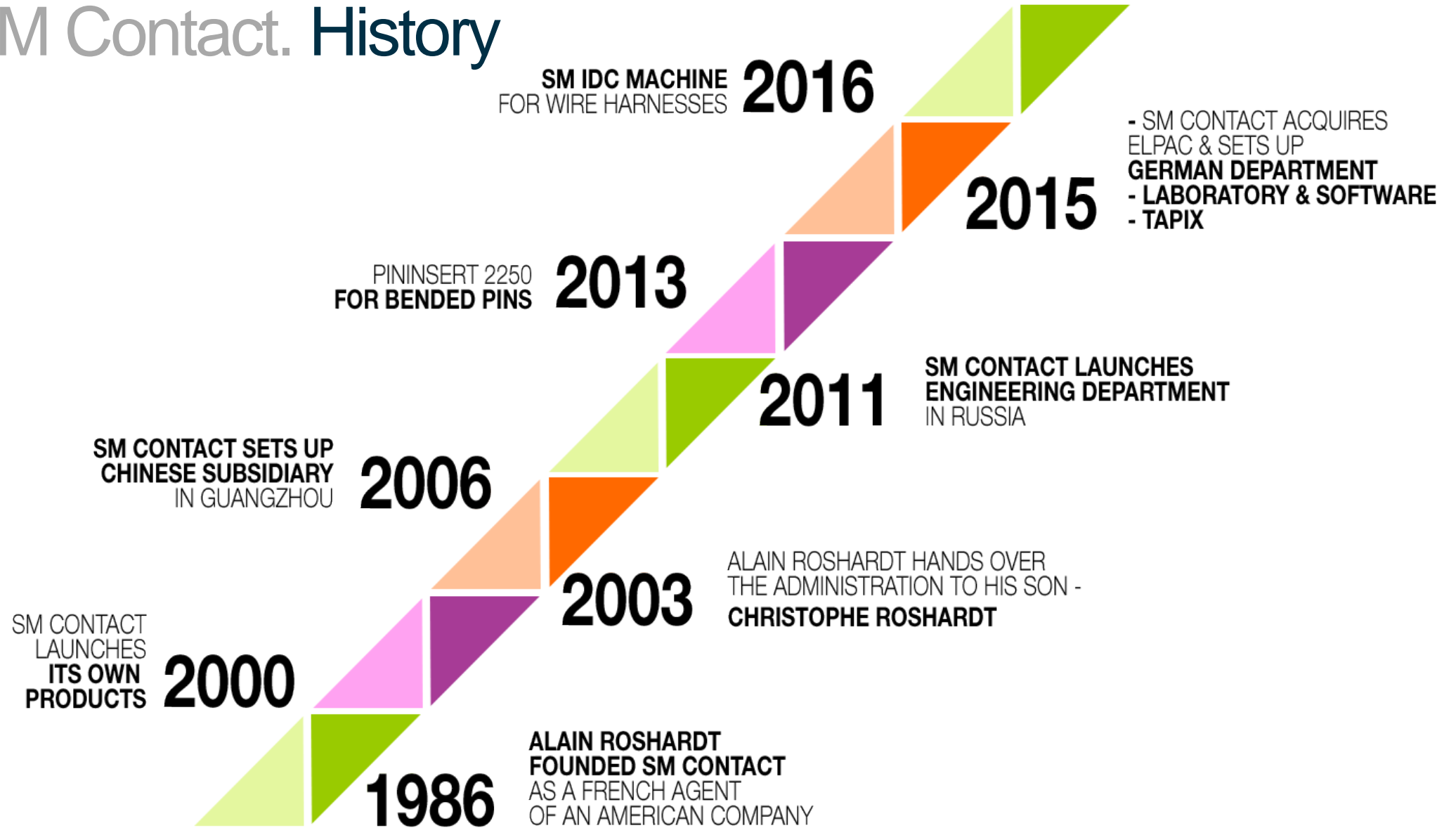




SPLICE • NANOSPlice  
PINS • PRESSFIT TECHNOLOGY



# SM Contact. History





# SALES DEPARTMENT

France, China, Russia,  
Germany & Spain

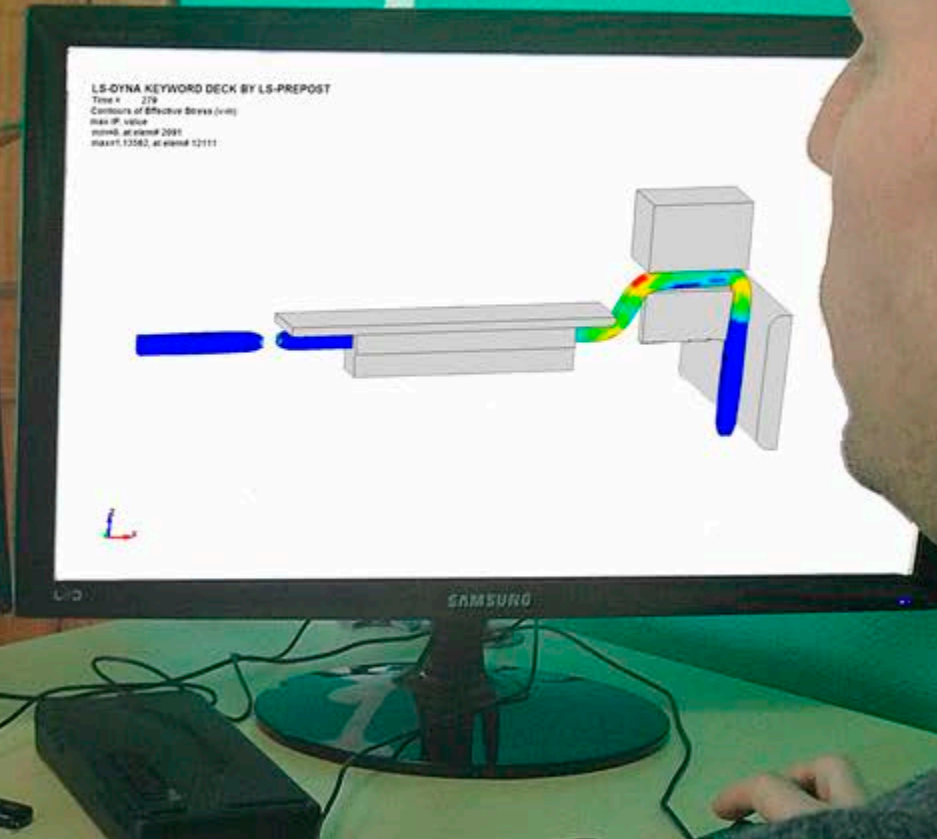
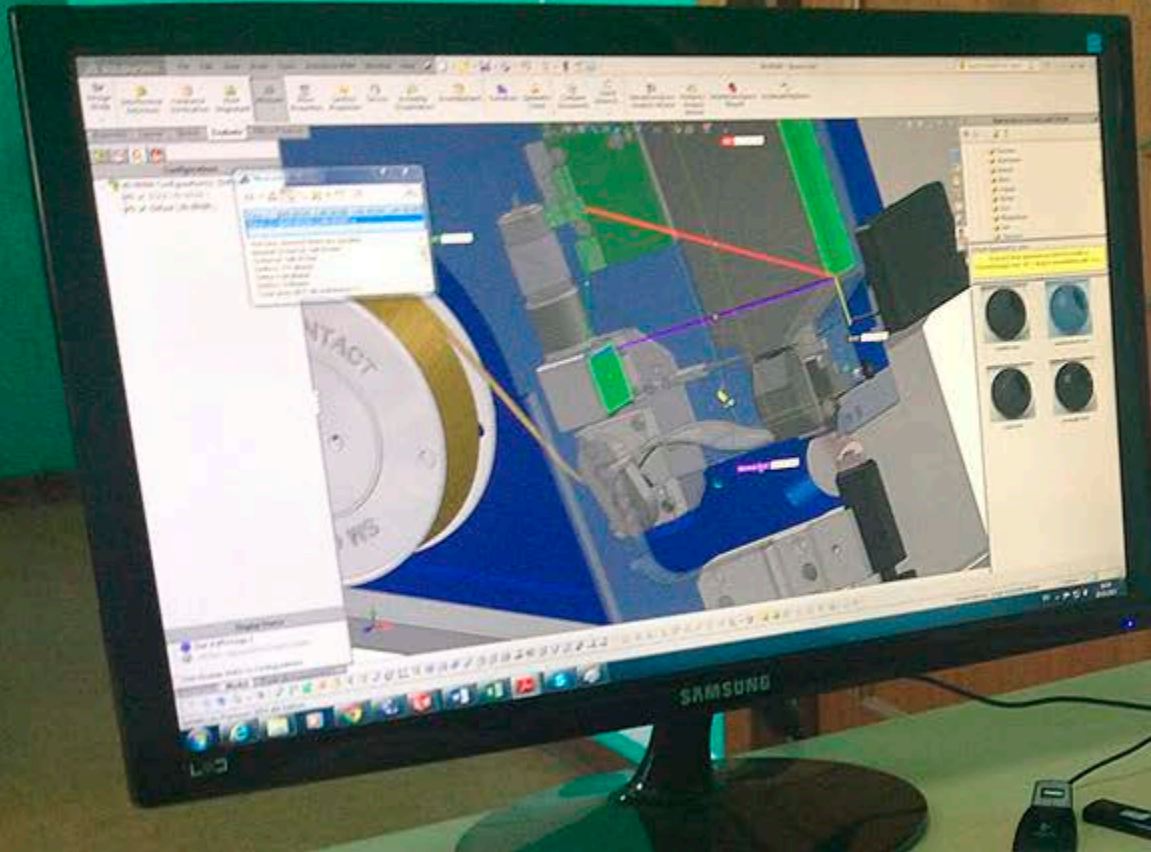




# PRODUCTION & ASSEMBLY DEPARTMENT

France, China, Russia,  
Germany & Spain

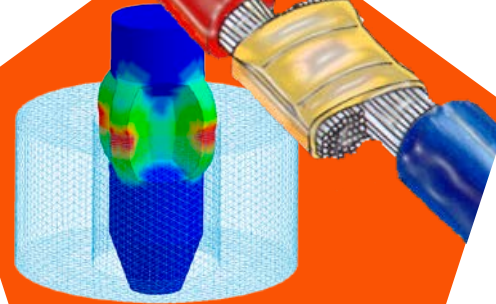




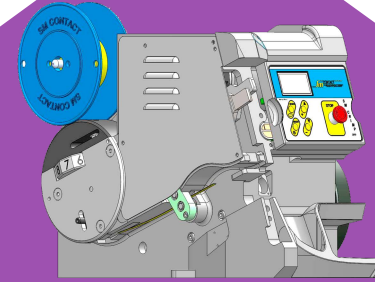
ENGINEERING DEPARTMENT

Russia

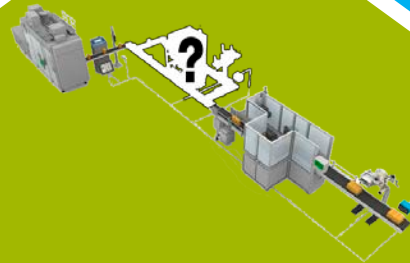
# OUR SERVICES



CONNECTION  
DESIGN



EQUIPMENT  
DESIGN &  
MANUFACTURING



EQUIPMENT  
INTEGRATION INTO  
PRODUCTION LINE

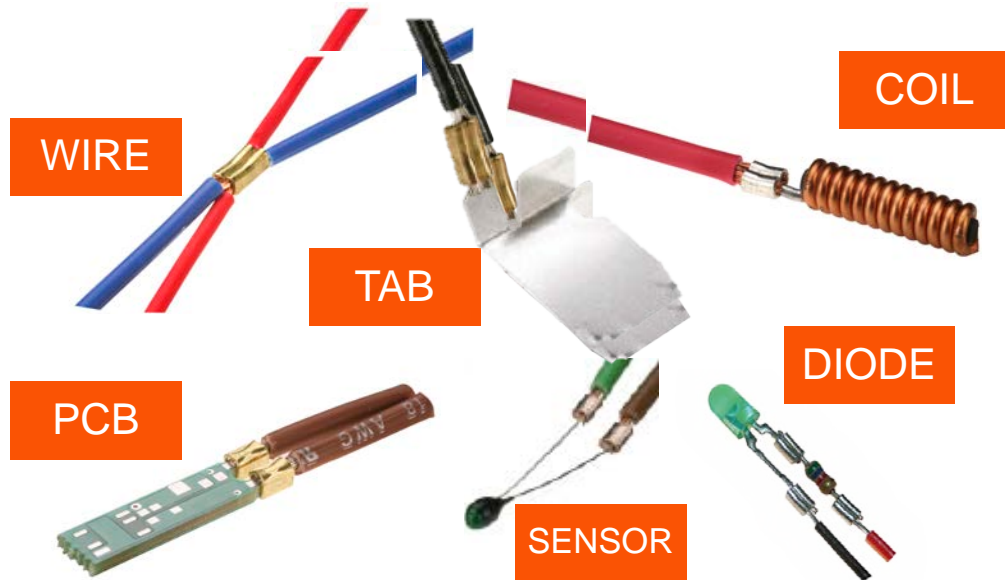


**SPlice  
CONNECTIONS**

# WHAT IS SPLICE CONNECTION?

## Splice

Connection between two or more components of any type.



