



FS 525 FORMING SYSTEM

ALL-IN-ONE SYSTEM FOR FREE FORMING
OR FORMING AND SEPARATING



For meat, dough, vegetarian and vegan products, tofu, meat substitutes, dairy, confectionery, fish, pet food and many more.

The 1-lane FS 525 forming and cutting system combines two different forming principles.

It thus achieves unprecedented flexibility in industrial production of formed products: The hole plate moulding technique allows the production of free-formed 3D products. The rotary cutter allows the production of different cross-sections with a straight cut. Product and shape changes take only a few simple steps and are possible in only 3 minutes thanks to the sophisticated conversion concept.

THE ADVANTAGES OF THE ALL-IN-ONE FORMING SYSTEM

- Maximum flexibility in the 1-lane production of formed products thanks to two forming principles (hole plates and rotary cutter)
- Versatile for the processing of different products
- Extremely economical production of a versatile product portfolio thanks to simple and fast conversion in just a few minutes
- First-class product quality due to shortest filling product paths and gentle forming principle
- High production output thanks to high cycle times and continuous process
- Fast return on investment due to maximum machine utilisation
- Compact all-in-one solution with small footprint
- Compatible and interface-capable for comprehensive automation processes

ALL-IN-ONE: FLEXIBILITY AND PRODUCTIVITY

Easy conversion for maximum machine utilisation

The forming technology can be quickly changed within a few minutes. Product selection, calculation of the process parameters and visualisation of the product shape are simply carried out on the monitor control system of the vacuum filler. This ensures maximum flexibility and efficiency to the implementation of a versatile product portfolio with optimum machine utilisation. The system is designed in a mobile, CE-compliant version with state-of-the-art Ether-CAT drive technology.

First-class, permanently reproducible product quality

The particularly gentle feeding and forming principle ensures first-class product quality and product shape retention. Digital product quality monitoring functions maintain standards at the highest level. The covering hood with window and illuminated interior ensure optimum monitoring of the production process.

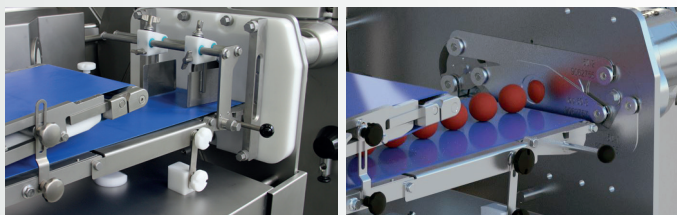
Automation options from the weighing system through to the packaging solution

The FS 525 forming and cutting system can be perfectly incorporated into integrated processes or be synchronised with automation options, such as a weighing system, tray feeding or depositing into thermo-forming machines. A wide range of digital solutions ensures future-proof production.

ALL-IN-ONE: TWO FORMING PRINCIPLES FOR UNLIMITED FORMING OPTIONS

Free forming with hole plate concept

- **Process:** Selection of product on the vacuum filler. Feeding the filling product from the vacuum filler to the forming system. Product forming by means of a rotating hole plate system.
- Product diameter 18 to 100 mm
- Production output up to 250 cycles/min.
- Option: hole plate sets with additional mould components



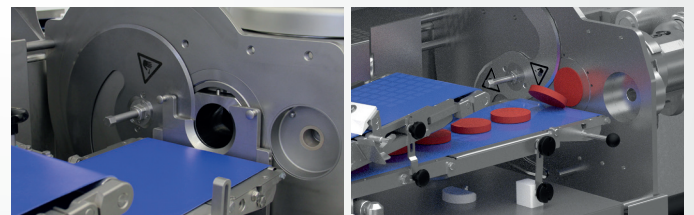
Examples of free formed and optionally flattened products

Balls, rissoles, mini rissoles, fish rissoles, cevapcici, potato croquettes, dumplings, dairy and dough products



Forming and separating with rotary cutting principle

- **Process:** Selection of product on the vacuum filler. Feeding the filling product from the vacuum filler to the forming system. Product forming by means of mould component at the outlet. Cutting with straight cut by rotary blade (or optionally wire)
- Product diameter 15 to 130 mm
- Production output:
up to 350 cuts/minute (2-arm blade)
up to 200 cuts/minute (1-arm blade)



Examples of formed and cut products

Burgers, homemade burgers, nuggets, fish sticks, vegetable patties, cheese and butter sticks, cheese and butter slices, fruit bars



OPTIONS & ACCESSORIES

- Flattening belt function with 10 to 50 mm flattening height
- Structuring roller variants: pyramid-, groove-, square-shaped, steak roller or customer-specific
- Water spraying device for forming system/belt and flattening belt
- 500 mm conveyor belt extension at the belt outlet incl. belt
- Inline grinding system at VF for filling and grinding to final grain size in a single step
- Digital options: HDS solutions such as product visualisation, monitoring functions ...



Flattening belt with structuring roller



FS 525 forming and cutting system

