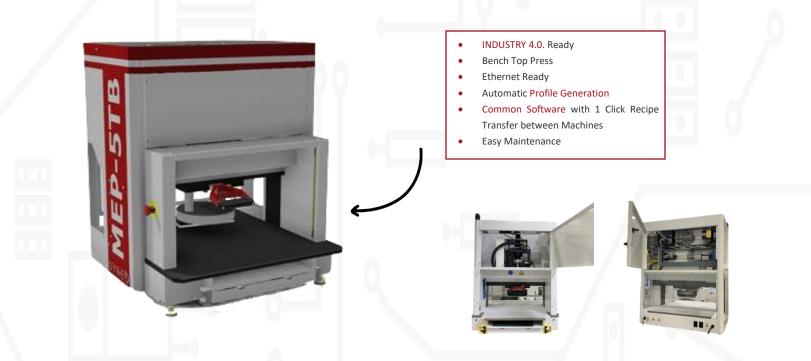
# CONNECTOR PRESS-FIT MACHINE MEP-5TB SEMI-AUTOMATIC ELECTRIC PRESS

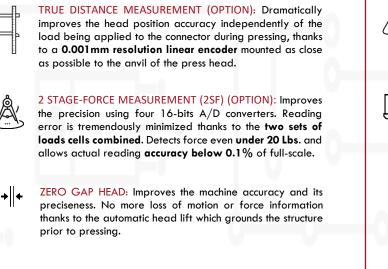
SYN·E·O



#### SYNEO'S EXPERT TEAM INNOVATES EVERYDAY TO ADDRESS YOUR PRESS CHALLENGES OF TOMORROW



#### **WHAT MAKES** S Y N $\cdot$ E $\cdot$ O **UNIQUE?** They are the <u>ONLY</u> machines on the market to combine these technologies



INSTANTANEOUS FEEDBACK: Our real-time press monitor allows the operator to be immediately made aware of a problem, such as a bent pin, or an incorrectly positioned connector, during the press cycle.

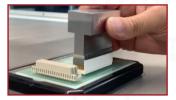


**INTUITIVE SOFTWARE SYSTEM:** User-friendly system with an **easy setup** (no complex profiles required), a powerful importing tool, fine tuning and **troubleshooting assistance**, integrated online help, **multi-language**, touchscreen, keyboard, and mouse.









### **TECHNICAL DATA**

MAX CONNECTOR SIZE 279 x 38mm (11"x 1.5") WITH OPTIONAL ROTATE ANVIL – 203 x 38mm (8"x 1 MACHINE FORCE 44kN (5 Tons) MACHINE DIMENSIONS 870x850x1120mm (34"x33"x45") OPENING BETWEEN COLUMNS 660mm (26") LOAD CELL 2 - (4 with 2SF package) ESTIMATED RECYCLE TIME 3-5 sec PRESSING TRAVEL DISTANCE 89mm (3.5") FORCE SYSTEM ACCURACY W/O 2SF 100 – 4500 N < 90N, 4.5kN-9kN < 5% of actual reading, 9-44kN < 220N WITH 2SF 100 – 4500 N < 90N, 4.5kN-9kN < 5% of actual reading, 9-44kN < 220N PRESSING HEAD MAX SPEED 10mm/s PRESSING HEAD MAX SPEED 10mm/s Z AXIS ACCURACY +/- 0.025mm (+/- 0.010mm with TDM) ELECTRICAL SUPPLY 110/240 VAC, 1ph, 15A, 50/60Hz AIR SUPPLY 80psi (0.6Mpa) dry air APPROX. CRATE WEIGHT 386 kgs (851Lbs) APPROX. CRATE DIMS. (W x L x H) 914x1245x1219mm (36"x49"x48")	5")
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#### TOOLING

CONNECTOR TYPE FIXTURE TYPE THICKNESS MEASURING TOOL

TEC / FLAT ROCK SUPPORT FIXTURE YES

#### **BASE MACHINE**

1	FRAME STYLE	Н
	PCB XT POSITIONING	MANUAL
	AIR TABLE WITH FOOT-SWITCH	YES
	PCB LOADING	MANUAL
	CONNECTOR LOADING	MANUAL
	TOOL CHANGE	MANUAL
	PRESS HEAD DRIVE	SERVO MOTOR
	SPEED, HEIGHT & FORCE CONTROL	YES
	HEAD GUIDE SHAFTS	2
	FORCE MONITORING	YES
	THICKNESS MEASURING	YES
	BAR CODE SCANNER	OPTION
1	ACCESS FOR MAINTENANCE	EASY DOOR OPENING
	SAFETY FEATURES	LIGHT CURTAIN – 2 HANDS SWITCH
	TOOLING POSITIONING	LASER
	LIGHT TOWER	OPTION