## Crimp

Connection between wire and terminal ONLY.





# WHAT IS SPLICE CONNECTION?

## COMPONENTS

- WIRE
- PCB
- COIL
- PLASTIC CONNECTOR
- SENSOR
- DIODE
- RESISTOR
- CAPACITOR
- ETC.

## MATERIALS

- BRASS
- TINNED BRASS
- COPPER NICKEL
- BRONZE
- STAINLESS STEEL
- ETC.

## APPLICATIONS

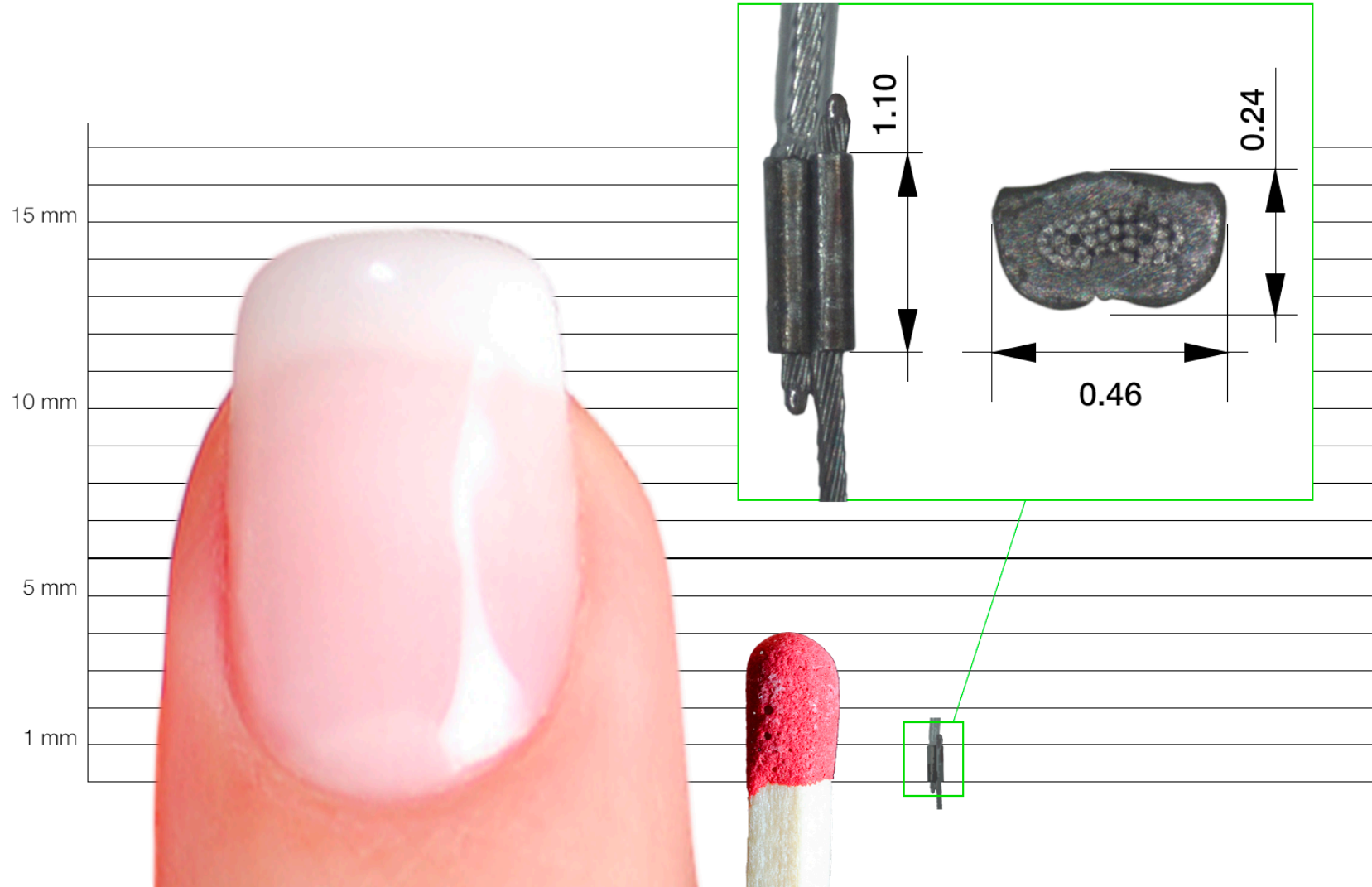
- AUTOMOTIVE
- MEDICAL INDUSTRY
- MASS MARKET
- RAILWAY
- CONSTRUCTION
- HOUSEHOLD APPLIANCES
- ALTERNATIVE ENERGY
- ETC.



# DEVELOPMENT EXAMPLE ◦ NANOSPlice

ENTER THE WORLD OF  
INVISIBLE

CONNECT WITH  
NANOSPlice



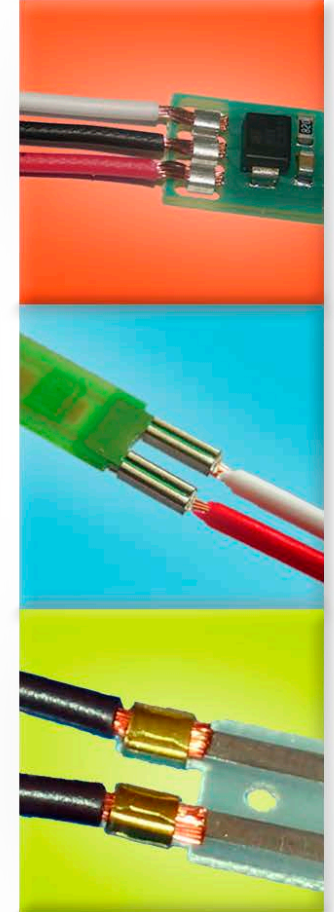
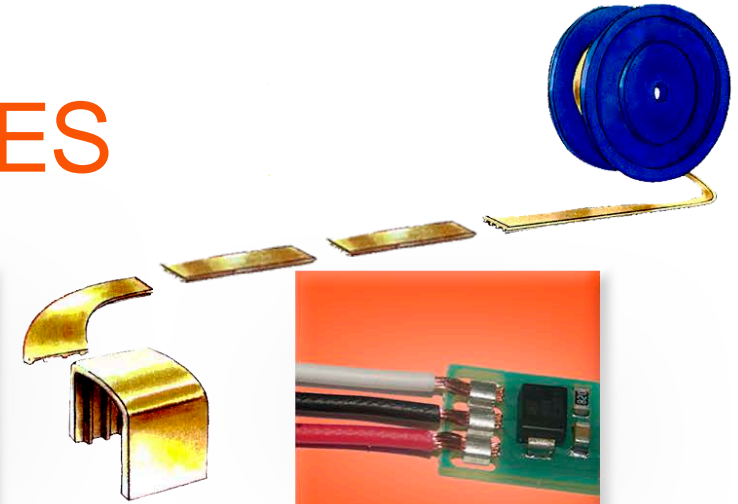
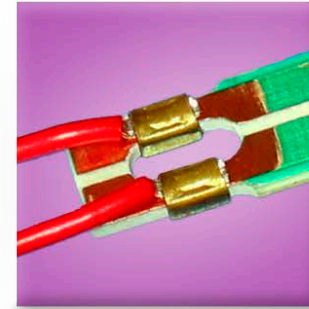
# SPLICE CONNECTIONS. ADVANTAGES



## 1 Space saving

Standard connectors are unacceptable as concerns to saving space.

Splice allows to make flat connection with minimum dimensions – ideal for sensors, bulbs, heating elements, etc.



## 2 Universal

It is possible to perform various connections using the same splice band and varying tooling.

The tool cassette can be prepared to cover a wide range of cross-sections, e.g. 0.5-1.5 mm<sup>2</sup>.



# SPLICE CONNECTIONS. **ADVANTAGES**



## 3 Quality control

- Splice connection professional qualification;
- In-line quality control: Crimp Force Monitor, components position and color camera control, Poka Yoke;
- Laboratory equipment: EPT 1000, SK 4000 & SK 6000.

## 4 Easy to go

Thanks to automation it's possible to make up to 1000 splices per hour without any experience in splicing.

## 5 No soldering

Crimp connection doesn't involve heating and thus is more resistant to bending and vibrations.

## 6 Cost-efficient

Spare parts replacement each 300 000 – 3 000 000 assemblies depending on spares type

# SPLICE CONNECTIONS VS. TERMINALS

## SM Contact splice crimping

- 1 Customized connections defined by engineering office
- 2 Up to 20% cheaper
- 3 Easy tooling accessibility for manual and automatic processing

## Standard Terminals (KOSTAL®, SUMITOMO®)

- 1 Standard terminals from catalogue. For specific design – tooling manufacturing is required.
- 2 High price
- 3 Difficult tooling accessibility for manual and automatic processing

# SPLICE CONNECTIONS VS. WELDING

## SM Contact splice crimping

- 1 Process expenses
  - a Equipment: standard or automatic
  - b Spare parts: tooling
  - c Splice band material
  - d No special qualification for operation

---

- 2 Stable production parameters
  - a Mechanical system
  - b Combined with Crimp Force Monitoring
  - c FPC (Full Process Control): possible analyze after production

## Welding (laser, spot)

- 1 Process expenses
  - a Equipment
  - b Spare parts: electrodes
  - c Gas
  - d Qualified employees

---

- 2 High production parameters survey required
  - a Temperature
  - b Intensity and timing
  - c Pressure
  - d No possible analyze after production



# SPLICE CONNECTIONS VS. WELDING

## SM Contact splice crimping

- 3 Contact quality and flexibility
  - a Good and repeated contact resistance
  - b Good behavior under vibrations
  - c Components mechanical properties respect
  - d Components material and surface treatment can be different
  - e Components dimensions can be different

---

- 4 Environment and accessibility
  - a Mechanical process
  - b Energy consumption: 400W (only while crimping)

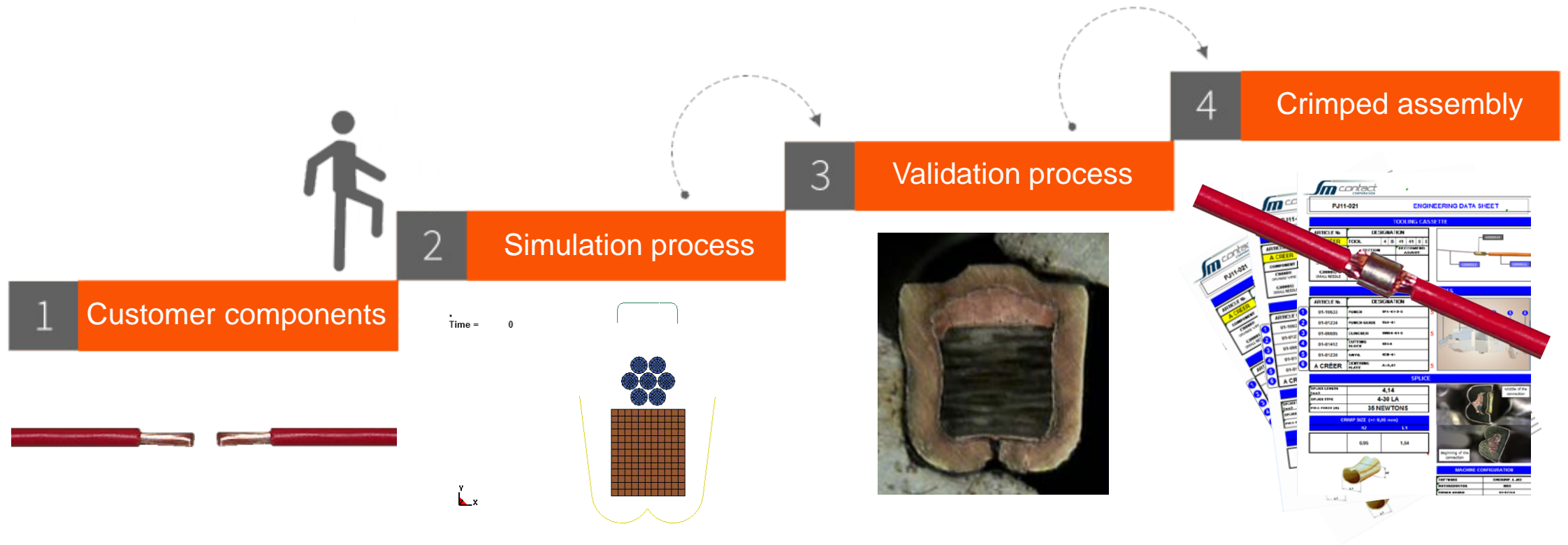
## Welding (laser, spot)

