



**MAPLAN – Vision becomes reality**

2017

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Philippe and Ingrid Soulier/owner, Wolfgang Meyer/CEO

## Welcome to the world of MAPLAN

Maplan manufactures machinery for the production of rubber and silicone parts. Machine quality plays a large part in making sure that parts produced on a Maplan Machine are of the highest quality. From deep sea oilfields and pharmaceutical products to power showers, washing machines and the smoothest ride on a train they all require quality and that is exactly what you will get from a Maplan Machine.

Power of innovation quality and partnership are the core pillars of our approach to business at MAPLAN. We strive to consistently improve our high-quality products and offer our customers a decisive advantage with the latest technologies in order to be able to operate successfully in the market with a future-oriented approach.

We are also committed to providing our customer with the best advice working closely together to tailor solutions for all our partners worldwide. We have prepared the following portfolio to show our capabilities.

Welcome to the world of MAPLAN.

Philippe and Ingrid Soulier

Wolfgang Meyer





## Designed for the future

MAPLAN opened a new facility in Kottingbrunn in the third quarter of 2016. The state-of-the-art plant near Vienna is distinguished by even greater efficiency thanks to optimised processes, increased capacity and, of course, production at the highest technological level. The plant also sets new standards in logistics. With the investment in this new location and its possibilities for expansion, we are now even better prepared for a successful future with machinery 'Made in Austria'.

Sustainable work is important to us not only for our machinery. We also want to meet future environmental standards and we play our part to protect the ecosystem with the new factory. We do this with alternative heating and cooling systems, a photovoltaic power system and a fleet of electric vehicles.



Photovoltaic system



Electric cars



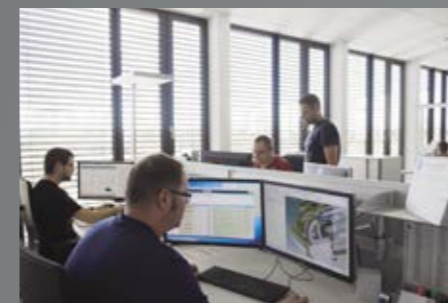
Heat pump





### Open Friendly Office

Planning and consultation at the highest level are at least as important as excellent production. We have emphasised these areas with the new concept for our offices. Our specialists are better linked with open office spaces, which guarantee the necessary environment to continue to promote our innovations. Our employees should also feel at ease with the efficiency in the workplace. This is assured with ergonomic work and meeting areas, shared spaces and a more open working atmosphere. Of course, we also welcome your visit at any time.



Intelligent office layout



Communication areas



Shared spaces





### Production at a high level

New location, new production: Since our relocation to Kottlingbrunn, we at MAPLAN have committed to line production. This has a positive effect on our cycle times and assures the quality to which you are accustomed. In order to remain fit for tomorrow, a new technological centre for testing and development has also been established in the factory. This is where we develop the innovations that will assure your commercial success.



High-tech storage



Flexible hall concept



Modern line production





## More than 40 machine types

### Geared towards your requirements

Design, clamping force, injection volume, operation, equipment, etc. - our machines are as versatile as your areas of application. Our machine programme is the result of extensive experience gathered over many years as a partner for elastomer processing and the continuous improvement of our systems. With various series, clamping systems and equipment variants, we guarantee that we can provide you with the perfect machine for your application.



Automotive



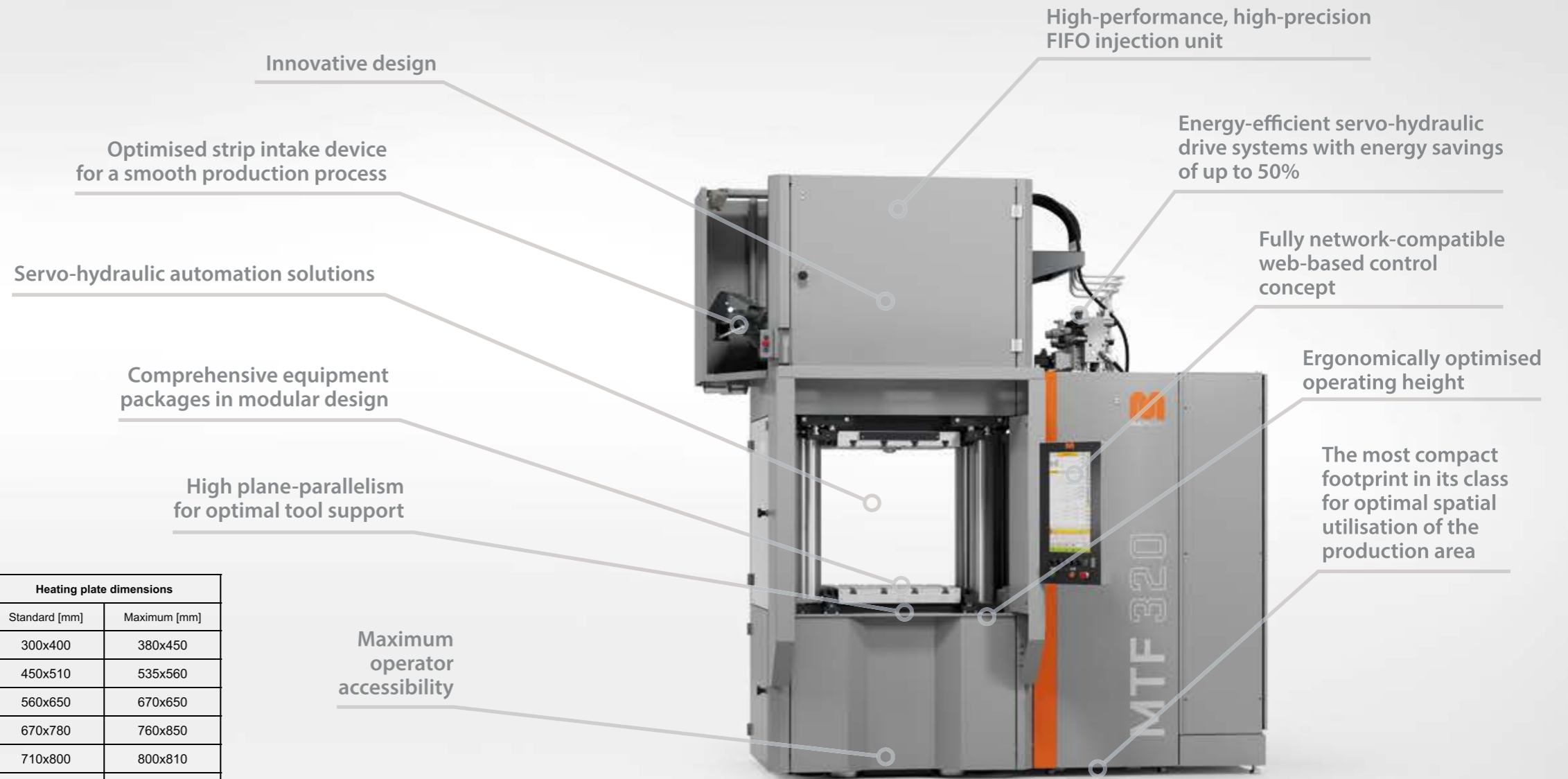
Sealing technology



Vibration technology



Rubber - metal



## Overview of models

TYPES	Clamping force [kN]	Injection volume [cm <sup>3</sup> ]	Heating plate dimensions	
			Standard [mm]	Maximum [mm]
MAPLAN MTF 90	900	200 - 700	300x400	380x450
MAPLAN MTF 160	1600	750 - 2000	450x510	535x560
MAPLAN MTF 250	2500	1500 - 3500	560x650	670x650
MAPLAN MTF 320	3205	1500 - 3500	670x780	760x850
MAPLAN MTF 460	4600	2500 - 6000	710x800	800x810
MAPLAN MTF 650	6500	4000 - 12500	1000x1100	1100x1200
MAPLAN MTF 800	8000	4000 - 12500	1000x1100	1100x1200

## Performance meets efficiency

The MAPLAN MTF vertical series is an absolute all-rounder for the production of rubber mould and silicone moulded parts. The entire series is equipped with the energy-saving servo-hydraulic MAPLAN CoolDrive®II and our high-precision FIFO injection unit. The MTF vertical series trump card is its vast choice of equipment components and process-optimising options that we can configure to your requirements.



