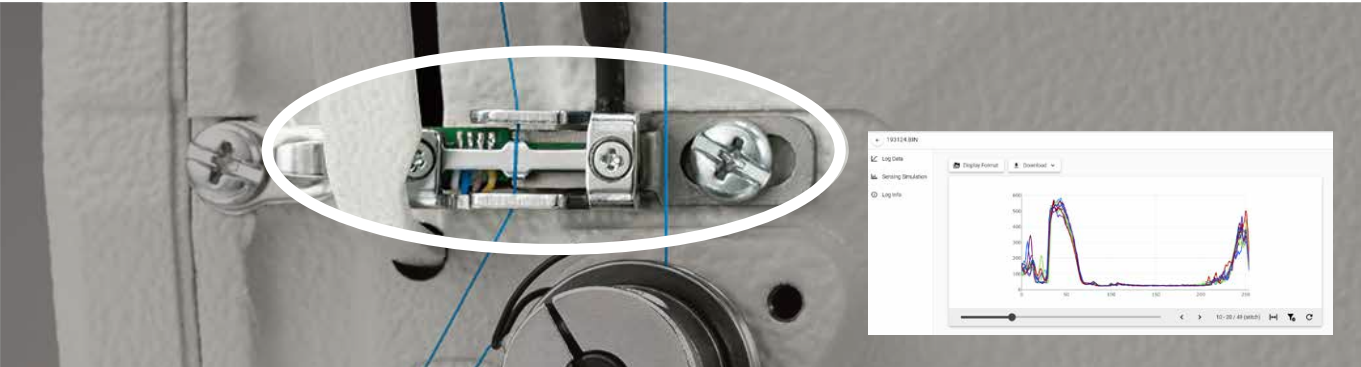


If the current adjustment value of the sewing machine deviates from the target value, a warning will appear so that the desired values can be maintained appropriately.

Upper thread tension monitoring

Skipped stitch detector

By detecting sewing defects by detecting skipped stitch, thread breakage detection, and dynamic upper thread tension monitoring, defective products are prevented from flowing to the downstream process.



Thread tension monitoring

In addition to the conventional skip stitch and thread breakage detection, upper thread tension monitoring function has been added. The threshold based on the standard deviation can be automatically set for each stitch, allowing for easy and highly accurate detection. This technology can now detect sudden tension abnormalities during sewing.

Traditional threshold setting

Manual input requires threshold setting if the tension is intentionally changed. Setting the threshold takes a lot of time.

MAX

MIN

New threshold setting

Statistical processing from actual tension data will automatically set thresholds.

MAX

MIN

Example of sewing tension setting

Sewing image

Material Thickness

Tension Settings

Other features

Fabric thickness detection

By measuring the thickness of the fabric at the beginning of sewing and determining whether it is within the specified value, misplacements are detected before they occur. If it differs from the set value, an error will be displayed on the LCD screen.



Prevention of skipped stitch and thread slippage at sewing start *Patent applied

Skipped stitch and thread slippage at sewing start can be prevented by holding the upper thread with the intermittent presser foot.

Comparison image of sewing start

Conventional

1st stitch 2nd stitch

material upper thread

Presser foot rise triggers thread slip

BAS-352K

1st stitch 2nd stitch

Presser foot holds the upper thread and reduces thread slip

Sewing Defect Detection Configurator

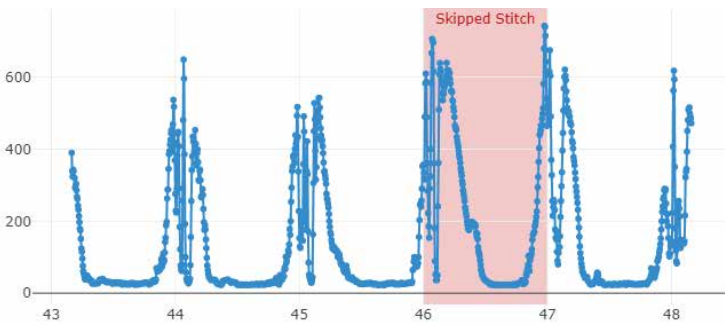
A web application designed to support sewing defect detection devices

This application analyzes log files generated by sewing defect detection devices. With features such as tension data visualization and simulation for adjusting defect detection parameters, users can easily perform tension analysis and optimize defect detection parameters during the sewing process. This makes quality control in sewing operations significantly more accessible.

Features

Tension visualization and log data analysis

By uploading log data of SDD device, you can analyze the log data. The App plot tension value and the timing which defect occurred during sewing.



