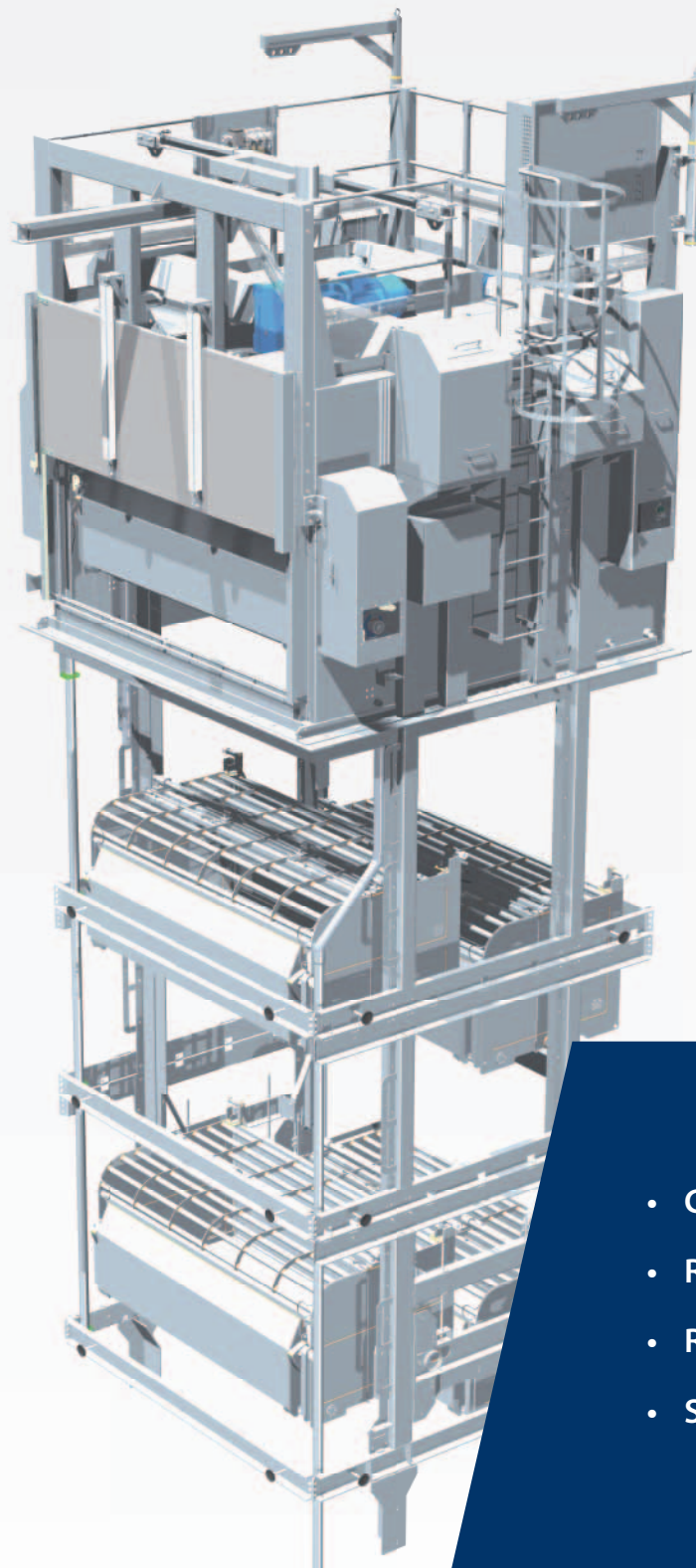


Backloader G3 RelaX



- Capacity / animal welfare
- Reduced life-cycle costs
- Reliability
- Safety

Backloader G3 RelaX features

Serviceability

- Main functions that require service and/or adjustment are located outside the confined space. If still inside the confined space, the functions are easily accessible from outside
- Machine is wired outside of confined space
- Easy access for dismantling and mounting of gondolas
- Updated chain removal and reinstallation procedure
- Updated chain tension section for quick and easy service
- Daily maintenance is performed outside the confined space
- Integrated hoists for lifting heavy machinery parts
- Designed for modular replacement of spare parts - quick, easy and safe
- All parts subject to wear and tear, as well as parts with a long service life, are easily interchangeable