Choice of equipment components  
Numerous equipment packages  
available for process optimisation



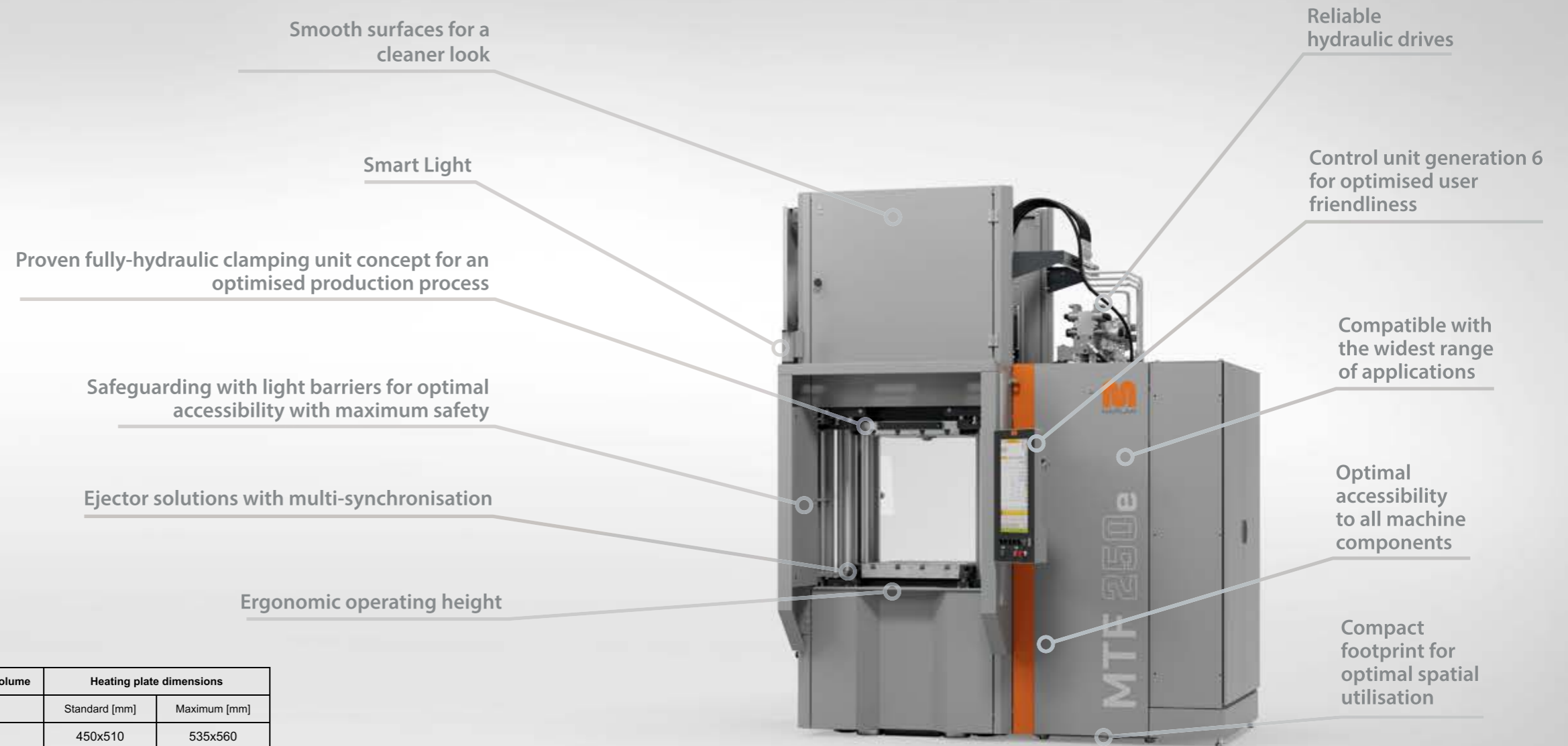
Optimised heating plate insulation



MAPLAN Stuffer  
The perfect solution for processing  
solid silicone



MAPLAN CoolDrive®II  
Improved energy efficiency with  
modern servo-electric drives



## Overview of models

TYPES	Clamping force [kN]	Injection volume [cm <sup>3</sup> ]	Heating plate dimensions	
			Standard [mm]	Maximum [mm]
MAPLAN MTF edition 160	1600	750	450x510	535x560
MAPLAN MTF edition 250	2500	1500 - 2000	560x650	670x650
MAPLAN MTF edition 400	4000	2500 - 3500	710x800	800x810

## Proven in production at the highest level

With a machine from our proven and now updated MTF edition series, you are ideally equipped for the widest range of applications. Our powerful drive systems are used for all clamping force variants. The safety of your employees is also guaranteed with light curtains and safety glass.

An especially attractive price-performance ratio is another feature of the MAPLAN MTF edition.



**Safety technology**  
Consistent reliability and safety for machine and operating personnel

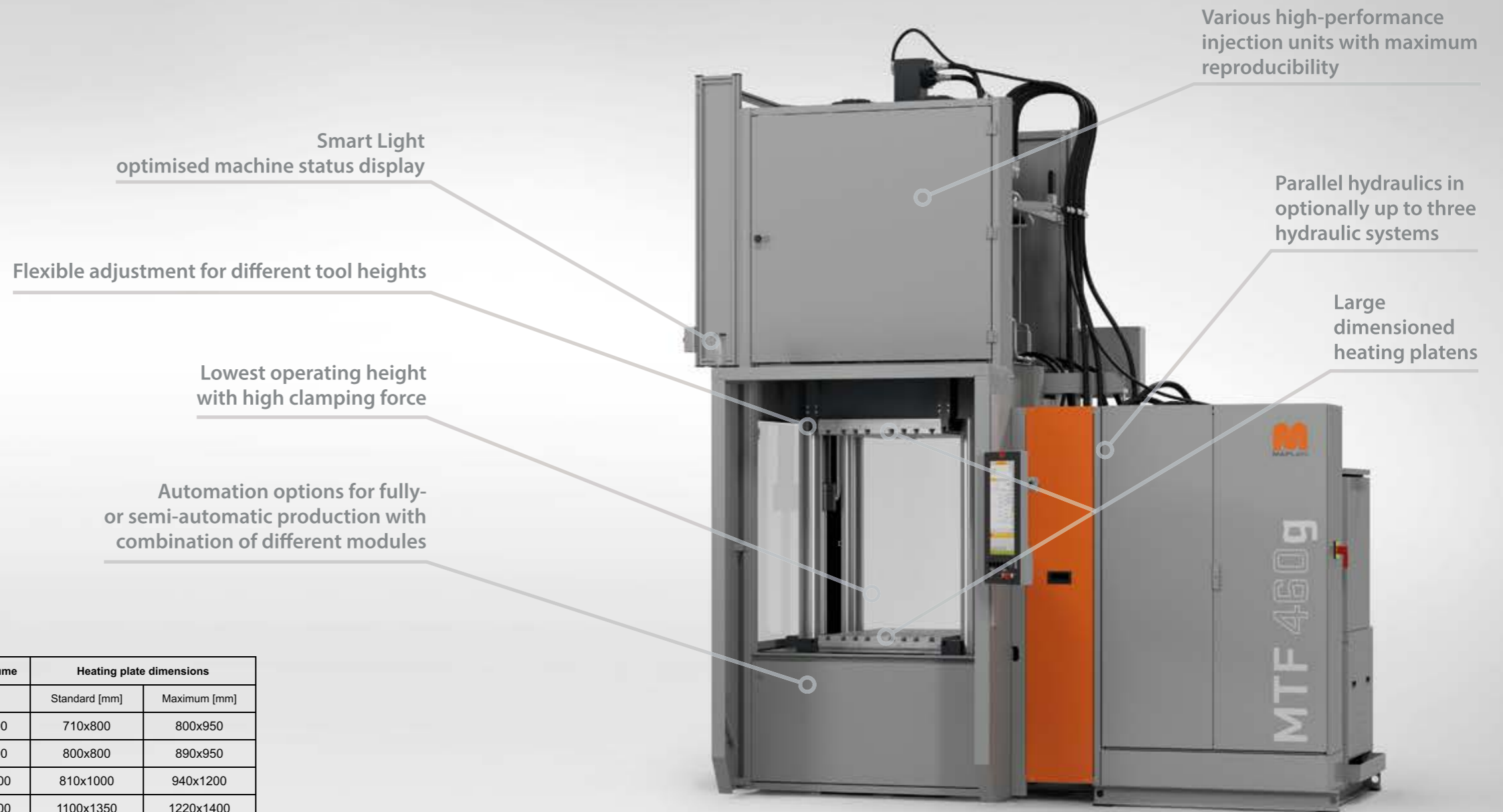


**C600.web**  
New powerful machine control unit for high demands



**Hydraulic drive**  
Reliable hydraulic drives with axial piston pump design





## Overview of models

TYPES	Clamping force [kN]	Injection volume [cm <sup>3</sup> ]	Heating plate dimensions	
			Standard [mm]	Maximum [mm]
MAPLAN MTF 460 ergonomic	4600	2500 - 8000	710x800	800x950
MAPLAN MTF 460 ergonomic WB	4600	2500 - 8000	800x800	890x950
MAPLAN MTF 650 ergonomic	6500	4000 - 12500	810x1000	940x1200
MAPLAN MTF 900 ergonomic	9000	4000 - 12500	1100x1350	1220x1400

## Ergonomics all the way

With our MTF ergonomic series, we are setting new standards in precision and processing quality - in fully-automatic or semi-automatic production. It also has the advantage of flexible adjustment for different tool heights in combination with high clamping forces. The feature that gives the series its name is the especially ergonomic design for easy handling and efficient processes.