- 3 Contact quality and flexibility
  - a Potential damages in case of vibrations
  - b Burning risks
  - c Components mechanical properties modification
  - d Components material and surface treatment to be identical
  - e Components dimensions to be similar

---

- 4 Environment and accessibility
  - a Chemical process: generates smoke
  - b Energy consuming

# SPLICE CONNECTIONS. ENGINEERING EXPERTISE



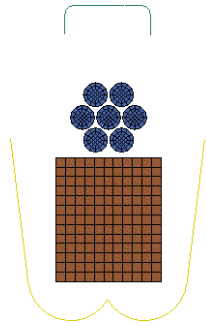
1 Customer components



2 Simulation process

Time = 0

x  
y



3 Validation process



4 Crimped assembly

**ENGINEERING DATA SHEET**  
PJ11-021

REV.	DATE	DESCRIPTION
01	01-2013	ISSUE FOR PRODUCTION
02	01-2013	REVISION
03	01-2013	REVISION
04	01-2013	REVISION
05	01-2013	REVISION
06	01-2013	REVISION
07	01-2013	REVISION
08	01-2013	REVISION
09	01-2013	REVISION
10	01-2013	REVISION

**CRIMP SIZE (+/- 0,05 mm)**

0,95	1,04
------	------

**MECHANICAL PROPERTIES**

CONDUCTOR	AWG 22
INSULATION	PVC
TEMPERATURE	90°C
CONDUCTIVITY	58 MS/M



**SPLICE  
EQUIPMENT**



## STANDARD TOOLING

1. SPLICE BAND UNREELER
2. CRIMP HEIGHT ADJUSTMENT
3. BAND FEEDING SYSTEM
4. CONTROL PANEL
5. WHEEL FOR MANUAL CYCLE

## 6. CRIMPING TOOL:

Quick-change tooling cassette can be changed within 1 minute

Clincher with a pre-defined position doesn't require height adjustment

Finger guard lighting cap guarantees easy & safe operation

Splice length control sensor

## OPTIONS



Crimp Force Control monitor STARLITE

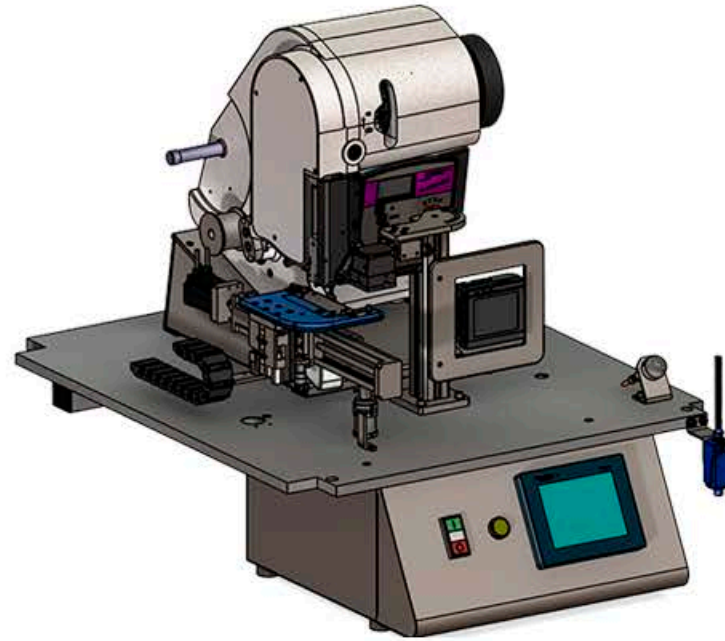
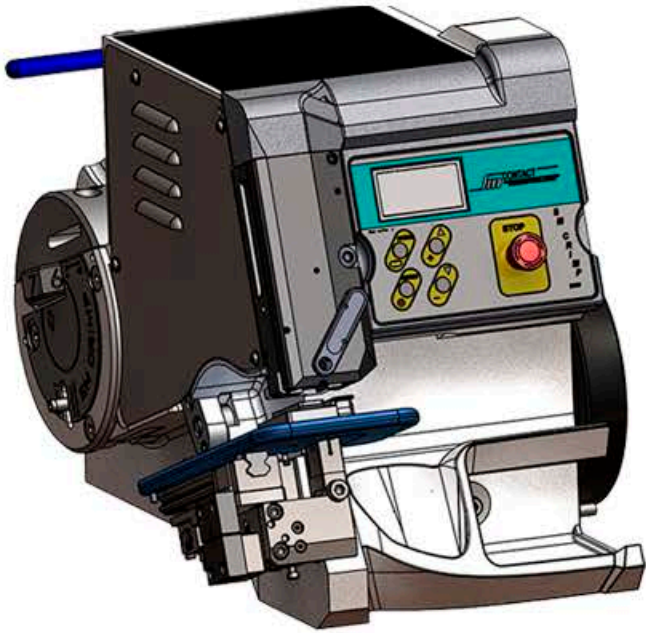


Component position video verification

# SM CRIMP 2000

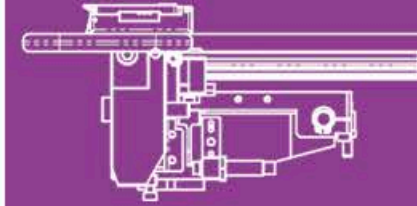
STANDARD

## 1. SM CRIMP 2000 W/ MANUAL FIXTURE



## 2. SM CRIMP 2000 W/ AUTOMATIC FIXTURE

### MANUAL FIXTURE



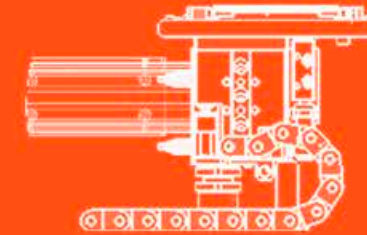
Allows accurate positioning of the components

Fine adjustment of the height position of components

Prevents double crimps in the same position

Improves quality

### AUTOMATIC FIXTURE



Allows preparing jigs to preload the components while the machine is in process

Controlled by servo motor for accurate positioning

Guarantees fast operating

# SM CRIMP 2000

## ADVANCED



## UNITS

- Fixture
- Transfer
- Crimp Force monitor
- Camera control & screen

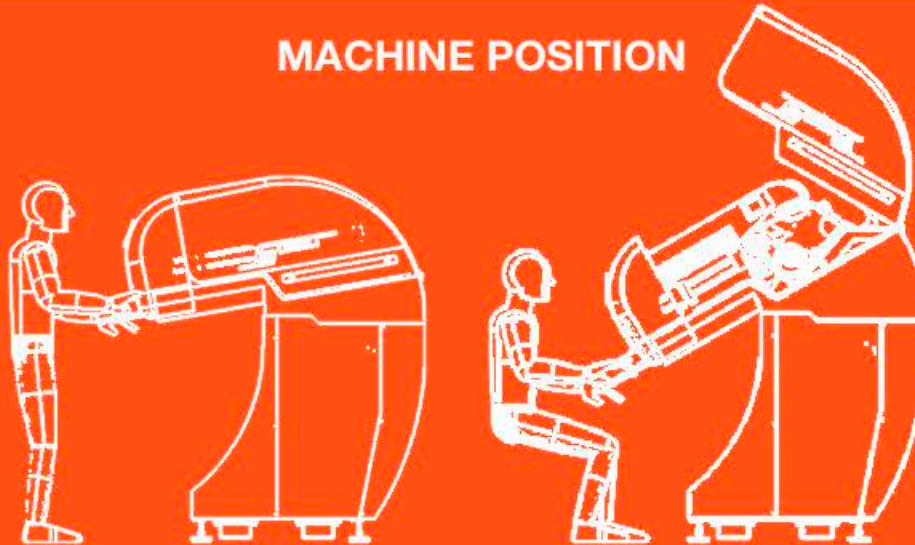
## OPTIONS

- Stripping unit
- Poka Yoke

## TURN KEY SOLUTION STRIPPING + CRIMPING

- Solid cast machine frame
- Tooling cassette
- Motorized feeding system
- 100% process control

## MACHINE POSITION

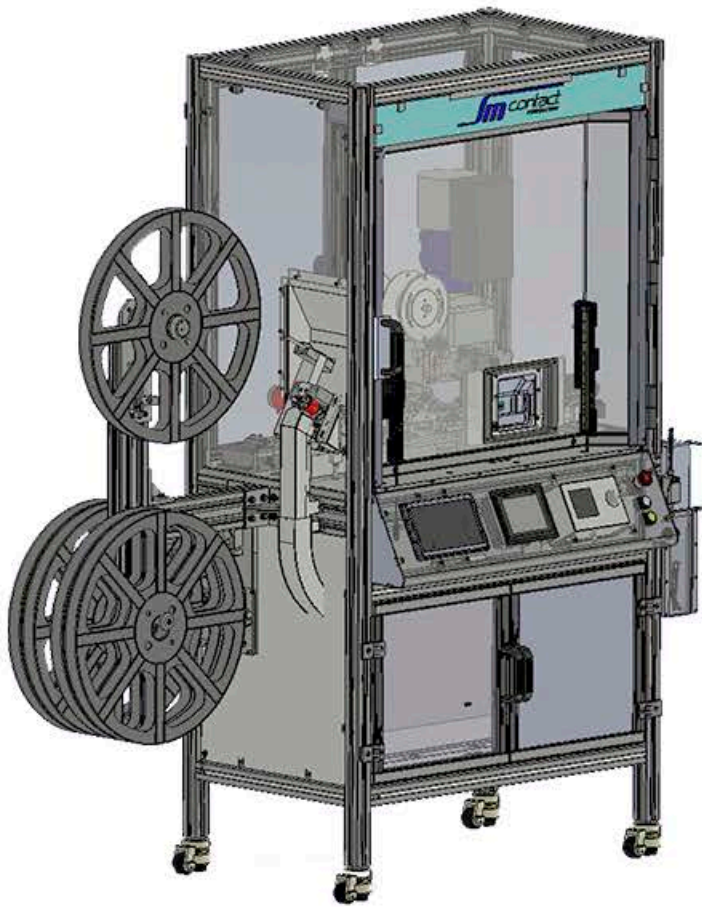


## HIGHLY PRECISE POSITIONING

BEFORE PROCESSING  
CONNECTION SCS MAKES  
REFERENCES TO  
THE COMPONENTS

# SPLICE CRIMPING STATION (SCS)





PLASTIC PRESS-FIT INTERFACE  
ON EMBOSSED CARRIER TAPE



WIRES  
SINGLE-CORE  
AUTOMOTIVE CABLES

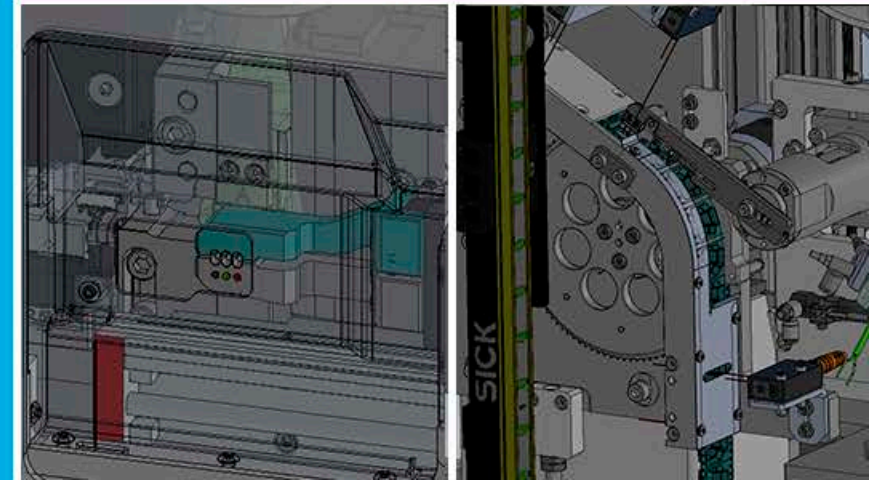
## FEATURES

- Press
- Applicator
- Stripping unit

## OPTIONS

- Components position & color control
- CFM
- Vibrating bowl feed
- Component to press transfer
- HMI

