

The complete in-die insertion machine that fits your needs and even more

Advantages:

- **Safe operation:** Multiple sensors are monitoring the insertion process in the Head and the trolley.
- **Quick Installation kit:** Fast and easy to install, without need for specific tool
- **Industrial quick coupling on every connexion :** Air, Motion control, Pipe
- **Reduced investments:** Same insertion head could be shared between several tools
- **Secured process:** detection of the presence of component and quality of insertion with dedicated DETEC system

As for in-die tapping, you get the full service:

Choosing an in-die insertion system from PRONIC means that you have chosen the highest possible performance during each step of your project:

- Assistance to define the most appropriate solution
- Assistance during die design
- Assistance in order to optimize the concept
- Assistance in starting-up your die
- After-sales service

Based on its experience of in-die solutions, PRONIC has developed a complete system for in-die components insertion.

The insertion heads are mainly solid mounted on the lower shoe, therefore no continuous movement is applied on the different parts involved.

Being independent from the kinematics of the die, each inserting head can be shared from die to die.

The installation is done in a few minutes with the quick installation kit and the quick supplied connections for electrical, pneumatic and component.

A kart connected with the press is feeding the insertion head through vibrating bowls and blowpipe.

Several references and dimensions of components can be inserted simultaneously with a speed up to 40 parts per minute per head.

PRONIC guarantees 100% well inserted components with its dedicated sensor system.



MAIN FEATURES:

- Head shared from one die to another.
- Any bushing from Ø8 to Ø20 mm.
- Many other components can be in-die inserted. Contact us for quotation
- Up to 40 parts inserted per minute per head.
- Solid mounted (on the lower shoe) for insertion from bottom to top, therefore highly reliable.
- Insertion also available from top to bottom depending on your die configuration.
- Easy integration in the die.
- Quick installation kit: no need for special tools and quick connection for all plugs.
- Feeding of components from kart to head by flexible blow pipe.
- Compact design: Heads are 95 mm wide for bushings.
- Guarantee of 100% parts insertion with dedicated sensor.

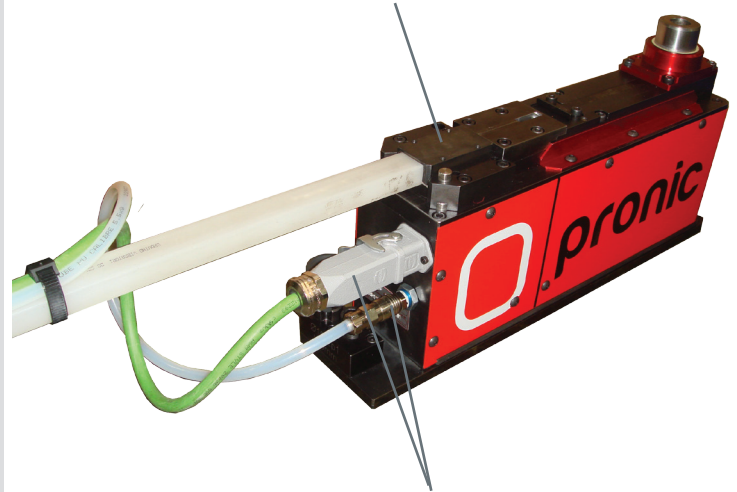
Sensor to guarantee 100% inserted components



Insertion Head features:

Components are blown through flexible pipe

Quick connections for flexible blowpipe

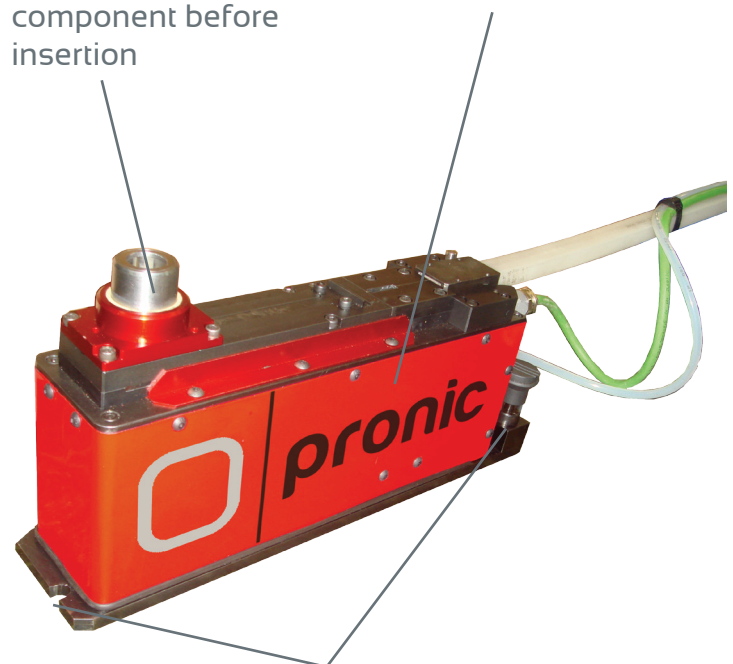


Quick connections for electrical and pneumatic power

All movements inside the insertion are controlled by sensors

Safe operation: detection of the component before insertion

Head protected against pollution with housing



Quick installation kit (no need for special tool) with integrated POKA YOEK mistake-proofing

Feeding Kart features:

Easy to use:

Color Touch screen with user-friendly interface to manage the system

Keying of components into vibrating bowl with protected access to loading

Safe operation:

