

FOR IN-DIE SOLUTIONS
THINK pronic



OUR **TECHNOLOGY**
ENHANCES
YOUR

PR  **DUCTIVITY**

PRONIC, IN-DIE TAPPING AND INSERTION

World leader

A specific solution for your application

Since it was founded in 1989, Pronic has been the world leader for **in-die tapping solutions** for stamped metal parts. In 2010, strengthened by its experience & expertise and the latest technology, Pronic also became the preferred contact for **in-die insertion** needs (bushings, ball stud, shafts, pilots, spacers, cannons, etc...).

Located in Haute-Savoie in Marignier, the company provides services all over the world with **expertise that is recognized in more than 40 countries**. Pronic caters to **Tier 1 automotive suppliers** by working with the **biggest car brands and to the big key players in the electrical and building sectors**.

OUR PHILOSOPHY: Adapt all our solutions to your environment and optimise the performance of your units throughout their lifecycles.

GOAL

Substantial savings in the production of parts by guaranteeing the **reliability** and **repeatability** of the process, while **controlling quality**.

WHAT IS IN-DIE TAPPING?

This means carrying out tapping by roll forming, in a stamping die.

It's THE most economical solution for large production volumes! Especially given that our tapping equipment can be re-used for several tools.

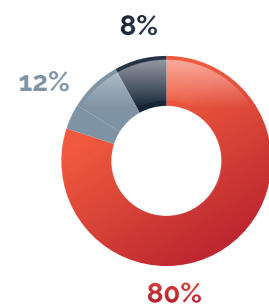
In addition, tapping by roll forming has a greater mechanical strength against crimped nuts.



STS device type unit

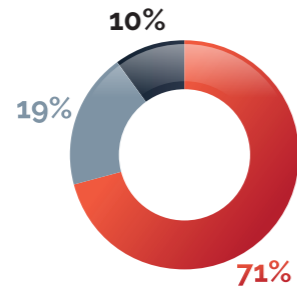
2

OUR MARKET



- Automotive
- Electrotechnical / Building
- Electrical appliances

OUR CUSTOMERS



- Stampers
- Toolmakers
- Equipment manufacturers / Builders

OUR VALUES

- Quality of service
- Tailored solutions
- Reliability and robustness
- Support and advice for the client

YOUR BENEFITS

- Local support and monitoring world-wide
- Single point of contact for your tapping and insertion projects

EXPERTS AT YOUR SERVICE

In addition to our ultra-high-performance equipment, Pronic experts are on-hand to advise you in choosing the **best solution** for your project. They closely study the integration of the process and answer all your questions regarding in-die tapping or insertion. Pronic allows you to produce parts that do not require manual rework (for tapping and/or inserting the component). Thus, finished parts at press output generate **less need for storage and handling**.



WHAT IS IN-DIE INSERTION?

This means creating and fixing a component on a part, in a stamping die. With our proven experience and expertise in the in-die environment, Pronic has developed a complete system for in-die crimping of components, such as: bushings, rivets, ball stud, canon, spacers, shafts, studs, clip nuts, etc...

The advantages of in-die insertion are:

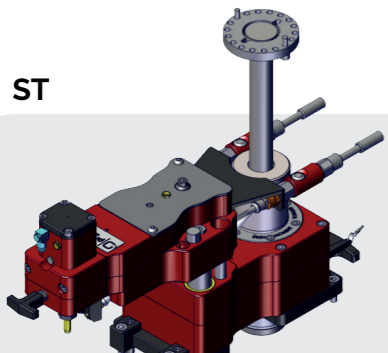
- Reduced storage costs
- Reduced handling costs
- Increased productivity
- Opportunity to reuse material for similar projects

3

OUR TAPPING SOLUTIONS

...enhance your productivity

ST



Ø M3 to M12
 ↑↓
 150 SPM
 51 or 70mm min.

