

Sustainability and functionality.

We have the solutions.



Meat and meat products

More efficient packaging
and processing with lines
produced from the same
mould.

From MULTIVAC.

MULTIVAC



Meat and meat products.

The meat and meat processing industry faces great challenges: while staff costs have risen steeply, selling prices in food retailing remain at a constant level, and this means that production companies can only remain competitive through higher productivity. One solution to this is greater automation of production and packaging lines.

The whole process becomes not only quicker and more cost-effective, but also more hygienic and reliable. And such lines can also be used more flexibly for new products or alternatives made from vegetarian or vegan proteins. And they can also be converted equally flexibly to new or more environmentally-friendly packs. These are today very much the trend with consumers. Even before the mandatory EU Directive from 2030.







Innovative machines and materials are your guarantee of more sustainability and functionality. And ideally in fully integrated and digitalised lines.

Where various individual solutions are not in isolation from each other, but are perfectly matched together via different methods of communication, and also collect and process a wealth of information. Fully in line with Industry 4.0 and the Industrial Internet of Things (IIoT).

Let's go this way together. Successfully!

Packaging

6 MULTIVAC is one of the world's leading suppliers of integrated packaging solutions. In addition to manufacturing packaging machines, our focus is also on solutions for processing and slicing, labelling and marking, as well as quality inspection and product handling.

MULTIVAC has been supporting food manufacturers for 60 years with a wide range of innovative and cost-effective packaging solutions.

We are constantly striving to be Partner Number 1 in the hygienic and sustainable processing and packaging of a wide range of fresh, frozen and processed meat products. With expertise from one source: both in automation and complete lines.

MULTIVAC is investing to a considerable degree in sustainable packaging concepts which produce less waste and promote a better use of resources. Our customers worldwide see us as a partner, who makes a crucial contribution to their success. Producers benefit to a huge extent from our solutions, which guarantee them maximum productivity and hygiene, as well as extending the shelf life of the packaged product.





This is what real partnership looks like.

8 MULTIVAC's expertise in packaging solutions is both environmentally and economically sustainable. Our range of products, systems and customised services ensure that the highest levels of energy efficiency and productivity are achieved. Over the entire life cycle of your equipment. At MULTIVAC you will find experts in your product sector, who are very familiar with all the regulations and standards of your industry. Since we are totally focused on your products and target groups, our collaboration with you often begins in our TIC and TAC Technology Centers, where we offer advice on applications and packs as well as training courses.

This solid basis provides almost unlimited possibilities for you: a wide range of packaging technologies, Industry 4.0 compatible automation solutions, and labelling as well as quality control systems. Thanks to digitalisation with real-time analytical tools such as MULTIVAC Smart Services, we ensure from the outset that maximum operating security, process reliability and line efficiency are achieved. So that you can get the optimum from your production equipment, and also amortise your investment within the shortest possible time. Thanks to a low TCO (Total Cost of Ownership) and energy costs.

And best of all: with MULTIVAC the high level of equipment availability can be planned over the long term. As part of our concept for Overall Equipment Effectiveness (OEE), we will support you with our CustomCare after-sales solutions, ranging from proactive maintenance agreements (PMAs) and extended warranties, through to optimisation audits, spare parts supply, retrofits, express repairs or customised upgrades, and right up to the myMULTIVAC Customer Portal.

Our sales and service organisation can be quickly on-site with you anywhere in the world, and our live support is just one click away via smartphone or tablet.



MULTIVAC's PEAQ promise.

Just as important as Total Cost of Ownership (TCO) and Overall Equipment Effectiveness (OEE) is the actual number of packs you are producing.

In other words: Productivity. This is exactly what makes our **PEAQ promise: Productivity, Efficiency, Availability and Quality.**

So that you can raise your productivity while at the same time minimising life cycle costs, we are constantly providing you with innovative technology and services.

Irrespective of whether you are a small-scale producer, for whom flexibility and quick production changes are crucial, or an industrial-scale manufacturer with large volumes, who demands maximum machine availability and a breakdown risk of practically zero.