Complete automatic machine time:  
**6-7 sec.**

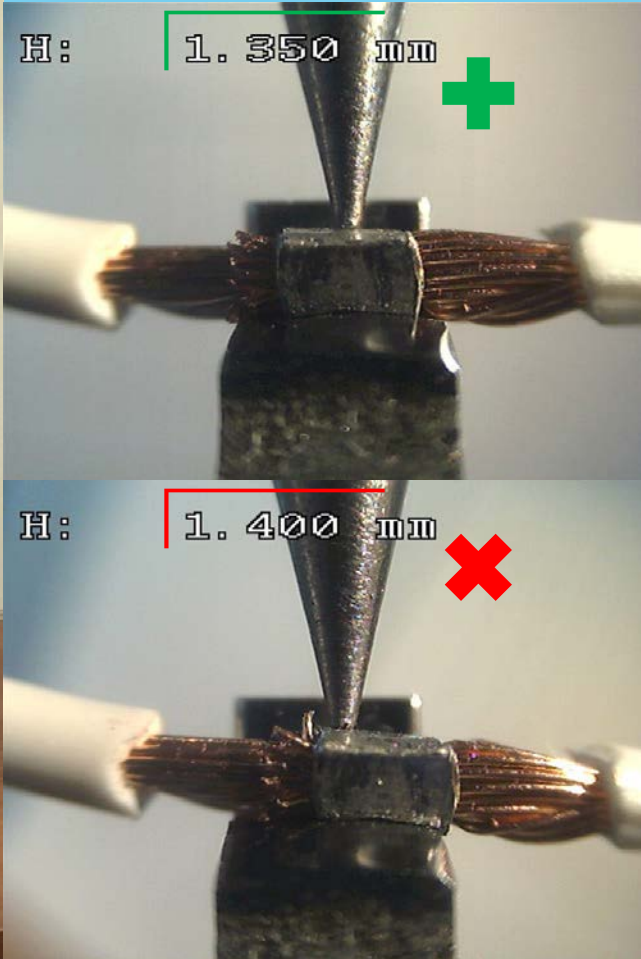


# HIGH-SPEED SPLICE CRIMPING STATION (HSCS)



**SPLICE QUALITY  
CONTROL**





- Holder shape adapted to the crimp - reliable positioning
- Camera & monitor positioning control
- Height digital dial indicator
- Results wifi transfer to VISO software
- VISO software for CPK calculations
- SD-card

SPLICE QUALITY CONTROL

CRIMP HEIGHT  
MEASUREMENT  
TOOL

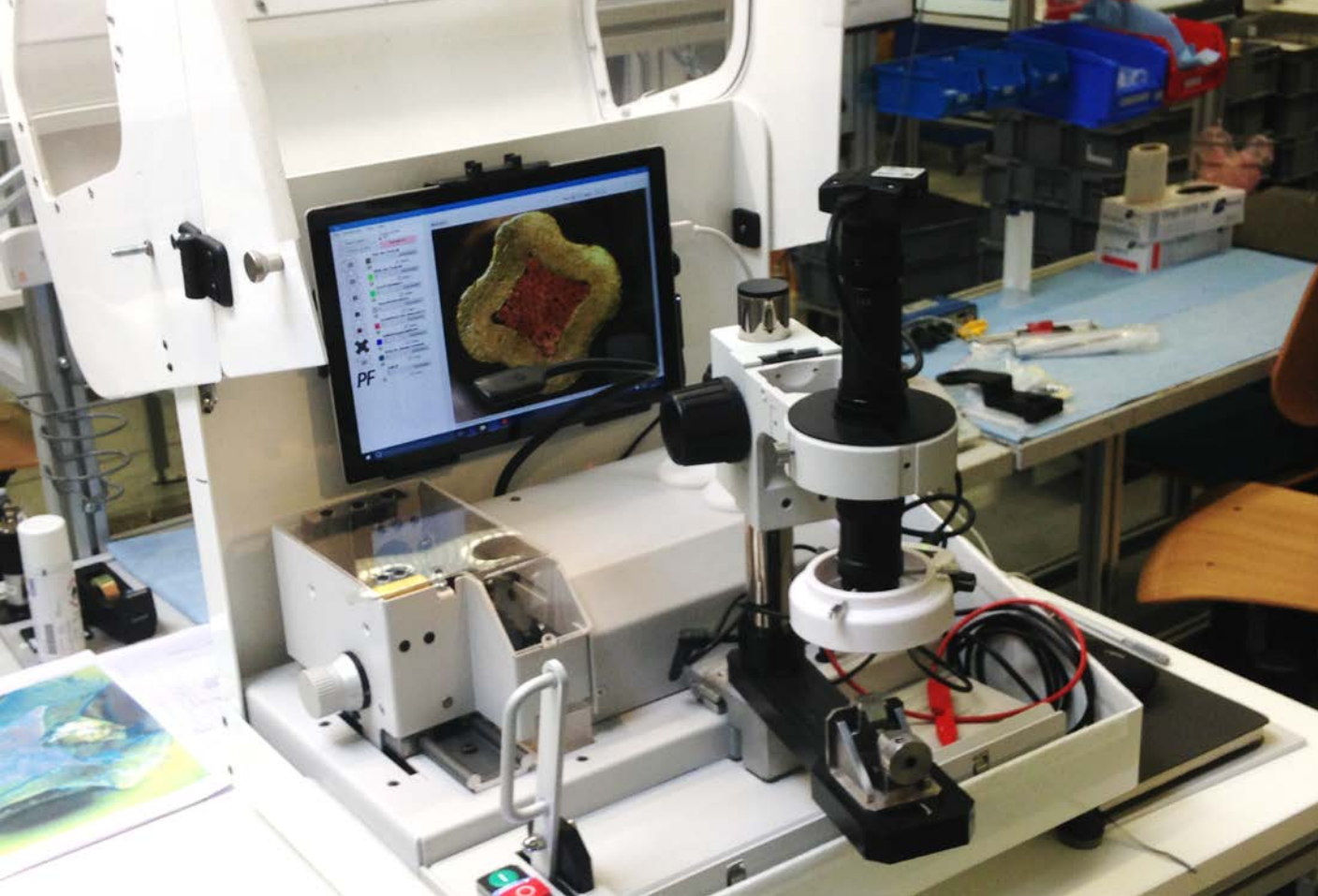


- Fast interface change between clamp and terminal selector
- Up to 1000 Newtons
- Selector for different size of terminal
- Touchscreen graphic interface
- Results wifi transfer to VISO software
- VISO software for CPK calculations
- SD-card

SPLICE QUALITY CONTROL

EPT 1000 





- All in one, cutting, polishing, etching, microscope (computer and monitor in table version).
- Easy transportable suitcase
- From 5.000 to 20.000 rmp for cutting
- Up to 80 mm<sup>2</sup> (overall rectangular surface)
- Holding clamps exactly adapted to the splice to cut for excellent positioning
- 3 megapixel camera
- VISO software



**SPLICE QUALITY  
CONTROL**

**SKB 4000**



- Rotation for polishing/cut and feeding speed adjustable in front panel
- Up to 3000 rpm for cutting and polishing
- Up to 240 mm<sup>2</sup> (overall rectangular surface)
- Up to 3000 rpm using powerful step motors
- 3 megapixel camera
- VISO software

SPLICE QUALITY CONTROL

SK 6000

SM Contact

Connection ID:  Date of creation: 06.11.2015 Target on:

Tooling ID:  Splice band or terminal ID:  Pull force:

Tooling name:  Splice length(mm):  Reference:

Operator:  Splice thickness(mm):

Component_ID	Component_Name	Component_Type	Component_Dimens	Component_Dimens	Component

Preset name: P0004 Add Preset

Crimp Height  Support Angle  Burr Height  
 Crimp Width  Support Height  Burr width  
 Insulation Crimp Height  Face and Clearance  Strands Counter  
 Insulation Crimp Width  Distance Between CFE  Inner Terminal Surface

Save Changes

Settings Help

Generate Report >> Show/Hide All

<< Back to Menu Auto Size recognizer

Crimp Height 0,734 Show  
 Crimp Width 1,210 Show  
 Face and Clearance 0,000 Show  
 Distance Between CFE 0,000 Show  
 Burr Height 0,000 Show  
 Burr width 0,000 Show  
 Inner Terminal Surface 0 Show  
 Set the start point Show  
 Final Wire Area 0 Show  
 Set the start point Show  
 Final Cross Sectional Area 0,752 Show

Capture Image Open Jpeg Save Measurements Open Measurements

Zoom 80 Objective 2,2 1,210 mm

Connection ID: 000000  
 Tooling ID: M-01384  
 Tooling name: 28-59-59-9-5  
 Splice band: 10 N  
 Pull force: xx  
 Operator: Igor Petrov  
 Date: 14.08.2015 23:15

Crimp Height: Value: 0.302, Down tol: 0.01, Up tol: 0.01  
 Crimp Width: Value: 0.868, Down tol: 0.02, Up tol: 0.02  
 Insulation Crimp Height: Value: 0.568, Down tol: 0.02, Up tol: 0.02

Component_ID	Component_Name	Component_Type	Component_Dimens	Component_Dimens	Component_Area	Component_Size
000000	wire	wire				
C000033	wire	wire				

Connection inspection report  
General information

Figure 1. Current measure

Parameter	Value	Parameter	Value
Connection ID		Splice band or terminal ID	
Tooling ID		Splice length	
Tooling name		Splice thickness	
Operator		Target crimp height	
Date of creation	06.11.2015	Pull force	
		Reference one	

SPLICE QUALITY CONTROL

VISO





# PIN INSERTION EQUIPMENT

# WHAT IS PIN CONNECTION?

## COMPONENTS

- PCB
- COIL FRAME
- PLASTIC CONNECTOR
- ETC.

## APPLICATIONS

- AUTOMOTIVE
- TELECOMMUNICATIONS
- ALTERNATIVE ENERGY
- ETC.



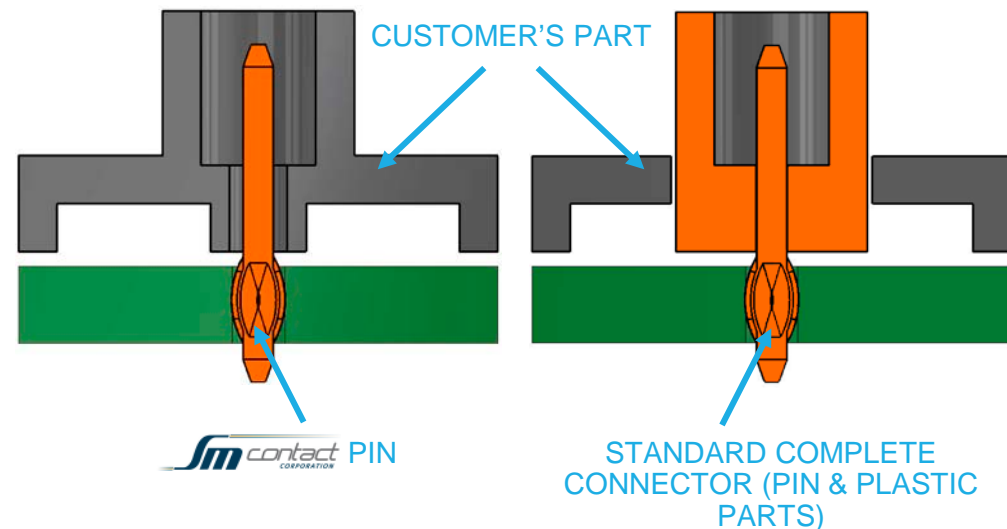
# PIN CONNECTIONS VS. COMPLETE CONNECTOR