Defect detection simulation

Simulates defect judgment on the application using uploaded log file data. Defect judgment criteria can be customized without actually sewing the workpieces.

Thread Breakage ☒ Skipped Stitch ☒ Outlier ☐ Fake stitch at sewing start ☐ Simulate

200	Skipped stitch (SS) detection	☒	1	1
201	SS: Sewing machine stop setting	☐	1	1
202	SS: Number of stitches before starting detection	☐	1	1
210	SS: Bobbin hooking tension threshold (constant speed)	☐	25	1
211	SS: Bobbin hooking tension threshold (deceleration)	☐	5	1
212	SS: Bobbin hooking tension threshold (acceleration)	☐	25	1

Developer mode ☐

Skipped stitch detection estimates (tension/stitch)

Traceability

Sewing machine data such as sewing program No., lot No., etc. can be linked to the log file (a corresponding sewing machine is required).

☐	type	file name	size	upload date	
☐	📁	salvage12.BIN	242 KB	2023/11/23 19:31	⋮
☐	📁	salvage11.BIN	443 KB	2023/11/23 19:31	⋮
☐	📁	salvage10.BIN	114 KB	2023/11/23 19:31	⋮
☐	📁	salvage9.BIN	203 KB	2023/11/23 19:31	⋮
☐	📁	salvage8.BIN	103 KB	2023/11/23 19:31	⋮
☐	📁	salvage7.BIN	425 KB	2023/11/23 19:30	⋮
☐	📁	salvage6.BIN	7 KB	2023/11/23 19:30	⋮
☐	📁	salvage5.BIN	195 KB	2023/11/23 19:30	⋮

Programming of input /output to external devices

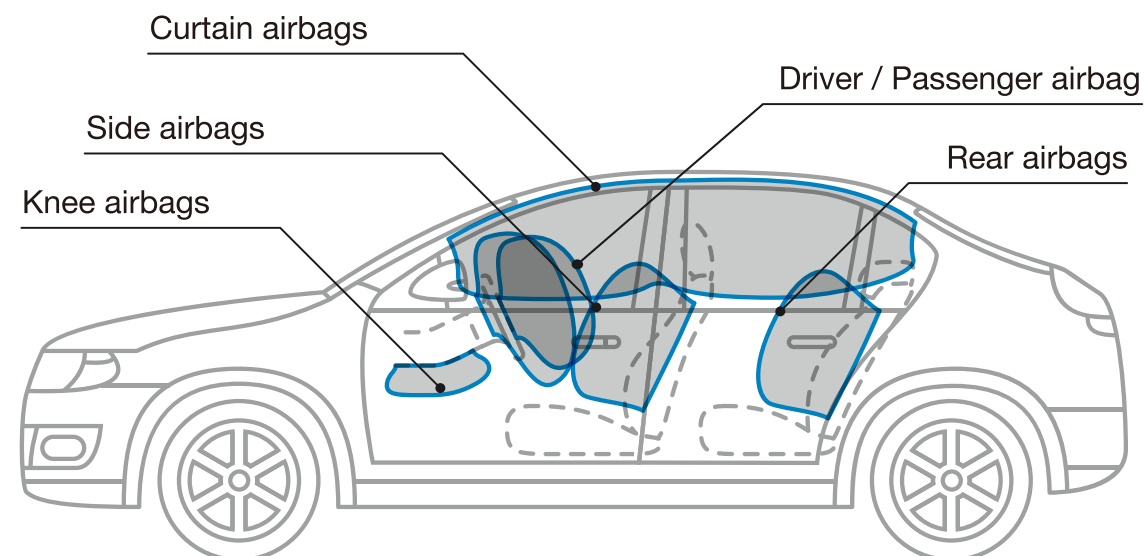
Programming for safety devices and start switch can be easily done from the operation panel. In addition, installation of terminal blocks for connecting external devices has made wiring work easier.



Airbags



High density and stable sewing quality is achieved even for large airbags such as driver airbag, passenger airbag, side airbags, knee airbags, and rear airbags. By adding options to the machine, it can also be easily used for curtain airbags.



Achieves a wide sewing area with a compact installation (footprint) area

The workspace footprint is extremely small for the larger sewing area provided when compared to a conventional type BAS machines, allows making additional space for another machine.