Reusable and modular single tap unit

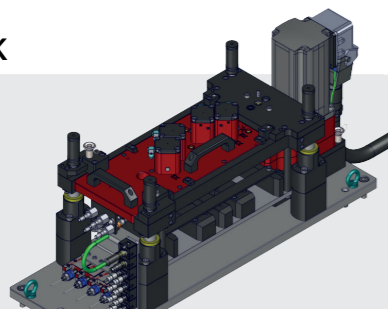
PG



Ø M1 to M8
 ↑↓
 250 SPM
 12mm min.

For speed and small threading pitch

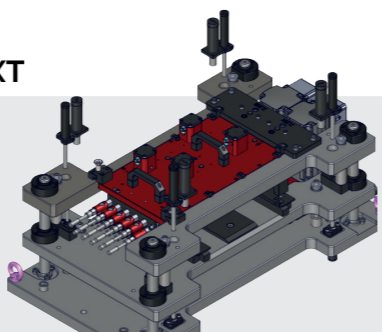
TK



Ø M4 to M12
 ↑↓
 80 SPM
 12mm min.

Compact solution for multi-tapping application

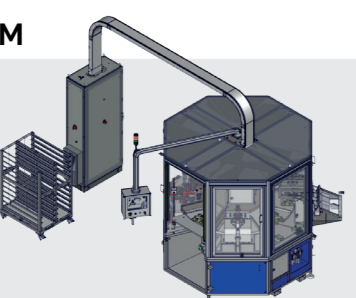
XT



Ø M4 to M12
 ↑↓
 80 SPM
 12mm min.

Tailor-made tapping module and fully equipped

ATM



Ø M4 to M...
 ↓↑
 80 SPM
 12mm min.

Stand-alone tapping machine

Functions and features

- Tapping direction
- Output rate
- Center-distance
- Fast approach
- Clamping
- Piloting
- Strip following


Non-contractual values

Our tapping solutions can be adapted to all situations

	Progressive dies	Transfer dies	Fine blanking	Multi-side application	Stand-alone
MONO-TAP	Autonomic				
	ST				ATM
	PG				
MULTI-TAP	TK				
	XT				


ACCESSORIES

TROLLEY




Trolley equipped with controller and lubrication unit

DETEC




Tap breakage detection system

LUBRIFICATION




Micro-lubrication unit for taps

CENTROLUB




Inner tap lubrication unit

ROLL FORMING TAPS, BASS



With external lubrication



With lubrication through the centre

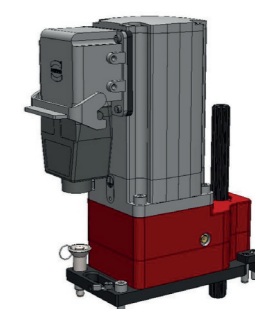
Accessories are compatible with the entire tapping range

Type of motorization available

(Interchangeable and reusable)



Mechanical motorization
(Example)



Electro mechanical motorization
(Example)

OUR INSERTION SOLUTIONS

...enhance your productivity

All Pronic in-die products are designed and manufactured according to your specifications.

Pronic has already created a wide variety of applications for the insertion of various types of components with different features.



Our equipment consists of a component distribution system and one or more heads that insert this component into the unit and set it up.

INSERTION HEAD

Features:

- Quick connections
- Quick assembly kit
- Reusable in multiple tools
- Insertion possible in all directions: up, down, sideways

Illustration photo

DISTRIBUTION KART

Features:

- 1 to 3 vibrating bowls
- 2 to 6 outputs
- Quick connections
- Easy to move

ACCESSORIES

DETECTION

MODULES

PRONIC SUPPORTS ME

Pronic is on-hand throughout the product's life cycle

I have a project to implement...

- a **FEASIBILITY STUDIES:** to define the solution best suited to your needs.
- b **REVIWEING YOUR DIES:** completely checking the design of the tapping or insertion station, based on your die's 3D design (CAD) files. Avoids any unpleasant surprises upon start-up and guarantees the quality of the design from the feasibility study.
- c **TRAINING YOUR TEAMS:** Pronic trains your teams to use your tapping and insertion equipment. This is a key point and crucial to the autonomy necessary for a good return on investment of your installation.

My equipment must maintain its performance level...

