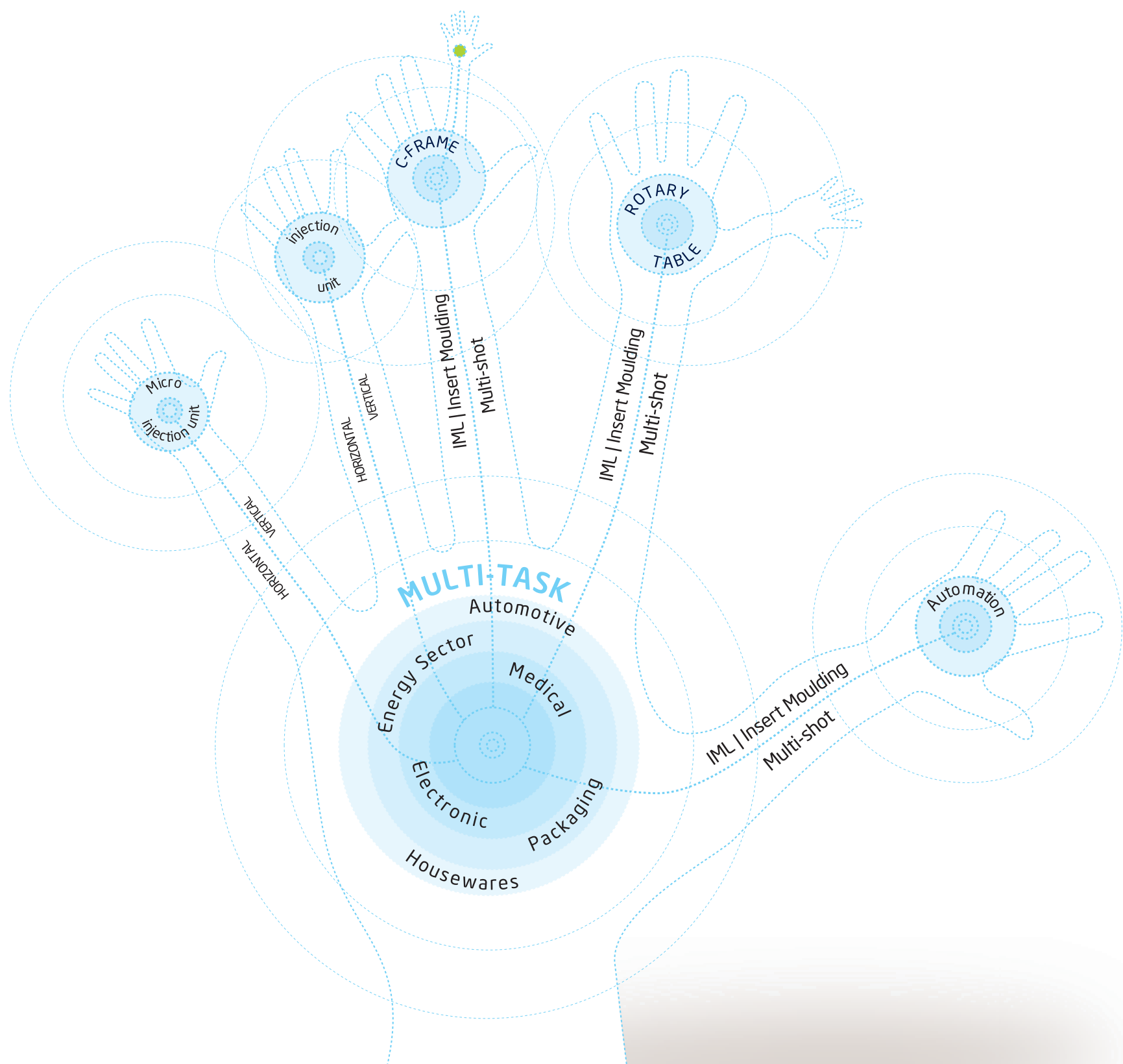


Sustainable INJECTION TECHNOLOGY



Plasdan
Automation & Systems ecosystems

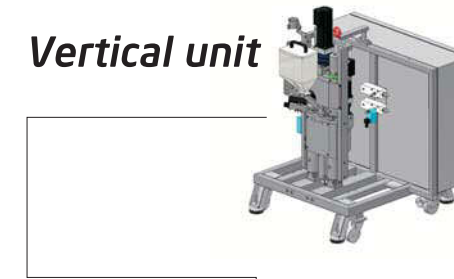
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Sustainable
INJECTION
TECHNOLOGY



