

# ScanPortioner B36™ and B55™

Accurate, high-speed intelligent portion cutting of beef, pork, veal and lamb



## Highlights

- Very flexible high-speed cutting
- Phenomenal accuracy, resulting in minimal giveaway
- Hygienic and easy to clean
- Perfect product fixation
- Software options for better product optimisation
- Optimal 360° scanning



# Top performance plus simplicity

## ScanPortioner B55™

The ScanPortioner B55 is developed specifically for the accurate portion cutting of boneless meat products – beef, pork, veal and lamb.

360° scanning ensures that shadows and unseen areas are recorded.

The unique V-belt design and product holder eliminate all unintended product movement during the cutting process. Even backward movement is prevented by the joint item and by the boundary detection capability.

These features – and many more – ensure high-precision performance with every cut made using the ScanPortioner B55.

## ScanPortioner B36™

The ScanPortioner B36 is a high-speed, high-precision portion cutter ideal for cutting boneless meat products – beef, pork, veal and lamb – to fixed weight and/or length. The flexible high-capacity portion cutter can make up to 1000 cuts per minute.

### Software programs

The machines feature several pre-programmed standard cutting patterns. In addition, special software cutting programs have been developed for optimising the meat cutting patterns, e.g. the “Cut n’ Batch” program.

## Benefits

- Maximum weight accuracy with 360° 3-D scanning and perfect product fixation on ScanPortioner B55
- High productivity as a result of very fast portioning
- Reduced operating costs because of low maintenance
- Extremely fast continuous cutting because of boundary and joint item detection
- No learning curve, resulting in maximum flexibility
- Easy to use with different types of products
- Maximum profit because of fast payback
- High level of hygiene with open construction and easy cleaning
- Pre-set cutting programs that ensure high yield

2



Product	Input	Output	Machine	Portion accuracy <sup>1)</sup> < 100 g: g > 100 g: %	Throughput <sup>2)</sup> per hour up to	
	Pork loin	2.5–3 kg	100–150 g	B55	1.0–1.5	1200–1800 kg
				B36	1.5–2.5	1500–2300 kg
	Pork neck	1.5–2.5 kg	100–150 g	B55	1.5–2.0	1200–1800 kg
				B36	2.0–3.5	1500–2300 kg
	Pork shoulder	3.7–5.0 kg	150–200 g	B55	1.5–2.0	1800–2400 kg
				B36	2.0–4.0	2300–3100 kg
	Pork belly deboned	1.0–2.0 kg	15 mm	B55	1.5–2.0	600 kg
				B36	2.0–3.0	1300 kg
	Smoked bacon	0.7–2.0 kg	40–60 mm	B55	1.5–2.5	1400 kg
				B36	2.0–4.0	1700 kg
	Bacon joints or Pork loin roast	2.5–6.5 kg	907 g / 2 g	B55	1.0–1.5	5500 kg
				B36	1.5–2.5	5500 kg
	Tenderloin (pork)	0.3–1.2	80–100 g	B55	1.0–1.5	1100 kg
				B36	1.5–2.0	1300 kg
	Striploin	1.0–4.0 kg	200–340 g	B55	1.5–2.5	2000–3500 kg
				B36	2.0–3.0	2000–3500 kg
	Ribeye	2.0–4.0 kg	200–340 g	B55	1.5–2.5	2000–3500 kg
				B36	2.0–3.5	2000–3500 kg
	Tenderloin (beef)	1.0–3.0 kg	200–280 g	B55	0.8–1.5	2300–2600 kg
				B36	1.5–2.5	2800–3100 kg
	Rump with cap	5.0–7.0 kg	500 g = approx. 15 mm	B55	1.5–3.0	5900 kg
				B36	n/a	n/a
	Rump without cap	5.0–7.0 kg	500 g = approx. 15 mm	B55	1.5–2.5	5800 kg
				B36	n/a	n/a
	Top butt without cap	0.5–2.5 kg	200–340 g	B55	1.0–1.5	2000–3500 kg
				B36	2.0–3.0	2800–5100 kg
	Flat iron steak	0.5–2.0 kg	200 g	B55	1.5–2.0	2000 kg
				B36	2.0–3.0	3000 kg
	Turkey breast	1.0–2.0 kg	125–175 g	B55	2.0–3.0	1400–1900 kg
				B36	3.0–5.0	2000–2700 kg

1) +/- 1 std. 2) Throughput depends on product size, portion size and optimal loading

# ScanPortioner B36™

– for flexible weight-controlled cutting



## Intelligent portion cutting

Pre-programmed calibration enables you to switch product set-ups in seconds. Specialised programs ensure you a highly flexible portioning solution that always makes the right decision prior to the actual cutting. The portion cutter can be adjusted from the colour touch-screen control panel at any time during the portioning process, which improves performance.

