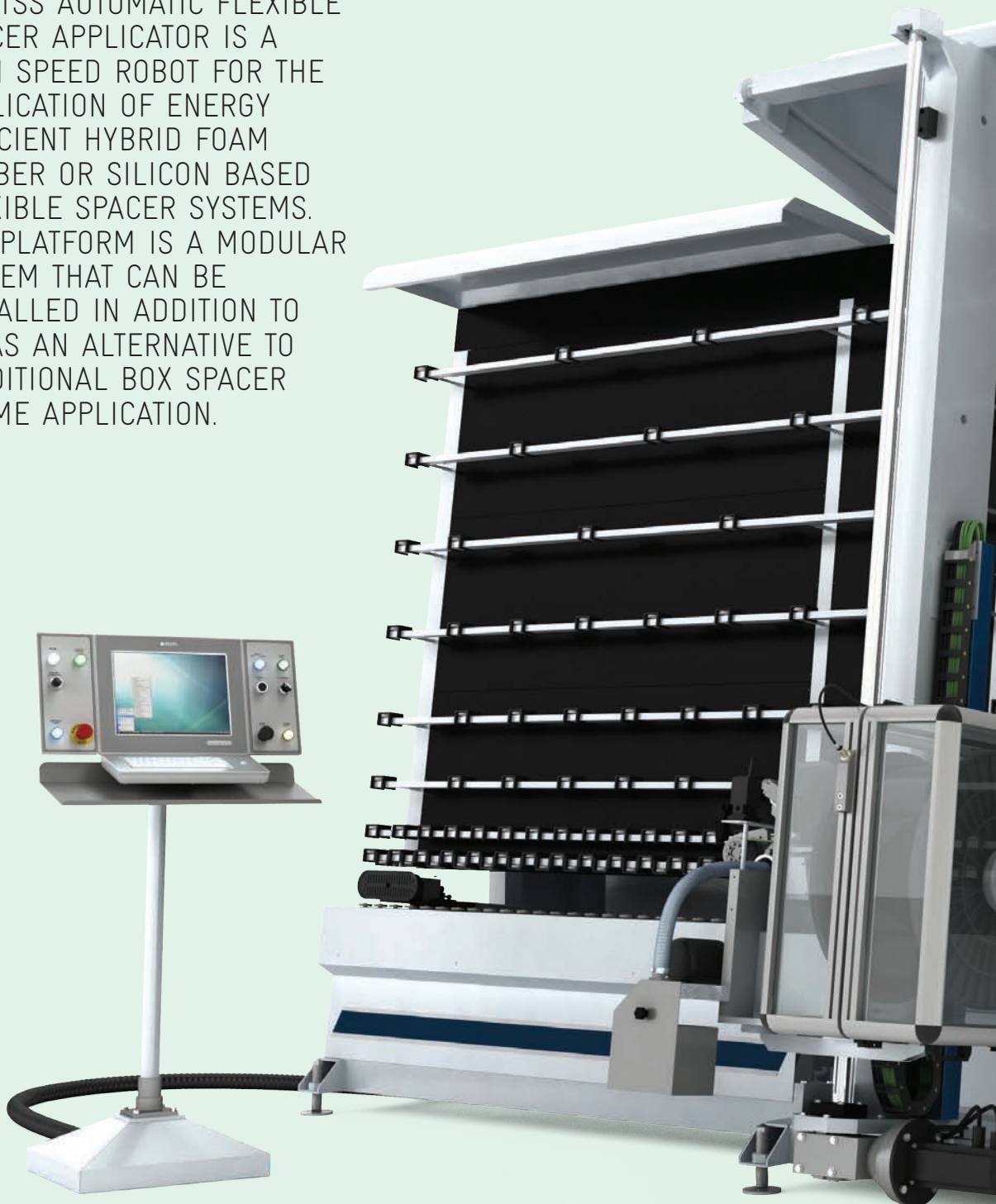


ART. TSS

TSS AUTOMATIC FLEXIBLE SPACER APPLICATOR

THE TSS AUTOMATIC FLEXIBLE SPACER APPLICATOR IS A HIGH SPEED ROBOT FOR THE APPLICATION OF ENERGY EFFICIENT HYBRID FOAM RUBBER OR SILICON BASED FLEXIBLE SPACER SYSTEMS. THE PLATFORM IS A MODULAR SYSTEM THAT CAN BE INSTALLED IN ADDITION TO OR AS AN ALTERNATIVE TO TRADITIONAL BOX SPACER FRAME APPLICATION.