## SM Contact pin interconnection

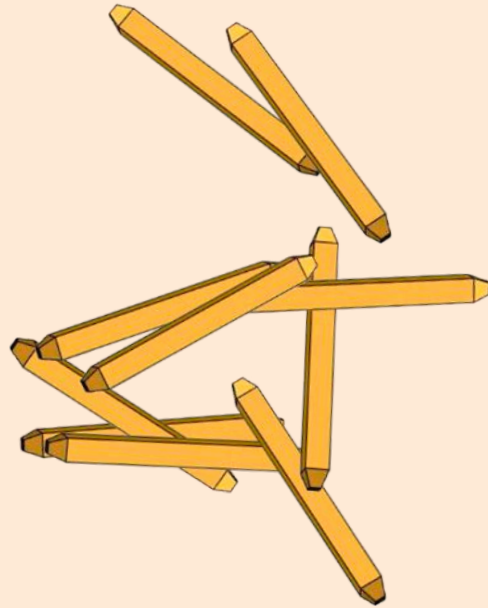
- 1 Pay only for a pin
- 2 100% customized:
  - Adjustable in height and position;
  - Insert just the quantity of pin needed.
- 3 Low insertion force
- 4 Wide hole tolerances compliance
- 5 Solderless

## Standard complete connector (pin & plastic parts)

- 1 Expensive and inflexible connectors
- 2 Limited application



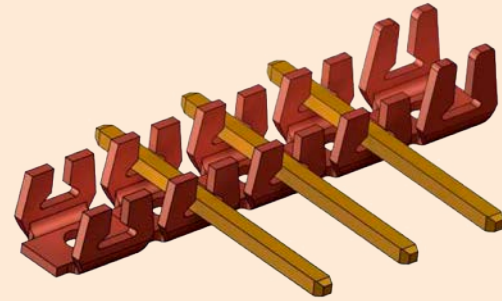
# PIN TYPES



IN BULK



END-TO-END



BANDOLIER

# PRESS-SHAPES



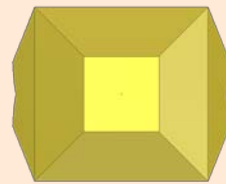
SMOOTH



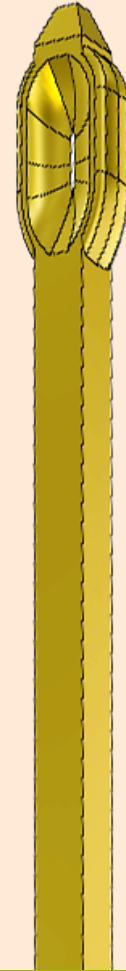
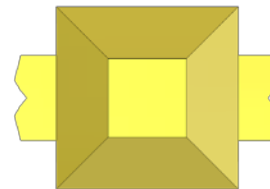
STAR



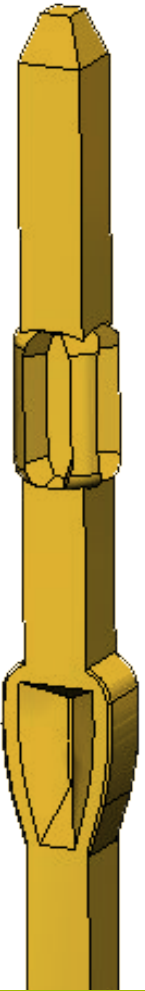
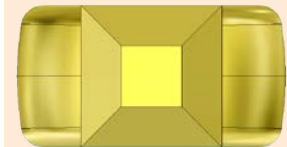
HARPOON



WINGS



PRESSFIT

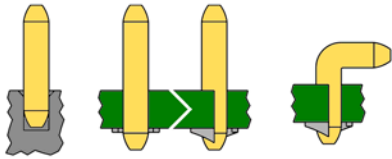


DOUBLE STAMP





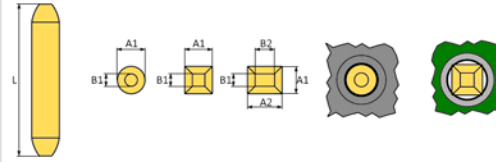
Smooth



Application

Ex.: coil frame, printed circuits without metalized holes, over-molding.

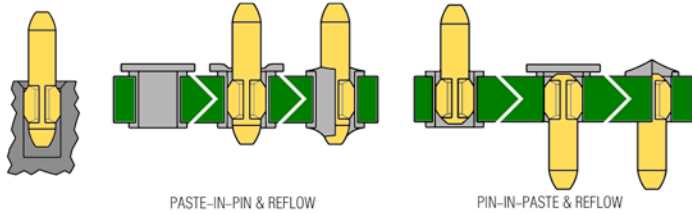
Shapes



Smooth

WIRE SHAPE	Square			Round			Square			Round		
	0.3	0.4	0.46	0.5	0.5	0.63	0.71	0.91	1	1	1.14	1.14
A1	0.3	0.4	0.46	0.5	0.5	0.63	0.71	0.91	1	1	1.14	1.14
A2	-	-	-	-	-	-	-	-	-	-	-	-
C	-	-	-	-	-	-	-	-	-	-	-	-
D	-	-	-	-	-	-	-	-	-	-	-	-
B1	0.2	0.25	0.25	0.25	0.3	0.3	0.35	0.45	0.55	0.4	0.4	0.6
B2	-	-	-	-	-	-	-	-	-	-	-	-

Star



Ex.: single- or double-sided printed circuit, coil frame.

Star

WIRE SHAPE	Square						Round			Square		
	0.3	0.3	0.4	0.4	0.46	0.46	0.5	0.5	0.5	0.5	0.63	0.63
A1	0.3	0.3	0.4	0.4	0.46	0.46	0.5	0.5	0.5	0.5	0.63	0.63
A2	-	-	-	-	-	-	-	-	-	-	-	-
C	0.5	0.55*	0.63	0.7*	0.73	0.8*	0.78	0.84*	0.66	0.7*	0.97	1.07*
D	1.1	1.1	1.1	1.1	1.5	1.5	1.5	1.5	0.8	0.8	1.5	1.5
B1	0.2	0.2	0.25	0.25	0.25	0.25	0.25	0.25	0.3	0.3	0.3	0.3
B2	-	-	-	-	-	-	-	-	-	-	-	-

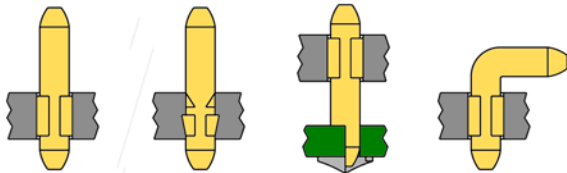
WIRE SHAPE	Rect.	Square				Round		Square	
	0.63	0.71	0.71	0.91	0.91	1	1	1	1.14
A1	0.63	0.71	0.71	0.91	0.91	1	1	1	1.14
A2	1	-	-	-	-	-	-	-	-
C	1.27	1.17	1.24*	1.5	1.55*	1.73	1.8*	1.32	1.4*
D	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
B1	0.3	0.35	0.35	0.55	0.55	0.55	0.55	0.4	0.4
B2	0.5	-	-	-	-	-	-	-	-

WIRE SHAPE	Round		
	1.5	1.5	1.5
A1	1.5	1.5	1.5
A2	-	-	-
C	1.78	1.78	1.78
D	1.5	1.5	1.5
B1	0.7	0.8	0.9
B2	-	-	-

\* Reinforced star

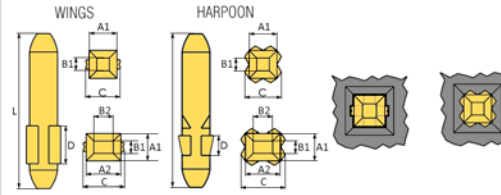
WIRE SHAPE	Square		WIRE SHAPE	Square
	A1	A2		A1
A1	0.63	0.63	A1	0.63
A2	-	-	A2	-
C	0.93	0.84	C	0.85
D	1	1	D	0.65
B1	0.3	0.3	B1	0.3
B2	-	-	B2	-

Wings - Harpoon



Ex.: plastic connector, insertion in stages.

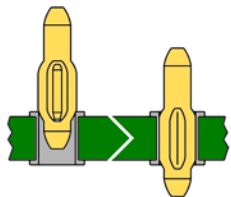
Wings - Harpoon



WIRE SHAPE	Rect.	Rect.	Square				Rect.
	0.4	0.6	0.63	0.63	0.63	0.63	0.63
A1	0.4	0.6	0.63	0.63	0.63	0.63	0.63
A2	0.5	1	-	-	-	-	0.8
C	0.7	1.34	1.12	1.12	1.12	1.12	1.1
D**	1.8	3	1.8	1.8	2.66	2.66	3
B1	0.2	0.27	0.25	0.3	0.25	0.3	0.25
B2	0.25	0.5	-	-	-	-	0.45

\*\*D=1.8 - pressfit short D=2.66 - pressfit medium D=3 - pressfit long

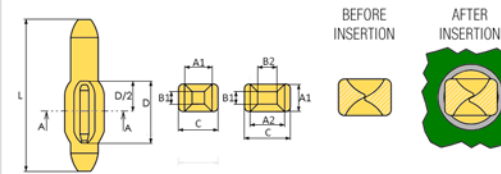
PressFit



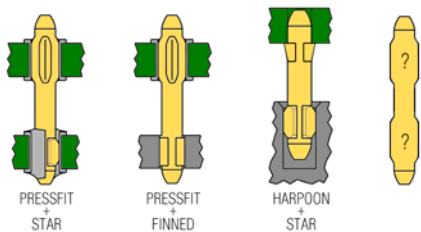
Ex.: double-sided printed circuit.

PARTICULARLY FOR AUTOMOTIVE INDUSTRY

PressFit



Dual Impression



Ex.: stacking of printed circuits.

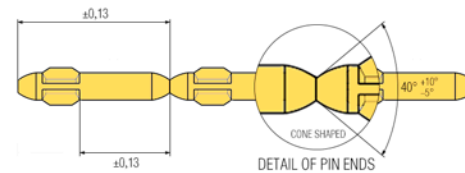
Varied pins section, length & impression

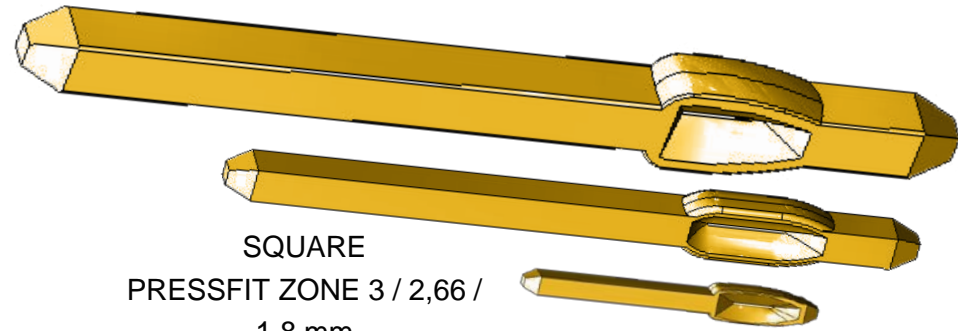
- TO SUIT SPECIFICALLY YOUR APPLICATION

Materials & Coating

- Bronze (CuSn0,3, CuSn4, CuSn5, CuSn6, CuSn8)
- Brass (CuZn15, CuZn30, CuZn33, CuZn36, CuZn37)
- CuFe2p
- CuMg0.1
- CuNi3Si1Mg
- CuNiSi
- Staku30
- Various Ni-based coatings 1.3-3 μ: Ag, Au, Sn35

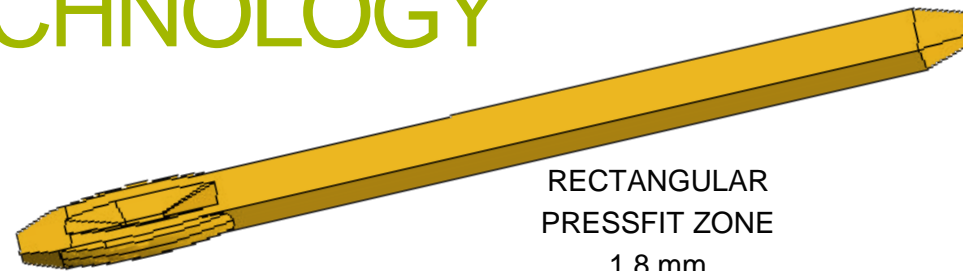
GENERAL CHARACTERISTICS





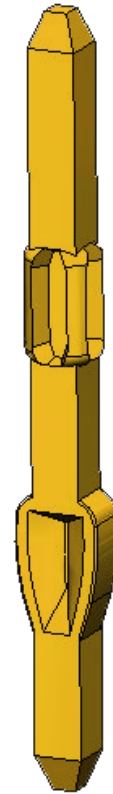
SQUARE  
PRESSFIT ZONE 3 / 2,66 /  
1.8 mm

