

DY 1790

DUKE

Computer-Controlled High-Speed Lockstitch Buttonholing Machine



The Duke DY 1790 is a state-of-the-art solution designed for high-speed buttonholing Machine with unmatched precision. Featuring full electronic control over thread tension and drive mechanisms, it ensures a clean, professional finish on every garment.

Key Features

Electronic Active Tension: Features Duke's unique electronic thread tension control system for consistent stitch quality across different fabric weights.

30 Standard Stitch Patterns: Pre-programmed with 30 buttonholing patterns to handle diverse design requirements immediately.

Clean Sewing Technology: Advanced design eliminates oil stains on the sewing product, ensuring high-quality output.

Superior Finish: Includes a basting stitch mechanism effective for producing beautiful, reinforced buttonholes.

Precision Needle Throwing: Utilizes a stepping motor system with a precision of $\pm 0.05 \text{ mm}$ for perfectly aligned stitches.

Enhanced Operability: The frame shape is optimized for better handling, and sewing settings can be easily adjusted via the control interface.

Efficient Finishing: Delivers a shorter remaining length of bobbin thread on the material to reduce manual trimming.

Specification parameter

Model	DY 1790
Sewing Speed	Max 4,200rpm(Normal 3,600rpm)
Buttonhole Length	Max 41 mm(Optional: 70mm or 120mm)
Needle Bar Stroke	34.6mm
Cloth Cutting Knife	6.4 - 31.8mm (1/4" - 1-1/4")
Bar Tacking Width	Max 5.0mm
Pattern Memory	Up to 99 patterns can be input
Work Clamp Lift	14mm (Stepping motor auto-lifter included)
Drive System	Compact AC Servo Motor (Direct-Drive)
Needle Type	DP5 (#11J) #11J - #14J



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