

Ten years of experience
in the production of tapping units

Direct Drive Tapping Unit

Patent Pending





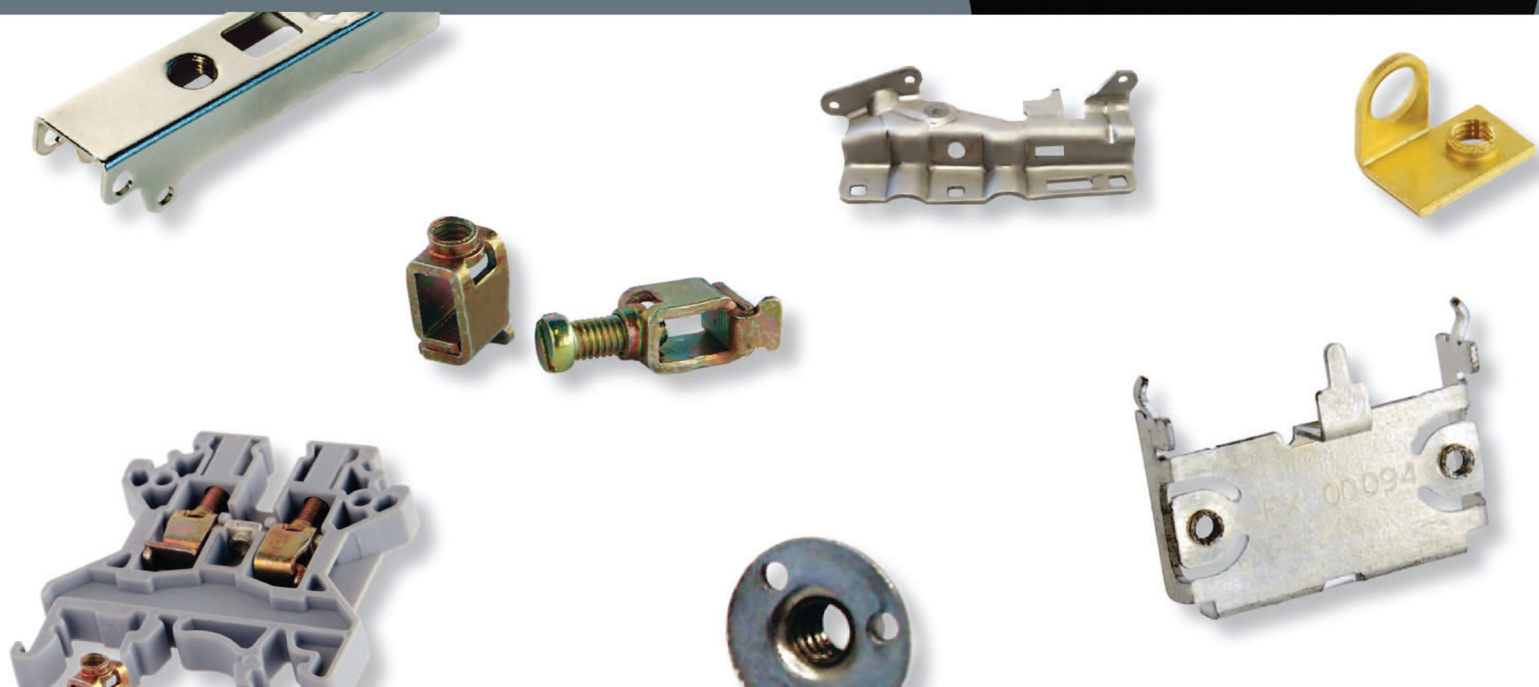
*Direct Drive DTAP
New touch screen:
All the best of
a simple touch.*



new

MULTI CONTROL PANEL

4 TOUCH SCREENS
TO CONTROL UP TO 4 DTAP,
EACH ONE INDEPENDENTLY.



DIRECT DRIVE DTAP, THE NEW THREADING MACHINE BY BORDIGNON. EFFICIENCY AND PRECISION AT THE DIE OPERATOR'S SERVICE.

New technology Direct Drive / New touch screen / Reduced size

With the new Direct Drive tapping unit DTAP, the companies Bordignon Trading srl and Bordignon Simone srl, reap the benefits of all the know-how gained in its ten-year production of electronic threading units, presenting on the market one of the most technologically advanced devices. Beginning with the machine itself, Bordignon threading unit DTAP is, a system which consists of two elements:

THE THREADING MACHINE

The Direct Drive motor allows direct transmission to the spindle eliminating intermediate components, such as gears and pulleys, which dissipate energy, create problems of space and require maintenance. No lead screw means great flexibility and simplicity in changing the thread pitch. Thanks to the direct transmission, the Direct Drive system provides greater force and exceptional reverse rotation, at the same time saving space, time and reducing maintenance costs. Unlike mechanical rack and pinion or lead screw systems, DTAP is operated simply with an electric impulse (START). The machine then

works independently from the die stroke and with any angle, by performing the thread in a fast and precise way not only in the dies, but also in other automation systems. A performance which is supported by a good resistance to liquids and other substances present in the moulding process.