Improved reliability and life-cycle cost

- Powerful electrical tipout with lower
- Running costs compared with previous solutions
- "Solid" gondola chain link
- Improved inlet and outlet door functionality
- Newly developed drive system for push wall
- New improved drive system for patented pre-divider
- Quick preventative maintenance, check service and service

Increased capacity

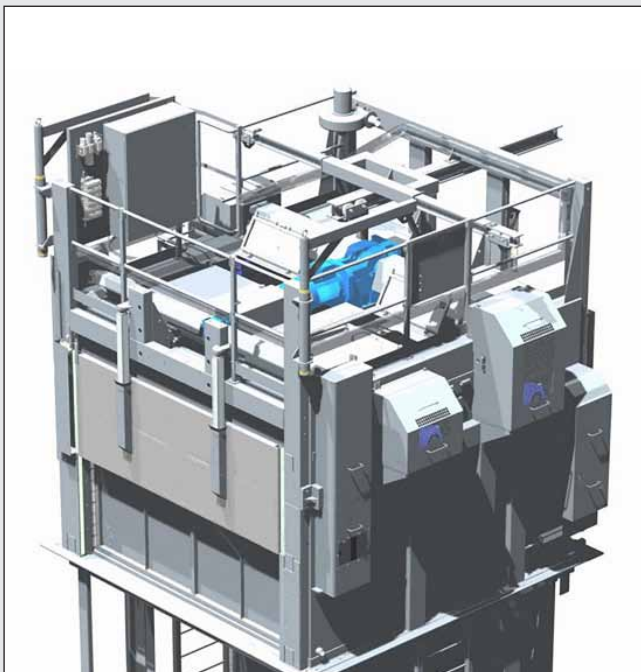
- Largest gondolas on the market today
- Option for increased capacity or additional floor space per pig
- Backloader G3 RelaX fits within existing pits (Butina G1, G2 pits)
- Patented Pre-Dividing system (patent No: EP 1 489 900 B1)

Main functions that require service and/or adjustment are located outside the confined space, easily accessed from the outside

Backloader roof is lowered to the motor bracket, exposing the main engine, the inlet hoist gate drive unit and drive shafts.

Backloader roof is used as a service/maintenance platform with fence and access ladder with fall safety cage.

Main functions as switch board, pneumatic valves, CO₂ valves are located on top of the Backloader, easily accessed and protected against daily cleaning.



Animal welfare

- Increased floor space
- Patented accurate sequential control of the main motor (patent No.: EP 1 587 371 B1)
- Ensures that the main motor always operates a specific compartment from inlet to outlet with the same duration regardless of the variation in inlet time of one batch of pigs. This results in a more uniform flow from the stunner, uniform stunning quality and consequently a shorter stun-to-stick time
- All gates, push walls etc. are pressure sensitive (fully adjustable)

