



The Tailer Grader

Introducing

An aerial photograph of a fishing boat, likely a langoustine boat, sailing on a dark blue ocean. The boat is moving away from the viewer, leaving a white wake. The boat has a white cabin and a brown hull. There are some colorful buoys or floats visible on the deck. The sky is not visible, as the focus is on the boat and the water.

The Worlds First
Commercially Available
Automated Langoustine
Processing System

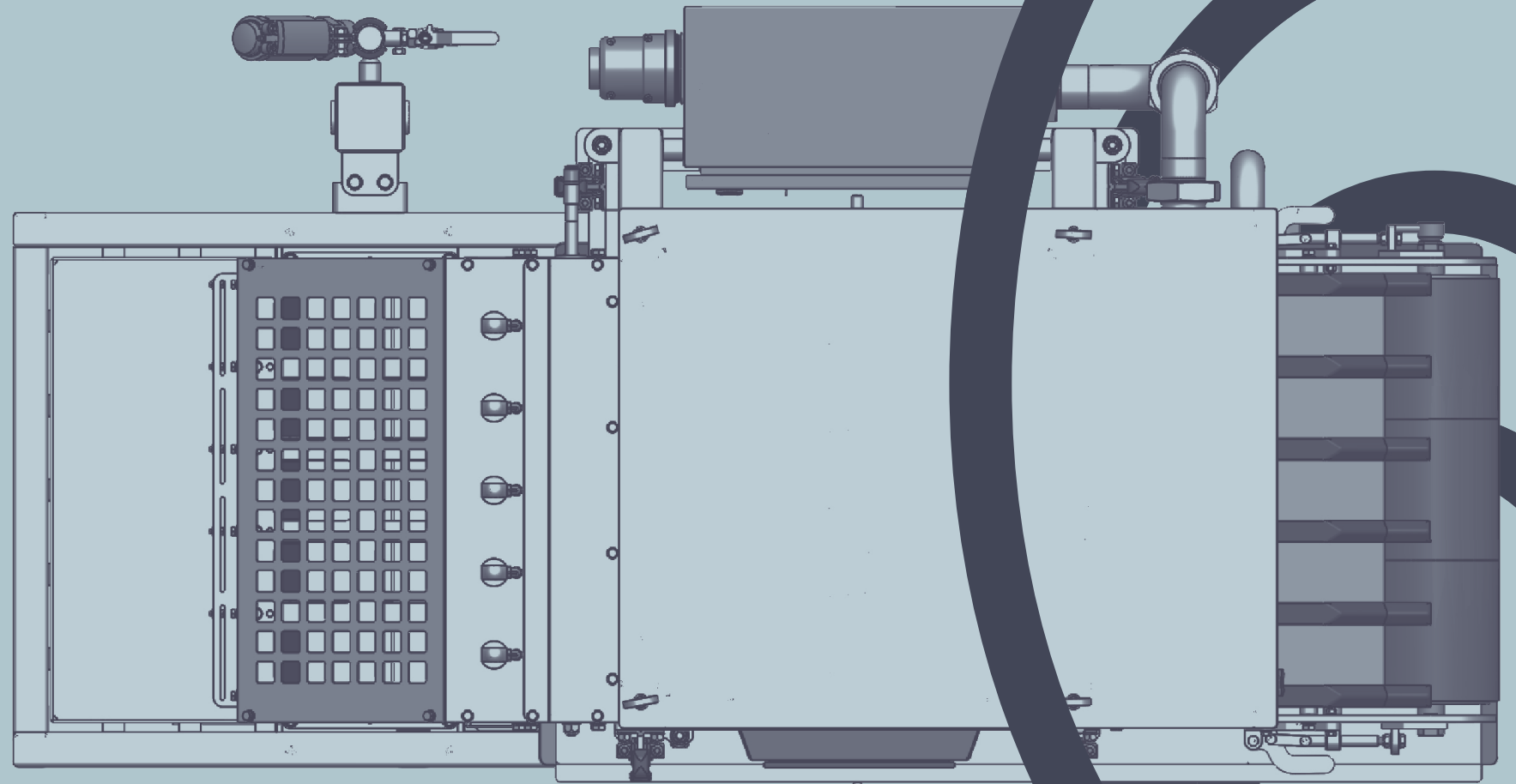
Automated Langoustine Processing

Polar Systems, a global leader in food processing technology, is **proud to announce the official launch of The Tailer Grader**, a ground-breaking automated langoustine processing system. Following successful sea trials in the North Sea, this industry-first technology is now available to the commercial fishing fleet, marking a new era of efficiency, welfare, and precision for the Nephrops sector.

As the primary lead on the project's engineering and development, Polar

Systems has successfully transitioned conceptual AI technology into a rugged, sea-ready solution. The Tailer Grader is designed to meet the harsh demands of the working deck while delivering the consistent quality required by high-end international markets.

Polar Systems has partnered with Tide 2030 to provide structured development and implementation pathways that allows vessels to adopt the technology at their pace in line with regulatory, welfare, and market requirements.



Maximize efficiency with The Trailer Grader



**Sea Trial Approved
and Available Now**



**Integrated Humane
Stunning Technology**



**Reducing the Physical
Burden on the Crew**



**Real-Time Analyse with
High-Speed Cameras**



**Advanced Automation
Meets AI Precision**



**Multiple Grading Options
& Complete Control**



**Unmatched Welfare
and Efficiency**



**Precise Separation with a
Clean, High-Yield Every Time**



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**the machine's ease of
use, robust construction,
and ability to deliver
clean, uniform tailing
results with minimal
crew input**

GEORGE WEST
Owner of Silver Wave



The background of the image is a close-up, slightly blurred photograph of a blue metal crate. The crate is filled with numerous cooked crayfish, which are a reddish-orange color. Some crayfish are whole, while others are broken apart, showing their internal structure. The lighting is somewhat dim, and the overall tone is slightly desaturated, giving it a professional, documentary-like feel. The text "Technical Details" is overlaid in the center-right of the image.