**Ergonomic clamping unit**  
Flexible adjustment for different tool heights in combination with low operating height



**C6000.web**  
New control unit for high standards

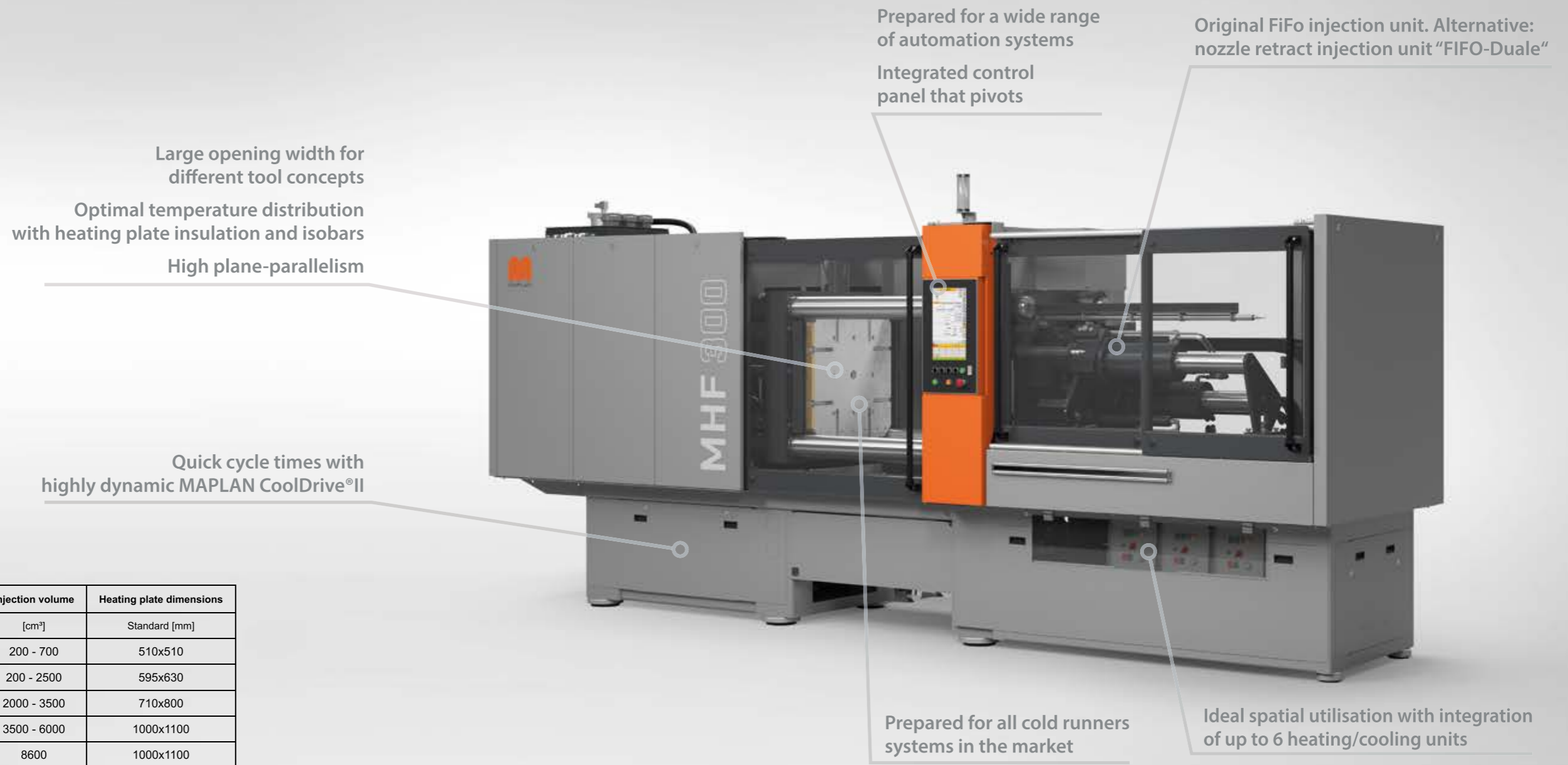


**Automation**  
Numerous proven automation solutions for an optimised process



**FIFO injection unit**  
MAPLAN FIFO injection unit with injection volumes from 2500cm<sup>3</sup> to 12,500cm<sup>3</sup>





## Overview of models

TYPES	Clamping force [kN]	Injection volume [cm <sup>3</sup> ]	Heating plate dimensions Standard [mm]
MAPLAN MHF 200	2000	200 - 700	510x510
MAPLAN MHF 300	3000	200 - 2500	595x630
MAPLAN MHF 400	4000	2000 - 3500	710x800
MAPLAN MHF 650	6500	3500 - 6000	1000x1100
MAPLAN MHF 800	8000	8600	1000x1100

## New standard in efficiency

Our MHF machine concept is based on our newest technological standards and combines performance with efficiency.

Thanks to the large-dimensioned, rigid clamping unit in combination with our high-precision MAPLAN FIFO injection unit, the widest variety of seal elements or mould articles can be produced with minimal reworking.

In addition to the highest precision and efficiency, another MHF series feature is the low-maintenance design.



**Pivoting control panel**  
Our control panel is integrated directly on to the machine and assures easy access along with userfriendly features



**Brush and demoulding systems**  
Fully automatic demoulding devices and brushes for production of precise O-rings, seal elements and mould articles

