

FastSeal 5



***The simplicity of seal machining,
for every company***

Mastor, Lda
E.N. 2-6 Belmonte de Cima
8700-174 Olhão
Portugal

Phone: +351 289705185
Email: office@mastor-lda.com
WhatsApp: +351 912101191
web: www.fastseal.eu

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FastSeal 5



Machine specifications:

Base

- Power supply voltage 3x400V +6% -10%, 50Hz + neutral
- 17 KVA (including vacuum unit 5.5 kW)
- As an option, transformer for other power supply voltages is available

Capacity

- Maximal turning diameter over bed of 600 mm (23.5 inch)
- Maximal turning length of 240 mm
- Diameter of standard 3-jaw chuck 250 mm/bar 75 mm

Headstock

- Spindle motor power 7.5 kW— direct drive
- Spindle speed range 30 - 3500 rpm
- Maximum spindle torque 47 Nm

Axis

- X axis travel 330 mm
- Z axis travel 600 mm
- X axis fast traverse 26 m/min
- Z axis fast traverse 26 m/min

Tool system

- 30 tool stations
- 20 mm tool diameter
- Special turning tool shank
- No tool to tool interference

Other information

- Overall dimensions: (L x W x H) 2150 x 1560 x 1780 mm
- Coolant tank capacity 80 l
- Machine weight 3000 kg

Included

- Vacuum 5.5kW
- Air blast



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Concept

A complete system: the result of many years of improvements in machine design. Based on the simplicity of the FastSeal3i and the workhorse of the FastSeal4. Easy to own, with a large advantage over other seal manufacturing systems. Our system incorporates a computer based CNC lathe with the latest technology in motion control. Most of the standard features in the FastSeal 5 are options on our competitor's machines.

Simplicity

The FastSeal 5 is an efficient machine model for manufacturing seals up to a diameter of 600 mm. Since it was designed from scratch to machine seals instead of metal parts, the construction was optimized to this effect. This machine is perfect to serve the market of seal shops, hydraulic repairs workshops and maintenance.

With precision turning and high speed axis, the system is easy to use and program, as no special skill is needed to operate the machine, since the generation of seals and plastic parts are optimized and automated.

Freedom

Both Mastor machines and software are sold without any royalty or supply binding contracts, an approach that is very common along other company's in the seal business. Our customers can freely choose their supplier of semi-finished materials, without any consequence for the machine or software operation.

The FastSeal5 gives the customer complete freedom of choice. Be it for assistance or for materials.

Production speed

Fast Seal V is the fastest seal machine on the market. Its unique tool change system, that is slower than most turret type machines, allows for faster production times than turret based systems due to the fact that 30 tools can be permanently installed on the machine.

