

Product Sheet

JACK A5E

Category: Industrial sewing machines

The JACK A5E is a straight-stitch machine with artificial intelligence that adapts to the fabric
The JACK A5E is a top-of-the-range lockstitch machine, featuring an AI chip, a dry head and an extra-large arm. The adaptive AMH2 system detects the fabric and automatically adjusts the machine whilst sewing – from extra-thin and stretchy fabrics to heavy-duty denim – without the need for manual adjustments.

- Artificial intelligence that adapts to the fabric
- Powerful motor with 11.3 Nm torque
- Dry head – no oil on the fabric

Product description

JACK A5E – intelligence in every stitch

The JACK A5E has been developed for production environments where materials vary and a consistent quality is required. The second-generation AMH2 system analyses the fabric and calculates the optimal settings, whilst the dual drive motor controls both piercing force and feed – fully automatically, without the operator needing to turn any knobs or press any buttons.

With 11.3 Nm of torque and a response time of 0.01 seconds, the machine has the power to sew through up to 18 layers of denim. The head is completely dry and only the gripper is lubricated, ensuring that oil never comes into contact with the fabric.

The new control panel brings together the most frequently used functions in an easily accessible way, and the voice guidance makes it easy to get started. The presser foot lift is controlled digitally across up to 13 levels directly from the panel, and the extra-large 305 mm arm provides space for large projects.

The JACK A5E is the perfect choice for businesses looking for an intelligent, powerful and clean straight-stitch machine for all types of fabric!

Description

- AMH2 Adaptive Material System – Detects the fabric and automatically adjusts the settings whilst sewing.
- Dual-core AI chip – Rapid analysis using 20 AI algorithms for optimal settings.
- Dual drive motor – 11.3 Nm torque and a response time of 0.01 seconds.
- High piercing power – Sews through up to 18 layers of denim.
- Dry head – No oil in the head; only the hook is lubricated, and a sealed oil tray protects against dust.
- Digital presser foot lift – Stepper motor-controlled with up to 13 levels, operated directly from the panel.
- Control panel with voice guidance – The most frequently used functions close at hand.
- Extra-large arm – 305 mm for large projects.

Technical Specification

Machine Specifications

• **Models**	• A5E-B and A5E-B-N – thin and medium-weight fabrics • A5E-B-7 – thin and medium-weight fabrics, 7 mm stitch length • A5E-B-H-7 – heavy fabrics, 7 mm stitch length
• **Needle system**	DB×1 #11–18 (A5E-B-H-7: DP×5 #18–21)
• **Number of strands**	2
• **Maximum stitch length**	5 mm (7 mm on the -7 models)
• **Press-up**	1–13 mm
• **Maximum speed**	5,000 stitches per minute (3,500 stitches per minute on the -7 models)
• **Engine**	Twin drive motors, 11.3 Nm
• **Arm's length**	305 mm
• **Dimensions**	690 × 295 × 550 mm