PEAQ
PROMISE

Maximize your productivity.

Our
PEAQ promise:
Raise your
productivity to
the top level.

Perfectly tailored to your products and customers.

10 Sector know-how and decades of experience make us the partner of choice, when it comes to finding optimum solutions for your products. Solutions that help you to increase the reliability of your equipment and reduce downtime, as well as bringing down operating costs and minimising give-away - whether this is with stand-alone machines or automated lines. For meat and meat products of all types: fresh meat, processed meat, raw and cooked ham, boiled and cooked sausage or jellied products.

Our concepts are perfectly designed for the individual requirements of the particular product and target market. At the forefront is always the aim of protecting the freshness and quality of your product, as well as employing the most sustainable packaging materials possible.

We offer you exactly what you need, so that you remain competitive today and in the future:

- Transport packs
- Storage and maturation packs
- Bulk packs for large-volume consumers, food service etc.
- Retail packs for farm stores and direct marketing companies
- Self-service packs for shops and supermarkets

Convince yourself with selected line solutions for typical applications. The entire spectrum of possibilities is open to you - from portioning machines and slicers through to equipment for packaging, labelling and inspection, and right up to box packing and palletising as well as other end-of-line applications. These are complemented by third party products in the processing sector, such as grinding (e.g. mince), forming (e.g. burgers), filling (e.g. sausages) and much more.





Automated, integrated, all from one source.

12

Gain an advantage with MULTIVAC lines

In the case of fresh and frozen meat, fixed weight packs optimise inventory control and significantly reduce waste after the best-before date has expired. Following this trend, we can offer our customers fully automated solutions for maximum productivity and hygiene.

Such state-of-the-art lines reduce human contact with the product, and they also ensure maximum machine availability with quick change of product and format thanks to MULTIVAC Line Control (MLC).

Each of our solutions is configured individually for you in terms of the product infeed, packaging process, discharge of packs, labelling or marking, quality inspection and end-of-line packing, and they are all delivered to you as a turnkey installation if required. We also support you in implementing track & trace systems, which make it possible to trace the food from the farmer to the pack.



Our range of packaging solutions in the sector of fresh, frozen and processed meat products includes:

- Automated and integrated lines from one source
- Thermoforming packaging machines
- Traysealers
- Flowpackers
- Labelling and marking systems
- Inspection systems



Your processing methods can be integrated perfectly:

- When it comes to automatic slicing lines, MULTIVAC achieves the optimum linking of slicers to thermoforming packaging machines and traysealers. Our innovative slicing systems are particularly impressive in their outstanding slicing results at maximum output with improved yield and reduced give-away.
- TVI, which is part of the MULTIVAC Group, is a leading specialist in portioning machines and complete portioning lines. Its wide product range includes solutions for tempering, freezing, pressing, portioning and automating, as well as for winding grill sticks and producing kebab skewers.
- We work together with other specialists in processing solutions within the MULTIVAC Technology Network, so that you can always access the know-how of established top suppliers. Whether you want to fill sausages, portion meat products, or dose, form or extrude.

Portioned fresh meat

Best in class in terms of flexibility and versatility.

14 Are you looking for an exceptionally flexible and versatile inline portioning and tray packaging solution? With a system, which combines the highest quality with the best return like no other on the market, and which at the same time opens up new opportunities for

your company? Our highly flexible portioning line is more efficient than ever at mastering automatic portioning, infeeding, packaging and labelling. And this automatic line can be expanded very easily at any time with other end-of-line functions, such as for example box packing, palletising etc.