User interface

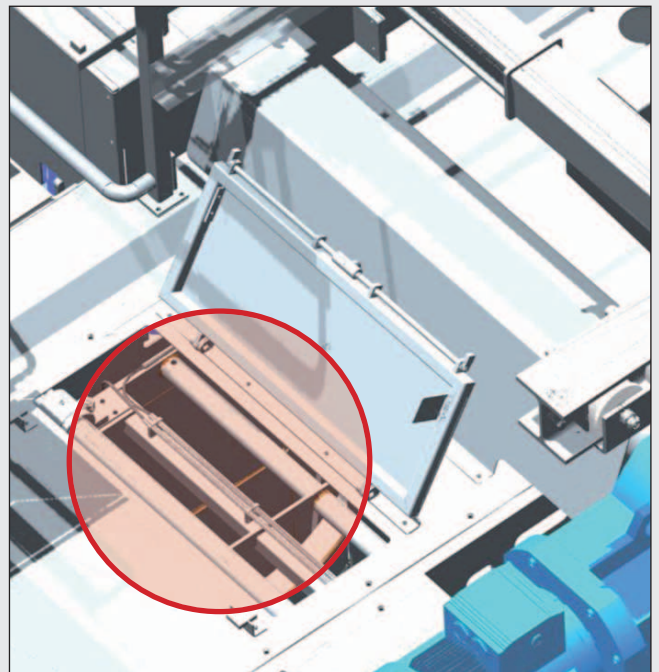
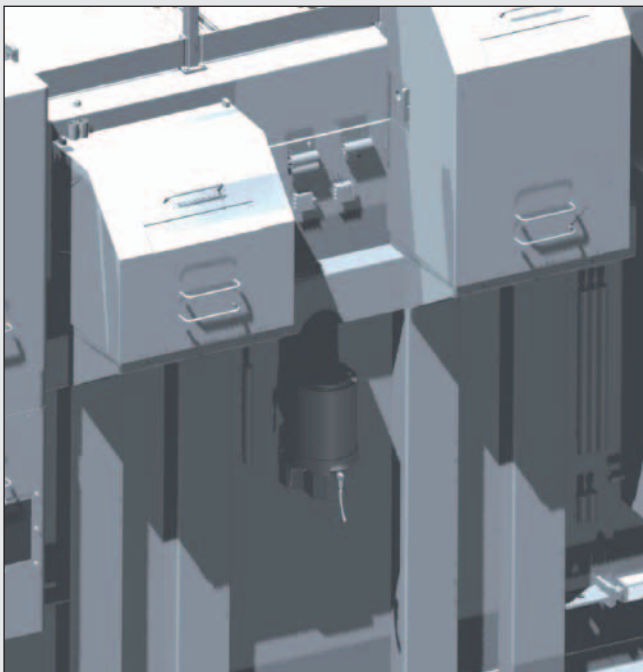
- Simple intuitive operator interface
- Advanced error seeking capabilities
- Automatic stunning data recording – easily extracted or exported to Scada

Safety

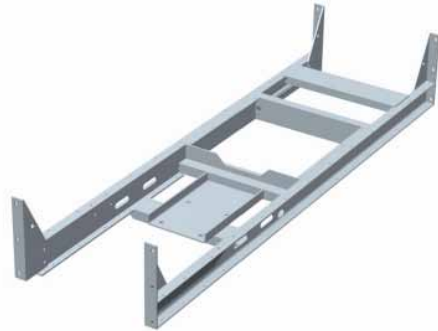
- Integrated harness anchoring points
- Fenced service platform
- Advanced emergency stop system
- Integrated ladders at machine entrance points
- Integrated lifting capacity for improved ergonomics
- Maintenance performed mainly outside confined space

All lubrication points are connected to a central lubrication system.

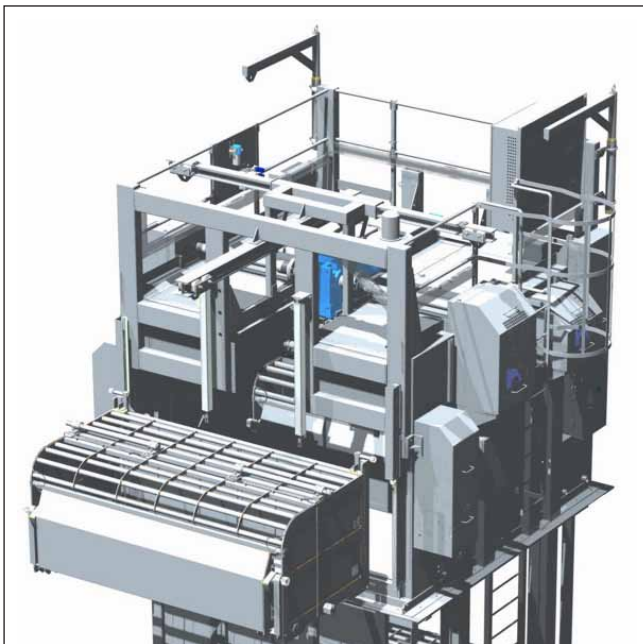
Gondola grease points are accessed by means of a service lid on top of the Backloader.