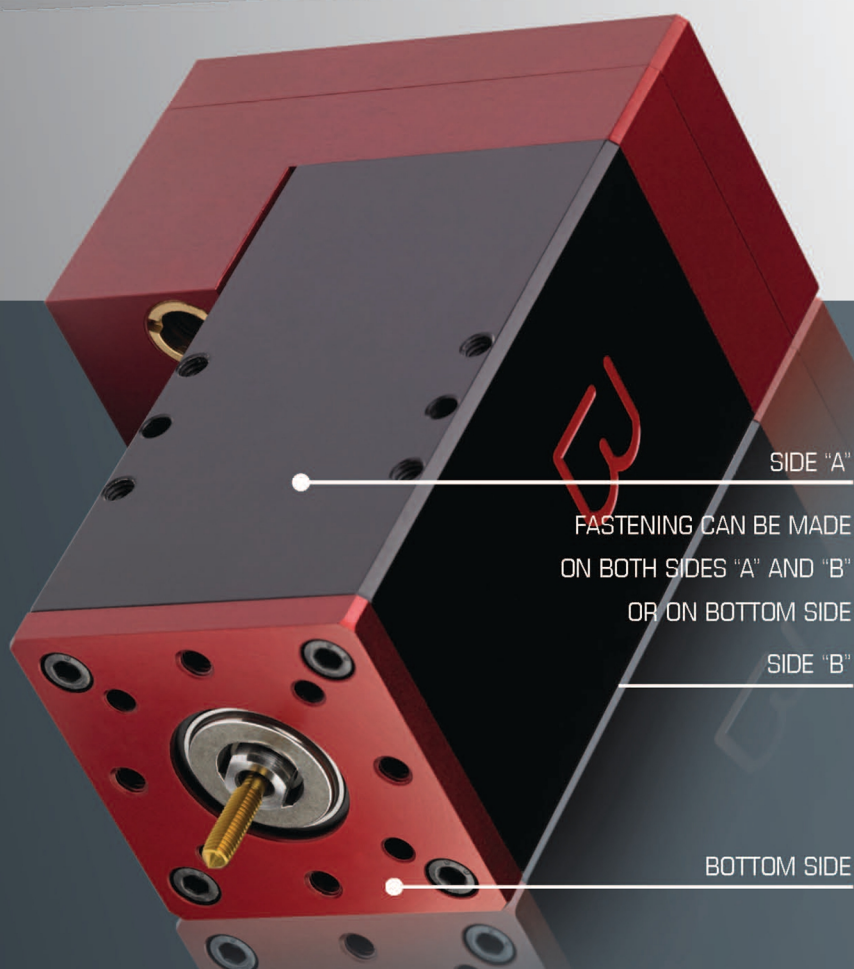
THE PANEL

The panel which can be single or multiple (up to four tapping units), it's a compact touch-screen of the latest generation that is used to operate the threading machine and ensures easy control at every stage of processing. It is provided with many features which make it an intelligent and intuitive tool. The operator himself, assisted by the indications on the panel, can easily enter all the configuration and control parameters necessary to obtain a perfect thread

The panel allows the following functions:

- Setting thread height.
- Setting thread speed (revolutions per minute), which remains

DTAP



CONTROL PANEL

to control one tapping unit



constant during the execution of the thread. The return phase is faster than the threading one, optimizing the time of production.

- Automatic and rapid approach of the tap to the hole.
- Indicator of process completed.
- Checking the wear of the tap.
- Checking the minimum and maximum torque.
- Changing the thread.
- Setting for left hand threading.
- Storage and backup of threading settings.
- Adjusting minimal lubrication.

Furthermore, the display indicates possible abnormalities such as:

- Hole not found.
- Maximum torque stress.
- Minimal torque stress.
- Threading process timeout.
- Breaking of the tap.
- Low oil level.

DTAP is available in three models, differentiated by size and force. Each one of them has been designed to operate with maximum performance a certain range of threads.

The operator can easily change thread dimensions by changing the tap holder in the machine and by setting the new parameters in the panel.