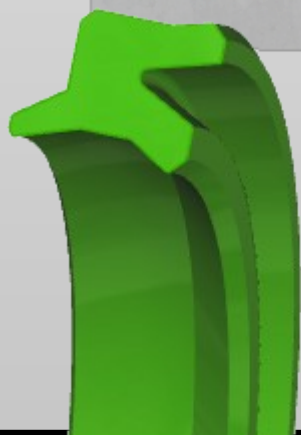
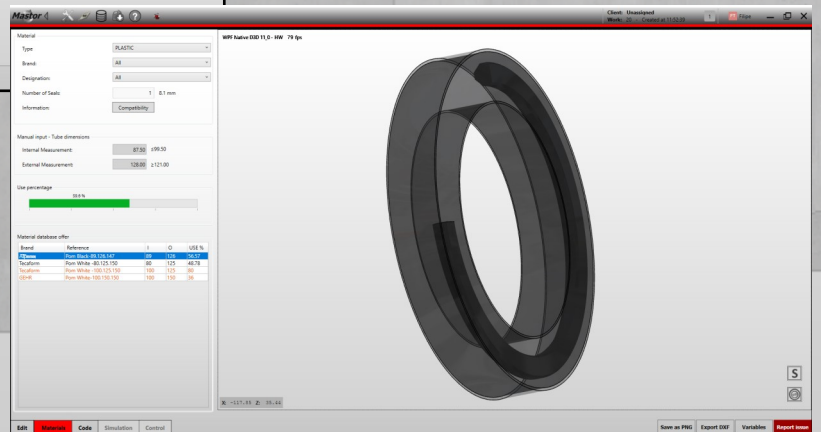
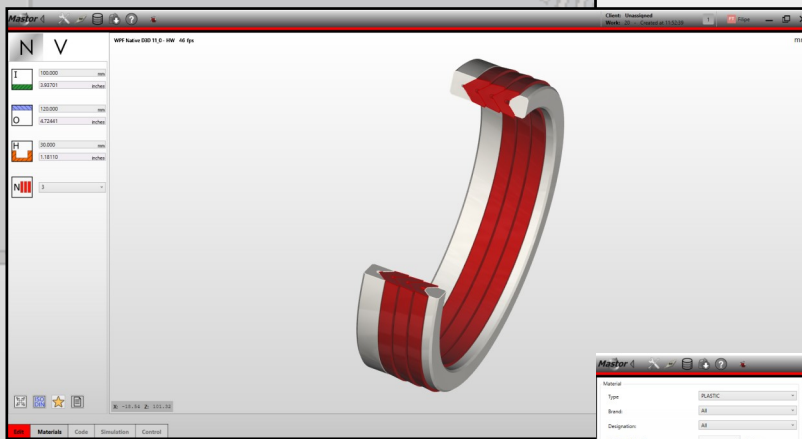
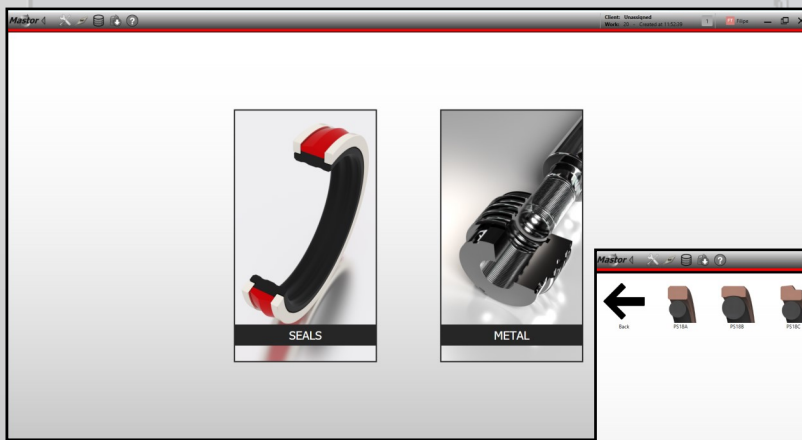
FastSeal 5

Software

The FastSealCreator v5 software, fully in house developed by Mastor, is available in eight languages and allows an easy production of seals and plastic parts. With a continuous growing number of profiles available and adequate seal raw materials, an owner of a FastSeal 5 can solve almost all the sealing problems that a seal shop or a repair workshop faces every day.

The FastSealCreator is the most advanced software for seal generation in the market. Yet simple and user-friendly, developed thinking about everyday use in workshops.

Consult our website for more information about the software: www.fastseal.eu



FastSeal 5

Construction

A good machine starts by its base.

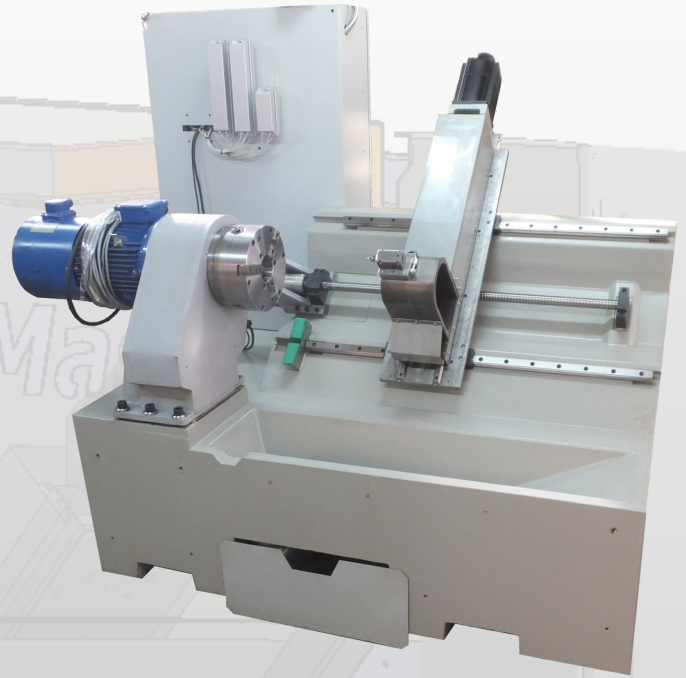
With 2300Kg, the solid specially made base has a dampening capability far superior to welded low-cost machines.