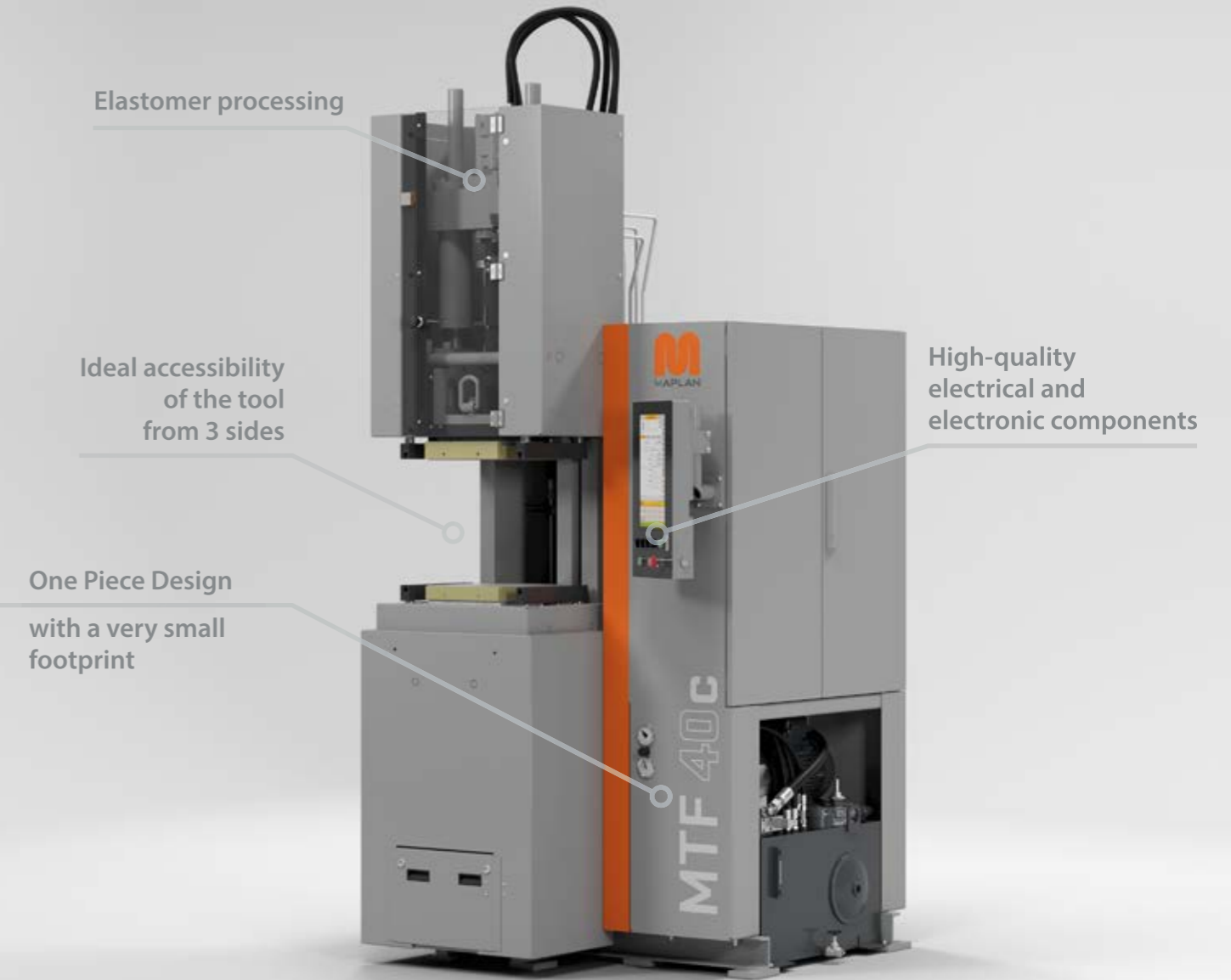
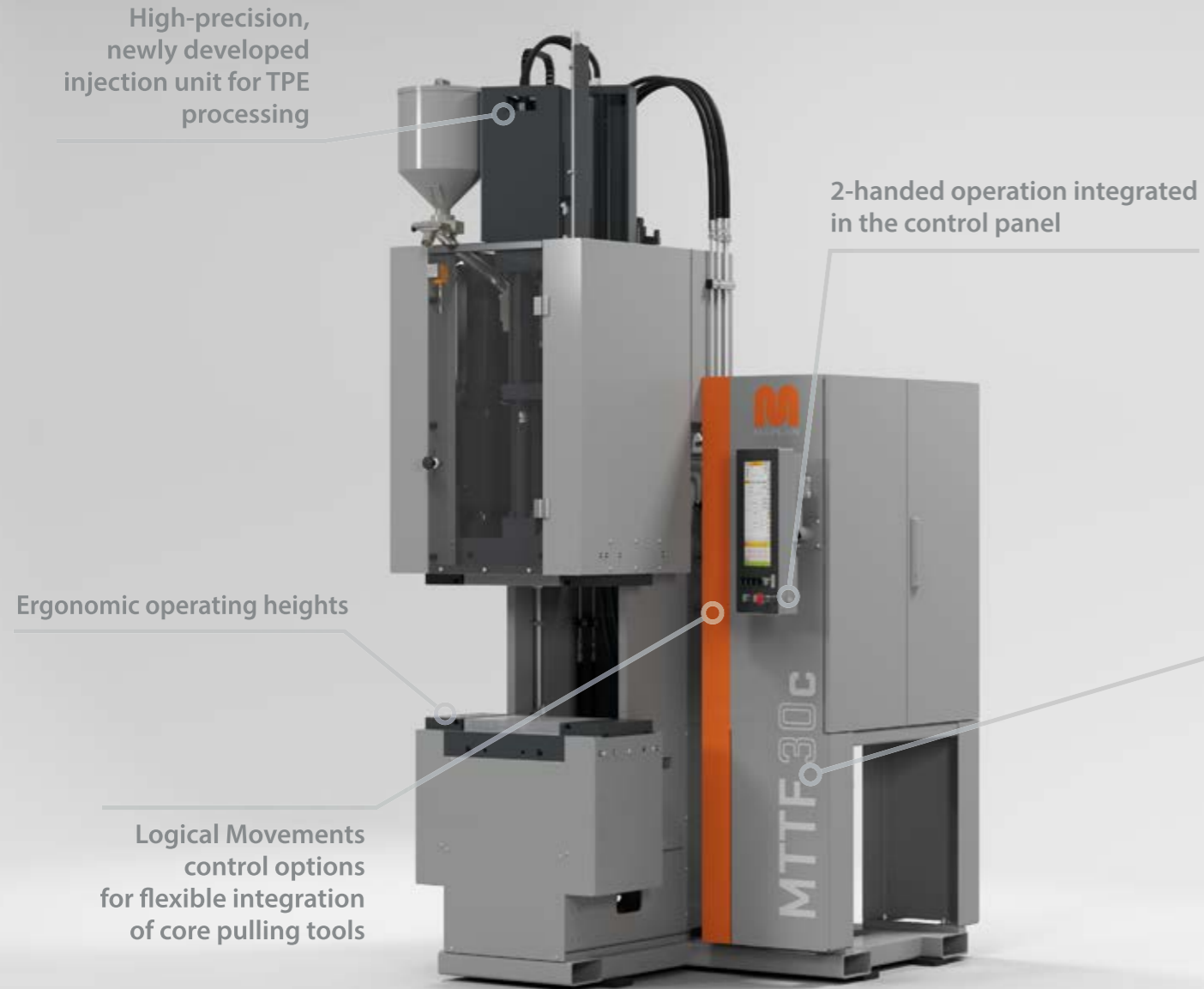


**MAPLAN-CoolDrive®II**  
The MAPLAN CoolDrive® drive system enables especially fast cycle times for our horizontal series



**FIFO Duale**  
On request, various MAPLAN FIFO injection units are available with hydraulic nozzle lift-off for flexible adaptation to different tool situations





**Special solutions for special requirements**

Our proven and compact solutions in the C-frame design are perfectly equipped for production of special rubber items with maximum access around the working area.

With our newly developed injection unit, TPE can be processed with the precision that you are already accustomed to with Maplan Machines.

The optimised operating height of this series completes this intelligent one-piece design.

C-frame sizes from 20 to 100 tons clamping force.



2-handed operation  
 Safe 2-handed operation of C-frame machines integrated in the new control panel

