

EPC 3x Modular Hydro Pneumatic Press System



General

For smaller and mid-size series of pressfit systems a flexible but at the same time very reliable press is required. This press is offering an economical method to assemble PCBs with different connector series by using the quick-change device for the press-in tools. Control of the press-in force via monitoring the limits for the press-in force on a Graphic-Display with Touchscreen.

Features

- Economical assembly of backplanes or daughter cards with all types of connectors.
- Maximum and minimum limit value for press-in force.
- Network integration for data export - Ethernet 10/100 Mbit/s.
- Lowerable tool base.
- High level of process reliability based on press-in force and PCB tolerance testing and monitoring.
- PCB thickness control unit.
- Sliding table.
- Database for connector and PCB data.
- Component specific press-in force control.
- Press-in force control and visualisation.
- Statistics of press-in process.
- 2 USB-Interfaces for printer, keyboard, mouse, bar-code reader.



Datenauswahl

Auftragsnummer	<input checked="" type="checkbox"/>	Kontaktart	<input checked="" type="checkbox"/>
Leiterplatten ID	<input checked="" type="checkbox"/>	Minimal Kraft	<input checked="" type="checkbox"/>
Leiterplatten Serien-Nr	<input checked="" type="checkbox"/>	Maximal Kraft	<input checked="" type="checkbox"/>
Stecker ID	<input checked="" type="checkbox"/>	Einpresskraft	<input checked="" type="checkbox"/>
Stecker Information	<input checked="" type="checkbox"/>	Einpressstatus	<input checked="" type="checkbox"/>
Lfd. Steckernummer	<input checked="" type="checkbox"/>	Datum/Uhrzeit	<input checked="" type="checkbox"/>
Stecker Positions-Nr	<input checked="" type="checkbox"/>		

Abbrechen OK

- Options can be configured individually:
 - Controller
 - Sliding table with 2 - 5 mm supporting edge
 - Lowerable tool base
 - Power package
- Fast, simple operation process with complete documentation.
- Comfortable, self-explanatory operation via touch-screen.
- Scanner fields can be defined individually (characters selected from a character string).
- Content of printout can be defined (selected from all recordable data).
- Several users can be set up with different authorizations.

ERNIcon 1,27 SMC male 180°	B	M	32	Erni EE 0,28 [Ercom] 1,0mm Ø
ERNIcon 2,0 ERmet female 90°	B/2		48	Erni EE 0,6x0,6 / 1,0mm Ø
ERNIcon 2,0 ERmet male 180°	B/3		64	Erni EE 1,0x1,0 / 1,6mm Ø
ERNIcon 2,54 DIN female 180°	C		96	Erni EN I/O 0,60 / 1,0mm Ø
ERNIcon 2,54 DIN male 180° [INV]	C/3		—	Erni EN short 0,30 / 1,0mm Ø
ERNIcon 2,54 Header male 180°	C2			
ERNIcon Power 180°	CD			
ERNIcon Sub-D 180°	D			
ERNIcon Sub-D 90°	E			
	E160			
	E80			
	F			
	H 11			
	H 15			

Werkzeuge: unten 47185 oben 471684

Eingressweg [mm] 4.0 5.0

Autom abse Ab 0 - Set Beend

Pressfit with process monitoring without programming:

- Part numbers entered directly (scanner field or touchscreen keypad).
- Connectors selected directly from the library.
- Connectors selected by class and features.
- Process limit values entered directly.
- Operation is visualized by force-displacement characteristics and display of operation limits.
- Log file for statistical analysis (not when entering operation limits directly).

EPC 3x Advantages of the EPC 3x Press System



Stecker daten

Stecker ID: 063232

Steckertyp: ERNIcon 2,54 DIN fem

Info: ERNIcon 2,54 DIN female 180° C 64

Kontaktart: Erni EE 0,28 (Ercom) 1,0m

Kontaktanzahl: 64

Minimal Kraft: 2240 N

Maximal Kraft: 4800 N

ID Unterwerkzeug: 471855

ID Oberwerkzeug: 471684

Gehäuselänge: 95.00 mm

Gehäusebreite: 10.60 mm

Einpressposition: undefiniert mm

Tisch Absenkung

Buttons: Neu, Abbrechen, Speichern

Connector library

- Includes: part number; info field; operation limits; tools;
- New items simple to add by class and features.



