



SUSTAINABLE FOOTWEAR SOLUTIONS

Upper Sewing Solutions

ONS represents advanced programmable stitching and welding machines featuring a range of automatic controls for process parameters, including automatic detection of the next program.

Orisol machines are seamlessly connected online to a cloud-based performance monitoring system via OPC-UA.

Equipped with a unique CAD editor, Orisol's sewing and welding systems enable online program editing.

Explanation about the Solution:

Upper stitching solution

New Computerized Stitching Machines

Sewing area (cm): 15 x 10 / 30 x 20 / 35 x 25 / 50 x 35, 2,800 RPM motor, auto tension control, programmable presser foot, bobbin changer to ensure high performance & productivity

NSCAD Software

NSCAD is the new generation of SewCAD, which enables the creating / editing both sewing and milling parameters, with an optimized, user-friendly interface designed, self-developed and fully owned by ORISOL with no extra cost to AutoCAD license

Intuitive HMI Operation Interface

10.1" WXGA touch screen, the largest in Shoe Industry with up to x50 magnification enables faster and much more accurate editing precision

Powerful Performance

Intel Quad Core Series processor with 4GB RAM enhances up to 20% more production efficiency to previous OCS generation

Smart Manufacturing

Compatible to Industry 4.0 standards & protocol



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Sewing Area:

- 15 x 10cm on 1510
 - 30 x 20cm on 3020
 - 35 x 25cm on 3525
 - 50 x 35cm on 5035
- Auto exchange loading pallets, bobbin changer*

*Available for specified models



ONS-1510



ONS-3020



ONS-3525



ONS-5035

	ONS-1510	ONS-3020	ONS-3525	ONS-5035
Max. sewing area [cm]	15 x 10	30 x 20	35 x 25	50 x 35
Computer processor	Intel Quad Core Series 3.0 GHz			
Max. sewing speed [RPM]	2,500	2,800		
Speed changing steps during sewing	24			
Feed mechanism	Intermittent feed, XY step motor drive, Z servo motor drive	Intermittent feed, Servo Motor Drive		
Stitch length [mm]	0.05 ~ 12.0			
Machine resolution [mm]	0.05			
Max. number of stitch per sewing pattern	9,998			
Max. sewing pattern#	unlimited			
Work clamp drive	Step Motor Drive	Pneumatic Drive		
Max. work clamp lift amount [mm]	25	30		
Tension control	Programmable tension control (0-127, Max.750g)			
Levels of presser foot[mm]	0-8.1 (0.1 step)			
Height of stepping presser foot [mm]	18			
Touch screen	10.1" WXGA			
I/O	USB 3.0 x 1 / USB 2.0 x 1 / WIFI / Ethernet			
Hook	Large size oscillating shuttle hook			
Data storage	SSD-64GB			
Bobbin changer	N/A	Optional	Standard	
Bobbin counter	Standard			
Motor[W]	Z moter 750W, XY step motor 3A	750		
Weight (Kgs)	165	230	380	1,050
Power supply	220VAC,50/60 Hz,single phase			
Air consumption [L/ min]	0.6			

*The information in this document is subject to change by Orisol without prior notice.