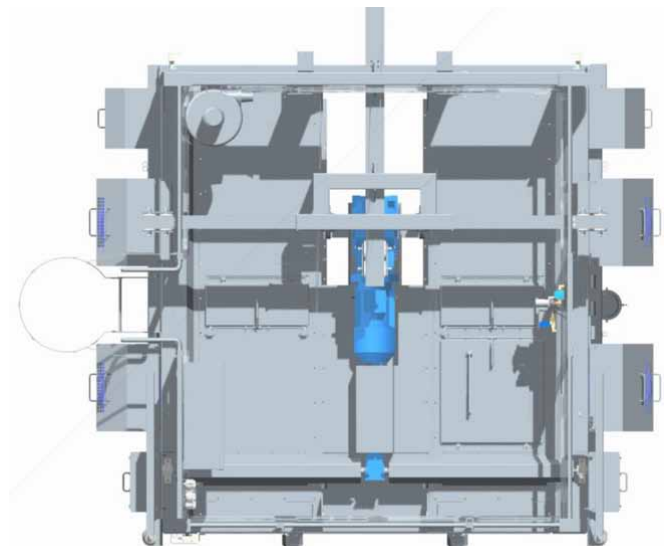
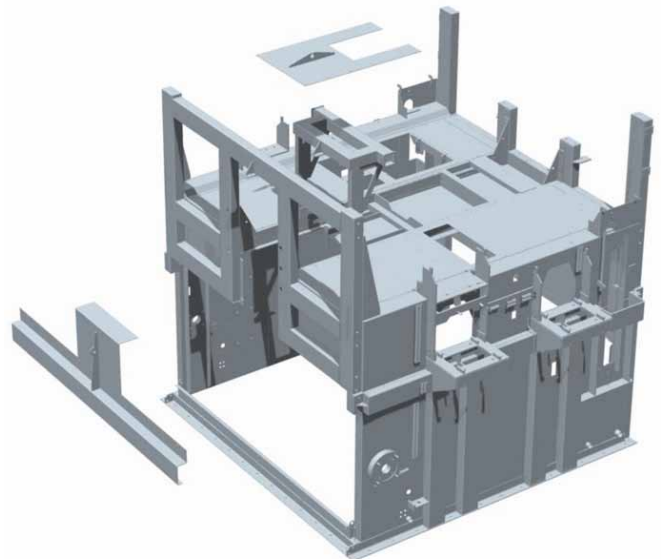
Serviceability improvements



The motor bracket and Backloader front are designed to allow the main motor to be dismantled completely from the outside and hoisted out complete with flanges.



