

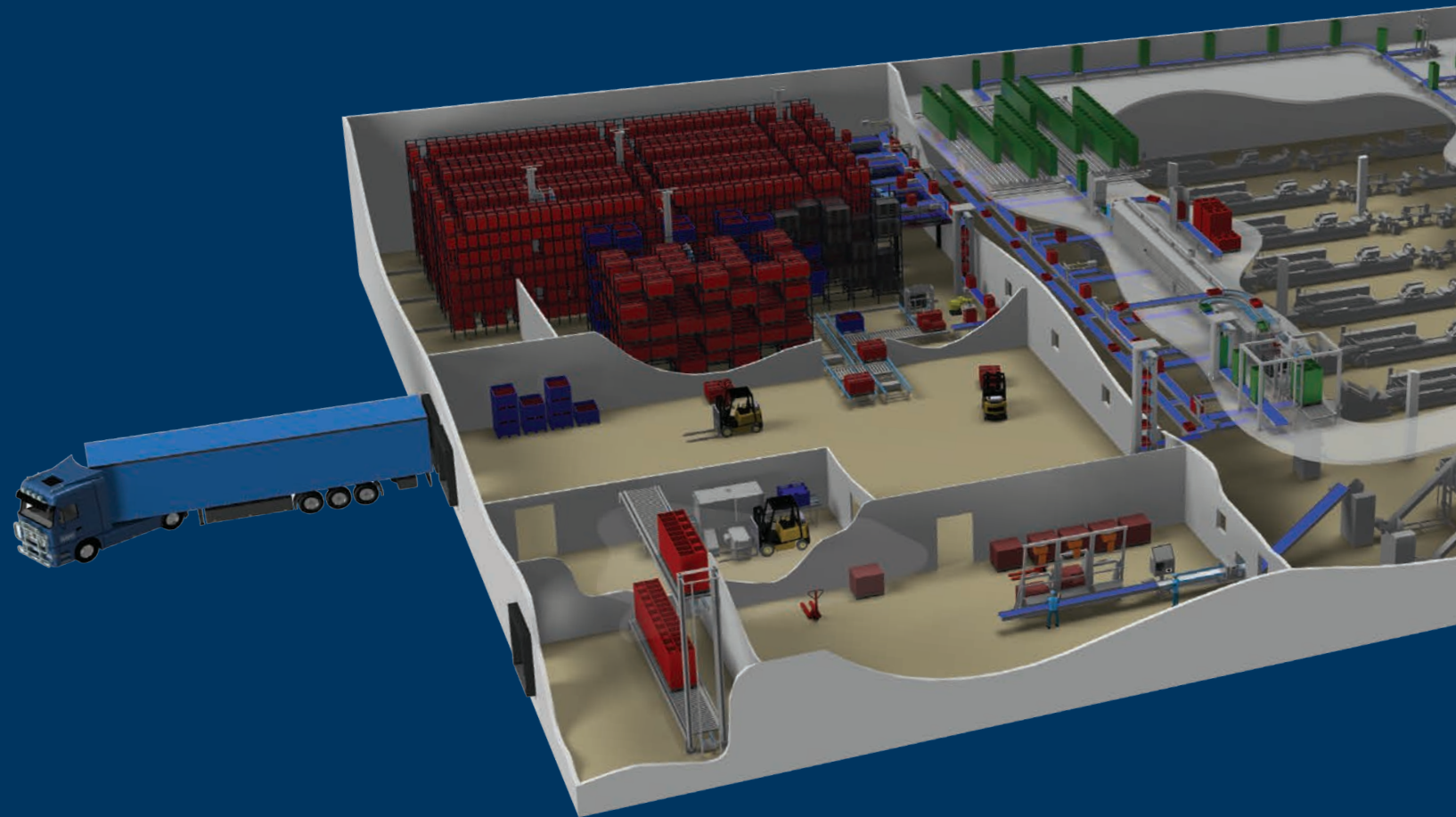
FRONTMATEC

GOSystems from carcass intake to product dispatch

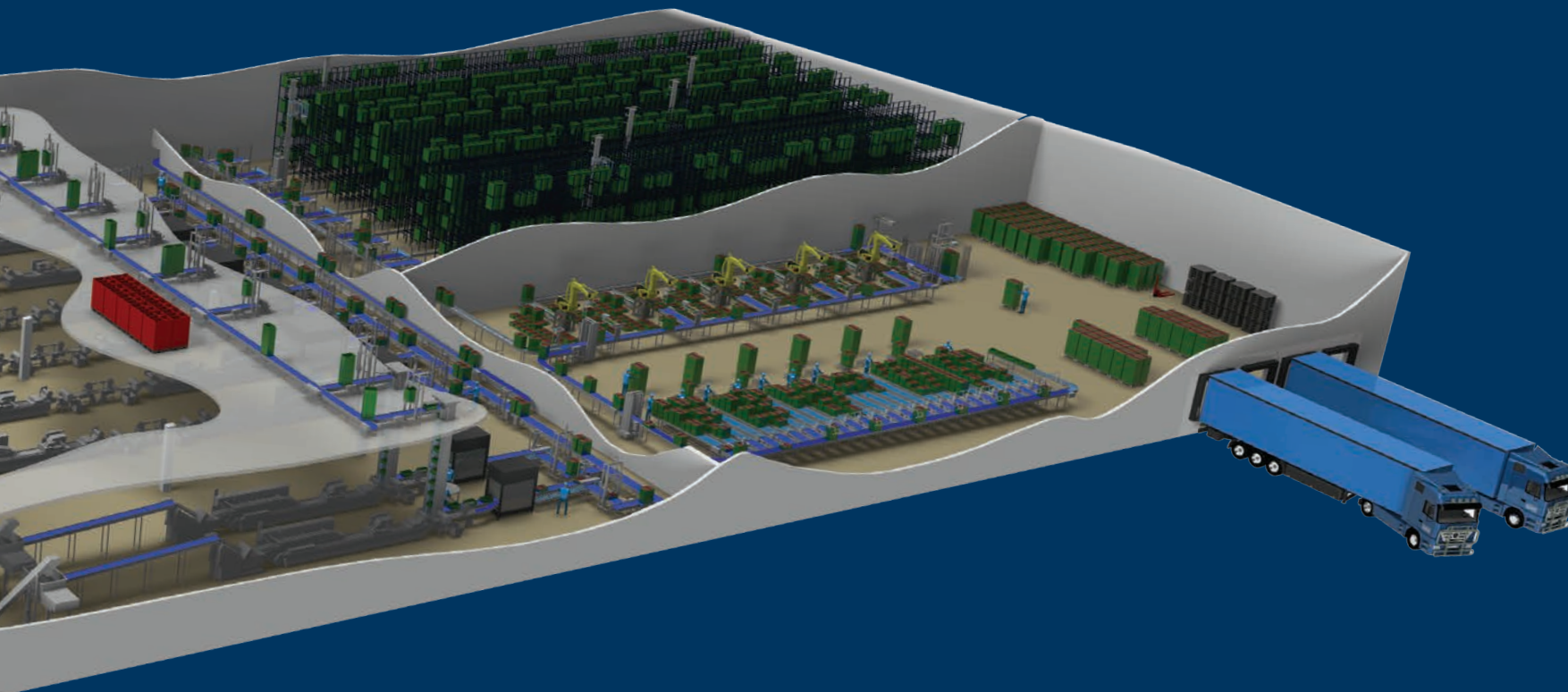


GOSystems for meat processing

- Carcass registration
- Breakdown/piece removal
- Deboning/trimming
- Meat harvesting
- Manual box packing
- Freezing
- Portion cutting
- Robot batching
- Check weighing and price labelling
- Box registration and labelling
- Automated buffer stock
- Final goods management



- Fat analyzing and grading
- Grinding and mixing



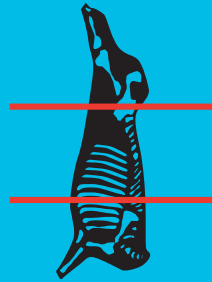
Traceability - deboning

Real-time performance on yield, throughput and quality

REGISTRATION



BREAKUP



DEBONING



TRIMMING





GOSystems for **real-time performance** on yield, throughput and quality

PACKING



Intake and registration

Carcasses from stock are guided to an overhead track scale near the entrance to the deboning hall. Information concerning each animal such as animal ID, age, slaughter date, farmer, pH-value, etc. is captured by the control system.

