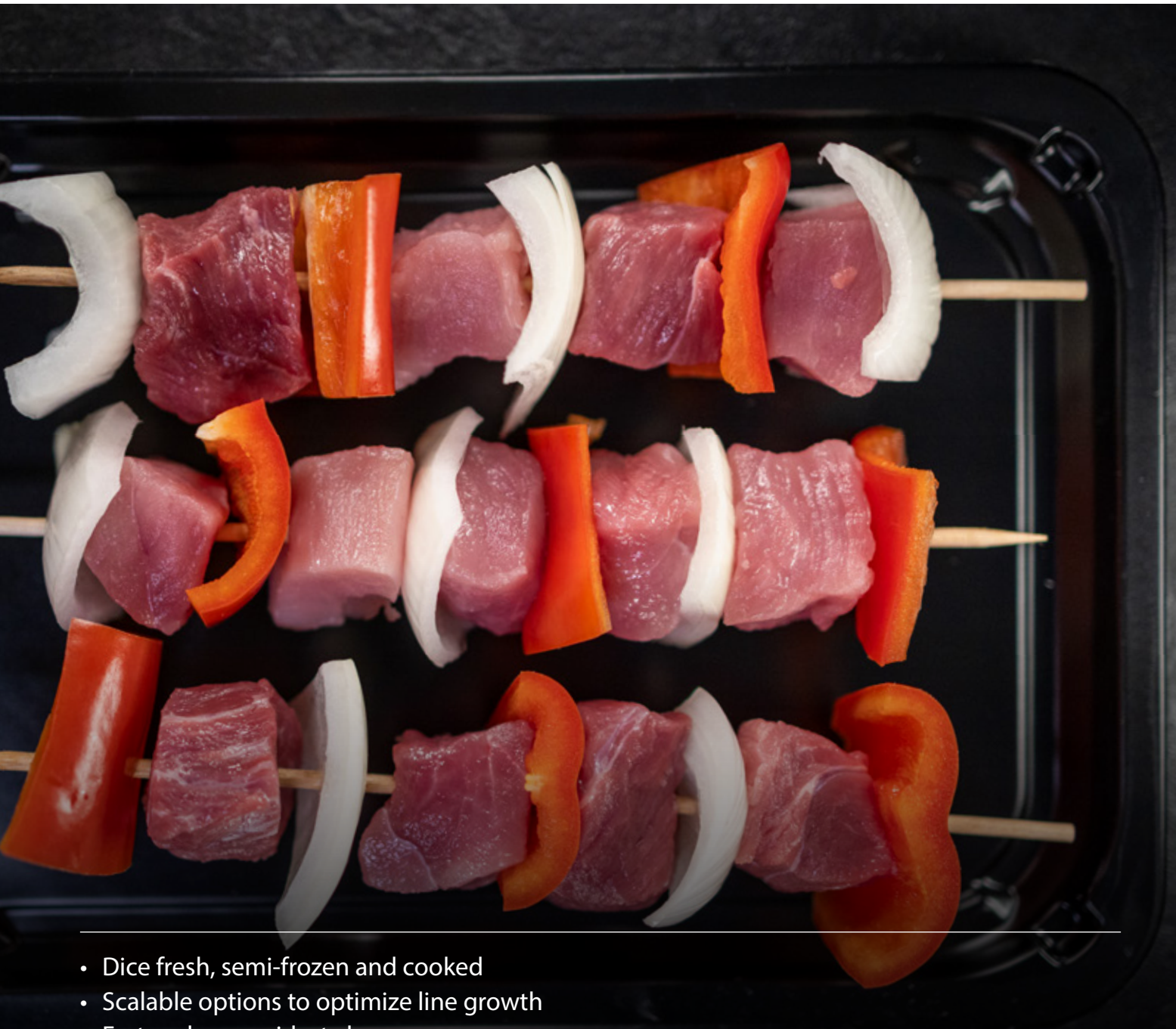




Accurate dicing with a small footprint

TREIF TWISTER SP+

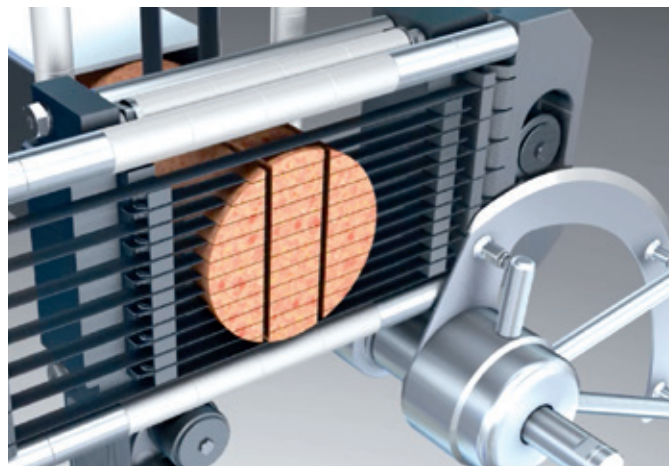


-
- Dice fresh, semi-frozen and cooked
 - Scalable options to optimize line growth
 - Fast and easy gridset changeover

High performance dicing for high-quality results

Advanced cutting technologies combine to provide incredible accuracy when dicing and cutting strips of fresh, semi-frozen, slightly semi-frozen, cooked and tempered raw material. The **TREIF TWISTER SP+** is a robust, powerful dicing solution that maximizes yield and provides a premium end-product every time.