# HEADLINER PRESSFIT TECHNOLOGY



RECTANGULAR  
PRESSFIT ZONE  
1.8 mm

DOUBLE STAMP  
PRESSFIT ZONE 1.8 mm



0.50x0.40 mm

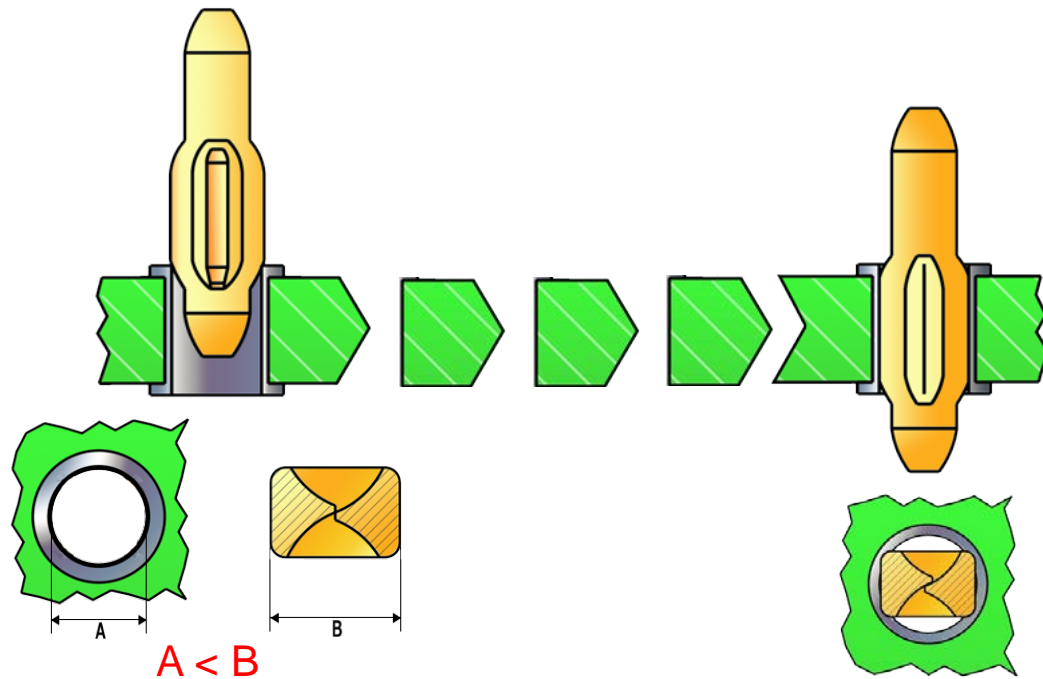


0.60x1.00 mm



0.60x0.60 mm

# PIN CONNECTIONS. PRESSFIT ADVANTAGES



Size difference between PCB hole (A) and pressfit zone (B) leads to pressfit deformation during insertion.

Compression of a pin guarantees reliable connection.

## ADVANTAGES:

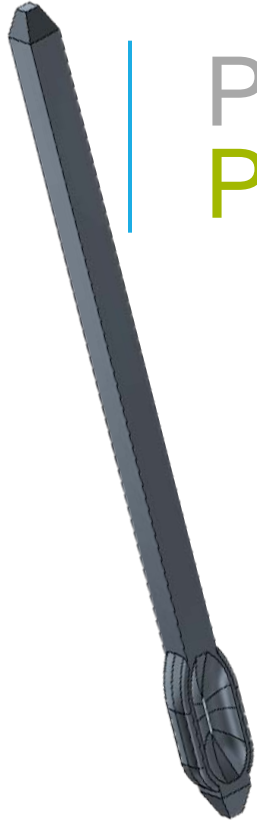
- ✓ SOLDERLESS
- ✓ BIG TOLERANCES
- ✓ LOW INSERTION FORCE
- ✓ COST-EFFECTIVE ASSEMBLY PROCESS
- ✓ SEAMLESS



Transverse sectioning



Longitudinal sectioning



# PIN CONNECTIONS. PRESSFIT QUALIFIED\* IN ACC. TO EN 60352-5

## Glossary of Terms

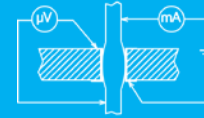
$R_c$  - contact resistance

$A_{max}$  - drilled hole contour deformation

$B_{min}$  - remaining thickness of the plating

$C_{max}$  - outer layer deformation

\*TECHNICAL REPORTS COULD BE  
PRESENTED ON YOUR REQUEST



## CONTACT RESISTANCE

✓  $\Delta R_c < 0.5 \text{ m}\Omega$



## DEFORMATIONS

- ✓ No cracks
- ✓  $a_{max} < 70 \mu\text{m}$
- ✓  $b_{min} > 8 \mu\text{m}$
- ✓  $c_{max} < 50 \mu\text{m}$



## RAPID TEMPERATURE CHANGE

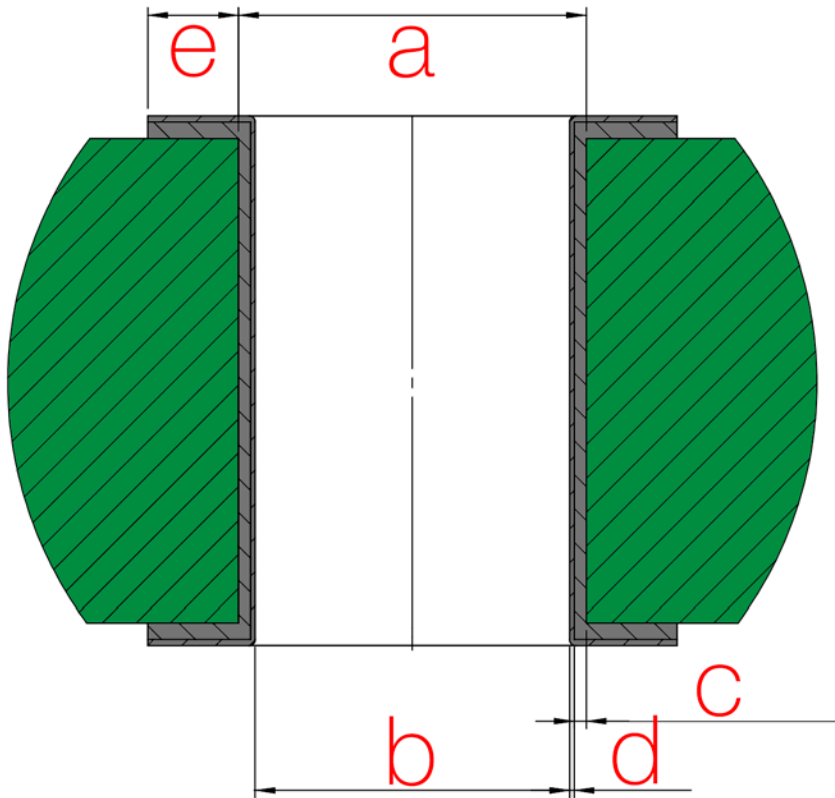
- ✓ 10 cycles
- ✓  $-40 \text{ }^\circ\text{C}/+85 \text{ }^\circ\text{C}$
- ✓  $t^1 = 30 \text{ min}$



## CLIMATIC SEQUENCE

- ✓  $+85 \text{ }^\circ\text{C}, 16 \text{ h}$
- ✓  $+25 \text{ }^\circ\text{C}/+55 \text{ }^\circ\text{C}, 90\% \text{ RH}/95\% \text{ RH}$
- ✓  $-40 \text{ }^\circ\text{C}, 2 \text{ h}$

# PIN CONNECTIONS. QUALIFIED PRESSFIT CONFIGURATIONS



	0.50x0.40 mm	0.60x1.00 mm	0.64x0.64 mm	
<b>A</b> [mm]	0.675 ±0.025	1.325 ±0.025	1.13 ±0.02	
<b>B</b> [mm]	0.60 ±0.05	1.25 ±0.05	1 +0/-0.1	
<b>C</b>	25µm Cu	25µm Cu	25-50µm Cu	
<b>D</b>	Sn	Sn	0.8-1.2µm Sn	
<b>E</b> [mm]	0.05 min	0.05 min	0.05 min	
<b>Material</b>	Cu Ni Si	Cu Sn6	Cu Sn6	Cu Ni Si
<b>F<sub>in</sub></b> [N]	74.4-91.1	66.2–134.6	<100	<100
<b>F<sub>out</sub></b> [N]	54.4-72.9	145.3–235.0	>20	>50