Once your solution is installed, Pronic remains involved and attentive to your needs throughout the lifecycle of your tapping units or your insertion system.

- a **REPAIR AND REVISION:** our team of experts is at your disposal for all repairs and/or revisions. Pronic makes every effort to respond within 48 hours.
- b **SPARE PARTS:** Pronic is able to provide you with original or compatible spare parts to maintain or repair your equipment.
- c **MYPRONIC.NET AREA:** connect to your company's secure and personal area. You will have online access 24/7 to the detail drawings and part list of your products and can request a quote at the same www.mypronic.net.

...What else can you do?

- a **IMPROVED PERFORMANCE:** our teams are skilled at improving the performance of your tapping or insertion/ crimping applications. After a detailed analysis, Pronic proposes actions to optimise your production.
- b **OFFERING A COMPREHENSIVE SOLUTION:** thanks to our partnership with the German tap manufacturer BASS, Pronic offers a complete range of roll forming taps as well as the ability to conduct tests related to your application. In the same way, Pronic selects lubricants adapted to your project and its environment, to round out a complete turnkey solution.

THE 7S ACCORDING TO PRONIC



Solution automated



Stable



Scalability



Smart



Simplicity of use



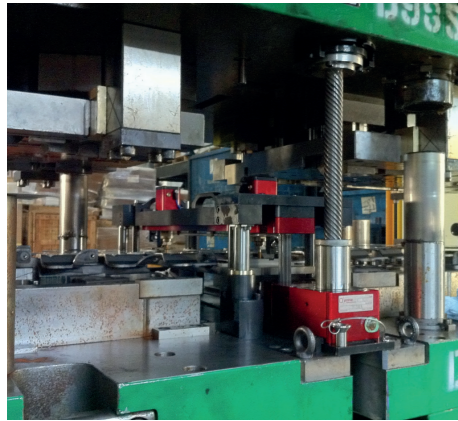
Savings by reusability



Service & support worldwide

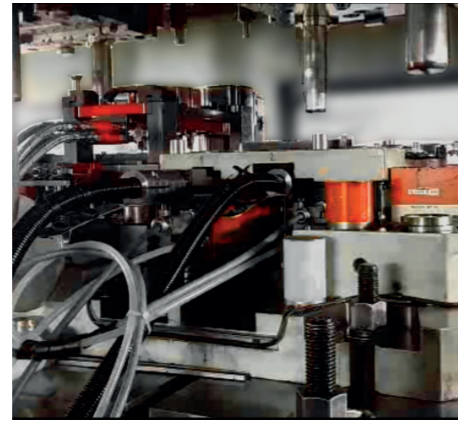
OUR APPLICATIONS

...increase your productivity



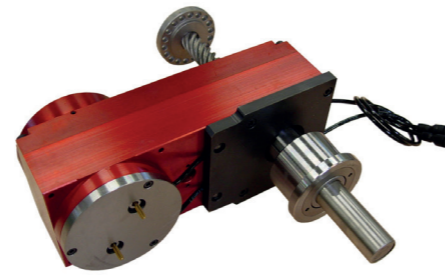
USA

Type of tool: progressive die
Part group: opening
Tap dimension: 2 x M6x1.00
Material: HLE S420MC steel
Rate: 45 strokes/min
Model: TKS2M, mechanical



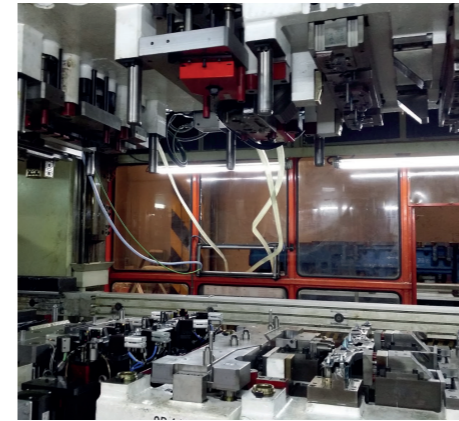
Germany

Type of tool: progressive die
Part group: seat
Components: 4 M6 tappings and 2 M6 rivets
Material: HLE S355MC steel
Rate: 30 strokes/min
Model: SIF112 + TKN4E servo motor