The absence of a mechanical guided device allows the operator to do this in a few minutes. Furthermore, once a particular thread has been processed, it is possible to memorize the data and parameters in the panel, so that the same operation can be repeated in the future.

The threading unit DTAP can be enhanced by an optional system for metering the minimum amount of lubricant to the thread. In fact, through the panel, you can set the lubricating time avoiding any waste of oil. In addition, by means of two independent screw adjustment devices, you can choose between a lubrication with a mixture of air and oil and one with only oil (less harmful to the environment because it avoids spraying).

MULTI CONTROL PANEL

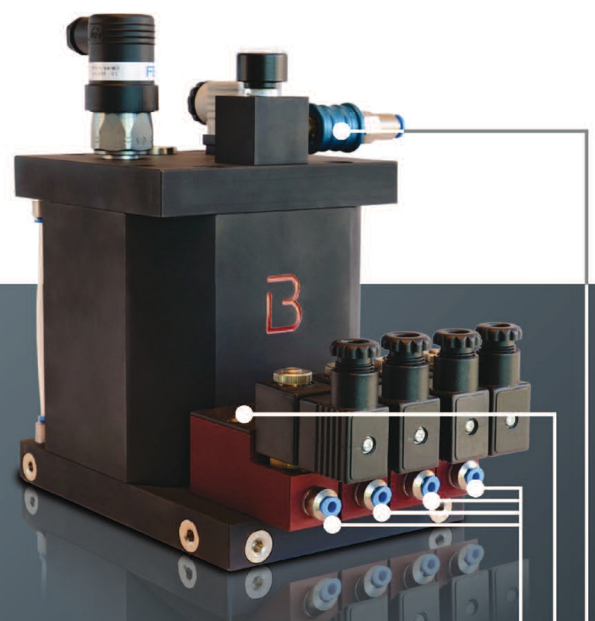
available to control from 2 to 4 units



4 TOUCH SCREENS TO CONTROL
UP TO 4 DTAP, EACH ONE
INDEPENDENTLY.

MINIMAL LUBRICATING PUMP

(optional)



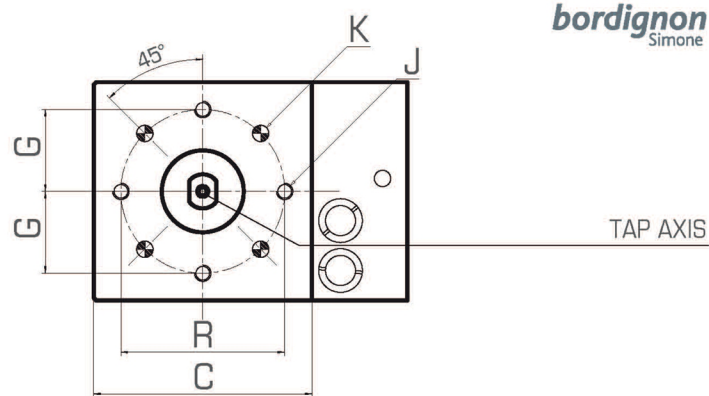
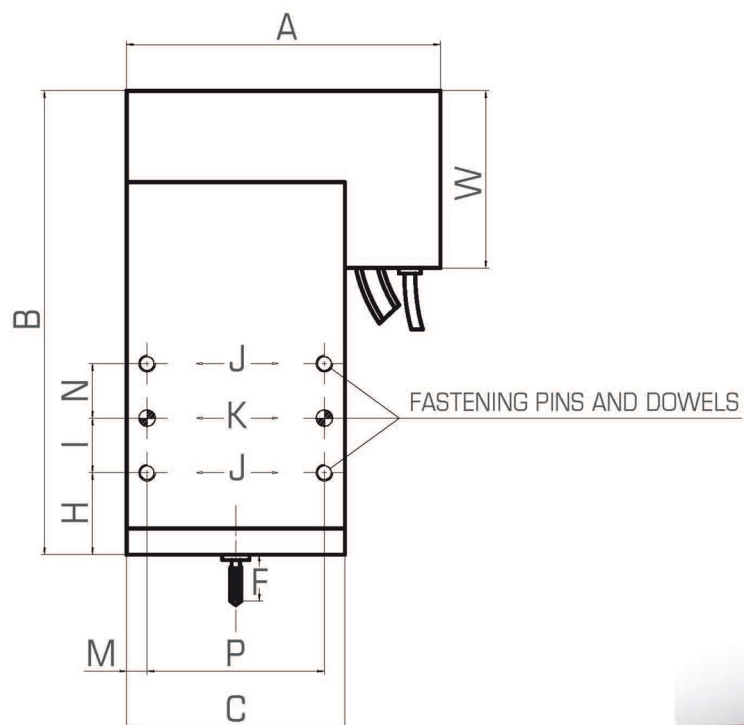
NOZZLE OUTLET PORTS Ø 4 mm FOR OIL/AIR MIXTURE