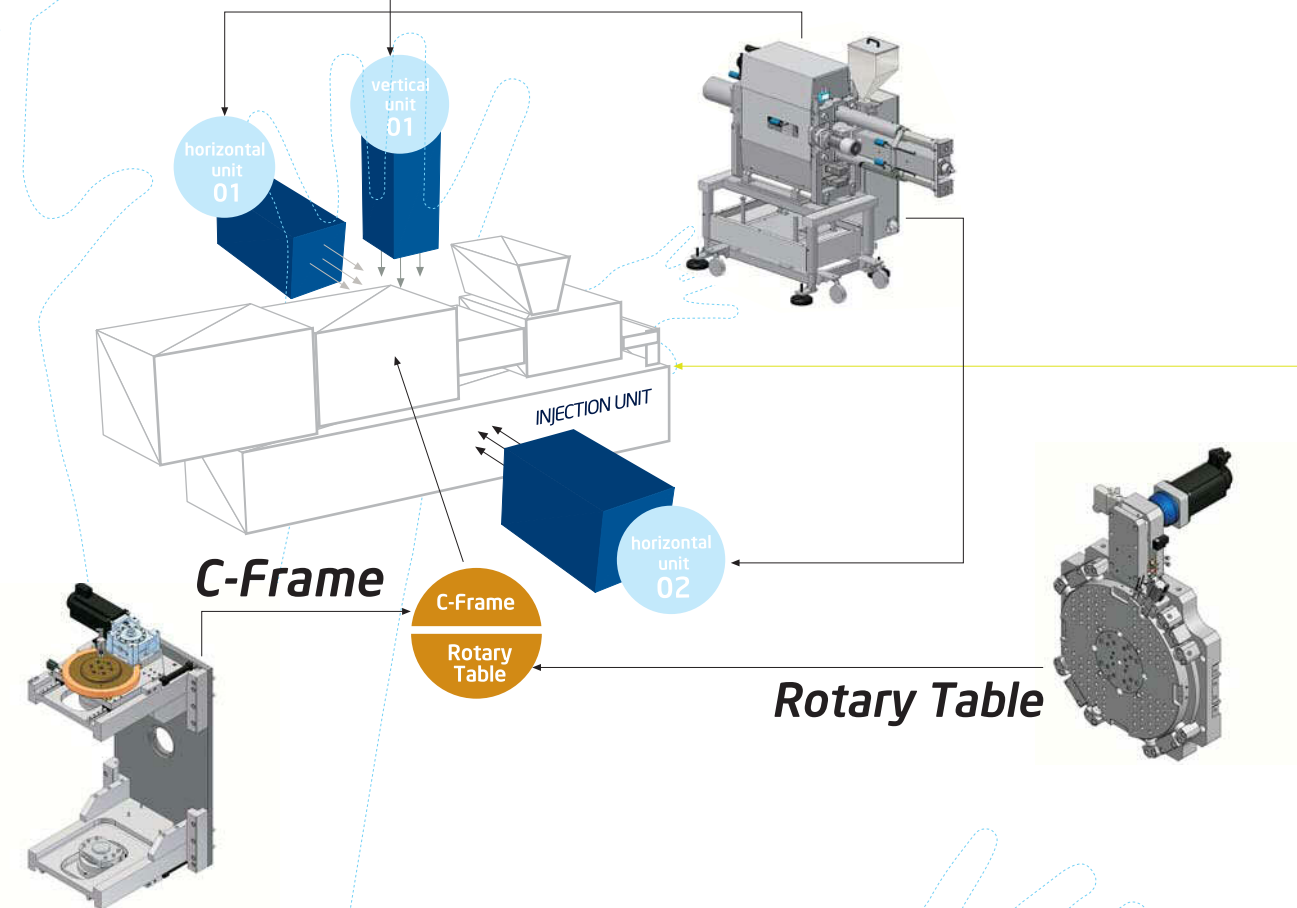
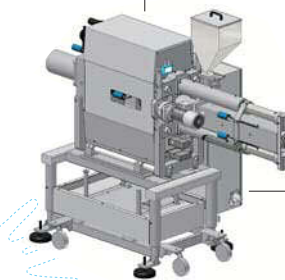
FLEXIBLE & INNOVATIVE TECHNOLOGY

