



D-FA 420 M

FEED OF THE ARM MACHINE
WITH MOTION CONTROL SYSTEM



Website



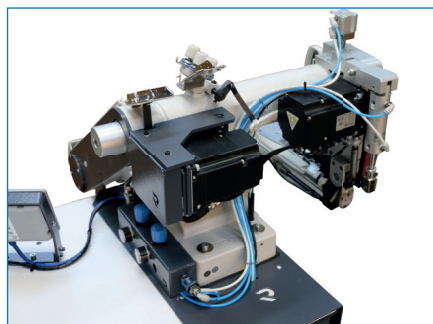
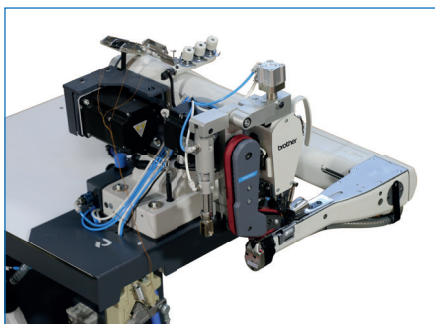
Youtube



PERFORMANCE

3500 - 4000 trouser bottoms / 8 hours

350 - 375 trouser bottoms / 1 hour



D-FA 420-M is a 3 needle, chain stitch Feed of the Arm automat specially designed for lap felling and/or double-lap seaming like yoke sewing, back seat, in-seam and side-seam operations for jeans, casual trousers in general, working clothes, denim jackets, etc.

The automatic unit is equipped with EtherCat servo control unit which is the latest technology in Robotics control and special feeding system which can check and guarantee the perfect synchronisation between the puller and the feed dog at any speed. It does that while keeping the fabric alignment and the stitch length perfectly constant, with the help of a fabric thickness sensor. Moreover the machine allows trimming at start and at the last chain ; making the fabric clean thanks to its special vacuum system positioned on the arm-end. The electronic, technical and operating functions are easily adjusted through the control panel.

ADVANTAGES

- **Extra Functions** : Pneumatic control of the pressure of the Stitching Foot on the fabric at the stitch start. & automatic sensing of thickness at the Stitch Cross points with the use of special sensors
- **Always High & Consistent Quality**: The bottom puller has two wheels and works in full synchronization with the sewing head which allows perfect feeding timing and smooth passage over overlapping pieces thus prevents pookering or waving specially on stretch fabrics. The special sensor detects the fabric thickness and pressure of the foot bar is automatically adjusted for avoiding skip stitch or stitch length irregularities.
- **Higher Productivity**: The unit 's speed is almost 5.000 rpm and accompanied with its smart puller system its productivity is unmatched. The unit will sew up to 5 inseams per minute.
- **Great Flexibility**: Different needle gauges provide maximum flexibility. The unit is produced to sew stretch materials but it is also possible to modify it by purchasing the heavy and light fabric conversion sets

TECHNICAL SPECIFICATIONS

- **Brother** DA9280 Direct Drive Sewing Head
- EtherCat servo control unit which is the latest technology in Robotics controls
- Equipped with Motion Controller CPU
- Head Motor: Omron AC Servo
- Puller Motor: Omron AC Servo
- Vacuum chain trimmer (optional)
- Pneumatic presser foot with sensor
- Pressure regulator

TECHNICAL DETAILS

Max. Sewing speed: 4.500 rpm
 Stitch length: 0,5 mm – 3,5 mm
 Stitch Type: 301 (Lockstitch)
 Connection Voltage: A.C. 230 V, 50/60 Hz
 Air source: 6 bar

DIMENSIONS

L: 115 cm / W: 132 cm / H: 145 cm
 Packing Size : 96 cm x 164 cm x 145 cm
 Machine Net Weight : approx. 170 kg
 Machine Gross Weight : approx. 200 kg