Labelling the top and bottom of the packs

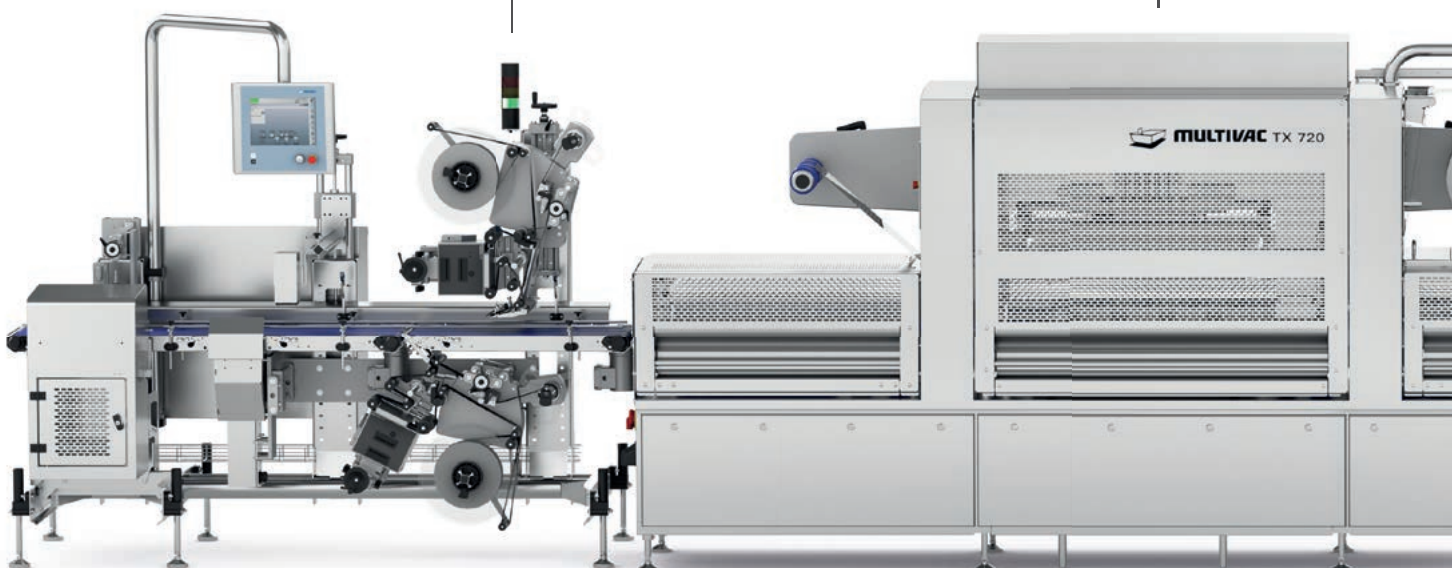
5

L 310 conveyor belt labeller

MAP packaging

4

TX 720 traysealer





Maximise your output
while minimising the
complexity.

3 Printing variable product data

DP 225 direct web printer

Portioning fresh meat

**TVI GMS 520
portioning machine**

2

Denesting and
loading of trays

**TVI AIR 520
loading system**

1



Sliced products

Optimise your slicing and thermoforming processes.

16 Enjoy the benefits offered by a packaging partner, who can rationalise and simplify your slicing and thermoforming processes, as well as enabling you to assume full control of the line. We can offer you the best solution of any manufacturer in the sector, when it comes to simple and rapid conversion of the thermoforming packaging machine and slicer.

Our machine control guarantees you the greatest possible number of good packs from the line, since the automatically optimised line speed provides consistently high output.

As a fully integrated high-performance solution, our lines are very efficient at performing automatic slicing with interleaving, as well as the subsequent operations of infeeding, packaging and labelling. And this automatic line can be expanded very easily at any time with other end-of-line functions, such as for example box packing, palletising etc.

Labelling the top and bottom of the packs

5

CL 220 and CL 230 cross web labellers with TTO thermal transfer printer

MAP packaging

4

RX 4.0 thermoforming packaging machine

Loading

3

SB 625 horizontal loading system





Thanks to pioneering line integration, you can achieve first-class productivity, machine availability and product quality.

Easy separation of the slices

2

**MULTIVAC Sustainable
Liquid Interleaver**

Slicing

1

S 1600 slicer



Formed products

More productivity - fully automatic and intelligent.

