

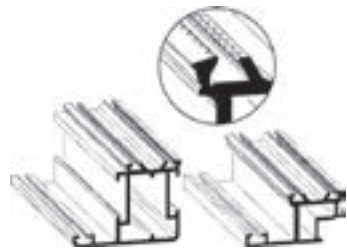


# Thermal break profile assembly equipments



## Concept of thermal break profile assembly

The process to perform thermal break profiles consists of three phases:



### 1<sup>st</sup> PHASE – KNURLING OPERATION

Knurling of the plastic bar grooves



### 2<sup>nd</sup> PHASE – BAR INSERTION

Insertion of the plastic bars in the grooves, previously knurled, so that the inner and outer aluminium shells of the profile are connected



### 3<sup>rd</sup> PHASE – ASSEMBLY

Crashing of the edges of the bar grooves by rolling to get a unique monolithic profile

## Machine

### AS 140 Z – Knurling machine

#### TECHNICAL DETAILS

- Nr 2 three-phase motors 0.55 Kw – 400 V – 50/60 Hz
- Safety device on cutter assembly in order not to overload the mechanical parts
- Bar feed speed : up to 235 m/min
- Transversal cutter adjustment by means of a single control device equipped with a decimal positioner
- Vertical cutter adjustment by means of two independent control devices equipped with decimal a positioner
- Machine overall dimensions : 1075 mm (a) x 1100 mm (b) x 1845 mm (c)
- Machine weight : 450 Kg



### AS 242 I – Plastic bar inserting device

(available also with automatic chargers AS 241 I)

#### TECHNICAL DETAILS

- 2 motors 0,55 kW – 400 V – 50/60 Hz
- Bar feed speed: up to 100 m/min
- Button for strips partial insertion into the lower shell
- Transversal bar guide adjustment by means of a single control device equipped with a decimal positioner
- Vertical bar guide adjustment by means of two independent control devices equipped with a decimal positioner
- Bar stop by choice through push-button control
- Machine overall dimensions: 1020 mm (a) x 825 mm (b) x 1450 mm (c)
- Machine weight: 280 Kg



### AS 221 GA – Thermal break profile assembly unit

#### TECHNICAL DETAILS

- Two-speed three-phase motor 0,7 – 1,1 kW – 380 V – 50/60 Hz
- Forward-reverse bar control
- Assembly discs adjustment by means of a single control device, equipped with a decimal display; every disc is provided with an independent device for the fine adjustment
- Vertical guide roller adjustment by means of a single control device, equipped with decimal positioner and pneumatic damper for slight differences among profiles
- Profile twisting correction: +/- 2 mm by eccentric roller
- Machine overall dimensions: 1410 mm x 1180 mm x 1580 mm
- Machine weight: 1.050 kg



AS – Thermal break profile assembly equipments