All produced parts are 3D planned and produced by CNC machines to ensure a high level of quality, resulting in a superior machine. When all this is done under the same company, the result is a reliable machine with guaranteed assistance.

Using, in most of the cases, non proprietary components, the owner of a FastSeal 5 machine is able to obtain repair parts locally and therefore reduce maintenance costs or downtimes.

Featuring a direct drive spindle, and X/Z servo motors coupled directly to the axis ballscrews, a quality movement is obtained.

Proudly designed and constructed in Portugal (EU).



Highlights

- The best performance over a large number of raw materials
- 30 simultaneous tools on the machine - meaning that the user does not need to be constantly changing tools. Less user intervention results in less errors and high gains in work time
- PC based control, with toolpath preview - less hardware, lower maintenance
- Designed from scratch to machine seals
- Balanced power to achieve a good price performance ratio
- Can be controlled over the internet to provide remote operation or diagnostics
- Simulates the execution of the toolpath before you machine
- Small footprint for easy transport and installation
- Heavy machine base that provides superior dampening characteristics
- No machine code knowledge is necessary
- Comprehensive manuals and technical information



Controller

A CNC machine can be simple if well planned for the work that it will produce. This is how the FastSeal 5 was made. Simple.

A full control is present on the machine where all unneeded buttons and functions were removed. Most of our competitors use standard CNC controls where many functions available are useless in the seal manufacturing field. This often results in confusing menus, hard to manage and diagnose situations.

With the FastSeal 5 control, the machine operation is simple, yet complete. On a large screen area, all relevant information is present. All our machines also include remote control possibility, where training and diagnostics can be done by the Mastor team, directly on our client machine! Welcome to the future.

* Tool#	Pocket	X (radius)	Z	Radius	Orientation	Comment
3	11	23.735	0	0.800	7	Master tool
10	24	0	0	0	6	polymer material part off
20	3	-7.470	5.713	0.200	2	polymer inside machining
16	17	-17.155	5.918	0	6	inside groove 2.7
8	3	17.460	5.082	0.200	2	Polymers outside machining
704	704	15.127	1.980	0	8	cal 20150602
18	18	-7.470	-4.090	0.400	3	Small inside machining
11	6	53.029	-5.916	0	8	Elastomers part off
1	5	17.400	4.167	0.400	2	Elastomers outside machining
13	5	-20.240	4.073	0.400	3	Elastomers inside machining
27	10	-1.389	0.148	0.400	7	Facing/groove R0.4
707	707	31.175	-1.283	0.250	8	cal 20150618
719	719	22.800	-1.277	0.250	6	added 20150618
820	820	-19.534	0.050	0.200	3	comment
25	13	-1.095	0.148	0	0	Drill 11mm
5	12	-1.700	0.970	0.800	7	Facing/groove R0.8
415	415	15.270	0.360	0	0	Outside angle groove

1 (SUPER CLIENT)
 2 (FAST SEAL 5)
 3 (VERSION 3.73 BUILD 05Sep2017)
 4 (PROFILE: VCCP1)
 5 (MEASURES: 45.000 / 58.000 / 9.000)
 6 (STANDARD: YES)
 7 (MATERIAL: HPUJ22 RED 40 500x4.000 - TUBE 39.000x6.000)
 8 (DATE OF FILE: 20080208 @ 10:58:55)
 9 (FAST SEAL CREATOR VERSION: 4.9980 BUILD 23MAR2018)
 10 (NUMBER OF PARTS:1)
 11 (*****)
 12 (INIT STRINGS)
 13 (*****)
 14 N776
 15
 16
 17 (DIAMETER MODE)
 18 (METRIC MODE)
 19 (G18 (XZ PLANE)
 20 (UNITS FOR REVOLUTIONS)
 21 (G54 (STANDARD WORK PLANE)
 22 (G54 (STANDARD WORK PLANE)
 23 (G54 (STANDARD WORK PLANE)
 24 (FACING)

