**MODULAR LINE CONFIGURATION**

- Sleever S16
- Plate infeed positive plates
- Plate infeed negative plates
- Leaf-type magazine
- Cell stacker

**TECHNICAL DATA**

**CHARACTERISTICS**
- **Performance**: up to 18 pairs of plates/min.
- **Plates**: tubular, flat, half negative
- **Plate Height (min, max)**: 150 - 630 mm
- **Plate Width (DIN, BS)**: 140 - 190 mm
- **Plate Thickness**: 2.5 - 10 mm

**LEAF-TYPE SEPARATOR**
- **Separator Width**: 140 - 190 mm
- **Separator Height**: 150 - 640 mm
- **Separator Thickness**: 1.3 - 1.8 mm

**SLEEVE SEPARATOR**
- **Separator Width**: 300 - 420 mm
- **Separator Thickness**: 1 - 1.8 mm

**MACHINE DIMENSIONS**
- Dimensions depend on machine configuration

**UTILITIES**
- **Air Pressure**: 6 - 8 bar
- **Electrical Power Consumption**: 55 kVA

**OPtIONS**
- Automatic loading
- Lug brushing
- False lug cutting
- Lug punching/cutting
- Lug milling
- Swivelling crane for plate loading
- Different vision systems for cell configuration check

**ELEMENT TRANSPORTATION OPTIONS**
- Turning tables
- Buffer places
- COSI interface
- Duplexing station

**UPGRADABLE CONFIGURATION**

Each line component is also available as an individual machine. Upgrade your industrial cell production to your required automation level.

**LEAF-TYPE MAGAZINES**

Plate separation can be achieved by sleewing or the use of leaf-type separation. The separator is transported and placed through vacuum feeding.

**CELL STACKING**

Precise plate and lug alignment ensures the best stacking results, which are essential for a high quality cast-on-strap process.

---

**IPS 16**

**INDUSTRIAL PLATE STACKER**

For Large Stationary and Traction Cell Production.
Most flexible machine for both DIN and BS battery elements with sleeve and leaf-type separators

Perfect plate and lug preparation (e.g. V-shape lug cutting) for high quality cast-on-strap operation.

Modular and upgradable machine concept - select your level of automation.

Quick and simple change-over with a minimum of manual effort.

High customization level of line configurations depending on your needs.

SEPARATOR TYPES
- PE sleeve type
- Leaf-type separator

SLEEVE PROCESS
- Sleeve cutting carried out with servo motor ensures synchronized knife and separator speed for tightest cutting tolerances.
- The mechanically crimped sleeve is:
  - space saving
  - material saving
  - cross section of a sleeve

SEPARATOR HANDLING
- An optimal ultrasonic welding station fixes the sleeve at the bottom bar of the positive plate.
- Spray marked separators are automatically rejected.

PLATE AND LUG PREPARATION
- The following plates can be processed:
  - positive tubular plates
  - positive flat plates
  - negative plates
  - 1/2 negative plates
  - track air positive plates

Options for lug preparation:
- lug cutting (e.g. V-shape)
- lug surface brushing
- lug surface milling
- false lug cutting

PLATE LOADING
- The plates can be loaded in stacks or as single plates.

LUG CUTTING
- Perfect centering for lug cutting is guaranteed.