## Extremely hygienic

The ScanPortioner B36 is designed and built to comply with the most stringent hygiene standards. The machine is designed with 4 doors for easy access to the inside of the machine.

## Switch of cutting angle

With the ScanPortioner B36 it is possible to easily switch cutting angle to 45 degrees.

4

## Safety stop

The portion cutter is designed to ensure maximum safety for all your staff. If the door is opened during the cutting process, a safety cut-out stops the machine immediately.



## Ultra-fast cutting

The knife makes up to 1000 fixed weight cuts per minute – a much higher portion-cutting capacity than ever seen before on a single-lane machine.

## Perfect product fixation

Four individual flexible arms hold down each product on top which keeps it stable and helps prevent it rolling backwards or from moving up and down on the conveyor belt during cutting.



## Unmatched accuracy

The latest in laser vision technology, featuring a 100 Hz camera, ensures unparalleled accuracy.

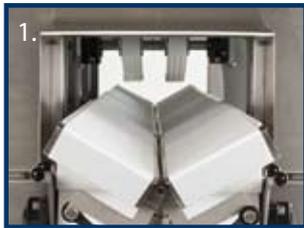
## No use of water

The quick-release, open knife guide does not require continuous use of water. This reduces the risk of cross-contamination.



# ScanPortioner B55™

– 3-D scanning technology for top performance at every cut



## Perfect product fixation

1. V-belts significantly reduce sideways movement and facilitate optimum product infeed
2. Product holders stabilising the product on top help prevent products from rolling backwards and moving up and down on the conveyor belt during the cutting process
3. The joint pieces technique and the boundary detection system prevent products moving backwards while being cut.

## Open construction

Large top-hinged doors provide easy access for cleaning and maintenance. Conveyor belts can be removed for inspection and cleaning, without using tools. Back wall-holders for all rollers facilitate easy wash down of removable parts.



## Flexible production

Pre-programmed calibration makes it possible to change product set-ups in seconds on the colour touch-screen.

Up to 90 customer-specified programs are available, providing a highly flexible portioning solution. The portion cutter can be continuously adjusted during production, which improves performance.



## Easy access

Separate access to the knife unit on the back side of the portion cutter. This makes it easy to mount and dismount the knife safely.

## Safety stop



## 3-D scanning all around the product

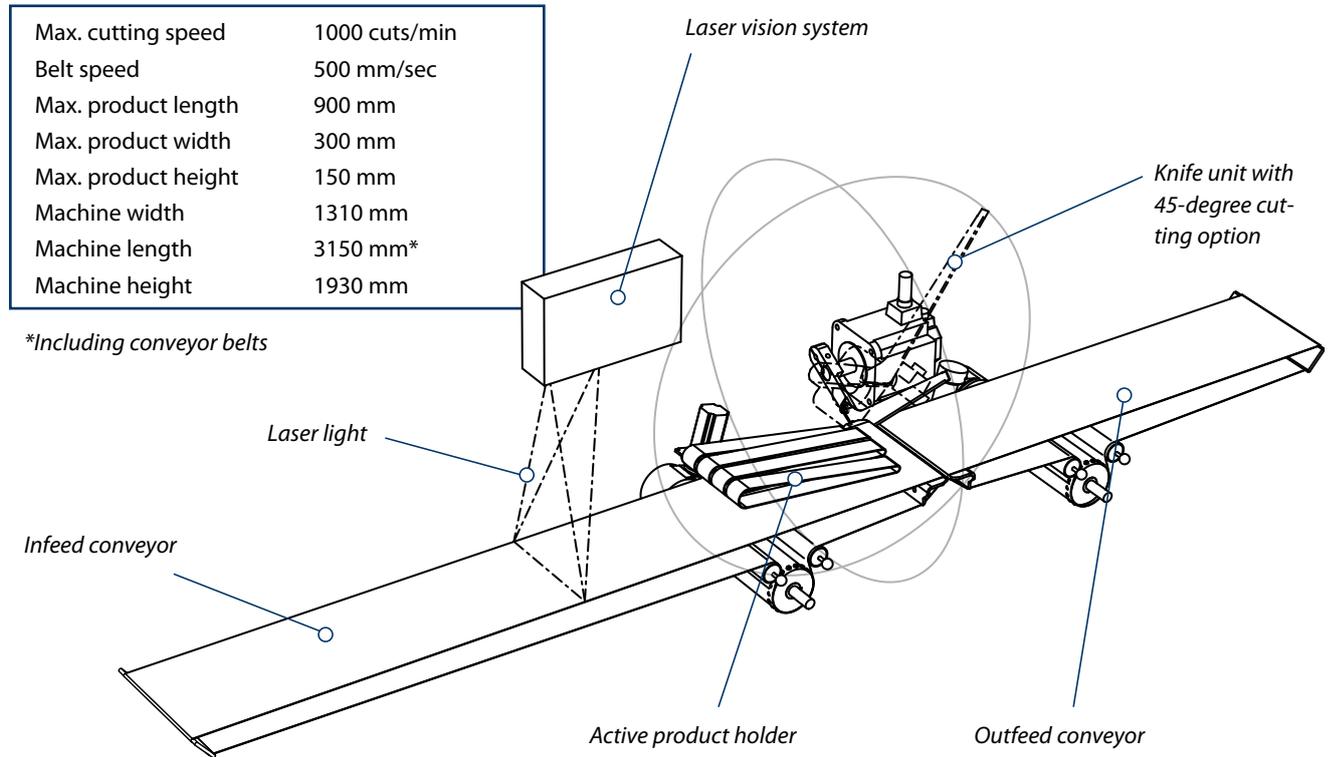
360° scanning ensures exceptionally accurate and consistent measuring results. Static precision scanners placed in a full circle around the conveyor prevent unseen areas and shadow effects.