Pressing-in with BOM's / product programs

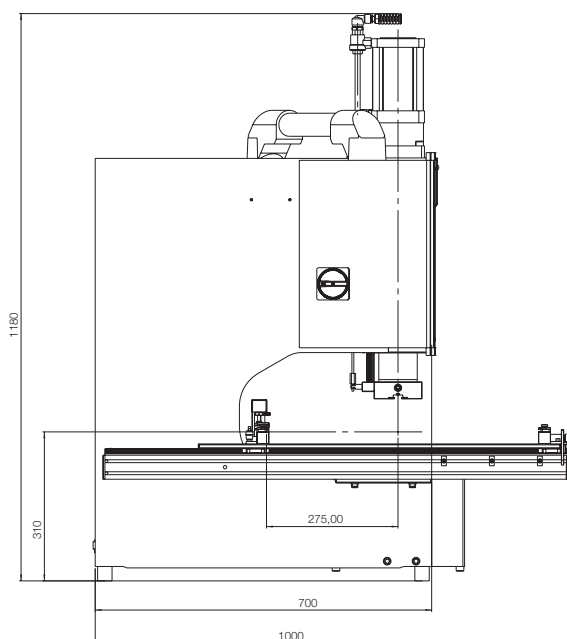
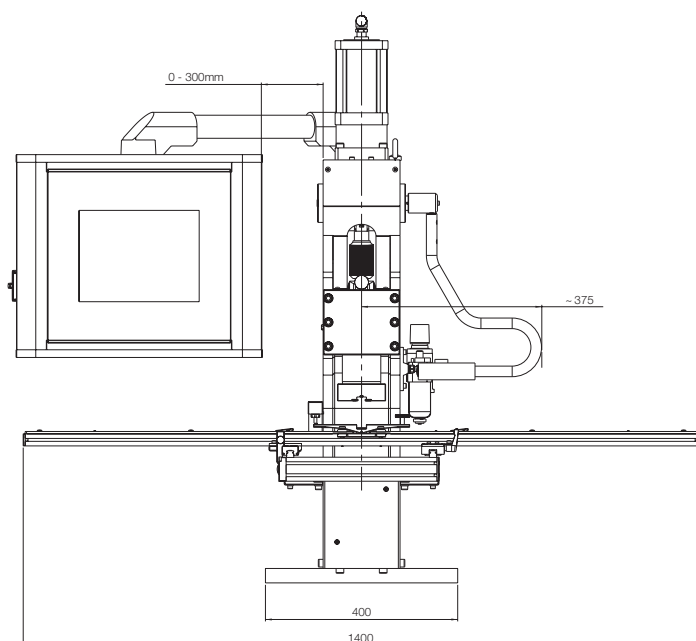
- Simple, fast programming.
- Diagram of the pressfit positions on the PCB.
- Additional monitoring options by envelopes.
- Complete documentation with order-related report (order number, serial number, connector position, ...).
- Graphic support when processing an order.
- Dynamic data can be recorded via scanner fields.

EPC 3x Electrical and Mechanical Data



- Size: Length: 1400 mm
Width: 1100 mm
Height: 1200 mm
- Weight: 320 kg
- Power supply: 230 V/50 Hz; 115 V/60 Hz
- Compressed air connection: 1/2"; max. 10.0 bar
- Press-in force (at 6.0 bar/optional): max. 10 KN
max. 30 KN (Standard)
max. 50 KN
max. 70 KN
- Total stroke of upper tool: 48 mm
- Power stroke: 4.1±0.2 mm
- Air consumption per stroke: app. 5 l

Dimensional Drawing



All dimensions in mm.

EPC 3x Preffered Configurations



EPC 33 - S0 - X

Press configuration:

- Power package 2 (30 KN at 6.5 bar)
- without sliding table
- with pneumatic control



EPC 33 - S1 - SH

Press configuration:

- Power package 2 (30 KN at 6.5 bar)
- with sliding table
- with lowerable table
- with PLC-Control



EPC 33 - S1 - PHD

Press configuration:

- Power package 2 (30 KN at 6.5 bar)
- with sliding table
- with lowerable table
- with PCB thickness control unit
- with PC-Control

EPC 3x Ordering Information



EPC 3 **3** - **S1** - **SH**

X = Pneumatic control
S = PLC
SH = PLC with lowerable table
PH = PC control with lowerable table
PD = PC control with PCB thickness control
PHD = PC control with lifting table and PCB thickness control

S0 = without sliding table
S1 = with sliding table

1 = Power package 1: 600 N 10000 N
3 = Power package 2: 1800 N ... 30000 N (Standard)
5 = Power package 3: 3000 N ... 50000 N
7 = Power package 4: 4500 N ... 70000 N