# CONNECTOR PRESS-FIT MACHINE

SYN.E.O

### MEP-8TL SEMI-AUTOMATIC ELECTRIC PRESS



#### SYNEO'S EXPERT TEAM INNOVATES EVERYDAY TO ADDRESS YOUR PRESS CHALLENGES OF TOMORROW



#### **WHAT MAKES** $S Y N \cdot E \cdot O$ **UNIQUE?** They are the <u>ONLY</u> machines on the market to combine these technologies

TRUE DISTANCE MEASUREMENT: Dramatically improves the head position accuracy independently of the load being applied to the connector during pressing, thanks to a 0.001 mm resolution linear encoder mounted as close as possible to the anvil of the press head.

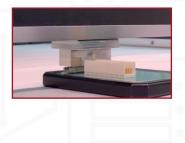
2 STAGE-FORCE MEASUREMENT (2SF) (OPTION): Improves the precision using four 16-bits A/D converters. Reading error is tremendously minimized thanks to the **two sets of loads cells combined**. Detects force even **under 20 Lbs**. and allows actual reading **accuracy below 0.1%** of full-scale.

ZERO GAP HEAD: Improves machine accuracy and preciseness. No more loss of motion and force information thanks to the automatic head lift which grounds the structure prior to pressing. INSTANTANEOUS FEEDBACK: Our real-time press monitor allows the operator to be immediately made aware of a problem, such as a bent pin, or an incorrectly positioned connector, during the press cycle.

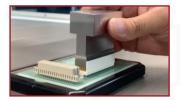


INTUITIVE SOFTWARE SYSTEM: User-friendly system with an easy setup (no complex profiles required), a powerful importing tool, fine tuning and troubleshooting assistance, integrated online help, multi-language, touchscreen, keyboard, and mouse.









### TECHNICAL DATA

MAX PCB SIZE	830 x 1060mm (33"x 42")
MAX CONNECTOR SIZE	279 x 38mm (11"x 1.5")
MACHINE FORCE	71kN (8 Tons)
MACHINE DIMENSIONS	1140x1070x1860mm (45"x42"x73")
OPENING BETWEEN COLUMNS	910mm (36″)
LOAD CELL	2 - (4 with 2SF package)
ESTIMATED RECYCLE TIME	3-5 sec
PRESSING TRAVEL DISTANCE	134,6mm (5.3")
FORCE SYSTEM ACCURACY W/O 2SF	100 – 4500 N < 90N, 4.5kN-45kN <5% of actual reading, 45-71kN < 450N
WITH 2SF	10 – 4500 N < 40N, 4.5kN-45kN < 5% of actual reading, 45-71kN < 450N
PRESSING HEAD MAX SPEED	25mm/s
PRESSING HEAD MIN SPEED	0.025mm/s
Z AXIS ACCURACY	+/- 0.025mm (+/- 0.010mm with TDM)
ELECTRICAL SUPPLY	208/240 VAC, 1ph, 15A, 50/60Hz
AIR SUPPLY	80psi (0.6Mpa) dry air
APPROX. CRATE WEIGHT	907kgs (2000Lbs)
APPROX. CRATE DIMS. (W x L x H)	1143x1650x2260mm (45"x65"x89")

### TOOLING

CONNECTOR TYPE FIXTURE TYPE THICKNESS MEASURING TOOL

TEC HHH / FLAT ROCK SUPPORT FIXTURE YES

#### **BASE MACHINE**

	FRAME STYLE PCB XT POSITIONING AIR TABLE WITH FOOT-SWITCH PCB LOADING CONNECTOR LOADING TOOL CHANGE PRESS HEAD DRIVE	H MANUAL YES MANUAL MANUAL SERVO MOTOR
	TOOL CHANGE	MANUAL
	SPEED, HEIGHT & FORCE CONTROL	YES
	HEAD GUIDE SHAFTS FORCE MONITORING	2 YES
	THICKNESS MEASURING BAR CODE SCANNER	YES OPTION
	ACCESS FOR MAINTENANCE SAFETY FEATURES	EASY DOOR OPENING LIGHT CURTAIN – 2 HANDS SWITCH
	TOOLING POSITIONING LIGHT TOWER	LASER OPTION
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## CONNECTOR PRESS-FIT MACHINE MEP-8TM SEMI-AUTOMATIC ELECTRIC PRESS

