

INTELLIGENT PRODUCTION TECHNOLOGY

STRINGER TT1600 ECA

ADVANCED ADHESIVE TECHNOLOGY
FOR CRYSTALLINE CELLS



Innovative
Cell Connection
Technology

Innovative string production technology using electrically conductive adhesive



Adhesive application via screen printing



Well proven and clean process technology

STRINGER TT1600 ECA – A smart solution

The STRINGER TT1600 ECA has been designed for the high-output production of solar cell strings using innovative adhesive technology. Electrically Conductive Adhesive (ECA) enables the production of high performance solar modules.

With the STRINGER TT1600 ECA, a high performing and innovative development in high quality string production, teamtechnik reconfirms its role as the market leader in solar module production technology.

- + Reliable process technology with a proven standard STRINGER
- + Ideal for processing HJT high performance cells and busbarless cells
- + Possibility to use light capturing ribbons, LCR™
- + Lead-free adhesive technology
- + Cost-effective and economical production

TECHNICAL DATA OF STRINGER TT1600ECA

Connection technology	electrically conductive adhesive (ECA)
Cell technology, types	mono-/poly-crystalline, p-type, n-type, HJT, MWT, BC, IBC, busbarless (FS)
Cell alignment	optical alignment via camera & robot for busbar or edge positioning
Cell inspection	vision system (camera), detection of accuracy for cracks, broken edges and scratches: 0.4 x 0.4 mm
Number of interconnect ribbons	4 - 5 - 6 (as option)
Range of solar cells	125 x 125 mm - 156.75 x 156.75 mm (6"); full and half cells; changeover parts required; other cell sizes on request
Cell thickness processing capability	160 - 250 µm, 180 µm as standard
Ribbon spacing	min. 26 mm
Cell spacing (varies with cell size)	2.0 - 35.0 mm as standard
Max. length of strings	max. 2.000 mm, accuracy in length ± 1 mm
Throughput (5.8 W per cell, 22.5 h, 300/325/350 days p.a.)	max. 1.600 cycles/hour, 1.476 cells/hour for a 12 cell-string, 53/57/62 MW p.a.
Breakage rate	on cell thicknesses down to 180 µm, < 0.3 % (varies according to cell quality)
Ribbon sizes	width ≥ 1.0 mm; different sizes may require changeover parts
Technical availability	> 92% (VDI 3423)
Noise level	max. 72 dB(A)
Dimensions	8.0 m x 2.8 m x 2.4 m
Weight	6.000 kg
Electrical power requirement	27 kVA
Average power consumption (p. hour)	16.5 kW
Compressed air requirement	600 kPa (6 bar)
Compressed air consumption (at 1 bar)	0.7 Nm ³ /min
Changeover time for different numbers of ribbons	approx. 2 - 3 hours
Operator interface (HMI)	color touch screen with German/English/Chinese and other language options
Unloading system (Layup)	manual as standard or automatic with robot as available option
Warranty	12 months

teamtechnik Group



Headquarters

teamtechnik Maschinen und Anlagen GmbH
Planckstrasse 40, 71691 Freiberg, Germany
Phone +49 7141 7003-0, Fax +49 7141 7003-70
info@teamtechnik.com, www.teamtechnik.com

WE LIVE AUTOMATION

www.teamtechnik.com