18 Anybody wishing to optimise and rationalise their processes has all the aces up their sleeve with our comprehensive and highly flexible range of packaging and processing solutions. Our new flowpacking line solution includes all the components, starting with pack design and consultancy, then product arrangement and loading, through to labelling and inspection, and finally end-of-line box loading.

The flowpacking solution is particularly suitable for quick product changes, and one of its many features is its cost-effectiveness at high output. The use of very thin films and the absence of process-related film trim also

contribute to the sustainability of the solution. Its centrifuge separates a wide range of similarly shaped products gently and consistently. And as a loading system, the flexible handling module creates a wide range of very precise portion shapes - with and without carrier trays.

The line is constructed very simply and can be expanded at any time. Even upstream processes for producing and forming the burgers can be designed, delivered and integrated by MULTIVAC and its Technology Network partners. And the end-of-line area can also be expanded individually to include other functions, such as palletising and integration into warehouse logistics.

1 Separating of frozen burgers

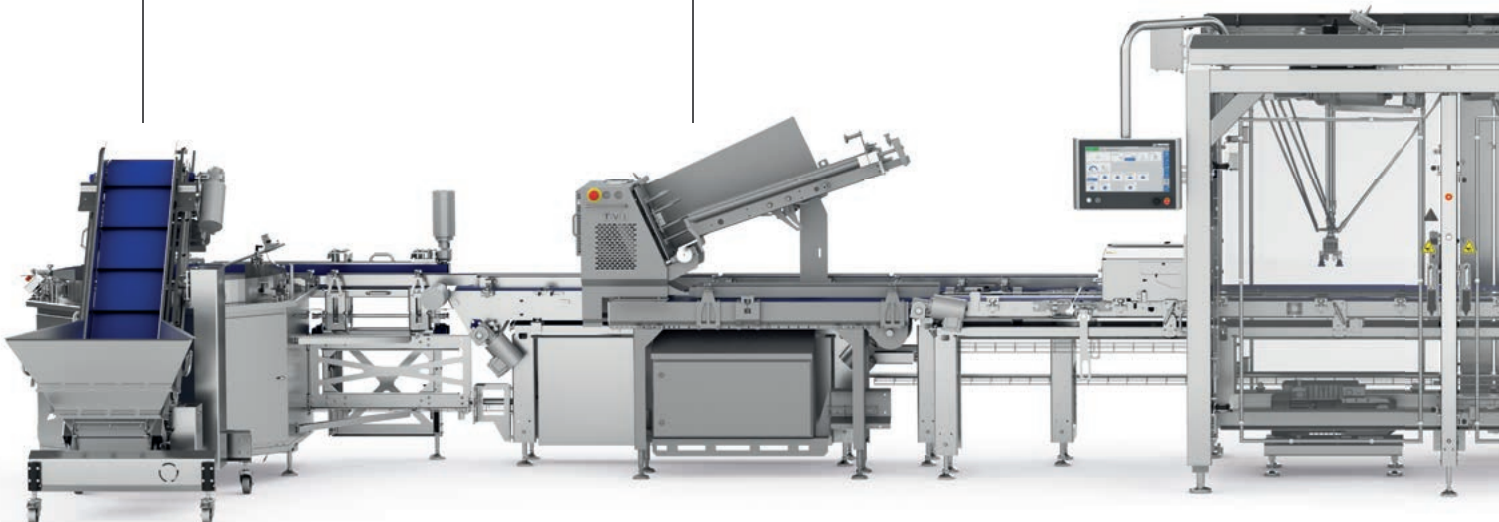
MCF 900 centrifuge

2 Denesting of cardboard trays

TDS 300 denester from TVI

Loading of trays or direct loading into the flowpacker

H 244 handling module





Maximise your productivity now with our new fully automatic and intelligent flowpacking line.