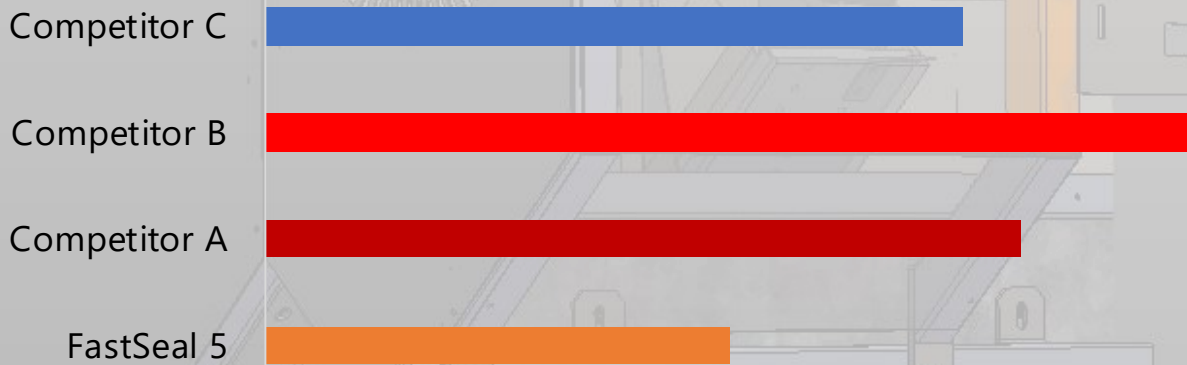


Price

Best market price. Why?

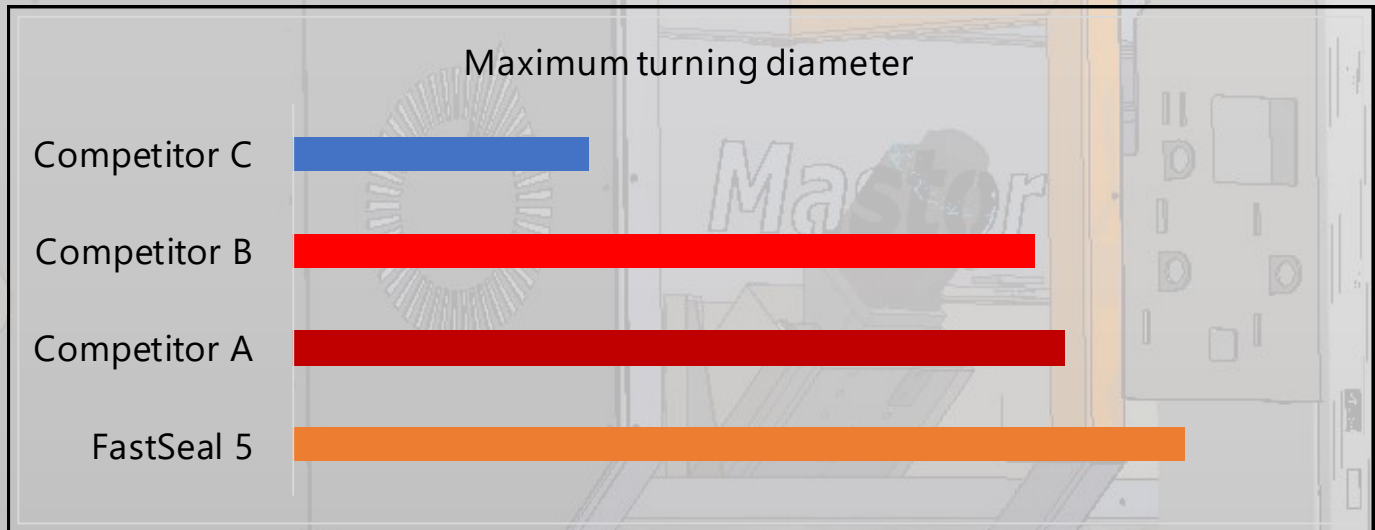
- We do only direct sales - no intermediaries = less price increase
- All parts are done internally - design, implementation and assembly are performed by Mastor personal
- Simple construction results in a higher gain for the end customer