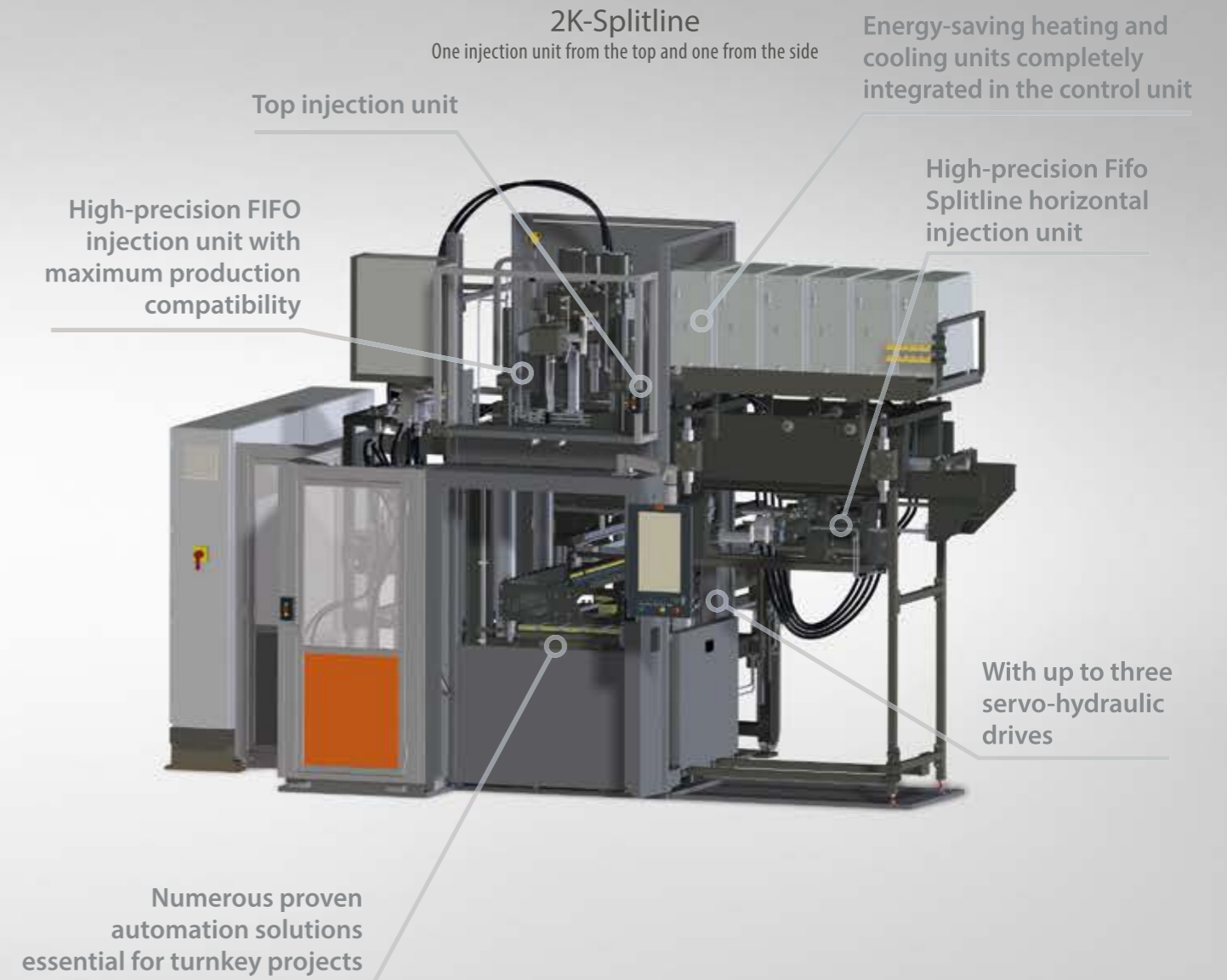
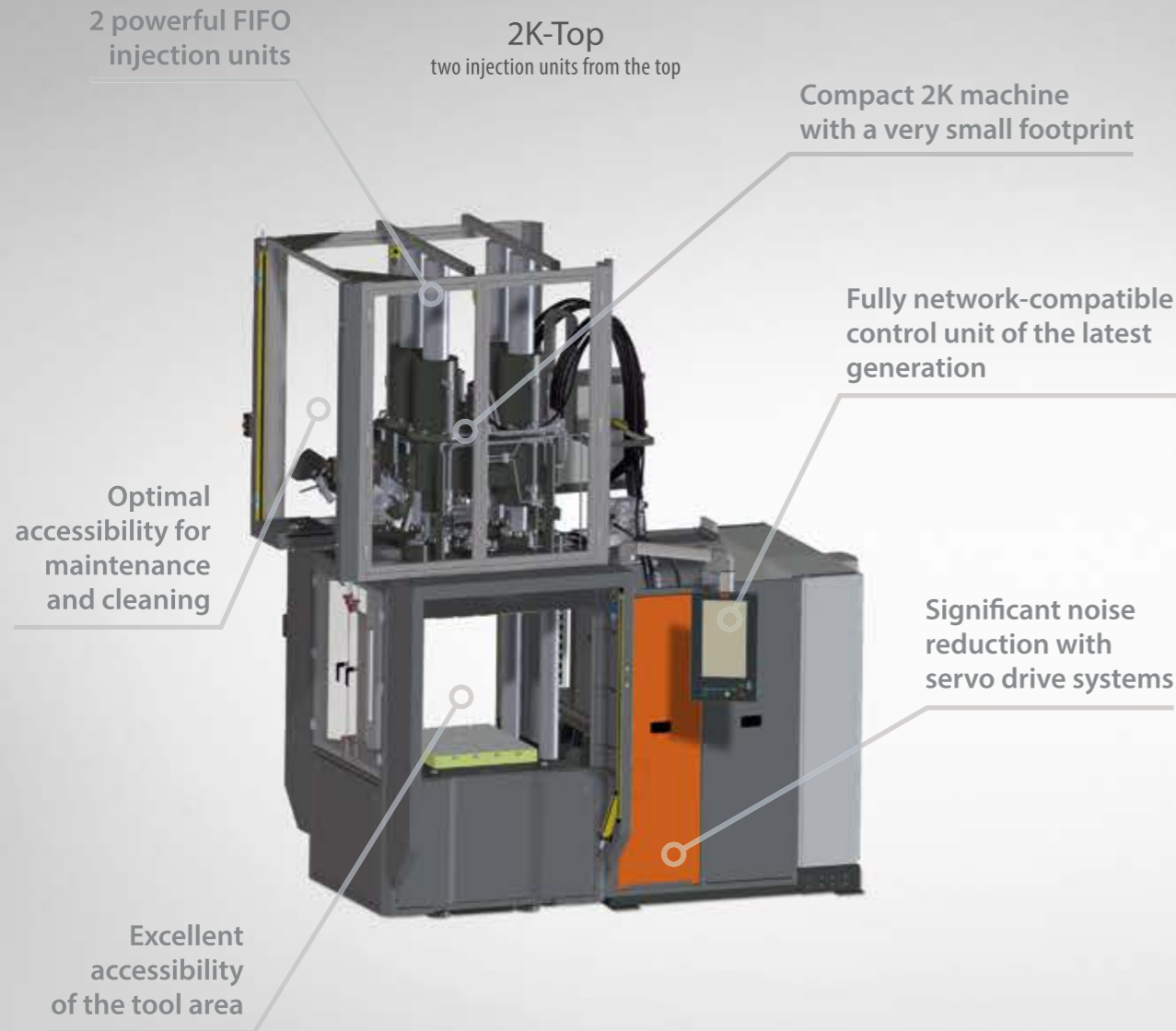


Typical C-frame application  
 MAPLAN C-frame series for the widest range of applications



New TPE injection unit  
 MAPLAN TPE injection unit for optimised processing of products from thermoplastic elastomers





## Two components, one solution

With the MAPLAN 2-component technology, you can produce components with difficult geometries and optimal features.

This technology gives you the possibility of simultaneous injection or injection in succession of identical or different material mixtures.

Since our 2K technology is available with two vertical injection units or one vertical and one horizontal injection unit, the position of the injection can be customised to meet your requirements.