Vertical unit

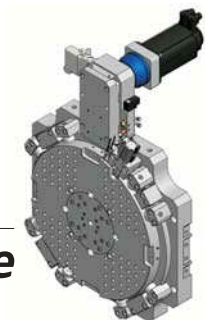


Evolve your standard
injection moulding machine
into a multi-shot capable machine

Horizontal unit



Rotary Table



Simple and economical solutions to transform your standard injection moulding machines into multi-shot capable machines

The top of the political, social and business agenda is the sustainability issue; companies may be held responsible for the impact of their operations at every stage. Managers must also deal with the expectations of a more environmentally aware public and the realization that reduced environmental impact must come without sacrificing product quality or function. This new environment offers the most progressive businesses fresh commercial opportunities to distinguish themselves from their competitors on the basis of both product quality and environmental performance. For these companies, leaner production processes, more recyclable designs and new ways of

delivering services with less material represent aggressive investments in a changing marketplace where environmental values have greater business currency.

Having the above in mind, Plasdan's target is also to increase the sustainability and productivity of its customers by transforming or adapting existing machinery in order to obtain cleaner, leaner, more flexible and cost-effective production. We offer integrated solutions for multi-component production with your existing machinery - rotary tables, injection units and moulds



Innovative & Sustainable Technology



Leader in fully Electric Solutions

HORIZONTAL



MULTI-SHOT TECHNOLOGY

VERTICAL



Advantages:

- Flexible use on your existing machines
- High precision
- Excellent repeatability
- Easy installation
- Cost-effective
- Energy & space savings
- Increased productivity
- Low maintenance



portable control panel

INJECTION UNIT SPECIFICATIONS												Full-ELECTRIC		
INJECTION UNIT	Units	EL.0028			EL.0120			EL.300				EL.600		
Screw diameter.	mm	16	18	20	22	25	30	25	30	35	40	40	45	50
Swept volume.	cc	16	20	25	41	61	98	61	106	168	251	251	357	490
Max. shot weight.	g	14	18	23	37	55	88	55	96	152	227	226	322	442
Max. injection pressure, direct.	bar	2000	1600	1320	2200	2000	1600	2450	2000	1800	1400	2100	1700	1400
Max. Injection pressure, regenerative.	bar	N/A			N/A			N/A				N/A		
Screw L:D ratio.	L/D	22,5	20	20	20	20	20	22,4	22,8	19,6	19,5	22	20	20
Screw stroke.	mm	80			110	125	140	125	150	175	200	200	225	250
Screw torque, standard.	Nm	85			200			520						
Nozzle sealing force.	kN	28,5			30			40				80		
Max. nozzle retract stroke.	mm	60			80			100				150		
Heating capacity.	kW	2,2	2,2	2,2	4,5	5,1	5,1	5,1	5,1	8,6	8,6	11	11	11
Number of heating zones.	qty	3+Nozzle			3 + Nozzle			3 + Nozzle				3 + Nozzle		
Max. linear velocity of screw, direct.	Mm/sec	112			130			155	155	155	135	140		
Max. linear velocity of screw, regenerative.	mm/sec	N/A			N/A			N/A				N/A		
Max. Injection rate, direct	g/sec	21	25	30	44	58	83	92	92	125	140	159	201	248
Max. Injection rate, regenerative .	g/sec	N/A			N/A			N/A				N/A		
Screw speed range, standard drive.	r.p.m.	320			300			300				300		
Electrical Supply	V	400/480			400/480			400/480				400/480		
Maximum current:	A	16			32			50				125		

In addition, our Electric Drive Injection Units offer these additional benefits.

