

## Press Release

New oyster dredger " Jacoba Prins ", YE-29

Builder: Maaskant Bruinisse B.V., Bruinisse, Netherlands

Owner: Prins Oesterkweek b.v., Yerseke, Netherlands

On the 30<sup>st</sup> of June 2005 Maaskant Bruinisse B.V. handed over the very innovating oyster dredger to Prins Oesterkweek b.v.

Prins Oesterkweek b.v. is part of the well-known Prins & Dingemanse from Yerseke.

The vessel with yardnumber 588 " Jacoba Prins " is registered as YE-29 at Yerseke.

She is provided with the new fishing system over the stern, developed by Maaskant Bruinisse ( patent pending). What' s also unique is that the vessel is completely diesel-electric. The propulsion consists of two electrically driven rudder propellers, self steering 360. degrees.

The oyster dredger has the following dimensions and capacities:

length o.a.	:	29.00 m
beam	:	8.00 m
depth	:	2.50 m
deadweight	:	175 tons
draught dep. harbour	:	0.93 m

The vessel has two holds, each with the floor above the waterline in unloaded condition. Both holds have two washing heads each, and four discharge sliding valves in the forward hold and two in the aft hold. This is very important so the oysters can be relayed on the oyster beds in a precise and gentle way without damaging them. When collecting oysters for consumption three containers are placed transversely into the forward hold. In this condition the aft hold is used as a storage hold for the big and the small oysters. To set the beacons on the oyster beds the vessel is equipped with a hydraulically operated pole through the fore ship to keep the vessel in a fixed position.

The " Jacoba Prins" is different from other oyster dredgers. No forward fishing mast with derricks. Instead, on the aft ship three tipping frames with dredges can be observed. The wheelhouse is off set to the starboard side and gives a good overview on the fishing process. The Maaskant developed fishing system on the aft deck comprises three steel tipping frames with integrated guiding sheaves and rollers. Fishing and tipping the dredges is one movement with single wire. No secondary systems are needed. The dredges are set and hauled / tipped by pressing a button in the wheelhouse. The whole action is automatic and can be controlled by just one person in total. The fishing cycle is much shorter compared to the traditional way of fishing with derricks. From the receiving bin in the aft ship

the oysters are washed to the central part where water and debris discharges directly overboard. The oysters are transported on an elevator belt to a sorting belt and a second elevator belt into a grading machine. The right-size oysters for consumption are transported on a gutter into one of the three containers. It is also possible to fish in bulk into the hold.

#### Propulsion:

Two electric motors, 160 kW each, are driving the two Verh Z-drive rudderpropellers and give the vessel a speed of 8,5 knots. Thrust and direction of thrust are controlled from the wheelhouse with two 1-handle systems.

#### Winches:

The " Jacoba Prins " features three single drum fishing winches, make Maaskant. An electrically driven anchor winch handles the 17.5mm anchor chain with 270 kg HPP.anchor.

#### Generating set:

All components, meaning propulsion, winches, washing pump, hydraulic power pack and the ships electrical system are all fed by means of the 575 kVA generating set with a Caterpillar C 18 diesel engine with box cooler. The generating set is placed in the forward engine room.

Further more in the forward engine room we can find the electrical switchboards and frequency drives, the washing pump, the deck wash pump and the stove.

#### Electrical installation:

Power systems	: 3x 400/230 V-50Hz
Lighting system	: 230V-50Hz
Emergency systems	: 24 V dc
Nargational	: 230 V-50 Hz and 24 V dc
Nautical	: 230 V-50 Hz and 24 V dc

Rudderpopellers, winches, washing pump have all electric motors with frequency drives.

#### Wheelhouse:

The wheelhouse is situated on starboard side and offers a good view in all directions. Alpatron Marine b.v. supplied the navigational/nautical and communication equipment as follows:

- one color river radar TFT, make JRC type JMA 609-7
- one turn indicator MC, make Alpatron type Alphaturn MC
- one automatic ( digital) pilot, make Alpatron type Alphapilot MC
- two VHF's, make SP radio (sailor) type RT 2048 BV
- one writing colorsounder, make JRC type FF50
- one electronic chartsystem, make Alpatron type Alphachart

- one NMEA-box, make Alpatron
- one PC make Alpatron/Shuttle
- one integrated TFT, make Alpatron type Tiyama
- one GPS compass, Make JRC type JLR-10

Photographs to be used with this press release can be found in the enclosure.

Photograph nr. 32397 and 32398