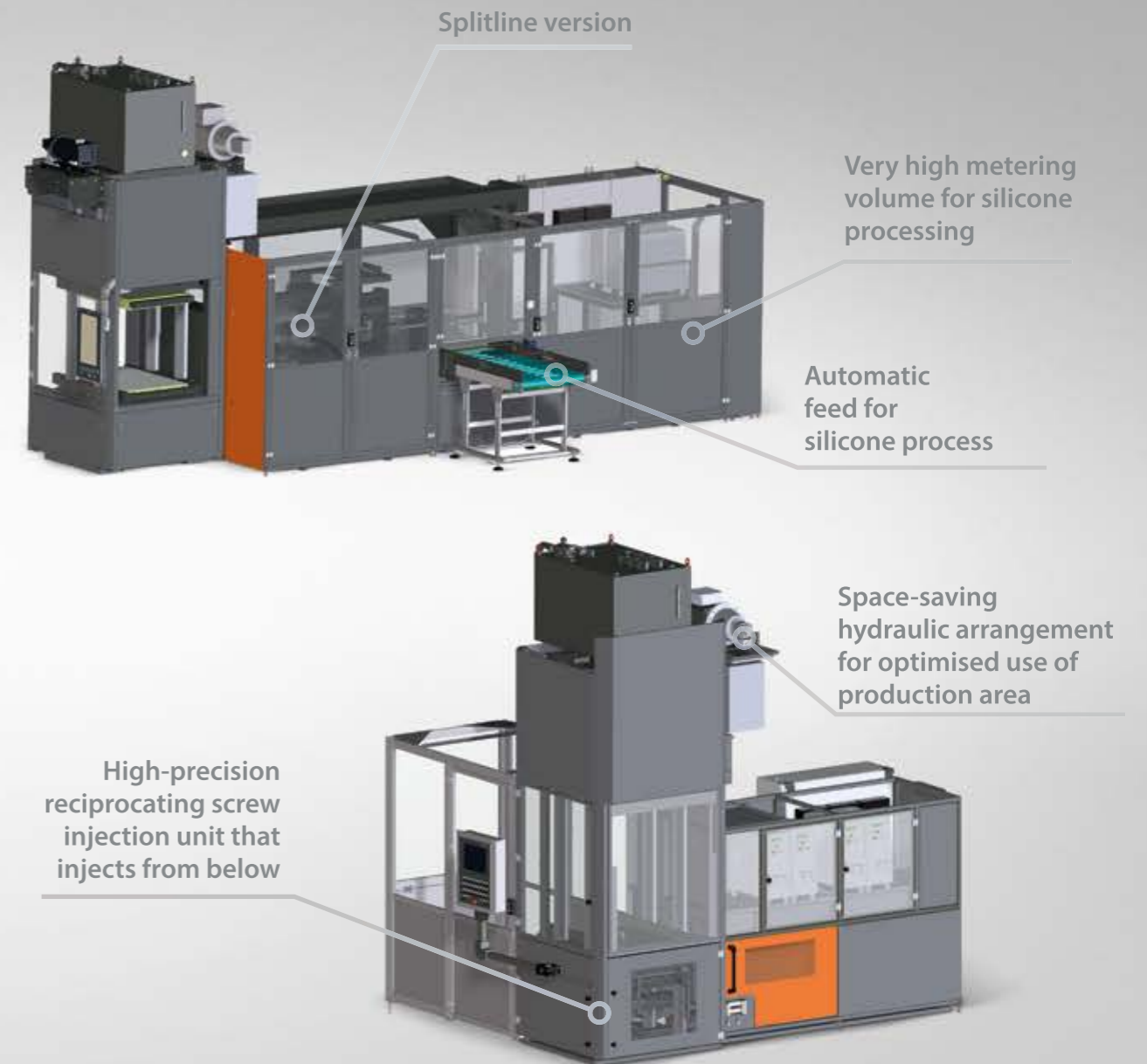
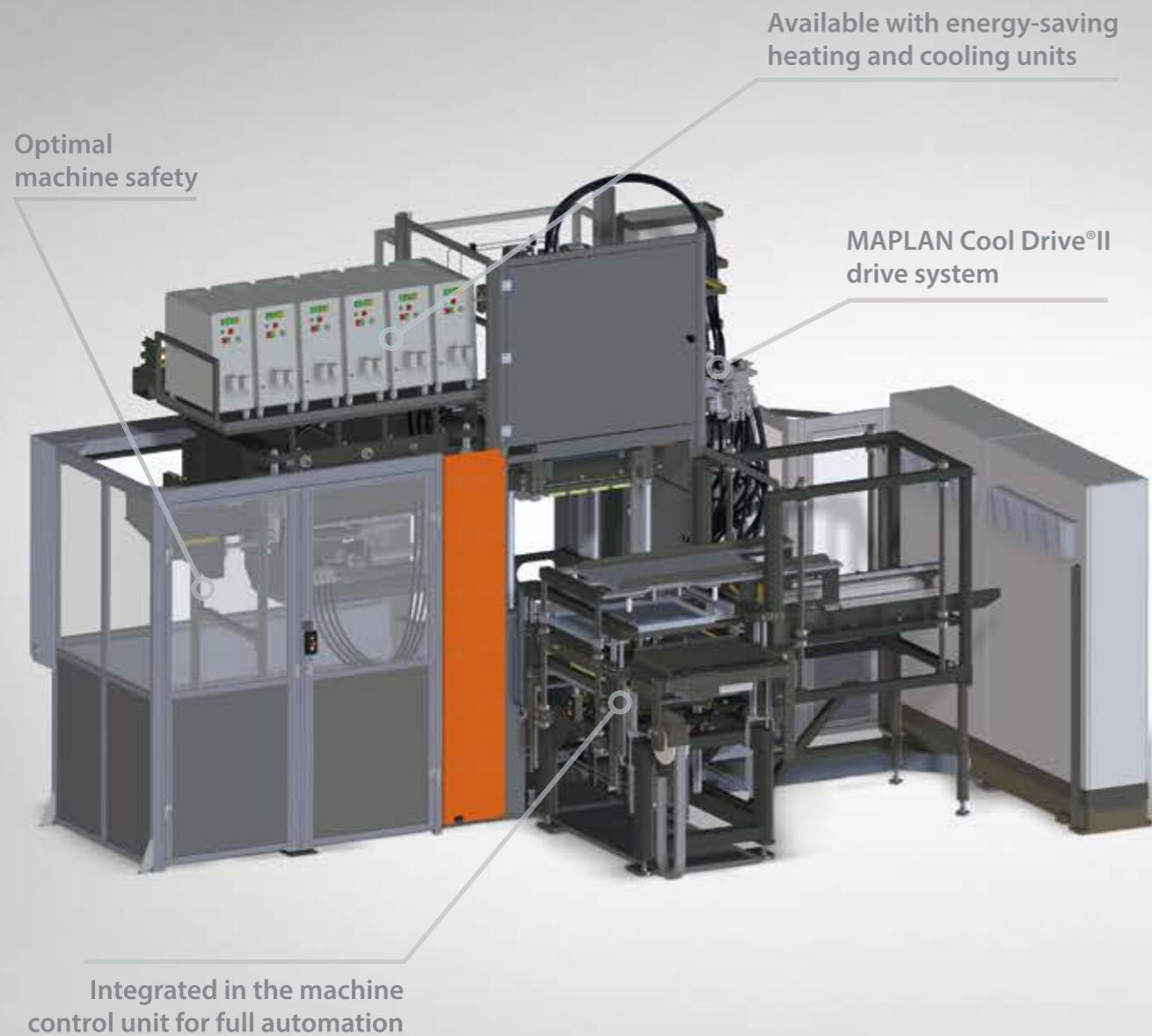
### 2K-Top

Our MAPLAN 2K technology is based on two injection units that inject from above. Injection unit sizes from 200 to 2000 cm<sup>3</sup> are available in this 2K version. Additional injection volumes and other special solutions are available on request.



### 2K-Splitline

A Splitline version can also be used with our 2K technology. The injection unit is positioned at the splitline area, and can be reversed away from the mould and is available in sizes from 200 to 6000 cm<sup>3</sup>. Additional injection volumes and special solutions in this version are also available on request.



## Tailored for every application

Our comprehensive machine portfolio covers nearly every area of application in elastomer processing - and our special machine series covers everything else.


We can address your special requirements in conjunction with our comprehensive expertise and extensive experience in the implementation of tailored solutions. This also makes us the perfect partner for custom solutions that satisfy the highest requirements.



## MAPLAN MBS

The MAPLAN MBS machine series comprises of a MAPLAN screw ram injection unit that injects from below with a clamping system that clamps from above. The result is a low operating height in combination with the availability of high possible injection volumes. Of course, FIFO injection units that inject from below are also part of the product portfolio. The major benefit here is that the bottom half of the mould is in the fixed position.





State-of-the-art design

MAPLAN Diagnostics smart diagnostic system

15" HD Touch-Display

Glove-compatible operation, large buttons, resistant display

Full scalability

20 freely programmable movement fields

Online machine documentation with PDF plans directly in the control unit.

MAPLAN Smooth Movement

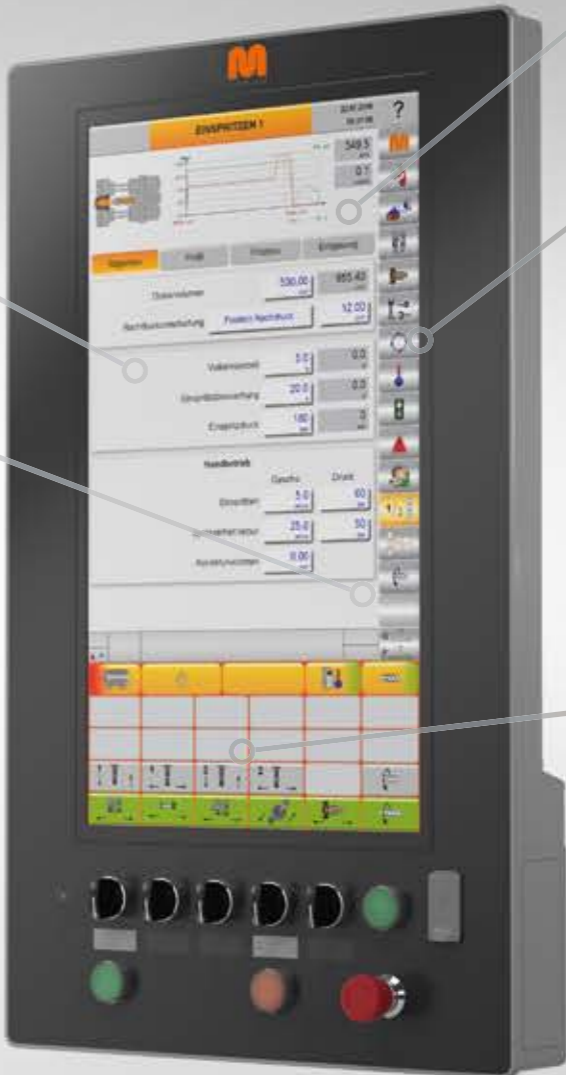
Vario switch components

**Web functionality**

- Based on HTML5
- Multi-Panel Option
- Remote access and remote maintenance

**Simple operation**

- Dynamic screen configuration
- Drag&Drop
- No visuals of set ups not required



State-of-the-art design

Glove-compatible operation, large buttons, resistant display

Multi-station operation

21" Full HD Touch-Display

Cycle configurator drag and drop cycle process

Full scalability

20 freely programmable movement fields

Platform-independent networking

MAPLAN Smooth Movements for automatic and self-optimising movement profiles

## Smart control systems

Our MAPLAN engineers developed a new control unit generation based on high-performance, usability and intuitive operation combined with state-of-the-art technology.

It combines a large touch display with fully scalable user interface, full web functionality based on HTML5 and a modern, clearly-arranged design.

Intelligent operating options like our cycle configurator and the freely programmable button fields make the control unit especially simple and efficient.