- Quiet operation
- Smaller Package
- Cleaner - no hydraulic oil
- More energy efficient

Host Machine Interface:

- Our modular injection units communicate to the host machine through signals available in the standard Robotic Interface.
- If a Robotic Interface is not available, the injection unit will need various commands and safety signals in order to synchronize with the host.

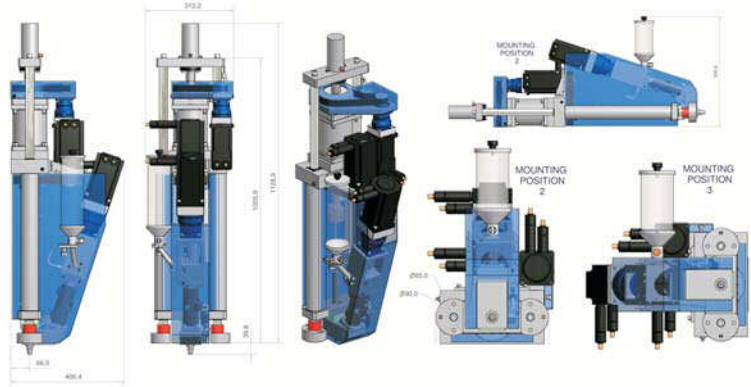
Injection Unit Controller Options - In addition to sophisticated injection control, we offer:

- Six zone sequential valve gate control
- Up to 24 zone hot runner controls
- Rotary table control

Integrating these functions into our powerful controller reduces system costs, saves floor space, and wiring.

MICRO INJECTION UNIT

New Development
Stand-alone Micro Injection unit
Fully Electric



Highly demanding industries, such as medical and electronics, are requesting an extremely accurate and repeatable injection process. Plasdan developed a new line of micro injection units, capable of injecting less than 1cm³. We can offer these injection units as stand-alone devices or integrate them into a complete automated production line.

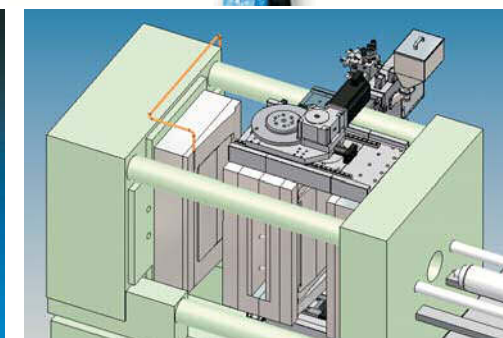
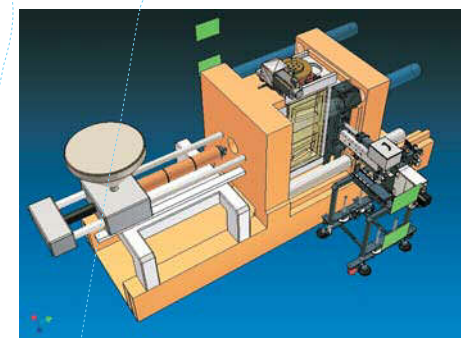
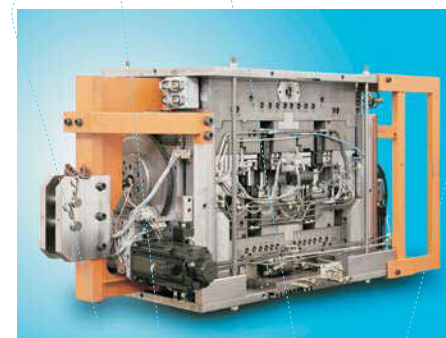


As a leader in fully electric multi-shot solutions, Plasdan is capable to evolve your equipment without a huge investment. Our patented tools offer you the opportunity to improve your competitiveness.

