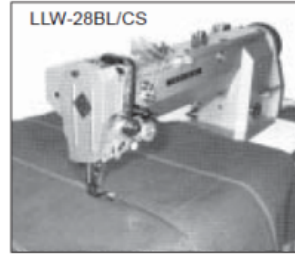


LLW / LLWH two needle series

Features

- 18 inch long arm.
- Large vertical axis hook.
- Semi-Automatic lubrication system.
- Automatic hook lubrication.
- Safety clutch prevents the hook from being damaged.
- Longer stitch length 10 mm (except thread trimming machine).
- Reverse stitching.
- Available in "Thick Thread Version"(for heavier material) add suffix "TA" when ordering.
- Synchronized cloth puller available (add suffix "R").
- Automatic back tack (BT) and foot lift (FL) available.
- Single needle version available.



Specifications (LLW-□)

Variety	28BL/CS	28BLC/CS	LLWH-28BL/CS
Number of needle	Two needle		
Max. sewing speed	2,200(s.p.m.)		2,000(s.p.m.)
Max. stitch length	25/64" (10 mm)	5/16" (8 mm)	25/64" (10 mm)
Clearance under presser foot	19/32" (15 mm)		
	5/16" (8 mm)		
Needle bar stroke	1-25/64" (35.4 mm)		
Needle(standard)	DPx17 (#22) , 135x17 (#140)		
Thread	#8 (standard)		
Hook	Large vertical axis hook		
Amount of lift of walking foot	3/32"-9/32" standard 9/64" (2.5 - 7 mm) (standard 3.5 mm)	1/8"-15/64" standard 5/32" (3 - 6 mm) (standard 4 mm)	3/32"-9/32" standard 9/64" (2.5 - 7 mm) (standard 3.5 mm)
Thread take up lever	Slide type		
Lubrication	Semi-Automatic lubrication		
Bed size	28-17/64" x 7" (718 x 177 mm)		
Working space	18-1/32" x 4-21/64" (458 x 110 mm)		18-1/32" x 6-3/16" (458 x 157 mm)
Motor	Clutch motor	AC Servo motor	Clutch motor
Net weight(Head only)	46Kg		53Kg

NOTE: (1) Speed depends on threads, materials and type of operation

(2) Specifications subject to change without notice

(*) Max. sewing speed for "TA" machines are 1600 s.p.m.

Needle gauge list

Variety	Needle gauge size
LLW-28BL/CS LLWH-28BL/CS	1/8"(3.2 mm), 3/16"(4.8 mm), 7/32"(5.6mm), 1/4"(6.4 mm), 5/16"(7.9mm), 3/8"(9.5mm), 7/16"(11.1mm) 1/2"(12.7mm), 9/16"(14.3mm), 5/8"(15.9mm), 3/4"(19.1mm), 7/8"(22.2mm), 1"(25.4mm), 1-1/4"(31.8mm) 1-1/2"(38.1mm) standard : 1/4"(6.4 mm)
LLW-28BLC/CS	3/16"(4.8 mm), 7/32"(5.6mm), 1/4"(6.4 mm), 5/16"(7.9mm), 3/8"(9.5mm), 7/16"(11.1mm), 1/2"(12.7mm) 9/16"(14.3mm), 5/8"(15.9mm), 3/4"(19.1mm), 7/8"(22.2mm), 1"(25.4mm) standard : 1/4"(6.4 mm)