## MAPLAN Smart Light

The MAPLAN "Smart Lights" are multi-coloured indicator lights with alarm sounds that can be switched on and off. They provide information on the current operating status, as well as the machine being ready for the next cycle or whether it is safe to reach into the injection or clamp area. The visual countdown that indicates the remaining vulcanisation time on the MAPLAN machine by using a vertical color gradient which is very useful.



## Networking

The new control unit generation 6 offers comprehensive networking possibilities. The production manager can access the machine at any time and view process-relevant data. This can also take place remotely via smartphone or tablet without disturbing the machine operator. The customer can also benefit from networking with the Maplan after sales support department.



## MAPLAN Smooth Movements

By this, Maplan means a movement profile that is created automatically and that optimises itself. Optimised process parameters are determined for the fast and slowing movements. This facility will guarantee the fastest possible tool movements combined with tool protection and high energy efficiency.



## Intuitive operation

The C6000.web visualisation is a full HD touchscreen with a large 21" portrait format. The high resolution display and the support of large buttons and graphics ensure fast optical recognition and improved readability. The multi-panel option is also new: Multiple self-sufficient panels on the screen can provide a better overview of production. The control panels enable independent logins, authorisations and page calls.



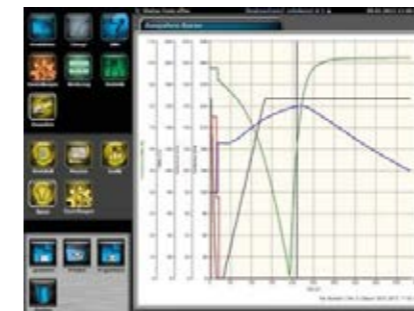
## Needle valve control unit for moulds

With the MAPLAN needle valve control unit, up to 32 needles can be individually controlled independent of different control unit parameters, such as time, position and pressure. The control can take place pneumatically and hydraulically a very flexible control solution.



## MAPLAN Vario Switch

The novel and ergonomic Maplan ‚Vario Switch‘ user concept offers the user 3 pushbuttons with fixed allocations and 4 or 5 rotary switches that can have variable allocations. The functions are selected by selecting the allocation row then that can be configured individually on the touchscreen.



## CURE1 - process optimisation software

Cure1 is a process optimisation system that calculates and monitors the machine itself the processing of the material batch from the intake to the finished part online. A considerable reduction of heating times and permanent quality control are the result. The data can be exported from the software and saved for future use.



## Powerful

State-of-the-art control technology guarantees precision and reproducibility based on the latest Intel™ processor technology.



## TIG-interface

Would you like to consider your entire production as a whole and not just individual aspects? Do you want to give your sales a precise statement about whether you can keep the delivery date? The rough planning comes from the ERP system, but you need more exact information? Do you want to analyse which areas you invest in the best and most profitably?

- Live overview of production (downtimes, alarms, etc.)
- Simple, complete integration of your MAPLAN machine
- Planning of all orders and overview of whether delivery dates are kept or not
- Evaluation of characteristics of the entire production and draw the correct conclusions
- Industry 4.0 ready for the future





## Heating plate run out

### Automation module for optimisation and a wide range of processes

Can be installed to the front or back of the machine  
Also available in double version  
Operated electrically or hydraulically with 70% or 100% stroke

### Your advantages

Improved handling of finished and manually processed parts  
Facilitated tool insertion/removal  
Complete control unit monitoring and integration into the diagnosis and alarm system  
Enables further automation  
Double version permits the possibility to increase output by the use of two lower mould halves



## External ejector

### Automation module for optimisation and a wide range of processes

Complete control unit monitoring and integration into the diagnosis and alarm system  
This accessory is used from above or below on a centre plate moving device as a part ejecting system

### Your advantages

Easy mounting for customer-provided ejector plates or other types of automation.  
The fitting of a heating plate for temperature regulation outside the press is also possible



## Centre plate change

### Automation option for optimisation and for a wide range of processes

Can be installed upstream and downstream of the machine  
Two centre plates are pulled alternately into an outside station.  
Also available as a synchronous version with a simultaneous plate change

### Your advantages

Simpler handling of finished and manually processed parts  
Complete control unit monitoring and integration into the diagnosis and alarm system  
Can be combined with additional automation  
Often used in combination with sprue removal systems (hydraulically from above or below and/or ejection devices)  
The attachment of external heating plate is also possible



## Sprue removal device

### Module for process automation

Constructed from high-quality materials bearing and slides, together with strong aluminium profile  
Electrical/pneumatic drive in both horizontal machines and vertical machines  
Connection to the latest control system

### Your advantages

Automatic removal of sprues  
Freely adaptable to your requirements



## Frame change

Two centre plates on a frame fastened on the upper or lower ejector are alternately pulled out of the machine either manually or hydraulically towards the front or rear

### Your advantages

Simpler handling of finished parts  
MAPLAN frame change systems are completely integrated into the latest control unit.



## Frame shifting

A centre plate on a frame fastened on the upper or lower ejector can be pulled out of the machine either manually or hydraulically towards the front or rear

### Your advantages

Simpler handling of finished parts  
Frame shifting is completely monitored and integrated into the MAPLAN control system



## Demoulding devices

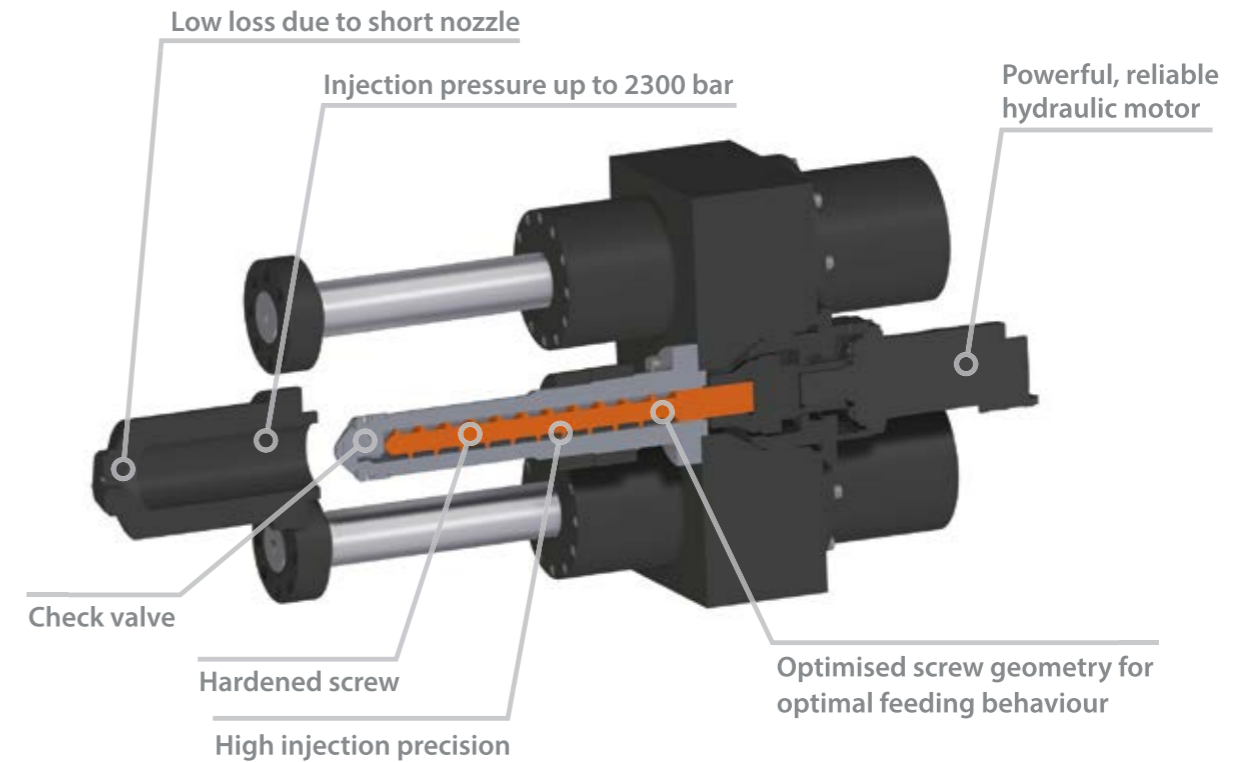
MAPLAN brush systems enable the fully automatic production of suitable parts, such as flat seals or O-rings on machines of the MHF series. The brush systems are currently available in a single or double brush version as standard for horizontal machine sizes with 200 to 400 tons of clamping force. On request, we can also offer these proven systems for other machine sizes - we would be happy to advise you.