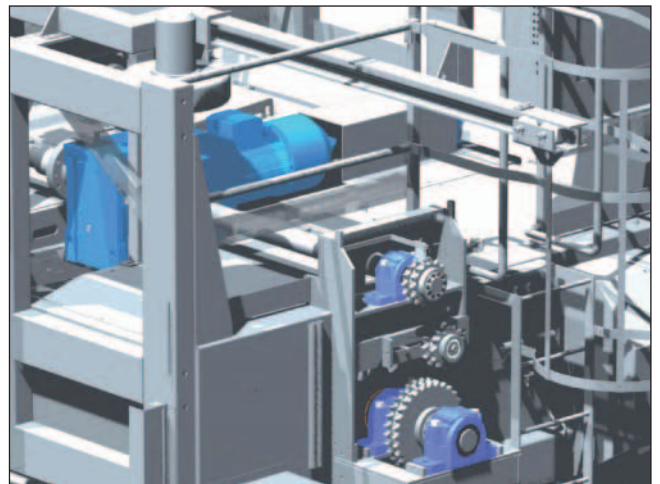
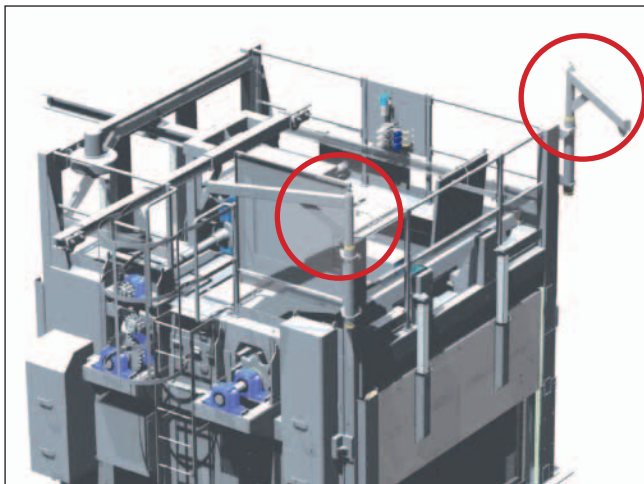
The gondolas and main motor are easily removed using a simple traverse. The traverse is also used to remove the tip-out hoist gate and front cover. Removing roller table and lower front section with tip-out plate is not necessary. By using electric tip-out, removing tip-out units is not necessary.





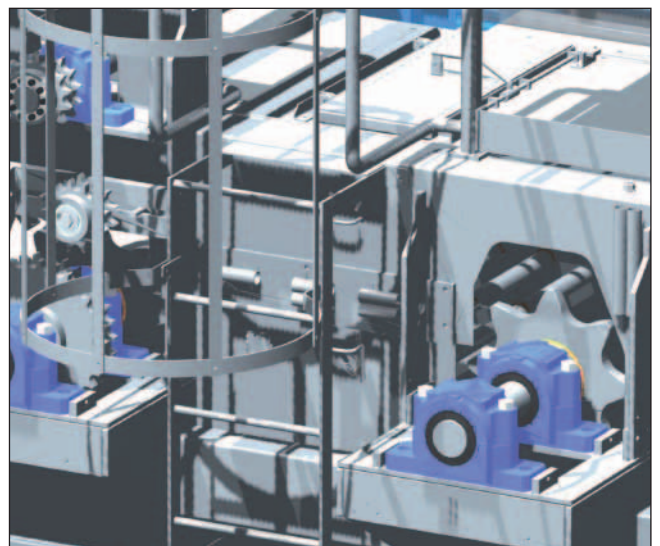
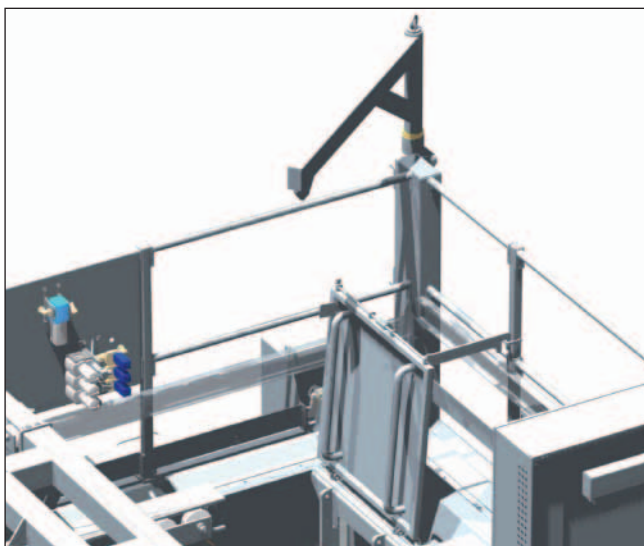
The Backloader is equipped with 360° rear corner hoist cranes. The cranes are used when servicing the rear drive units.