## Glossary of Terms

**A** - Diameter of finish plated through hole

**B** - Diameter of drilled hole

**C** - Inner coating (min.)

**D** - Coating

**E** - Restraining width

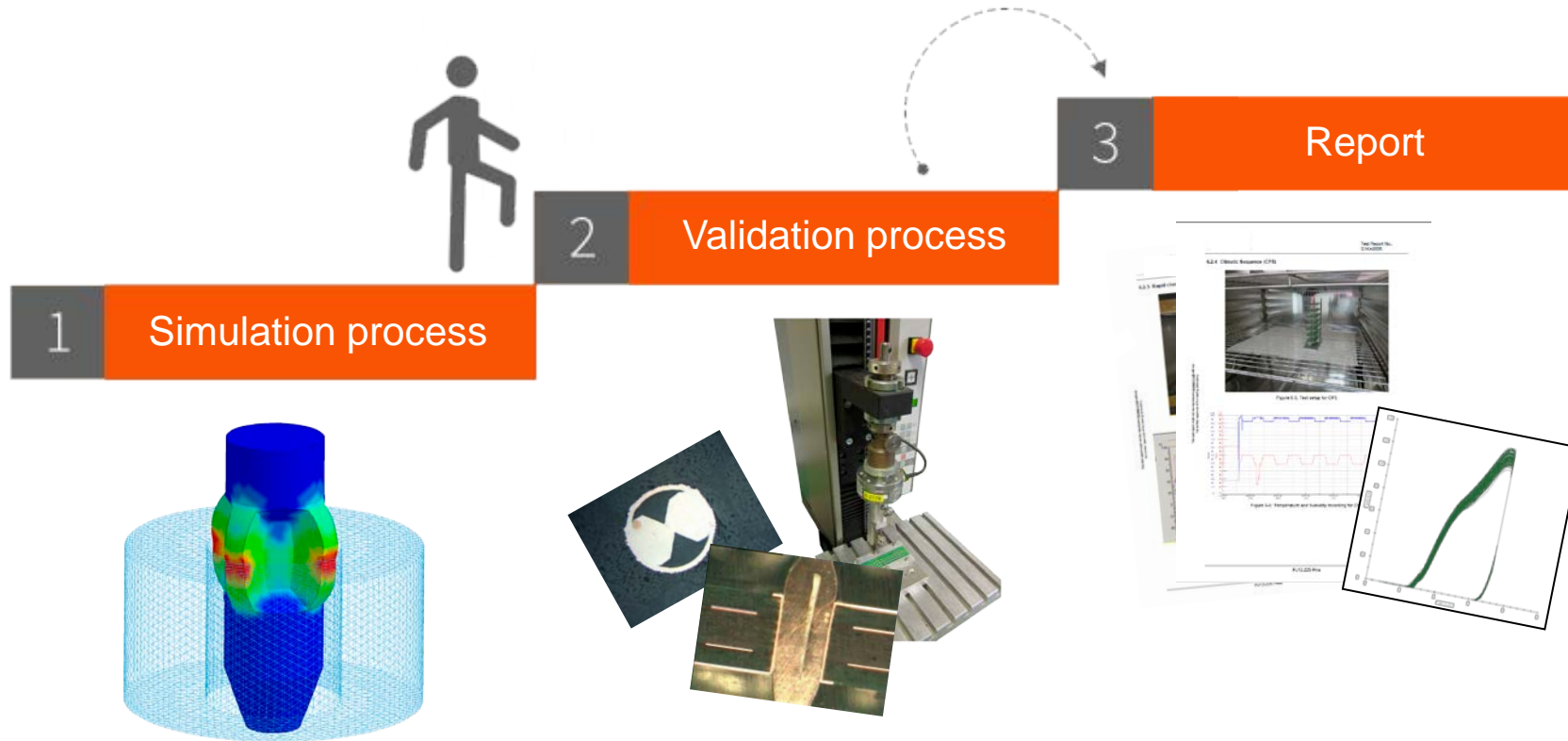
Material – Pin material

F<sub>in</sub> - Press-in force

F<sub>out</sub> - Push-out force

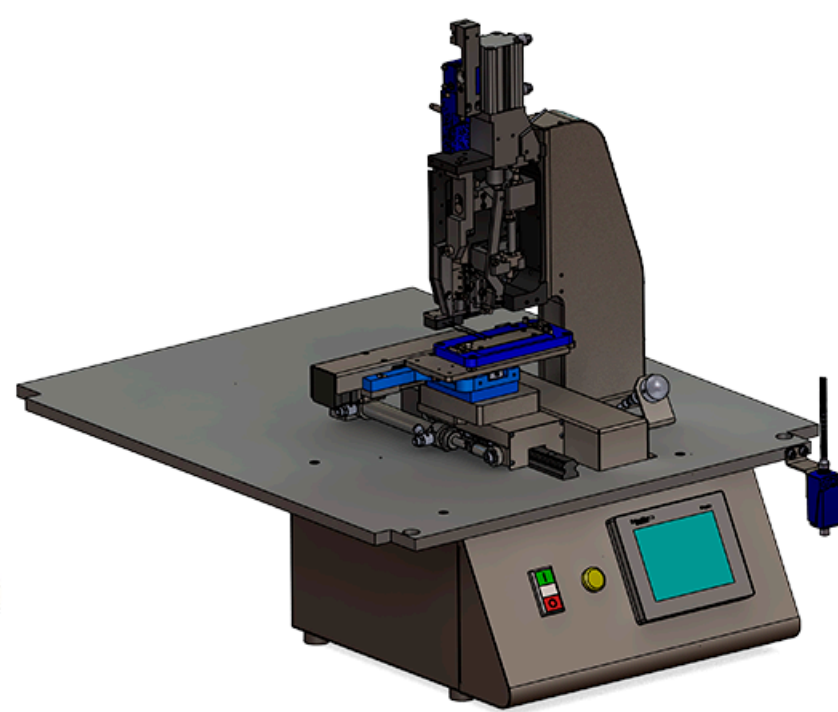
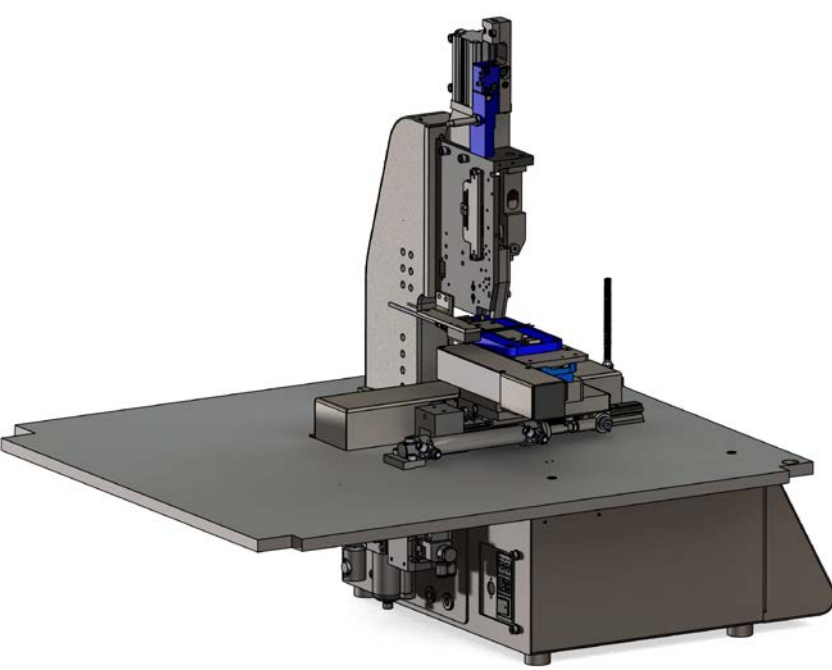


# PIN CONNECTIONS. ENGINEERING EXPERTISE





# PIN INSERTION EQUIPMENT



**PININSERT 2100**  
W/ AUTOMATIC X/Y TABLE

## STANDARD FEATURES

- Pneumatic/servo motor insertion head
- Right angle pin / U band pin line / terminals insertion
- End-to-end pins feeding system

## OPTIONS

- X / XY table
- Poka Yoke
- Working table w/lighting & safety beams
- Camera control
- Pin laser control
- Insertion force control STARLITE
- Barcode reader



# PININSERT 2100



## HIGH-VOLUME PRODUCTION

- 7.000 - 8.000 PINS PER HOUR (SINGLE HEAD)
- UP TO 15.000 PINS (DOUBLE HEAD)

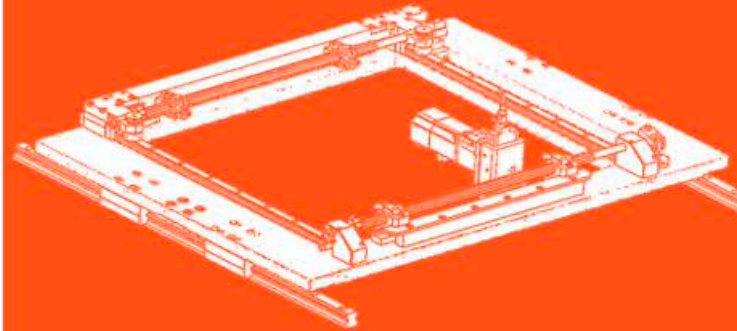
High precision guide system controlled by servo motors.

Supervised by PC.

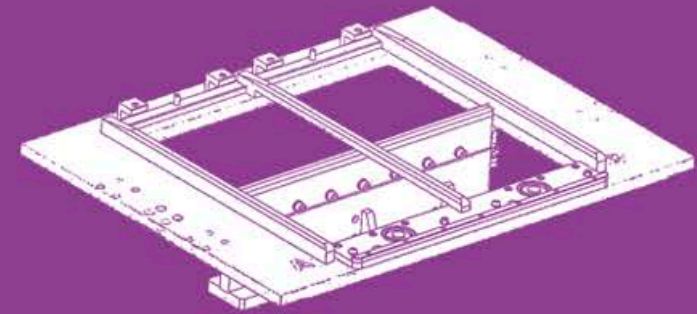
Programmable insertion height.

Easy interchangeable tooling for different kind of pins.