Stack mould rotating Main characteristics:

- Separated from the mould, so different modular mould core assemblies can be mounted.
- Independent from machine clamp constraints
- Fitting into any appropriately sized moulding machine

- Directly supported by the molding machine structure and fixed on one of the machine platens
- The C-support construction often enables the changing of rotary stack molds while in the press



C-FRAME

MULTI-SHOT SOLUTIONS

Rotary Table

ROTARY TABLES SPECIFICATIONS

STANDARD MODELS	PRX.0450	PRX.0550	PRX.0650	PRX.0750	PRX.0850	PRX.0950	PRX.1000	PRX.1100	PRX.1200	PRX.1300	PRX.1400	PRX.1800
Table Diameter [mm]	450	550	650	750	850	950	1000	1100	1200	1300	1400	1800
Table Thickness [mm]	130	130	130	130	193	193	193	193	193	213	213	228
Rotary Table weight [kg]	300	350	550	690	1250	1350	1430	1700	2330	2800	3160	5150
Max. Tool weight [kg]	300	550	850	1350	1900	2200	3200	4000	5000	5500	6000	9000
Number of cooling circuits	2	2W+20	2W+20	2W+20	4W+40	4W+40	4W+40	4W+40	4W+40	4W+40	4W+40	4W+40
Rotation time [s]	2	2	2	3,5	3,5	3,5	3,5	3,5	3,5	4	4	4,5

The conventional rotary table is a positioning device, fixed on the machine platen. It is equipped with an electrical servomotor for fast, precise mold rotations and PLC control with an engineered interface to the host machine. If Plasdan supplies the injection unit, the PLC and controls for both the rotary table and the injection unit can be shared.

Main Characteristics:

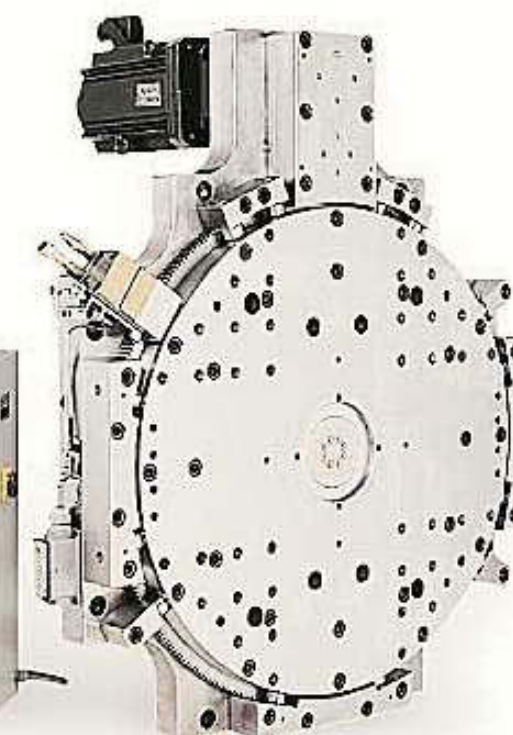
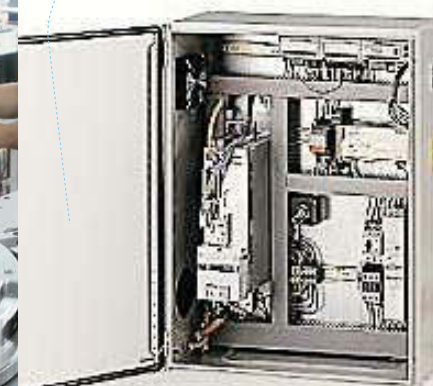
Centering holes and lock pin to ensure position before the mould closing