The Backloader is equipped with traverse, centered over the front drive units, allowing the drive units to be easily dismantled. The traverse is slidable, serving both sides of the machine, and is centered when not in use.



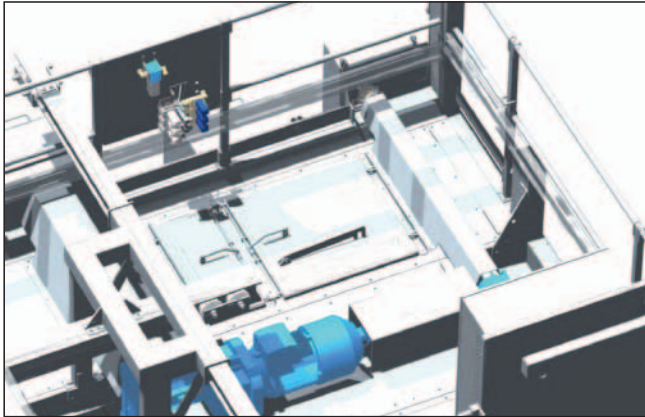
The cranes are also used when hoisting parts from inside the Backloader via the service lid and getting parts to/from the service area.

The top section has larger cutouts, allowing the drive units to be removed without dismantling the chain wheel.

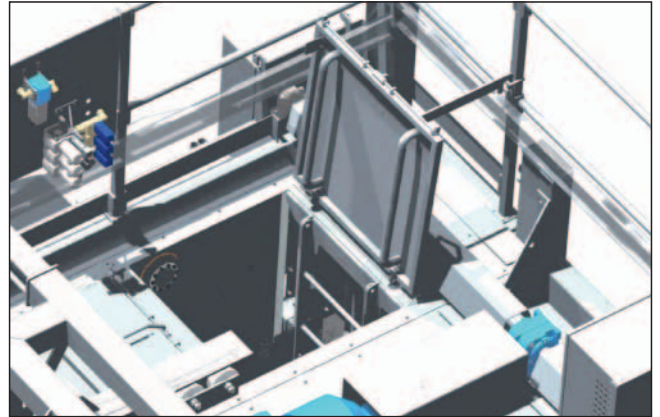


Serviceability improvements

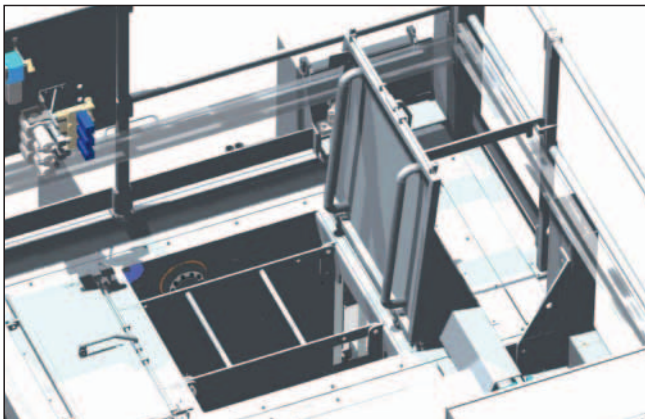
The interior of the Backloader is accessed by means of a service lid at the top of the machine.



The ladder can easily be folded into vertical position during service.



