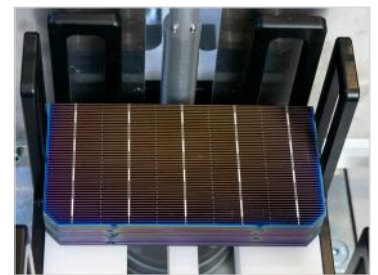
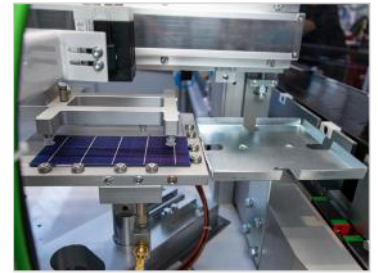


DATASHEET

ETS 700 - STRINGER MACHINE



CUT CELL
SOLDERING




CHARACTERISTICS

- PATENTED HYBRID SOLDERING TECHNOLOGY (HOT AIR & SOFT TOUCH)
- FROM THE SMALLEST CUT CELL: 30 x 156.75 mm TO THE BIGGEST FULL CELL 166 x 166 mm
- WAFER COMPATIBILITY: M2, G1, M4, M6
- BREAKAGE LESS THAN 0.2%
- COMPATIBLE WITH 5-6 BB AS STANDARD
- LOWEST POWER CONSUMPTION AND SMALLEST FOOTPRINT
- EASY INTEGRATION WITH ANY EXISTING LINE
- LOW COST OF SPARE PARTS AND CONSUMABLES
- CAMERAS FOR ALIGNMENT AND BROKEN CELL INSPECTION

CAPACITY
700
CELLS/HOUR

STANDARD



5&6 BUS BAR

OPTIONALS

2 TO 4 BUS BAR

For revamping

Z BENDING

CELLS INSPECTION

Camera for detection of broken cells before soldering



CELLINSPECTION

KIT FOR CUT CELLS





TECHNICAL SPECIFICATIONS

THROUGHPUT (4.5W/cell, 22.5 h, 300-330 days/year)	700 cells/hour; 20MW/year
TECHNICAL AVAILABILITY	>95%
SOLDERING TECHNOLOGY	Hybrid, hot air and soft contact combined in order to avoid thermal stress
CELL BASKET LOADING	Automatic, with double loading baskets
SOLAR CELL THICKNESS	160µm-300µm
RANGE OF CELL DIMENSIONS	Full cells: 156.75(M2) - 158.75(G1) - 161.7(M4) - 166 mm(M6)
RANGE OF CUT CELL DIMENSIONS	with Dedicated Kit: from 30mm - 78mm - 104mm - 135mm - to full size cell
CELL INSPECTION	Vision system for alignment - standard, micro-cracks detection - as optional
ALIGNMENT	Performed both optically and mechanically
RIBBON POSITIONING ACCURACY	± 0,1 mm
RIBBON SIZE	0.9 to 2 mm
BUS BAR COMPATIBLE	5 - 6 BB standard
SOLDERING TEMPERATURE	360°C
FLUX APPLICATION METHOD	Immersion
STRING LENGHT	Adjustable from 1 cell to 12 cells
DISTANCE BETWEEN CELLS	2mm ~ 35mm
CELL TO CELL DISTANCE ACCURACY	+/- 0.25 mm
STRING LENGTH ACCURACY	+/- 0.2 mm
OPERATORS REQUIRED	1 operator for 3 units
OPERATOR INTERFACE	User friendly touch-screen with different languages available
REMOTE ASSISTANCE	Provided with Internet connection
CHANGEOVER TIME FOR DIFFERENT BUS BAR	Approx. 30min
STRING FLIPPING DEVICE	Included on the unload belt

UTILITY SPECIFICATIONS

ELECTRICAL CHARACTERISTICS	
LINE	3P+N+E
VOLTAGE	400 V
FREQUENCY	50/60 Hz
PEAK POWER	10 kW
POWER CONSUMPTION	3 kW
MAX CURRENT	15A
PRE FUSE	20 A
AIR CHARACTERISTICS	
AIR PRESSURE	6 bar
AIR CONSUMPTION	520 NL/1'
AIR PEAK FLOW	700 NL/1'
AIR CONNECTION	1/4"
DIMENSIONS	
HEIGHT	1800 mm
LENGHT	3880 mm
WIDTH	1320 mm
CE WEIGHT	700 kg

* Available also with different voltages, according to criteria of the place of installation. To be defined at order if with implementation of transformers or with modification of the electrical board of the machine.