## No use of water

## Acceleration for grading

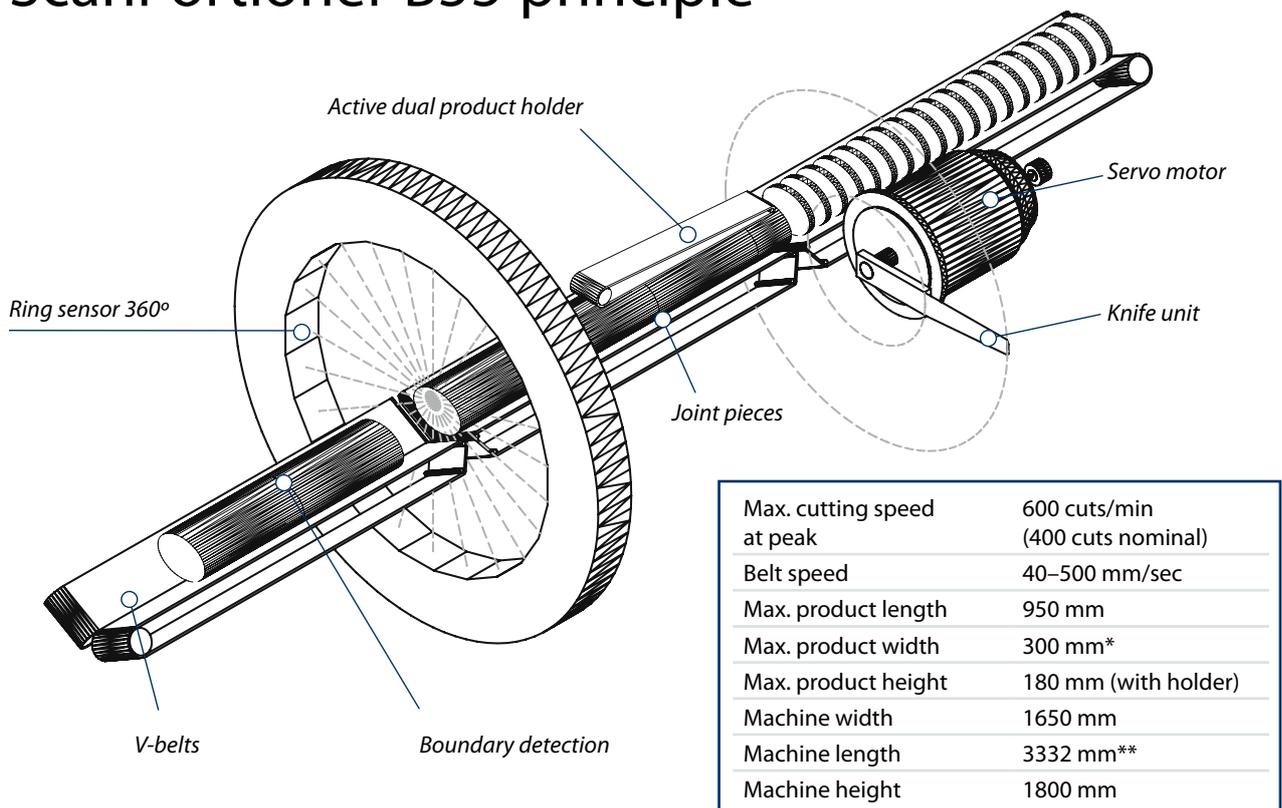
Once the meat has been cut into pieces, the control unit adjusts the speed of the conveyor belt and makes sure there is a gap between the individual pieces. This makes automatic grading possible in high volumes.