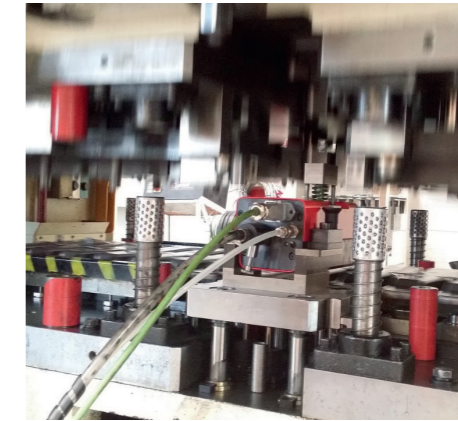
Germany

Type of tool: progressive die
Part group: electrical connection
Tap dimension: 2 x M6x0.70
Material: copper
Rate: 240 strokes/min
Model: B + 2B HV, mechanical



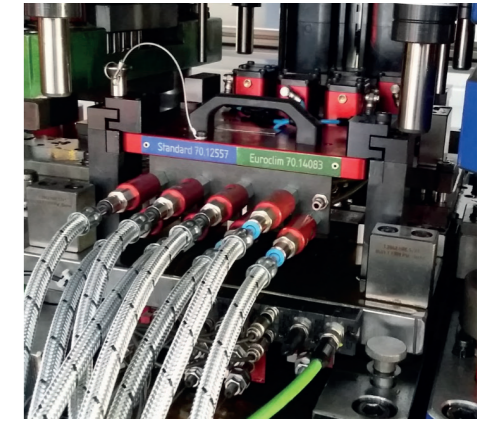
Spain

Type of tool: transfer die
Part group: seat
Components: 12 tappings, 2 Ø15 bushings and 2 M10 nuts
Material: HLE S420MC steel
Rate: 18 strokes/min
Model: SMF230 + TKN12E servo motor



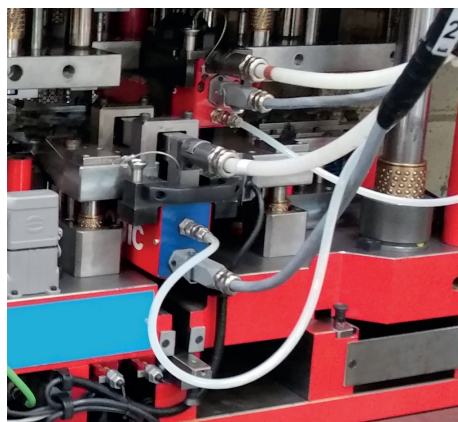
Poland

Type of tool: progressive die
Part group: seat
Components: 1 Ø9 pin
Material: HLE S500MC steel
Rate: 25 strokes/min
Model: SIF120



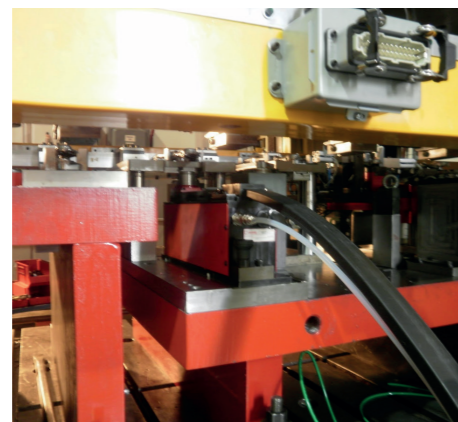
Germany

Type of tool: progressive die
Part group: body in white
Tap dimension: 8 x M5x0.80
Material: DD11 steel
Rate: 40 strokes/min
Model: TKN8E servo motor



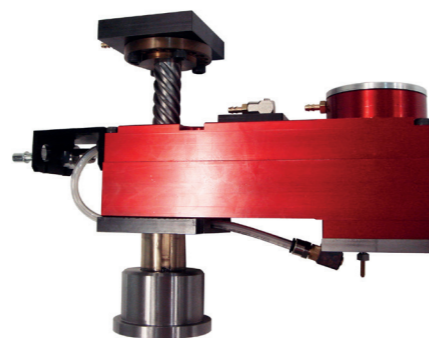
France

Type of tool: progressive die
Part group: engine
Components: 2 Ø10 ball joints
Material: DC01 steel
Rate: 30 strokes/min
Model: SIF240