Detection of components before blowing

Quick connections for flexible blowpipe and electrical and pneumatic power



Rack for un-used blowpipe

Production autonomy with secured hoppers

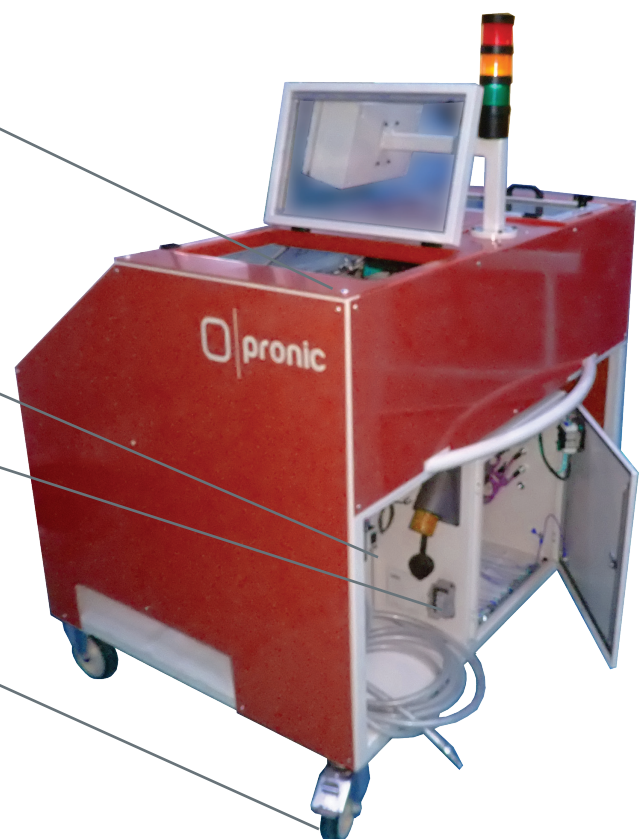
Stable operation :

Air accumulation vessel

One connection with the press: system is managed by the Kart

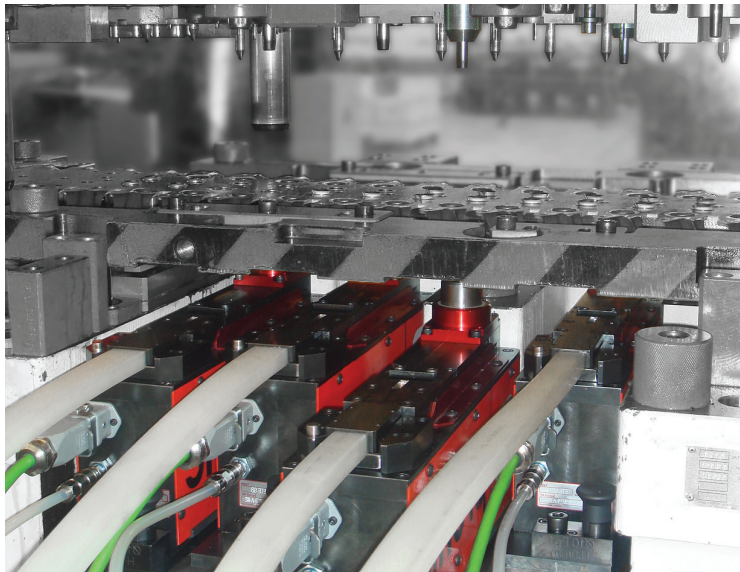
Fast to implement :

Kart is equipped with wheels



Some examples of current applications:

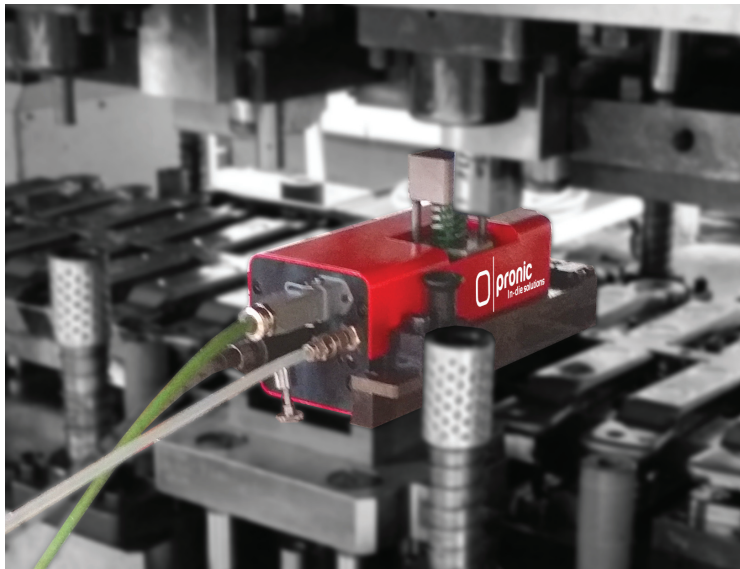
In-die bushing insertion:



- Insertion of bushing
- Insertion from bottom to top
- Insertion Heads are solid mounted on the lower shoe

Speed: 22 spm

In-die pins insertion:



- Insertion of pins
- Insertion from top to bottom
- Insertion Heads are installed on a pressure pad

Speed: 30 spm

In-die nut and bushing insertion:



- Insertion of M10 nut and Ø15 bushing
- Insertion from top to bottom
- Insertion Heads are installed on the stripper

Note: Also includes 12 spindle tapping station

Speed: 12 spm