**UNIVERSAL FIXTURE 400X400  
FOR PCB  
INCL. ANVIL 10/20 MM STROKE**



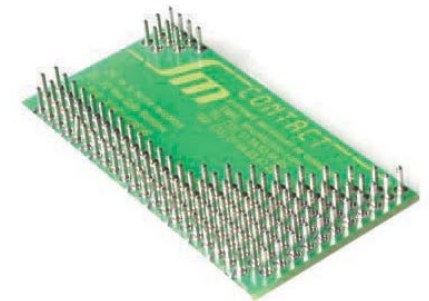
**Y TABLE  
FOR ADAPTING FIXTURES  
(FOR PLASTIC CONNECTORS)**



**CAN BE INSTALLED  
SEPARATELY  
OR INLINE**

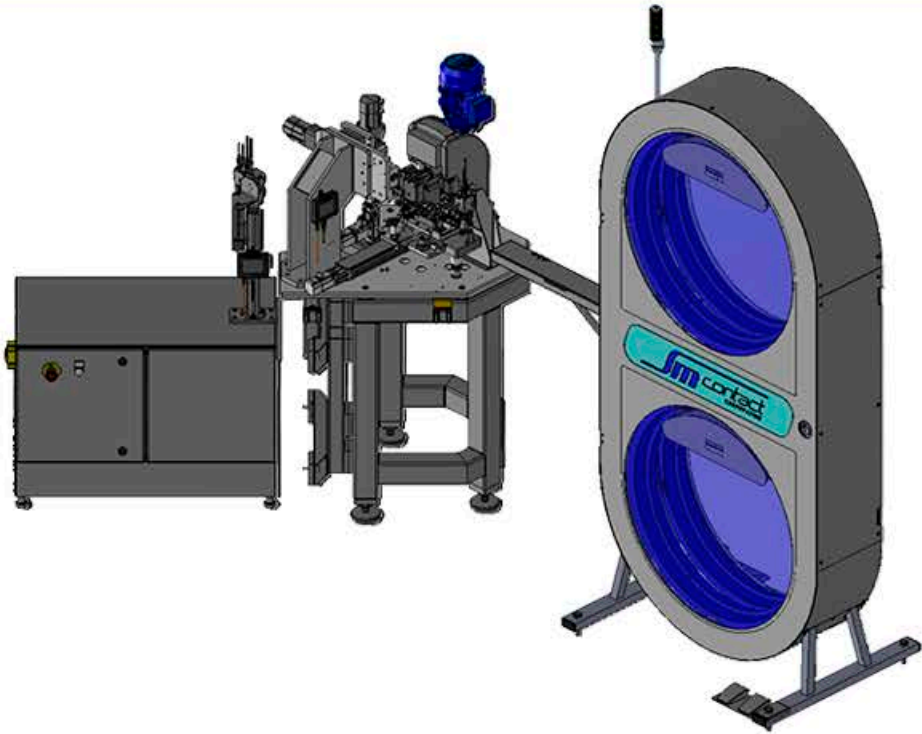


# PININSERT 2200

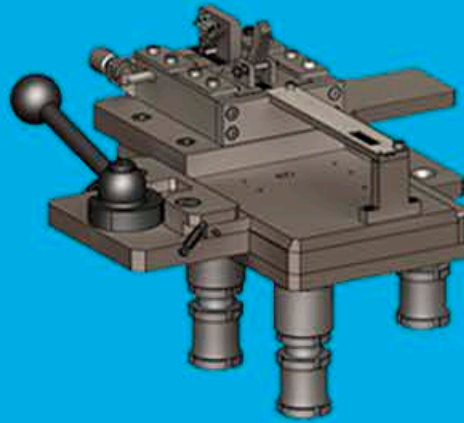




**UP TO 10 PINS  
CUTTING, BENDING & INSERTION**

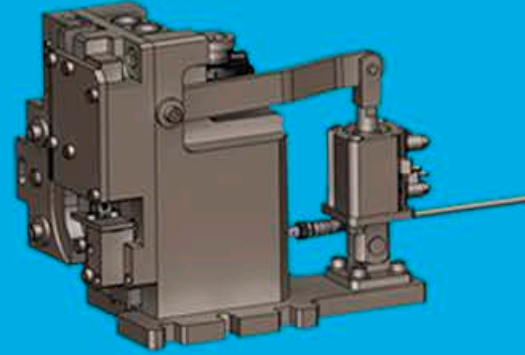


**FEEDING UNIT**



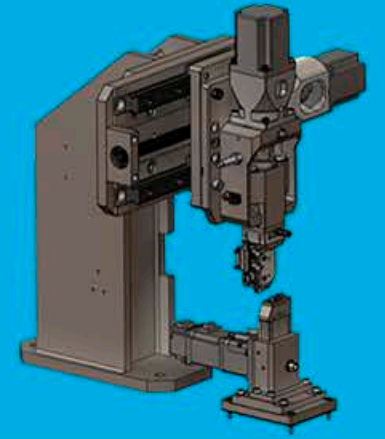
**+**

**BENDING UNIT**



**+**

**INSERTION UNIT**



**FROM 2 TO 10  
PIN LINE SYSTEM**

**CAMERAS FOR  
FEEDING &  
INSERTION UNIT**



**BENDING &  
INSERTION  
FORCE CONTROL**



**PININSERT 2500**

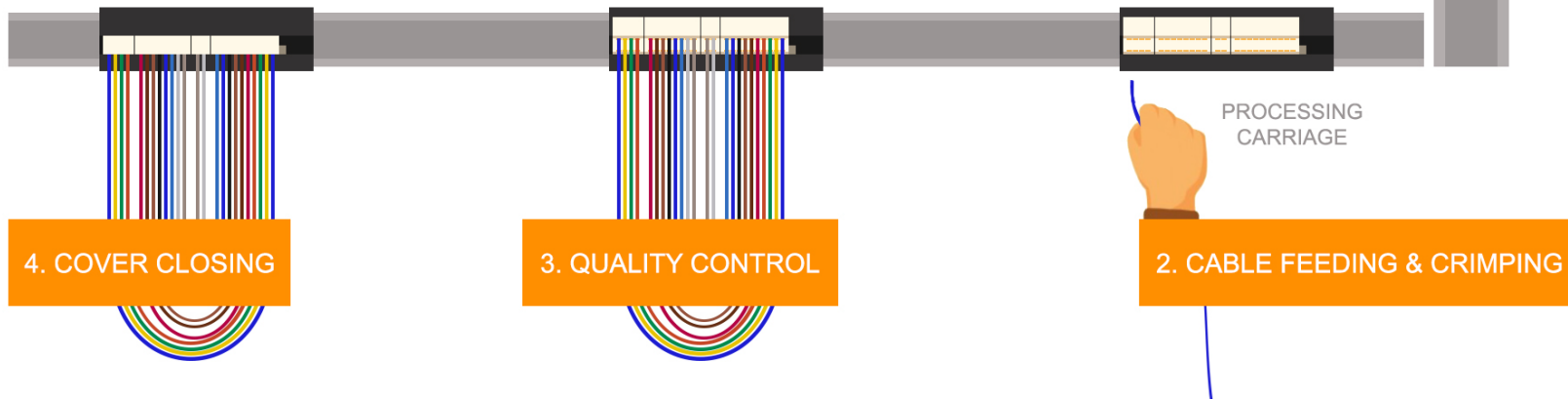
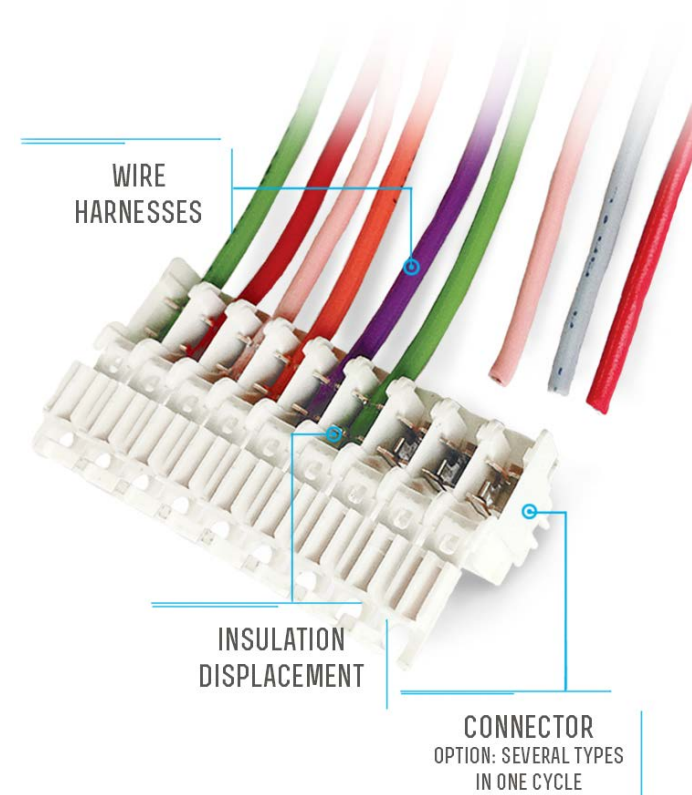
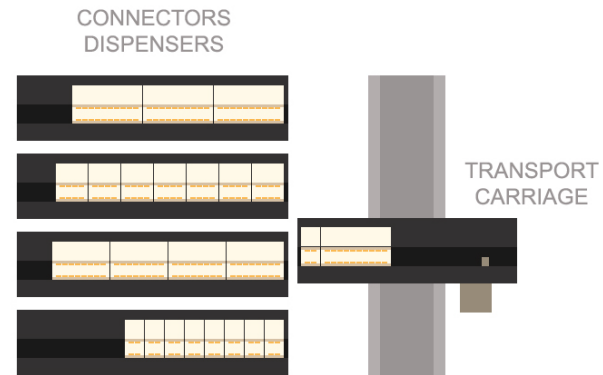
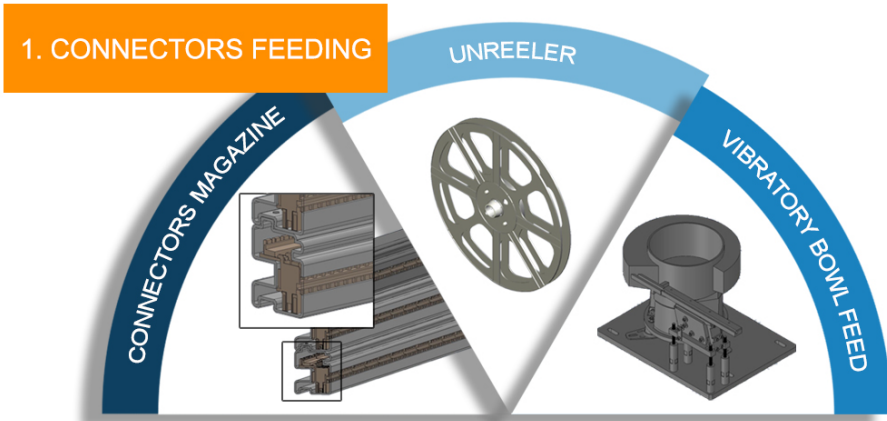






**INSULATION  
DISPLACEMENT  
CONTACT (IDC)**

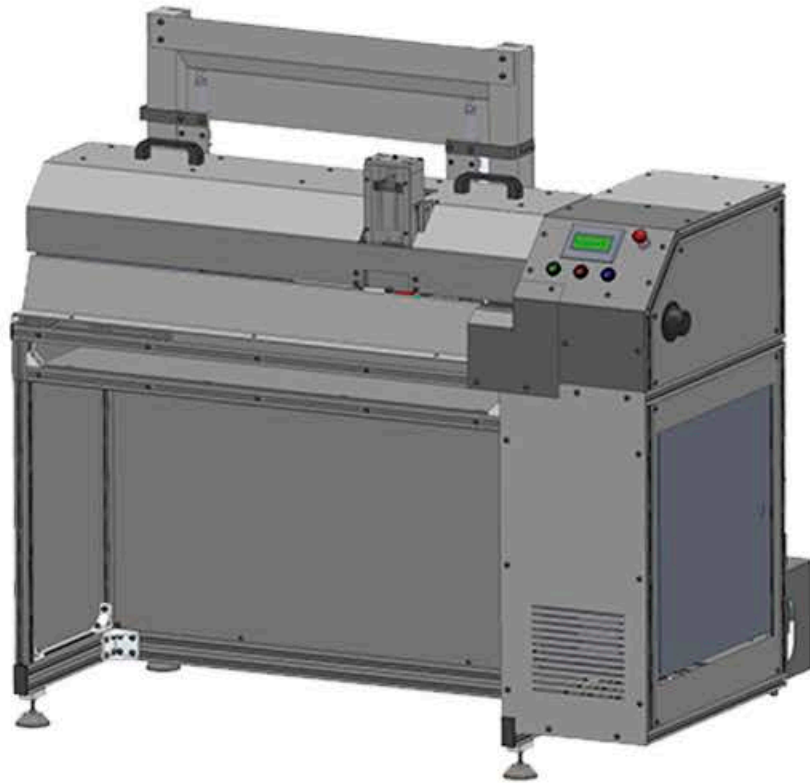
# WHAT IS IDC?





IDC EQUIPEMENT

Sm IDC



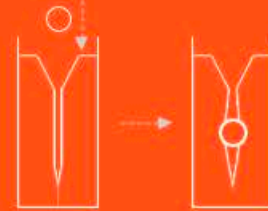
## FEATURES

1. AUTOMATIC FEED
2. CONNECTORS TRANSFER TO WORK AREA
3. CRIMPING

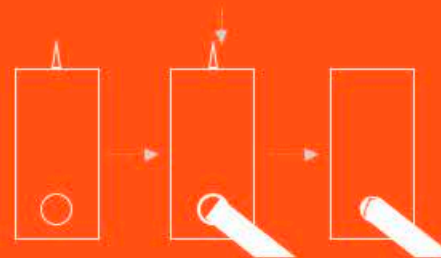
## OPTIONS

1. CABLE UNREELING & CUTTING
2. WIRE BENDING
3. COVER CLOSING
4. WIRE COLOR DETECTION
5. INSERTION DEPTH CONTROL
6. COMPONENTS POSITION CONTROL
7. ELECTRICAL TESTING STATION

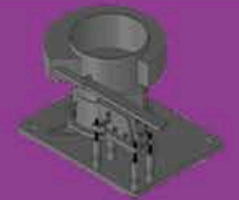
### TOP WIRE FEED



### SIDE WIRE FEED

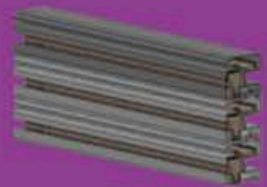


### UNREELER



### VIBRATORY BOWL FEEDER

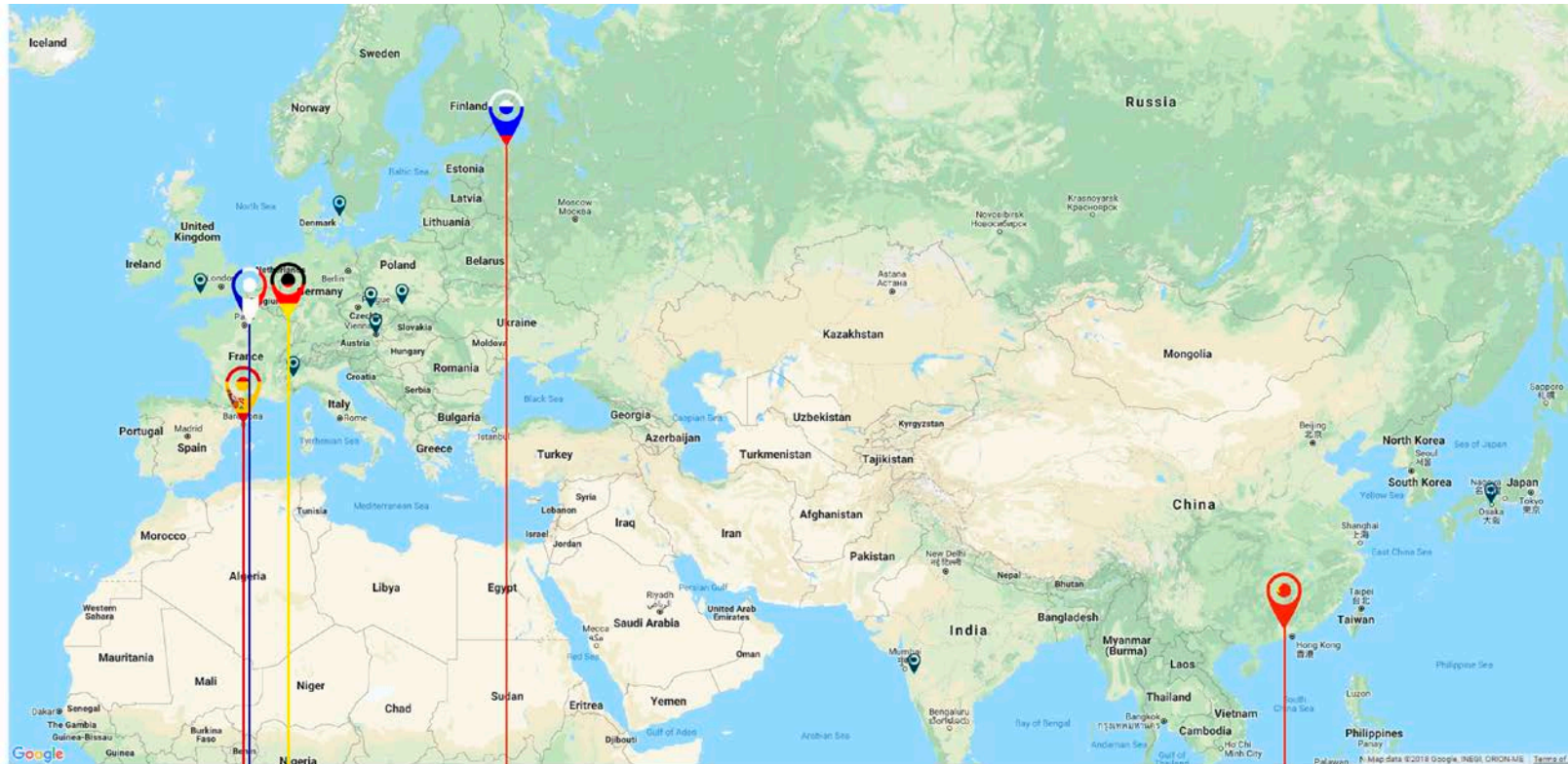
### CONNECTORS MAGAZINE



Sm IDC



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of the World





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