Meat harvesting

Residual meat on the bones is harvested as high quality three-millimeter manufacturing meat. Under low pressure this residual meat is removed from the bones, keeping the bones intact. The resultant three-millimeter meat can be compared with manually obtained trimmings.

Breakdown

Carcasses are cut down per individual specifications and weighed before entering the Q-line for deboning/trimming lines. Yield, throughput and other key performance indicators (KPIs) for each operator can be registered and monitored.

Deboning and trimming

The primals are distributed to work stations on the trimming lines based on operator availability and are deboned/trimmed/skinned, according to individual specifications. All cuts are fully traceable. Yield, throughput, quality and other KPIs for each operator are registered and monitored online.

Packing products

Products are automatically distributed for individual or bulk packing.

- Thermopacking – A label with product data such as product ID, type, etc. is printed and applied before the products are vacuum packed using a thermoformer
- Vacuum bag packing – Can be fully automatic, manual or a combination of both. A label containing data about the product such as product ID, type, etc. can be printed and applied before the product is sent to sealing
- Manual packing – Products such as oversize or multipack products are sorted into bins. This procedure can be combined with a batching operation based on weight and/or count. A label containing exact data about the type and lot can be printed and added. The packed products are subsequently sent to the bagging line for sealing
- Trolley/Bulk – Products from the trimming lines can also be sorted into trolleys or bins

Manual Box Packing

The bagged products are sent to box packing and subsequently to box registration and labelling.

Sealing, check weighing, labelling and packing

The trays are top sealed, check weighed, price labelled and packed into boxed or crates.

Box registration and labelling

All boxes pass a box registration and labelling station. Each box is allocated to a unique position in the stock buffer, based on the weight, the box and product ID, or sent directly to palletizing and dispatch.





GOSystems advanced packing and labelling solutions can also include full inventory, order picking, palletizing and order processing capabilities.

This further supports:

- Work in progress weighing
- Inventory control
- Packing and labelling
- Giveaway monitoring
- Finished goods and outer case marking

- Orders can be processed online, pallets can be build automatically and all labels printed are based on real-time data
- End products can be traced back to the supplier's delivery
- Data transferred to an ERP system as production and stock transfers

FRONTMATEC

Frontmatec develops world-leading customized solutions for automation in the food industry, other hygiene sensitive industries and the utilities industry. We are especially renowned for our high-quality systems for the entire value chain of the meat industry – from carcass grading, slaughter lines, cutting and deboning lines, hygiene systems and control systems, to logistics and packaging.

Barcelona, Spain

Phone: +34 932 643 800

E-mail: barcelona@frontmatec.com

Beckum, Germany

Phone: +49 252 185 070

E-mail: beckum@frontmatec.com

Birmingham, UK

Phone: +44 121 313 3564

E-mail: birmingham@frontmatec.com

Grodzisk Mazowiecki, Poland

Phone: +48 227 345 551

E-mail: grodzisk@frontmatec.com

Jining, China

Phone: +86 537 371 3266

E-mail: jining@frontmatec.com

Kansas City, MO, US

Phone: +1 816 891 2440

E-mail: kansascity@frontmatec.com

Kolding, Denmark

Phone: +45 763 427 00

E-mail: kolding@frontmatec.com

Lünen, Germany

Phone: +49 2306 7560 680

E-mail: luenen@frontmatec.com

Moscow, Russia

Phone: +7 495 424 9559

E-mail: moscow@frontmatec.com

Rijssen, the Netherlands

Phone: +31 886 294 000

E-mail: rijssen@frontmatec.com

Shanghai, China

Phone: +86 215 859 4850

E-mail: shanghai@frontmatec.com

Skive, Denmark

Phone: +45 975 250 22

E-mail: skive@frontmatec.com

Smørum, Denmark

Phone: +45 445 037 00

E-mail: smoerum@frontmatec.com

St. Anselme, QC, Canada

Phone: +1 418 885 4493

E-mail: quebec@frontmatec.com

Tandslet, Sydals, Denmark

Phone: +45 744 076 44

E-mail: tandslet@frontmatec.com

frontmatec.com