Labelling of packs

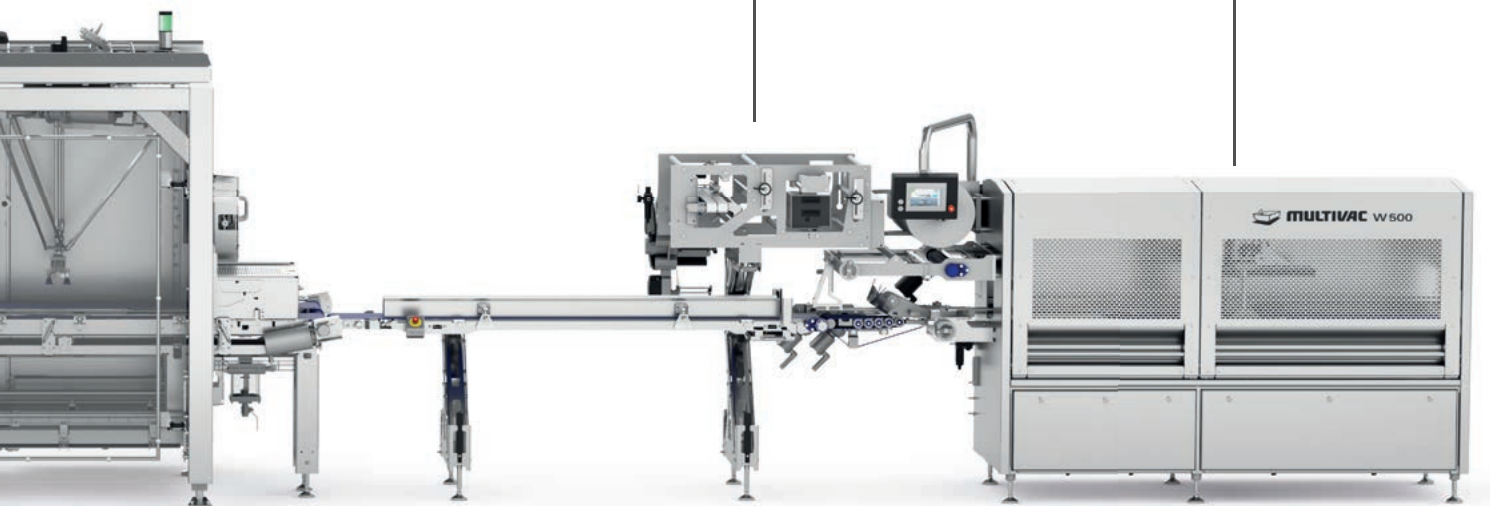
4

IL 161 inline labeller

Packaging in flowpacks

5

W 500 flowpacker



Large products Save costs while increasing ergonomics and hygiene.

20 Making the change pays off: Our semi-automatic MPL loading system achieves cost savings of up to 40 percent compared with manual loading, since the chamber belt machine is also equipped with a decoupled infeed conveyor (Split Belt) for simultaneous loading and packing.

The line is constructed very simply and can be extended at any time. It is possible to expand the line later to a shrink packaging line with shrink unit and drying tunnel, as well as equipment for box packing and palletising. And when it comes to upstream processes, MULTIVAC and its Technology Network partners can even design, supply and integrate proven solutions for deboning, grinding and portioning.





Optimise your processes and increase your output while at the same time reducing your costs.

Semi-automatic loading of film pouches

1

MPL pouch loader



MULTIVAC is there for you on-site, worldwide.

22

165

MULTIVAC supplies products and services in 165 countries.

6,900

Employees.
Our most valuable capital.

200,000+

Packaging machines sold.