Price (similar capacity machines)



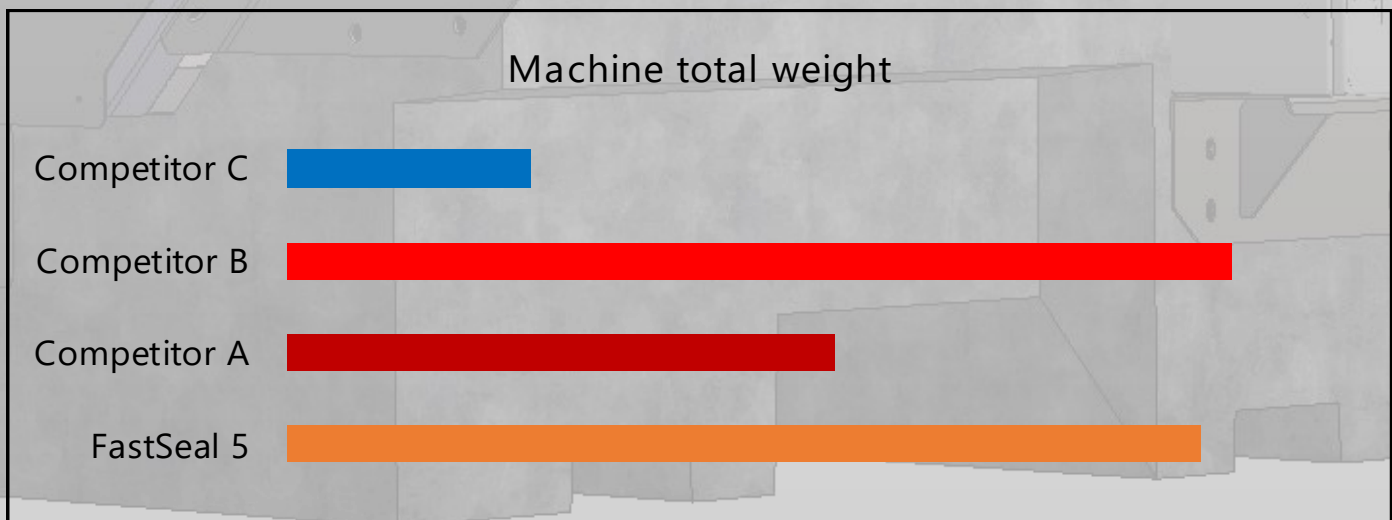
Capacity

Up to 600mm in machining diameter - the highest in its segment.