Mexico

Type of tool: progressive die
Part group: seat
Components: Ø22 bushings
Material: HLE steel
Rate: 30 strokes/min
Model: SBF122



China

Type of tool: progressive die
Part group: electrical connection
Tap dimension: 1 tapping M4x0.70
Material: CuZn H16
Rate: 80 strokes/min
Model: B1B, mechanical

INSERTION

TAPPING

AUTOMOTIVE

ELECTRICS

BUILDING/ APPLIANCES

A word from the Director



Thierry ROSA

All of our products are tailor-made in order to meet precise production specifications. We are capable of bringing productivity to our clients, for simple or complex parts. We support them from the conception to the implementation of the solution, with the sole objective of a successful start-up from the first stroke. We put all of our expertise at the service of performance and client satisfaction.



PRONIC, WHEREVER YOU ARE

From project management to performance optimization

Customer testimonial

SNOP – Groupe FSD  *France*

Having listened to our requests (or our requirements), PRONIC has been proactive in satisfying the constraints of series production in both in-die tapping and insertion applications. Our satisfaction is their number one requirement.

RICHEZ Jérôme - "Stamping" Technical Department

Customer testimonial

Feinwerktechnik hago GmbH  *Germany*

Since 1998, we have been working with Pronic to implement in-die tapping automation solutions. Pronic is a reliable and innovative partner, which has allowed in-die tapping of our stamped parts to become faster and faster. I definitely see Pronic as the clear leader in this market.

Dierk Knoblauch - Proxy, Director of Operations

Customer testimonial

CHH  *Switzerland*

Hello team! It is with great pleasure that I send you this short message to inform you that we have been able to complete the production of tapped components via the assembly of our second module and the tapping device! My sincere thanks to you and your teams for all your hard work. I look forward to seeing you again!

Nicolas LIECHTI - Stamp designer at CHH Microtechnique SA, SWATCH Group

Customer testimonial

DIGIT  *China*

Thanks to the quality and reliability of Pronic's units, our productivity has greatly improved and being able to reuse Pronic devices has allowed us to significantly reduce our investment costs.

Michelle Zhen, Key Account Manager

Driven by Pronic, DIGIT is entering the era of automation tools.

Michael Xie - General Manager

Customer testimonial

Filtrum Autocomp Pvt. Limited - Pune  *India*

Working with Pronic is a very different and enjoyable experience compared to the other companies we work with. Their solutions meet our expectations perfectly. Pronic's experts are highly committed and reliable. In terms of business, it's a real model for others to follow. We look forward to working with this company again for our next tapping equipment.

Jaydeep Bhagat - CEO

Customer testimonial

M.S.Ambrogio do Brasil Ltda  *Brazil*

Working with PRONIC has allowed us to find effective and efficient solutions for our needs. In-die stamped parts with roll form tapping have become simple.

Felipe Martins de Moura - Engineering Project Manager

Reviews from our agents & distributors

Mikalor Tools & Engineering - Xavier Montaner-Garcia, CEO  *Spain*




The relational aspect is very important in Spain, and this is also one of Pronic's major qualities. The other fundamental point for the Spanish customer is the service and responsiveness to a problem ... and here all the customers are unanimous: PRONIC is always there for them.

Oishi Machine Inc - Takasawa Katsushi, Manager  *Japan*

Pronic's in-die solutions technology helps to increase productivity and reduce parts costs. It is an honour for us to be the Japanese agent promoting these tailor-made solutions offered by Pronic.

Our partner is also present in India



-  Pronic distributors, agents
-  Pronic direct sales
-  Pronic offices





pronic

In-die solutions



TAPPING



INSERTION



AUTOMOTIVE



ELECTRICS



BUILDING/
APPLIANCES

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