Footprint

Conventional model

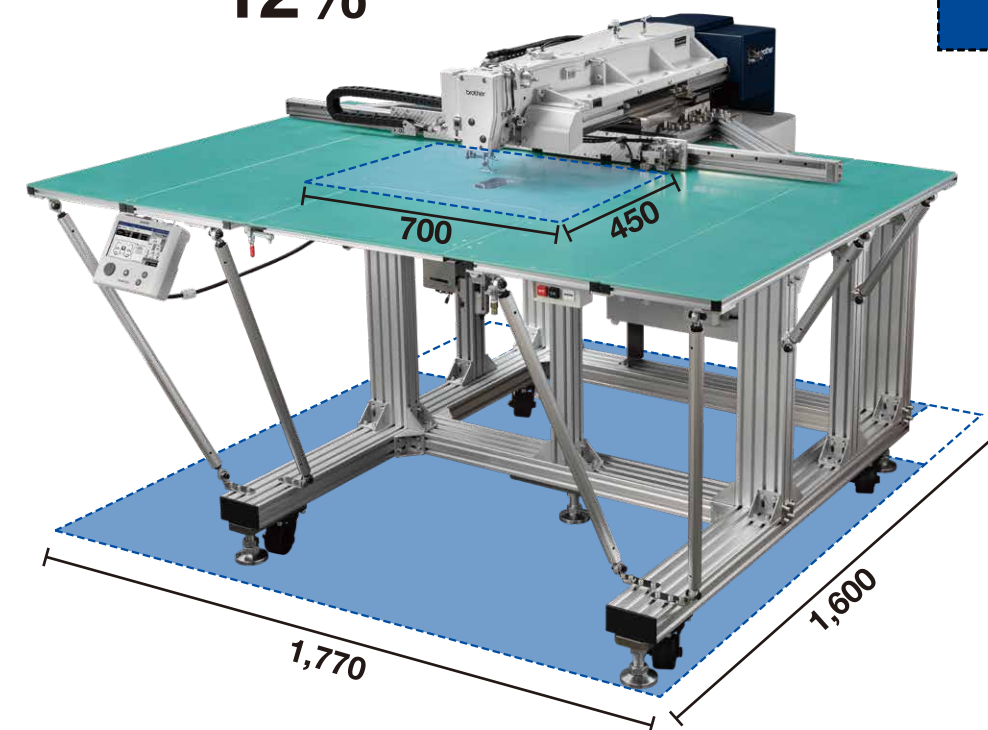
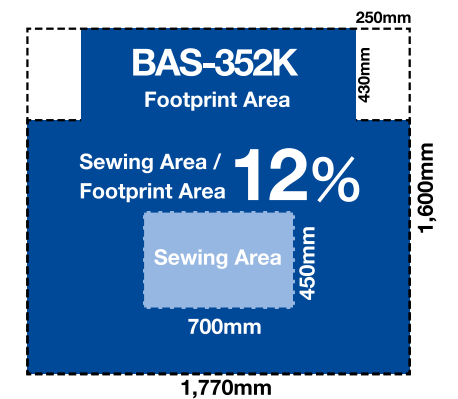
Ratio of sewing area to footprint area

7%

BAS-352K

Ratio of sewing area (0.315m²) to footprint area (2.617m²)

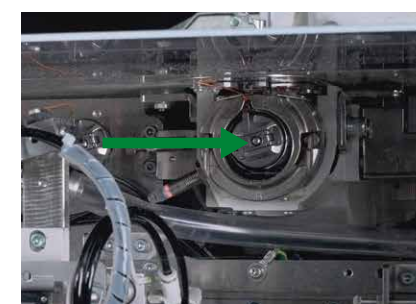
12%



Option

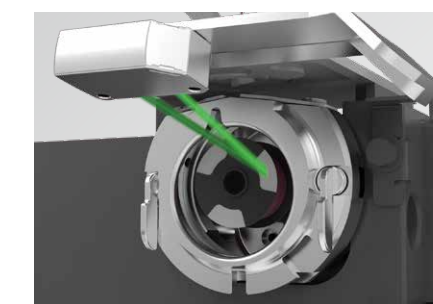
Automatic Bobbin Winding and Changing Device

Eliminates manual bobbin changes and boosts productivity. Reduces defects and rework for consistent seam quality. Improves operability and reduces operator fatigue.



Bobbin Rotation Detector

By detecting the rotation of the bobbin with a sensor, it contributes to the prevention of the outflow of defective products.



Remaining Bobbin Thread Detector

By detecting the remaining amount of thread in the bobbin with a sensor, it contributes to reducing the burden on the operator and preventing the occurrence of sewing defects.