80+

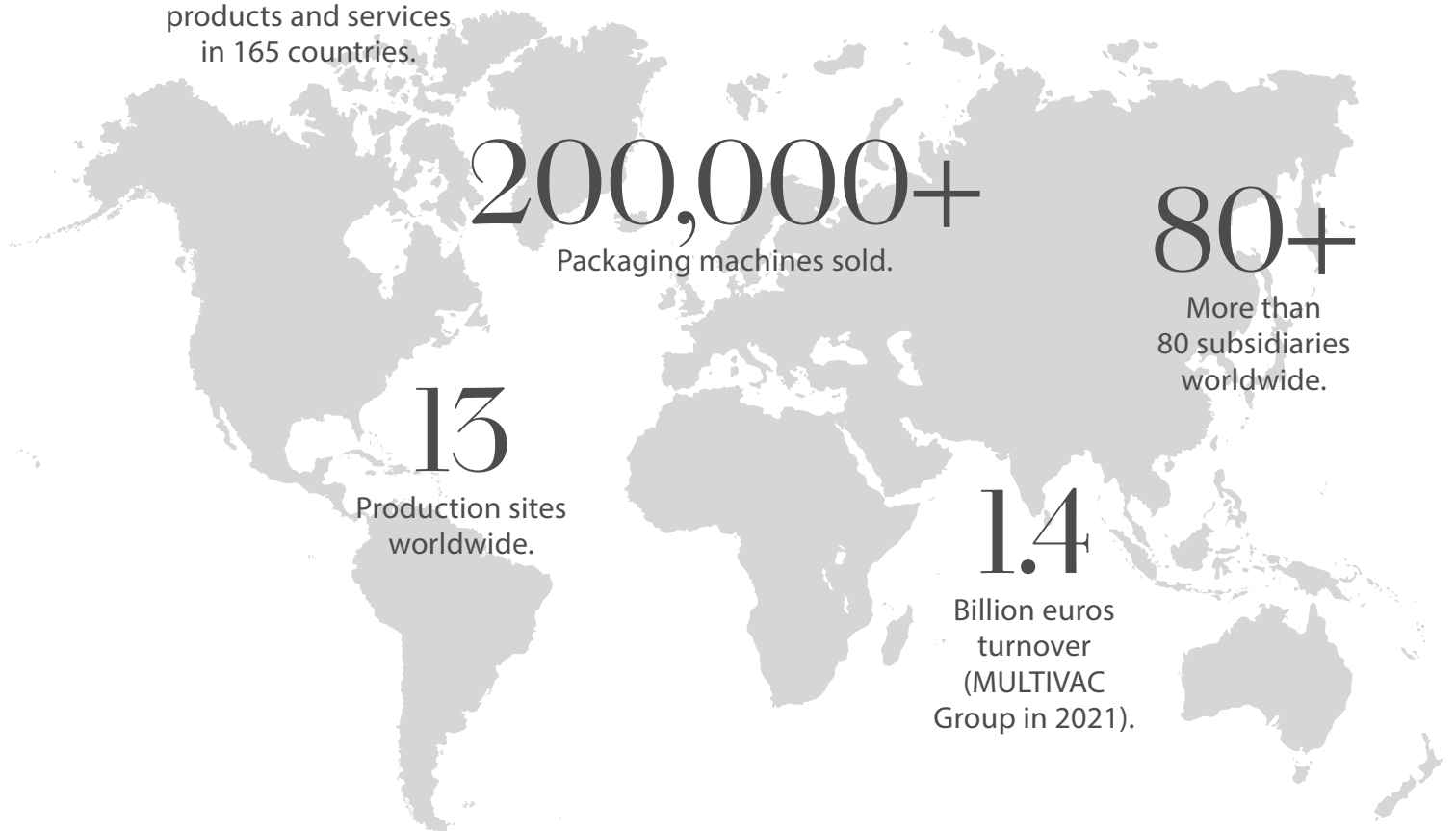
More than 80 subsidiaries worldwide.

13

Production sites worldwide.

1.4

Billion euros turnover (MULTIVAC Group in 2021).



The MULTIVAC Group employs some 6,900 staff worldwide. With over 80 subsidiaries, the Group is represented on all continents. More than 1,000 advisors and service technicians support customers around the globe. Their know-how and experience provide the maximum availability for all installed MULTIVAC machines. At all times and in all places.





MULTIVAC is part of the R-Cycle initiative across all its companies. The common objective is to drive the loop system for plastic packs forward, based on an open and globally applicable tracing standard.



MULTIVAC supports the Blue Competence initiative of the Association of German Machinery and Equipment Manufacturers (VDMA).

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Subject to technical changes in line with product development.

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