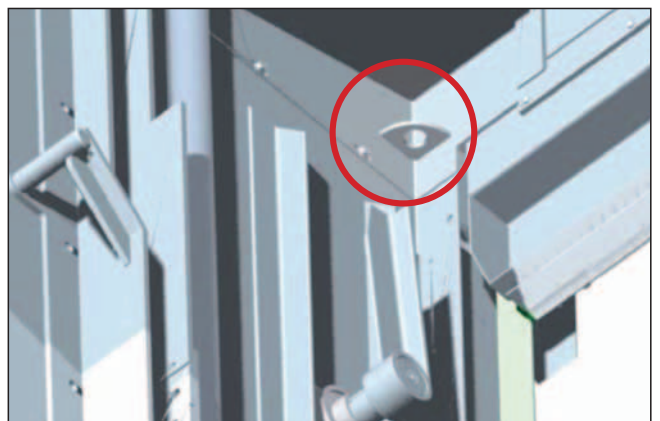
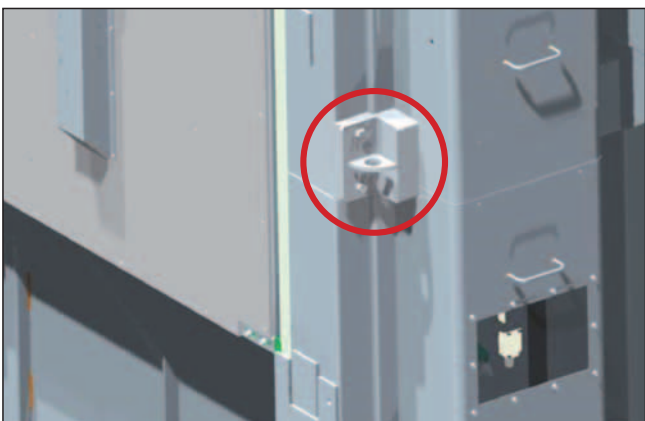
When in use, the lid is locked in an upright position and has integrated handles. The ladder is fixed to the Backloader roof when not in use.



The Backloader roof is equipped with eyebolts centred over the chain guides for easier chain service.