# ScanPortioner B36 principle



6

# ScanPortioner B55 principle



\* (possibility of 350 mm when V-belt angle is low)

\*\* Including conveyor belts

# Add-ons for your specific needs

ScanPortioners are available with a range of additional cutting and batching options that can result in payback times of less than one month.



## Cut n' Batch Software (optional purchase)

### - Let the ScanPortioner be your batching machine

- The Cut n' Batch software ensures a specific target weight for a whole batch, rather than just an individual piece.
- The individual pieces within the batch are guaranteed to have equal thickness. The consumer benefits because all the pieces take the same time to cook.
- The pieces in a batch are always adjacent pieces with the same meat colour, marbling, fat coverage, etc.

The software can even handle different batch target weights within one whole piece of raw material.

In addition, the product can be divided into designated zones, which can then be cut according to the above set parameters.

## Job Queue Software (optional purchase)

Imagine that you receive a range of orders that together add up to 2,325 steaks of 200 g sirloin.

In the production a number of steaks are cut based on an estimate - reaching e.g. 2,543.

What can you do with these excess steaks?

With the Job Queue software, you can instruct the ScanPortioner to stop cutting as soon as the target of 2,325 steaks of 200 g sirloin is reached - even if this means stopping in the middle of a sirloin.

It is also possible to run multiple sirloin jobs at the same time.

## Specific optimisation software (optional purchase)

Imagine you have a 2,738 g pork loin.

You want the first and the last part of the loin cut into 8 x 125 g fixed-weight pork chops. You also want the centre part cut into 150 g pork chops (catch weight ranging from 150-175 g), but instead of having a trim piece left over, you want that trim added to these chops.

Without the optimization software you will have

8 x 125 g = 1,000 g

11 x 150 g = 1,650 g

Trim = 88 g

With the optimization software you will have

8 x 125 g = 1,000 g

11 x 158 g = 1,738 g

No trim

There are many other possibilities with this software, please ask for more details.

## Alternative knife types

We are constantly trying to improve accuracy and the cutting face of the meat. To do this we have several knife types available. For example :



Serrated straight knife:

*Very good when you want to cut through membrane, crust frozen products or other types of surface where a serrated penetration first would be ideal.*



Straight knife:

*Good for e.g. soft red- and pork meat.*



Angled knife:

*Definitely first choice when cutting meat. This type of knife gives the meat a very nice clean cut. The impact when hitting the meat is done on an angle and therefore not pressed through the meat but sliced through.*

## Cutting thin meat slices (optional purchase)

With our newly designed knife ring with additional knife guidance, we are able to cut meat items down to approx. 5 mm thick.



## Scanvaegt at a glance

Scanvaegt is a leading supplier of superior know-how and solutions to the fish processing industry throughout the world.

### Scanvaegt provides

- a comprehensive range of solutions for handling, processing and packaging food products
- highly advanced equipment for monitoring performance, measuring efficiency and improving yields
- the ability to design, develop, manufacture and install every-thing from a single machine to a complete food processing solution – backed by a full range of service packages
- a thorough understanding of all aspects of the food processing industry, how these work together and how they can be leveraged into greater profitability
- sales, service and maintenance on a global scale, carried out by Scanvaegt's own staff.

### Contact

For further information, please contact your local representative or check [www.scanvaegt.com](http://www.scanvaegt.com)



## Scanvaegt 24-hour global service

All Scanvaegt products are backed by a full range of service packages, providing installation, extended warranty and preventive maintenance, ensuring maximum uptime and packing accuracy at all times. A partnership agreement with Scanvaegt ensures uninterrupted production flows, having the right people and equipment at the right place at the right time, protection for your system and peace of mind for your customers.

## Arrange a demo

Call us today to arrange a demo, to assist you in doing your own payback analysis – or if you would just like more information about how you can benefit from Scanvaegt meat portioning know-how.



## Marel Food Systems

The world's leading manufacturer of high-tech equipment for the food processing industry

**We are innovative in everything we do and we provide outstanding new solutions and services to the food processing industry in order to create greater value for all our stakeholders.**

For further information please visit

[www.marelfoodsystems.com](http://www.marelfoodsystems.com)

RETURN ON INNOVATION

**marel**  
food systems