

Framing + Crimping



PV solar modules framing and crimping inline or offline

- Framing and crimping PV modules in one station
- Unimpeded insertion of frame parts
- Automatic framing by means of strong servo drives for high precision
- Sensitive path / force monitoring, preadjustable
- Reproducible tolerance: +/- 1 mm
- Option: Subsequently crimp all 4 corners
- Firm joint due to high crimp force
- Compact and robust design for an efficient production
- With frame pre-assembly: pressing in 2 corner keys in 1 step, silicone dispensing



Description:

Pre-assemble, siliconize corner angles, insert frame parts, framing and optionally crimping at one workstation: The activities are divided cost-efficiently between operator and machine. While the framing machine feeds in and positions the next laminate, the operator prepares the frame parts at the pre-assembly workstation. Simple insert frame corners and short frame part into the machine, close the protective cover and the corners are automatically pressed in. The finished part can be withdrawn immediately. For quick siliconizing, the frame parts are always kept in the same position. Conveniently placed storage boards and tool rests facilitate the workflow. The operator can completely concentrate on his work. Compact machine design enables free access for insertion of frame parts and short distances. The operator can insert the frame parts freely without impediment. The mountings help the operator when positioning easily and precisely and retain the frame parts in their correct position. Long frame parts with excess length cannot be inserted; they must be sorted out. At the two-hand controls, the operator watches the servo drives automatically pushing the frame parts onto the laminate. Path/force monitoring precisely meets the preset frame dimensions and thus ensures high production accuracy. In case of faulty parts, force monitoring stops the motion. The operator can react directly and flexibly and repeat the process as often as necessary. Optionally,

all 4 corners may be crimped directly after the frame. With an inline or offline version for 1 or conversion to several module sizes, the framing / crimping machine can be flexibly integrated into your production.

Technical data:

- Module sizes: 60 cells or 72 cells
- Accuracy: +/- 1 mm
- Process time < 60 sec
- Independent control
- Compressed air supply 5 bar

Options/extensions:

- Inline/offline
- Several module sizes in one machine
- Crimping of corner angles
- Manual or automatic siliconizing