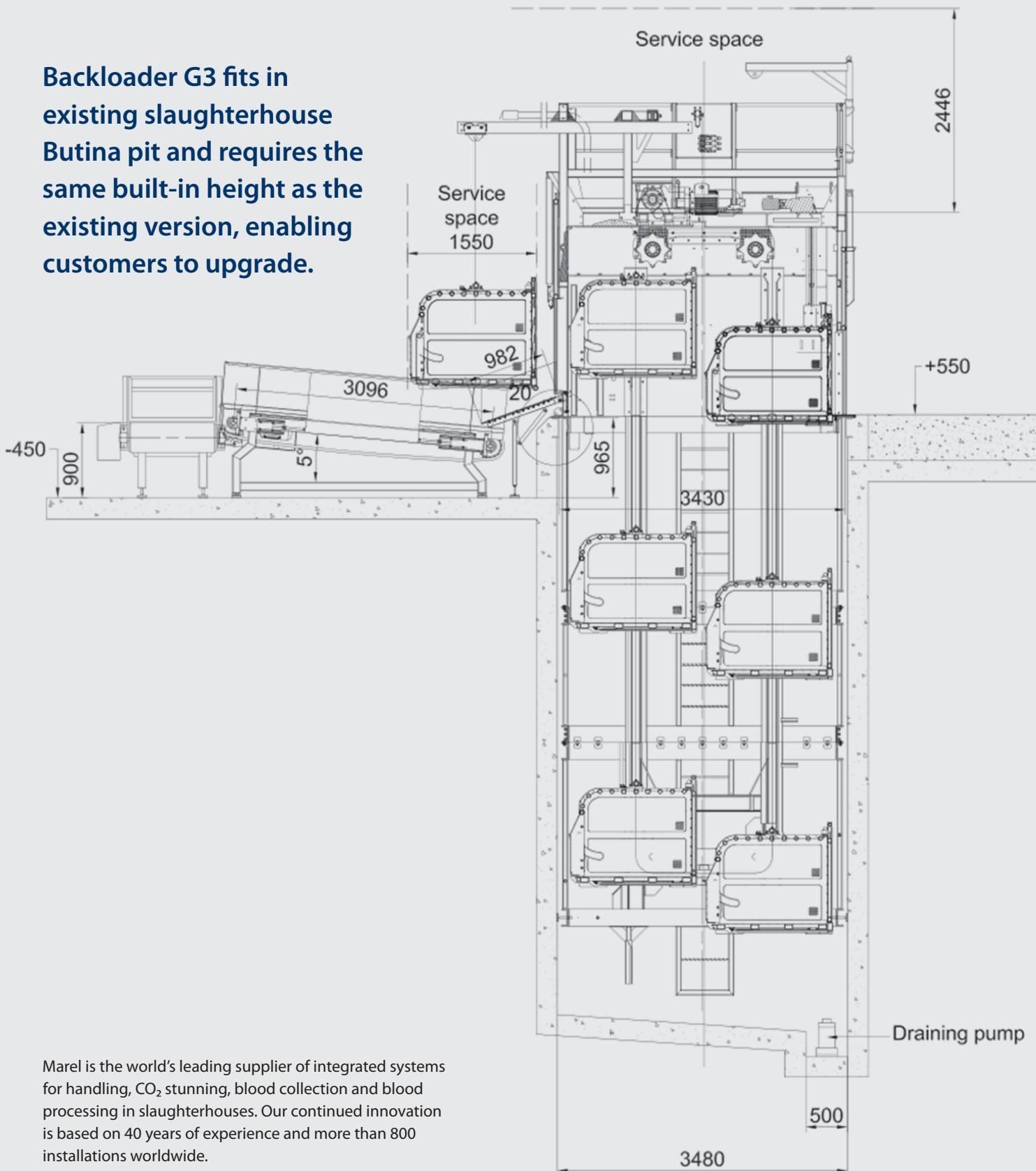


The top section is equipped with anchoring points for harnesses.



Larger gondolas provide increased capacity and better animal welfare

Backloader G3 fits in existing slaughterhouse Butina pit and requires the same built-in height as the existing version, enabling customers to upgrade.



Marel is the world's leading supplier of integrated systems for handling, CO₂ stunning, blood collection and blood processing in slaughterhouses. Our continued innovation is based on 40 years of experience and more than 800 installations worldwide.



New gondola sizes and capacities

EU factor	0,0042	kg/m ²
AMI factor	0,019	lbs/ft ²
EU weight / animal	110	kg
US weight / animal	300	lbs

Backloader 4	Area (m²)	Area (ft²)	Number of animals (EU)	Number of animals (US)	Capacity (EU)	Capacity (US)
Gondola RelaX	3,12	33,58	6	5	288	240
Gondola RelaX-XL	3,91	42,05	8	7	384	336
Gondola RelaX-XXL	4,81	51,79	10	9	480	432
Backloader 5)						
Gondola RelaX	3,12	33,58	6	5	432	360
Gondola RelaX-XL	3,91	42,05	8	7	576	504
Gondola RelaX-XXL	4,81	51,79	10	9	720	648
Backloader 6						
Gondola RelaX	3,12	33,58	6	5	576	480
Gondola RelaX-XL	3,91	42,05	8	7	768	672
Gondola RelaX-XXL	4,81	51,79	10	9	960	864
Backloader 7						
Gondola RelaX	3,12	33,58	6	5	720	600
Gondola RelaX-XL	3,91	42,05	8	7	960	840
Gondola RelaX-XXL	4,81	51,79	10	9	1200	1080



Marel is the leading global provider of advanced equipment and systems for the fish, meat and poultry industries.

In close partnership with our customers we in Marel Meat develop advanced systems and software for primary, secondary and further processing, to ensure maximum efficiency, sustainability and traceability.

We have an extensive global sales and service network that spans more than 30 countries; and our red meat processing experts are always within easy reach when you need support.