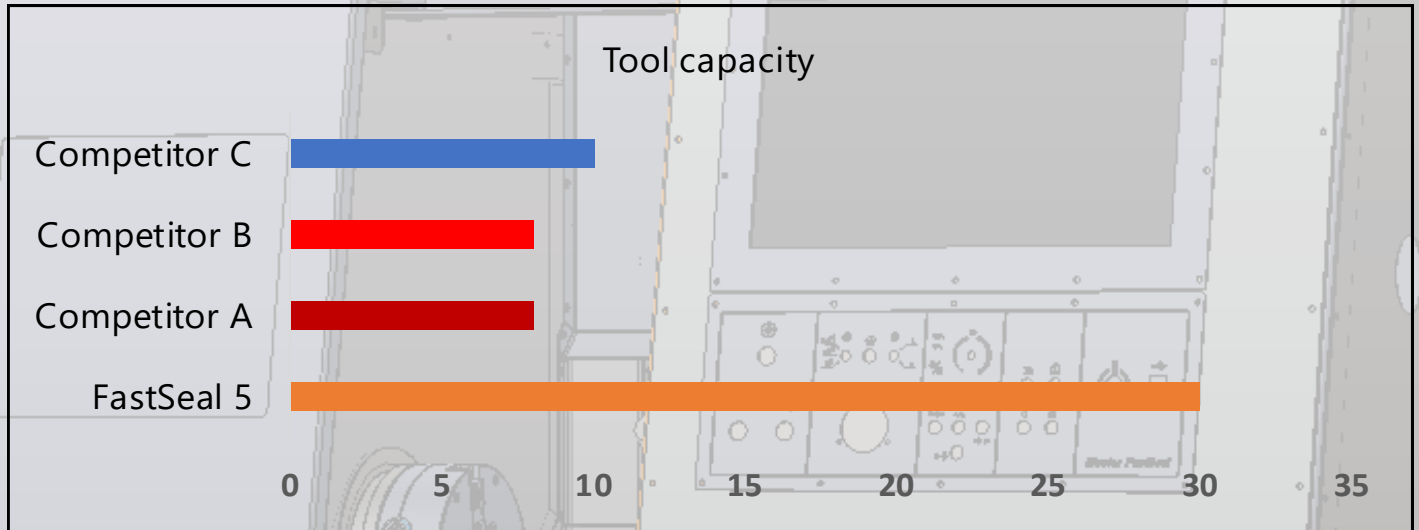
Weight

A good machine base is by nature heavy, so that it can absorb vibrations and provide stability to the machining process.



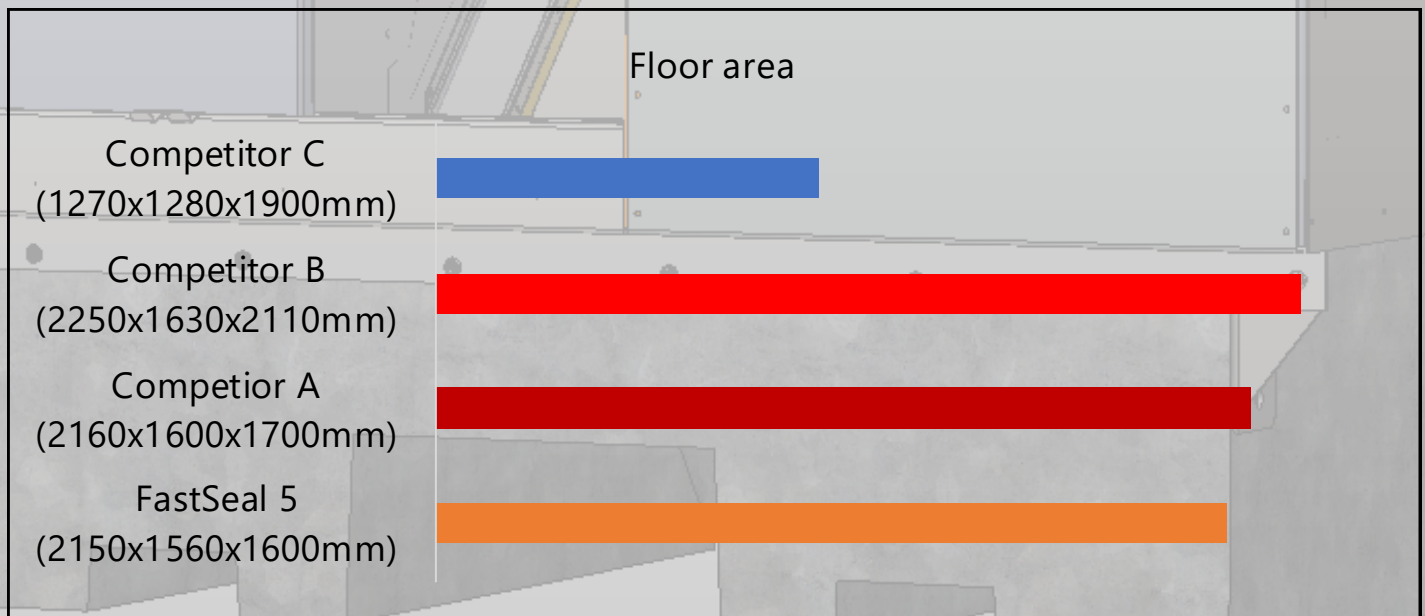
Simultaneous tool capacity

Due to a new approach in tool change, our machine has the capability of storing up to 30 tools. No need for user interaction to change tools during the machining process. All is automated.



Floor area

Using a highly effective design, our machine is small, but capable of machining larger diameters.





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A smaller version of the circular arrow graphic from the top of the page, positioned behind the 'Mastor' text.