## MAPLAN Autofeed Strip feeding

With two separately driven feed rollers, this useful accessory prevents material from tearing away during the infeed and assures optimal strip feeding. If a problem should arise with the material feed, the roller installed at the feed area triggers a machine alarm. Malfunctions can be largely eliminated as a result. Our MAPLAN Autofeed strip feeding can thereby prevent faults in the production process and reduce machine downtimes.

# FIFO-injection unit



## FIFO – injection unit function

The MAPLAN FIFO rubber injection unit has been proven for many years and remains an unmatched component of MAPLAN rubber injection machines. The brilliant simplicity of the design and performance and precision of the system are decisive advantages. The MAPLAN FIFO rubber injection unit enables injection pressures of up to 2300 bar with minimal pressure loss at the tool thanks to an extremely short nozzle.

The common sizes of the MAPLAN FIFO rubber injection unit range from 400 cm<sup>3</sup> to 8600 cm<sup>3</sup>. Smaller units (10 cm<sup>3</sup> to 200 cm<sup>3</sup>) and larger units (11,500 cm<sup>3</sup> to 26,400 cm<sup>3</sup>) from the standard programme are also available on request.

In addition to the processing of traditional elastomers, MAPLAN FIFO injection units with optional accessories are also suitable for the processing of solid and even liquid silicone.



## Stuffer

MAPLAN offers stuffers as a technically proven design and a process-stable solution for the processing of solid silicone (HTV) and other pasty materials.

The stuffers are available as standard from 2 litres to 30 litres and basically for all machine types - each adapted to the injection unit size.

They are fully integrated in the machine cycle and in the machine control unit.



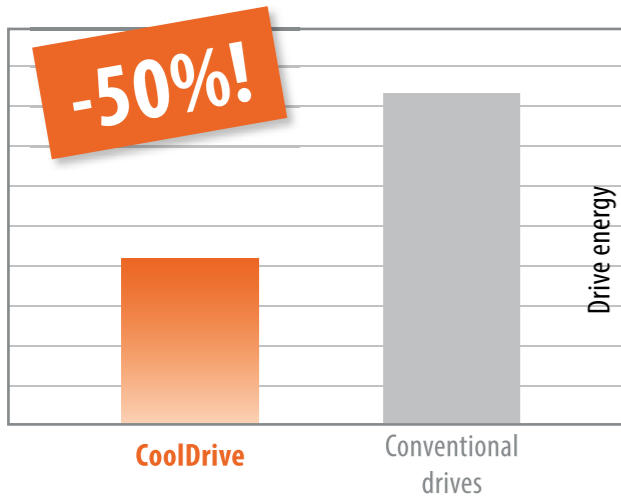


## MAPLAN CoolDrive®II

Hydraulic drives account for approximately one-third of the energy consumed by rubber injection moulding machines. With electrohydraulic drive systems based on speed-controlled internal gear pumps in combination with state-of-the-art servo technology, drive energy consumption can be reduced by up to 50% of the earlier value with a drastic reduction of the noise level.

The highly dynamic servo-hydraulic drives - like our MAPLAN CoolDrive®II-enable additional reduction of dry-running time by up to 15%. Servo-hydraulic drive systems automatically adapt the production cycle to the actual output requirement. During inactive phases, such as the vulcanisation time or demoulding, the drive is automatically shut down.

With this operating method, electrical energy is saved and the energy applied to the hydraulic oil is reduced, in which case hydraulic oil cooling is normally not required.



## MAPLAN CoolDrive®II as an option for every MAPLAN machine

Energy-saving CoolDrive®II Drive systems are available for the entire MAPLAN machine range. Drive systems based on an axial piston pump are also available on request.



## Auxiliary hydraulics

The efficient use of optional handling systems necessitates simultaneous movements of multiple machine or tool modules. In order to enable these parallel movements, use of auxiliary hydraulics is required. Of course, these drives can also be equipped with energy-saving MAPLAN CoolDrive®II units.



## DCI – intelligent temperature control device

Approximately 20% of the total energy consumption of rubber injection machines is caused by temperature control devices for the injection unit and the tools and/or cold runners. The energy consumption primarily falls to the pump units installed in the temperature control units. With an intelligent regulation of the delivery rate based on requirements, energy consumption of the temperature control devices is reduced by up to 80% and the control quality is significantly improved.

In addition to improvements in efficiency and control, MAPLAN DCI temperature control devices can also reduce noise levels.

Temperature control devices available in DCI version and 3 different performance classes.



## Heating plate insulation

With optimised insulation on all sides of MAPLAN heating plates the temperature distribution is considerably improved and energy consumption is reduced. In combination with isobars, additional optimal temperature stabilization is also possible.



## Isobars

All MAPLAN heating plates are also optionally available with Isobars. The use of Isobars also results in increased moulded part quality due to more consistent temperature distribution. As a result heating times can be significantly reduced and productivity can be increased. Our Isobars also improve the efficiency of your MAPLAN machine.

## Technical support / service hotline

Our technical support is available to handle all of the services you require

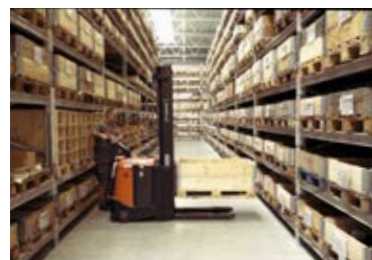


- Telephone support for troubleshooting
- Online error diagnosis with our remote service
- Commissioning
- Machine relocation
- Installation and commissioning of customer-specific machine options and upgrades
- Repairs
- Maintenance and service including customised maintenance contracts

Service-Hotline: Tel: +43 2252 790909-156 | After-sales service: [service@maplan.at](mailto:service@maplan.at)

## Spare parts

Our spare parts department offers the following services



- Rapid shipment of our original spare parts. Delivery on the same day with express orders by 13:00 from Monday to Thursday and by 11:00 on Friday.
- Long-term availability of spare parts in order to account for the long service life of our machines.
- More than 90% of all spare parts ordered from us are available in stock.

## Training

First-class technology and quality of MAPLAN rubber injection moulding machines are only two of the requirements for our joint economic success. The training and continuing education of your employees is more important than ever. It assures long-term success and economic stability of every company.



### Our training offer

- Seminars for operators and fitters
- Application technology seminars
- Customer-specific training
- Service training

### Training content

MAPLAN training is tailored to your requirements, continuing education measures and specific requests. Training units usually take one to three days and take place in a pleasant atmosphere in ideally equipped rooms in our plant in Kottlingbrunn or on the premises of your company. Participants in our trainings receive a certificate for successful completion at the end of the training. Take advantage of our trainings and contact our local representative for more information or contact us directly.



## Remote maintenance

- Diagnosis of hardware and software problems
- Check of settings
- Loading of software updates and machine options are enabled with direct access to your machine control unit.

### Implementation

- Access to the machine is realised via the current internet browser.
- Secure data transmission with AES 256 bit encryption with industrial standard software.
- The release for access by you or your employees is always required in order to guarantee data security.



## 3D spare parts catalogue

- With a visual search for spare parts, you find the necessary part more quickly and avoid ordering the wrong parts.
- Electrical and hydraulic diagrams available in Docware
- Direct ordering or forwarding of information to your sales is made easy with the software.
- You receive an updated 3D spare parts catalogue for upgrades.

## Refurbish - upgrades

The upgrades and options offered by us gives you the following advantages:

- Extended machine service life
- Increased processing spectrum
- Improved machine availability
- Reduced investment in comparison with new purchase

### Upgrade examples

- Stuffer retrofitting for processing of silicone
- Retrofitting of brush systems
- Ejector retrofitting
- Shuttle retrofitting
- Upgrade of older control units to C600 / C6000







### Worldwide network

We think and operate internationally with a global presence in sales and service to provide you with the security of worldwide professional consulting and support of your production. Quick, uncomplicated and in your language.



### Flexibility as a recipe for success

Whilst we value proven approaches, we view the future as an opportunity for our team to be open to new ideas that apply both to our machines and customer relationships. Our sales team will remain at your side for all challenges resulting from changing requirements and new technologies or markets.



### Partnership all the way

A mutually positive relationship with our customers and business partners is the most important basis for successful business. Collaboration with our business partners is distinguished by transparency and trust. We are a reliable partner and only make promises that we can keep. These ethical qualities serve as the basis for numerous long-term business relationships.



### Personal contact

Maplan knows what customer satisfaction means. We work every day on a personal level and, if necessary, around the clock. Direct availability and quick reaction times are a natural part of this.



### Customer-and results oriented

All customer requests are different and only the most suitable solution is the best - that is our credo.

With MAPLAN you do not receive ready-made offers. We deliver services and products adapted to the individual task, starting position and optimal results.



# WORLDWIDE

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