With an output of up to 1,900 kilograms per hour, it is ideal for mid-sized processors who need a robust, powerful dicing solution to meet the demands of a rapidly changing consumer market.



Optimal cutting technology for end-product flexibility

Scalable and flexible layout options

TREIF TWISTER SP+ has multiple configuration options to meet specific and changing processing needs. As an ideal entry-level model, it uses manual loading options to keep the footprint small. Increase automation with conveyor belt options such as outfeeds that carries end-product for bulk and container packaging. Add infeed options such as lift-tilt device and tower lift to make loading easier. Throughput is optimized by seamlessly integrating into full lines.

Pre-pressing precision

The automatic pre-pressing system optimizes cutting shape and size, ensuring each cube and strip is of the highest quality. The best results are achieved when the 210-millimeter cutting chamber is completely filled with raw material. A back and side-pressing actions remove empty space to provide consistent dice, while a guillotine blade cleanly slices off the excess, which is then automatically used in the next round.

Making first cuts count

A sensor measures the raw material as it comes through the gridset. When the ideal distance is reached, the cut-off knife is automatically deployed. The sensor ensures even the first cut meets specifications to optimize yield.

Versatile dicing

Quickly and safely change between a variety of gridsets with cut diameters as small as 4-millimeters. The frame is designed with grooves that ensure gridsets are always installed in the correct position and allow for the dismantling of gridsets with raw material inside.

A unique gentle-cut gridset is available to provide optimal cutting results for delicate products such as cooked meat, poultry, and boiled sausages. Two upper gridsets provide a long cutting action which maximizes stability to avoid product breakage and optimize yield.

Combined technologies

Equipped with Vartronic technology, the TREIF TWISTER SP+ automatically adapts the speed of its cutting tools to suit the raw material's temperature and density and prevent knife breakage. Separate drive mechanisms control the lower gridset, upper gridset and blade, providing three-dimensional cutting for accurate, reliable results when dicing and cutting strips of fresh, crust-frozen, and semi-frozen raw material.

Easy-to-operate

Operators can easily pre-set and adjust up to 50 cutting programs via the user-friendly touchscreen. With options for continuous and intermittent cutting, and the ability to set individual knife speeds, it is easy to optimize cutting for a multitude of products. Increasing efficiency and ensuring a high-quality end-product every time.

Eco dicing

The dynamic hydraulic system (DHS) dramatically reduces energy consumption by only using the energy needed to make cuts, brake-energy conversion, and oil quantity control. The slower moment of inertia also extends equipment life. The DHS design also minimizes heat generation, helping to keep products fresher and extend best-before dates.

Maximum hygiene

The wide openings of the TREIF TWISTER SP+ allow easy and efficient cleaning, as well as simplified disassembly and reassembly for improved maintenance. The hygienic design includes product separation to prevent cutting residues from entering end-products and a variety of optional collection devices. Double seals on the gridsets, blade shafts and the hygiene cylinder protect raw material and end products from contamination by hydraulic oil, foreign bodies, and moisture. FDA-approved gridsets providing optimal hygiene levels come as standard and can be disinfected by boiling.

Security

A specially designed rail ensures the discharge belt is always in the correct position, extending the life of the TREIF TWISTER SP+ and preventing any unplanned movement or slippage.

A partnership you can benefit from

With patents and innovations developed over many decades, TREIF brings exceptional dicing experience to the Marel portfolio to help processors of all sizes step into the future of sustainable food processing.

TECHNICAL SPECIFICATION

Max. output per hour (theoretical maximum)	1,900 kg (4,188 lbs)
Max. cut-off length	1-50 mm (1/25-2")
Blade rotation per minute	100-400
Cutting chamber internal dimensions	Width: 120 mm (4 7/10") Height: 120 mm (4 7/10") Length: 550 mm (21")
Cutting chamber opening	210 mm (8 3/10")
Gridset dice dimensions	4, 5, 6, 8, 10, 12, 15, 17, 20, 24, 30, 40, 60, 120 mm (1/5, 1/4, 3/10, 2/5, 1/2, 3/5, 19/32, 43/64, 25/32, 15/16, 1 3/16, 1 37/64, 2 23/64, 4 23/32")
Housing dimensions	Dimensions vary with model
Connecting load	6.0 kW
Weight (Varies with model)	Approx. Minimum 700 kg (1,543 lbs)



Service solutions for peace of mind

We offer a range of service solutions to prevent downtime and maximize performance. With offices in 30 countries around the world, we have a global network of highly skilled professionals that provide you with remote and onsite service support. We provide quality spare parts and customized service agreements to ensure your Marel equipment is performing optimally.