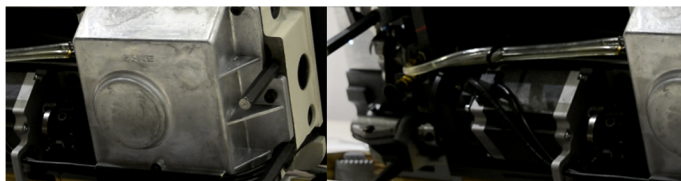


DY-9503-D5

DUKE

ADVANCED, INTELLIGENT DIRECT-DRIVE SINGLE-NEEDLE LOCKSTITCH SEWING MACHINE WITH UNDERBED THREAD TRIMMER



Sealed Oil Tank

Stepper Motor



Smart Auto Oil Drain

Hand Key for Reverse
Stitch

The Duke DY9503-D5 is a high-performance single-needle lockstitch machine engineered for modern garment manufacturing. Combining advanced mechanical design with intelligent electronic controls, it offers apparel factories precision stitching, reduced downtime, and major energy savings.

Special & Advanced Features

Advanced Stepper Motor Technology: Delivers precise feeding control, consistent stitch lengths, and ultra-quiet operation.

Sealed Oil Tank System: Eliminates the risk of oil stains on fabrics by replacing the traditional open oil pan with a fully enclosed reservoir, ensuring cleaner production.

Smart Auto Oil Drain: Automatically manages lubrication systems to prevent oil accumulation and simplify maintenance routines.

Ergonomic Hand Key for Reverse Stitching: Conveniently located right next to the needle bar, allowing operators to trigger backtacking instantly without breaking their workflow.

Integrated Direct-Drive Servo Motor: Built directly into the machine head to eliminate bulky external control boxes. Provides rapid responsiveness, instant start/stop, and precise needle positioner alignment.

Up to 70% Energy Savings: Highly efficient servo technology slashes power consumption by up to 70% compared to traditional clutch motors.

Integrated Workspace Enhancements: Features an adjustable LED sewing light to minimize operator eye fatigue and an ergonomic design that vastly reduces low-frequency noise and vibration.

9 type of pattern sewing design.

Specification parameter

Parameter	Specification	Engineering Benefit
Model	DY9503-D5	Single-needle intelligent lockstitch system
Sewing Speed	Up to 5,000 spm	Maximizes factory floor throughput and efficiency
Needle Type /	Size #11 – #18	Versatile configuration for light to heavy fabrics
Number of Needles	1	Standard single-needle straight stitching
Presser Foot Lift	5.0 mm – 13.0 mm	High clearance for handling thick layers or bulky hems
Machine Weight	25.5 kg – 35.5 kg	Robust, low-vibration cast body for smooth high-speed operation
Drive System	Inbuilt Direct-Drive Servo	Eliminates external belts, pulleys, and control boxes. reduce noise