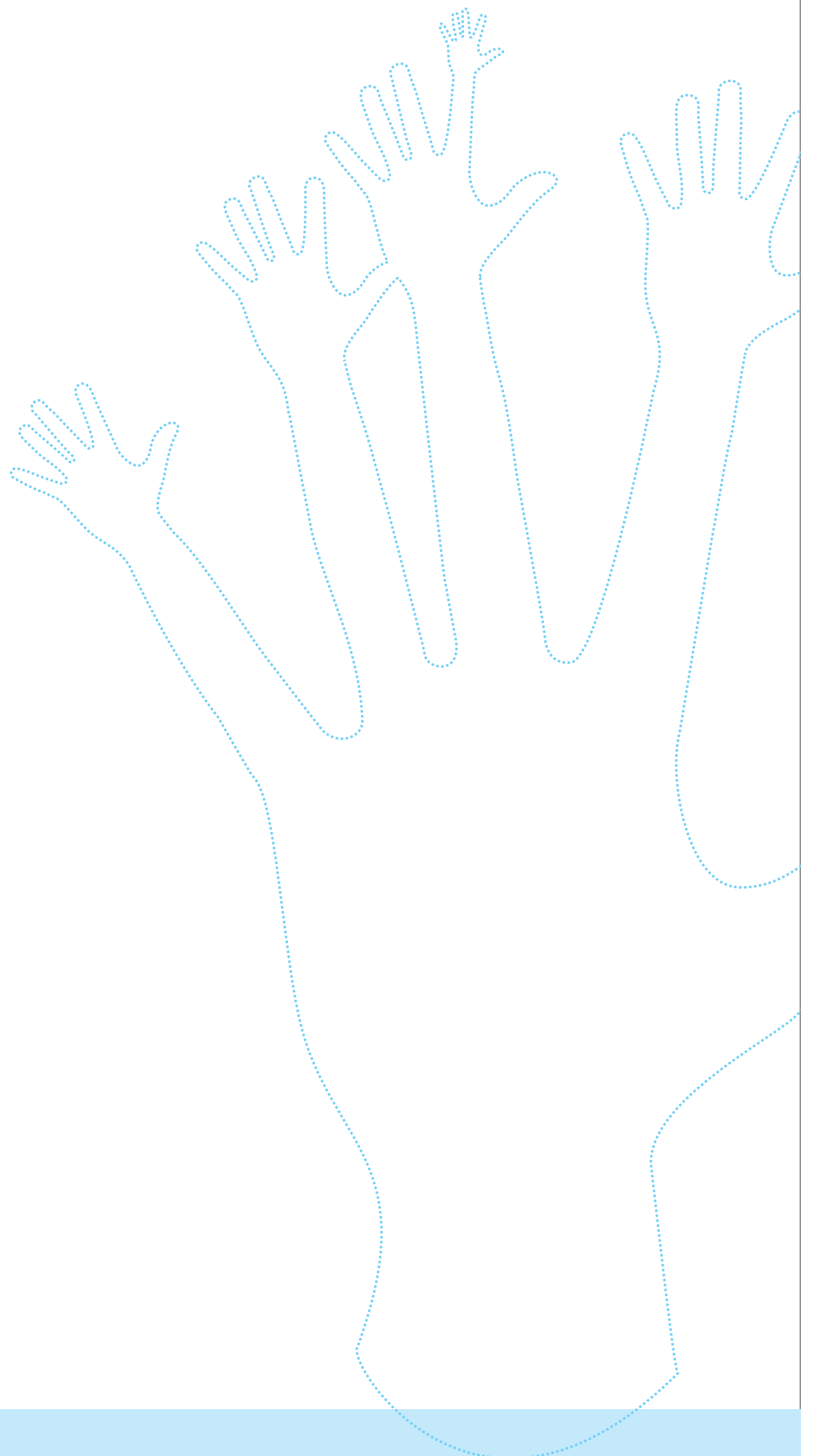
Mould mounting bolt pattern and knock-outs per customer request (i.e. SPI, Euromap, or custom)

Water and Air circuit connections on rear of unit.

Can be used for 180° (2-shot), 120° (3-shot), or other moulding scenarios.

Standard components and electronics (service parts available worldwide)





www.plasdan.pt



Leader in Fully Electric Multi-Shot Solutions

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