SYN.E.O



#### SUNEO'S EXPERT TEAM INNOVATES <u>EVERYDAY</u> TO ADDRESS YOUR PRESS CHALLENGES OF TOMORROW • NUSTRY 4.9. Ready • 1 Munici Profile Generation • 1 Munici Profi

### **WHAT MAKES** S Y N·E·O **UNIQUE?** They are the <u>ONLY</u> machines on the market to combine these technologies

TRUE DISTANCE MEASUREMENT: Dramatically improves the head position accuracy independently of the load being applied to the connector during pressing, thanks to a 0.001mm resolution linear encoder mounted as close as possible to the anvil of the press head.

2 STAGE-FORCE MEASUREMENT (2SF) (OPTION): Improves the precision using four 16-bits A/D converters. Reading error is tremendously minimized thanks to the **two sets of loads cells combined**. Detects force even **under 20 Lbs**. and allows actual reading **accuracy below 0.1%** of full-scale.

ZERO GAP HEAD: Improves machine accuracy and preciseness. No more loss of motion and force information thanks to the automatic head lift which grounds the structure prior to pressing.

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press cycle.

INTUITIVE SOFTWARE SYSTEM: User-friendly system with an easy setup (no complex profiles required), a powerful importing tool, fine tuning and troubleshooting assistance, integrated online help, multi-language, touchscreen, keyboard, and mouse.

INSTANTANEOUS FEEDBACK: Our real-time press monitor allows

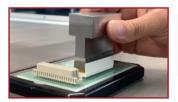
the operator to be immediately made aware of a problem, such

as a bent pin, or an incorrectly positioned connector, during the









### **TECHNICAL DATA**

MAX PCB SIZE	680 x 910mm (27"x 36")
MAX CONNECTOR SIZE	279 x 38mm (11"x 1.5")
MACHINE FORCE	71kN (8 Tons)
MACHINE DIMENSIONS	980x930x1870mm (39″x37″x74″)
OPENING BETWEEN COLUMNS	760mm (30″)
LOAD CELL	2 - (4 with 2SF package)
ESTIMATED RECYCLE TIME	3-5 sec
PRESSING TRAVEL DISTANCE	134,6mm (5.3″)
FORCE SYSTEM ACCURACY W/O 2SF	100 – 4500 N < 90N, 4.5kN-45kN < 5% of actual reading, 45-71kN < 450N
WITH 2SF	10 – 4500 N < 40N, 4.5kN-45kN < 5% of actual reading, 45-71kN < 450N
PRESSING HEAD MAX SPEED	25mm/s
PRESSING HEAD MIN SPEED	0.025mm/s
Z AXIS ACCURACY	+/- 0.025mm (+/- 0.010mm with TDM)
ELECTRICAL SUPPLY	208/240 VAC, 1ph, 15A, 50/60Hz
AIR SUPPLY	80psi (0.6Mpa) dry air
APPROX. CRATE WEIGHT	850 kgs (1866Lbs)
APPROX. CRATE DIMS. (W x L x H)	1143x1473x2260mm (45″x58″x89″)

#### TOOLING

CONNECTOR TYPE FIXTURE TYPE THICKNESS MEASURING TOOL

TEC HHH / FLAT ROCK HHH

#### **BASE MACHINE**

1	FRAME STYLE	н
	PCB XT POSITIONING	MANUAL
1	AIR TABLE WITH FOOT-SWITCH	YES
	PCB LOADING	MANUAL
	CONNECTOR LOADING	MANUAL
	TOOL CHANGE	MANUAL
	PRESS HEAD DRIVE	SERVO MOTOR
	SPEED, HEIGHT & FORCE CONTROL	YES
	HEAD GUIDE SHAFTS	2
	FORCE MONITORING	YES
	THICKNESS MEASURING	YES
	BAR CODE SCANNER	OPTION
1	ACCESS FOR MAINTENANCE	EASY DOOR OPENING
	SAFETY FEATURES	LIGHT CURTAIN – 2 HANDS SWITCH
	TOOLING POSITIONING	LASER
	LIGHT TOWER	OPTION