Technical Details

Specifications and Performance

Based on a 5 Lane Machine with 5 Grading Outputs Configuration

Shipping dimensions:

Max, H: 1.875m, W: 0.9m, L:1.18m

Operational Dimensions:

H: 1.875m, W: 0.9m, L: 1.72m

Weight: 680kg

Material(s):

316 Grade stainless steel & food grade plastics

Power Requirements:

16amp 3 phase+N

Compressed Air Requirements:

Approx 355L/pm (12.6 CFM) at 8 bar with 12mm push fitting infeed

Water Requirements:

1”BSP hose tail infeed, approx.10lt/min.

Lifting:

Integrated lifting eyes provided

Mounting:

Bolt down feet to deck plates (provided)

Instillation

Push together, plug and play assembly

Designed not to require rear access

Handing options and configuration available

Maintenance:

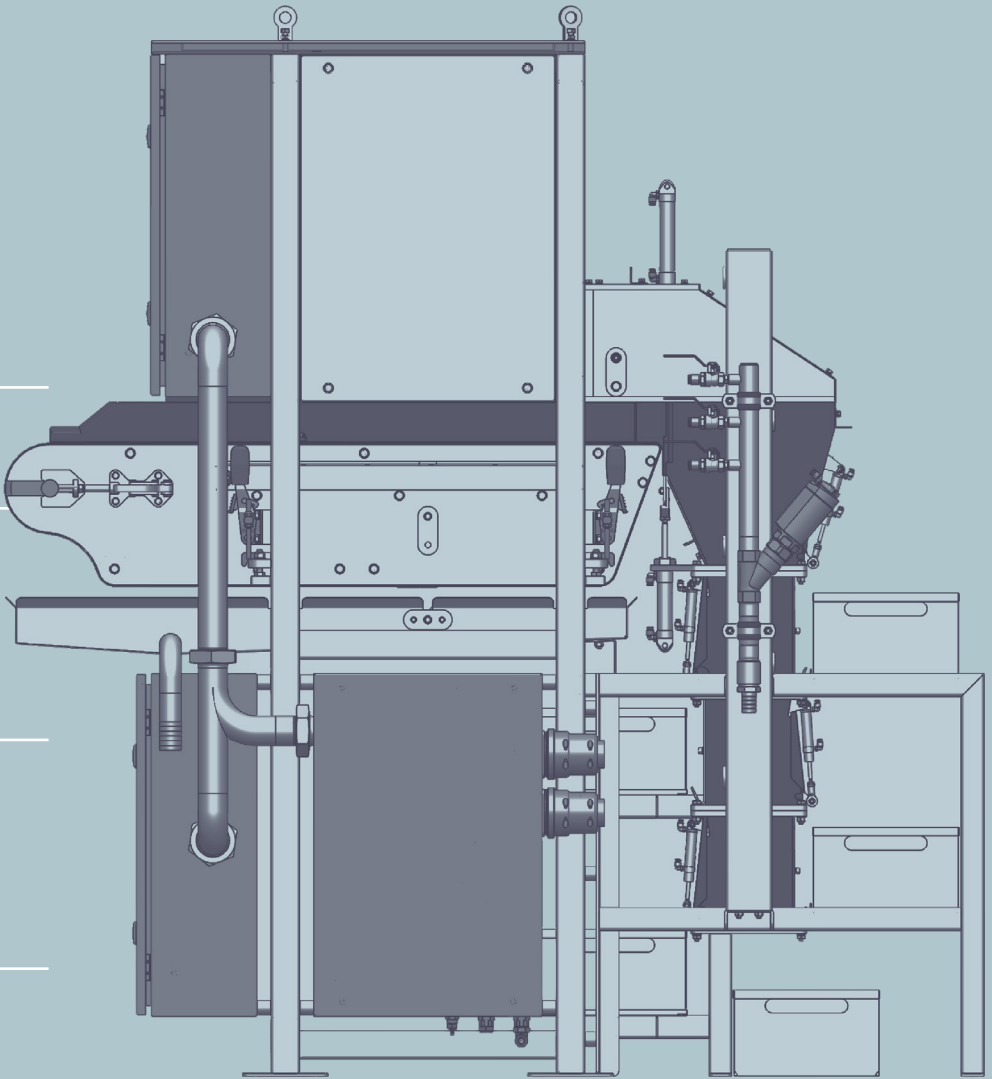
Quick release/quick change belt

Quick release/quick change drive roller

Internal and external belt wash and wipers

Consumables:

Cutting blades, belt, belt wipers



Machine Range

2 to 8 lane machines, as standard

2 to 5 grading options, as standard.
(1x heads, 1x tails, 3x whole-adaptable size grades set by user).

Larger systems by special order

Vision area

450mm x 70mm per lane
(larger systems on request)

Throughput

Approximately 18,000 pieces per hour, (3,600 per lane per hour), dependant on infeed rate

Identification

Tailed/whole grading is user definable

Grades of whole langoustines are user definable

Identification of damage including missing claw

Machine self-monitoring including line obstruction monitoring

HMI

Touch screen on machine or remote

Wheelhouse mimic panel / data screen option

Large visual beacon and sounder displaying machine status

polar-shellfish.com