LUBRICATION FLOW CONTROL

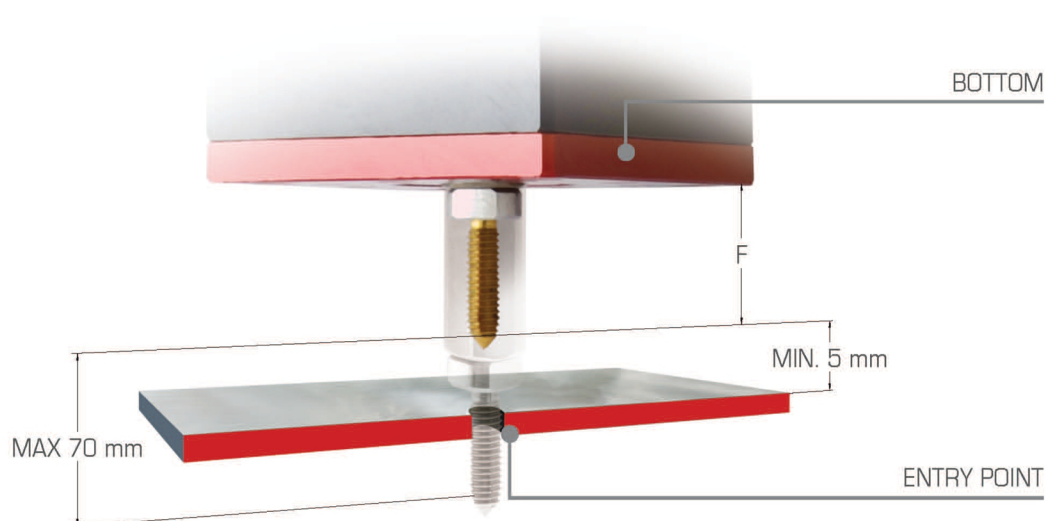
AIR INLET PIPE Ø 6 mm

FASTENING PINS AND DOWELS

BOTTOM VIEW



STARTING POSITION



REF. n°	A	B	C	G	H	I	N	M	P	R	W	J	K
DTAP1	100	150	65	25	35	15	15	5	55	50	65	M6	5
DTAP2	115	170	80	30	30	20	20	7,5	65	60	65	M6	6
DTAP3	125	195	90	35	30	20	20	7,5	75	70	65	M6	6

F	M2	M2.5	M3	M3.5	M4	M5	M6	M8	M10
DTAP1	12	12	14	16	17	18	20		
DTAP2					17	18	20	22	
DTAP3							25	25	30

QUOTATION REQUEST TECHNICAL FORM

☐

 COLD FORMING
TAP

☐

 CUTTING TAP

☐

 H: _____ mm
 D: _____ mm

☐

 H: _____ mm
 D: _____ mm

TAPPING _____
 MATERIAL TO THREAD _____
 TENSILE STRENGTH (N/mm²) _____

STROKES/MIN. _____
 THREADING TIME _____



BORDIGNON TRADING SRL

Via Volta, 20
36028 Rossano Veneto (VI) Italy
T +39 0424 36157
F +39 0424 382359
bordignon@bordignon.com
www.bordignon.com



BORDIGNON SIMONE SRL

Via Ramon, 84
36028 Rossano Veneto (VI) Italy
T +39 0424 540311
F +39 0424 541113
b.simone@bordignon.com



百越工业技术有限公司
中国 深圳 宝安 万华大厦606室
T +86 755 2371 0250
F +86 755 2371 0250
kong@excellit.cn
www.excellit.cn

www.bordignon.com

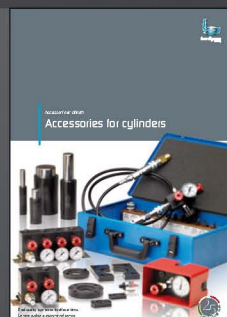
For Bordignon high quality products, take a look at our other catalogues.



Nitrogen gas springs for dies



Booster for nitrogen



Accessories for nitrogen gas springs



Air scrap remover



ISO 10243 die springs



BORDIGNON SIMONE Srl reserves the right to make modifications to the technical data of this catalogue, without prior notice