VERTICAL CUTTING LINE



LAMINATING LINE

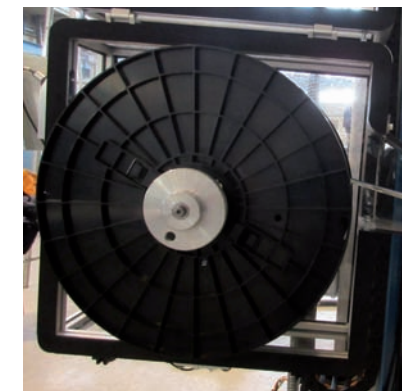
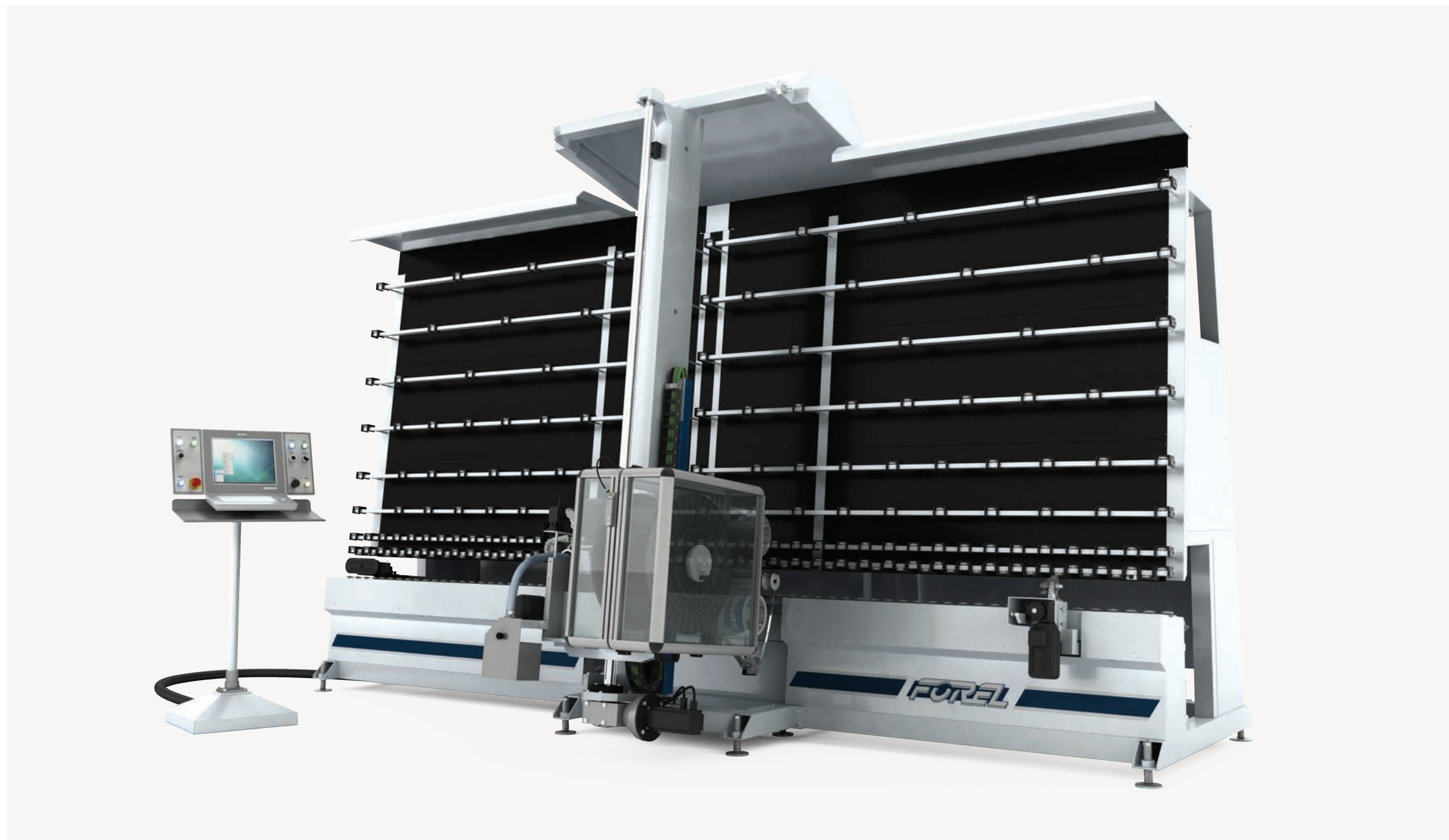


