



## CHARACTERISTICS

- 6 AXIS ROBOT CAN MANAGE UP TO 1 ETS 4000
- CAPABILITY 180 MW/YEAR
- 2 CAMERAS FOR A PRECISE ALIGNMENT, ACCURACY  $\pm 0,1$  MM
- VACUUM SUCTION CUPS FOR STRING HANDLING
- FAILURE ANALYSIS FROM TOUCH-SCREEN
- MAXIMUM MODULE SIZE: 2300 X 1400 MM

CAPACITY  
**420**  
STRINGS/HOUR

**WORKS WITH** DIFFERENT  
CELLS & MODULE  
TYPES

## OPTIONALS

### CELL BREAKAGE SYSTEM: Additional camera system



### CUSTOMIZABLE Customization to handle bigger modules; I-V string measurements; EL test of the strings

### WORKS WITH: ETS 700; ETS 2500; ETS 4000



Images for illustrative purposes only



## TECHNICAL SPECIFICATIONS

|  |  |
|--|--|
| THROUGHPUT<br>(x1 ETS 4000, 6.2 W/cell, 22.5 h, 300 - 330 days/year) | 420 strings/hour (10cells/string);<br>180MW/year |
| POSITIONING ACCURACY   | ± 0,1 MM   |
| MODULE SIZE  | max. 2050 x 1200 mm                              |
| TECHNICAL AVAILABILITY   | > 95%  |
| CONTROLS   | Operator interface; PLC controlled               |
| BREAKAGE RATE  | Below 0,1%                                       |
| REMOTE ASSISTANCE  | Internet connection                              |

## UTILITY SPECIFICATIONS

| ELECTRICAL CHARACTERISTICS |          |
|----------------------------|----------|
| LINE                       | 3P+N+E   |
| VOLTAGE                    | 400 V    |
| FREQUENCY                  | 50/60 Hz |
| PEAK POWER                 | 15 kW    |
| MEAN POWER                 | 12 kW    |
| MAX CURRENT                | 25 A     |
| PRE FUSE                   | 50 A     |
| AIR CHARACTERISTICS        |          |
| AIR PRESSURE               | 6 bar    |
| AIR MEAN FLOW              | 15 NL/1' |
| AIR PEAK FLOW              | 10 NL/1' |
| AIR CONNECTION             | 1/4"     |
| DIMENSIONS                 |          |
| HEIGHT                     | 4000 mm  |
| LENGTH                     | 8000 mm  |
| WIDTH                      | 6000 mm  |
| WEIGHT                     | 1500 kg  |