EDGE PROCESSING



INSULATING GLASS





The flexible spacer is supplied by the manufacturer in a continuous roll of approximately 500 meters wound directly onto a specifically designed bobbin. Product waste is kept to a minimum as is the downtime due to the quick and efficient system for changing from one bobbin to another.

The glass sheet is positioned via a suction cup and is controlled mechanically by an on board system of drive motors and software. The flexible spacer is applied directly to the surface of the glass via the synchronized movement of the application head and the conveying system.

Two specifically designed belts manage the tension of the spacer compensating automatically for any variations in the products hardness or elasticity. The machines tension management system in conjunction with the belt conveyor ensures the material is applied straight avoiding any visible distortion.

The software includes a database which allows for the manufacturing parameters to be archived and recalled automatically when needed.

The spacer system is applied to squares and rectangles automatically via the on board self-learning system, glass that has other than 4 x 90° corners requires dimensional information that can be input either manually, or automatically from file or from an inline shape scanner (option).

The applicator features an efficient mechanical system that removes the two protective films from the adhesive side shoulders of the spacer.

Two pressure sensitive motorised bobbins remove and collect the protective film simultaneously.

The operating head can be equipped with an extra device to cut predetermined slits into the spacer that allows for the accurate and quick insertion of Georgian grids into the spacer frame.

The TSS can be specified with a dual bobbin device that allows for the seamless change of one profile thickness to another. This option is ideally suited for triple glazing and or continuous production. The total change cycle is under 40 seconds.

The machine is equipped with a self-diagnostic system that identifies faults with codes, descriptions and images with an additional system that allows for remote connection and assistance.

Technical information

	TSS160	TSS200	TSS250	TSS280	TSS320
A	1600	2000	2500	2800	3250
B	640	640	640	640	640
C	4960	4960	4960	4960	4960
D	2400	2400	2400	2400	3600
L	7360	7360	7360	7360	8560
H	2630	3030	3530	3830	4350
P	1785	1785	1785	1785	1785
P1	3300	3300	3300	3300	3300
A1	Rp 1/2" 6 bar	Rp 1/2" 6 bar	Rp 1/2" 6 bar	Rp 1/2" 6 bar	Rp 1/2" 6 bar
ethernet	UTP shielded cable category "5/6" RJ-45 connector	UTP shielded cable category "5/6" RJ-45 connector	UTP shielded cable category "5/6" RJ-45 connector	UTP shielded cable category "5/6" RJ-45 connector	UTP shielded cable category "5/6" RJ-45 connector
compressed air	400 NL/min	400 NL/min	400 NL/min	400 NL/min	400 NL/min
E1	3P+N+E -50/60Hz 400/230V Installed: 7 kW Absorbed maximum: -80%	3P+N+E -50/60Hz 400/230V Installed: 7 kW Absorbed maximum: -80%	3P+N+E -50/60Hz 400/230V Installed: 7 kW Absorbed maximum: -80%	3P+N+E -50/60Hz 400/230V Installed: 7 kW Absorbed maximum: -80%	3P+N+E -50/60Hz 400/230V Installed: 7 kW Absorbed maximum: -80%
thermal switch	25 A	25 A	25 A	25 A	25 A

Forel reserves the right to change the data in this general description sheet. The machine shown is a mere guideline, it may include optional accessories and vary according to the maximum work height.

