



## RAscal 2000 TUG

### Class notation

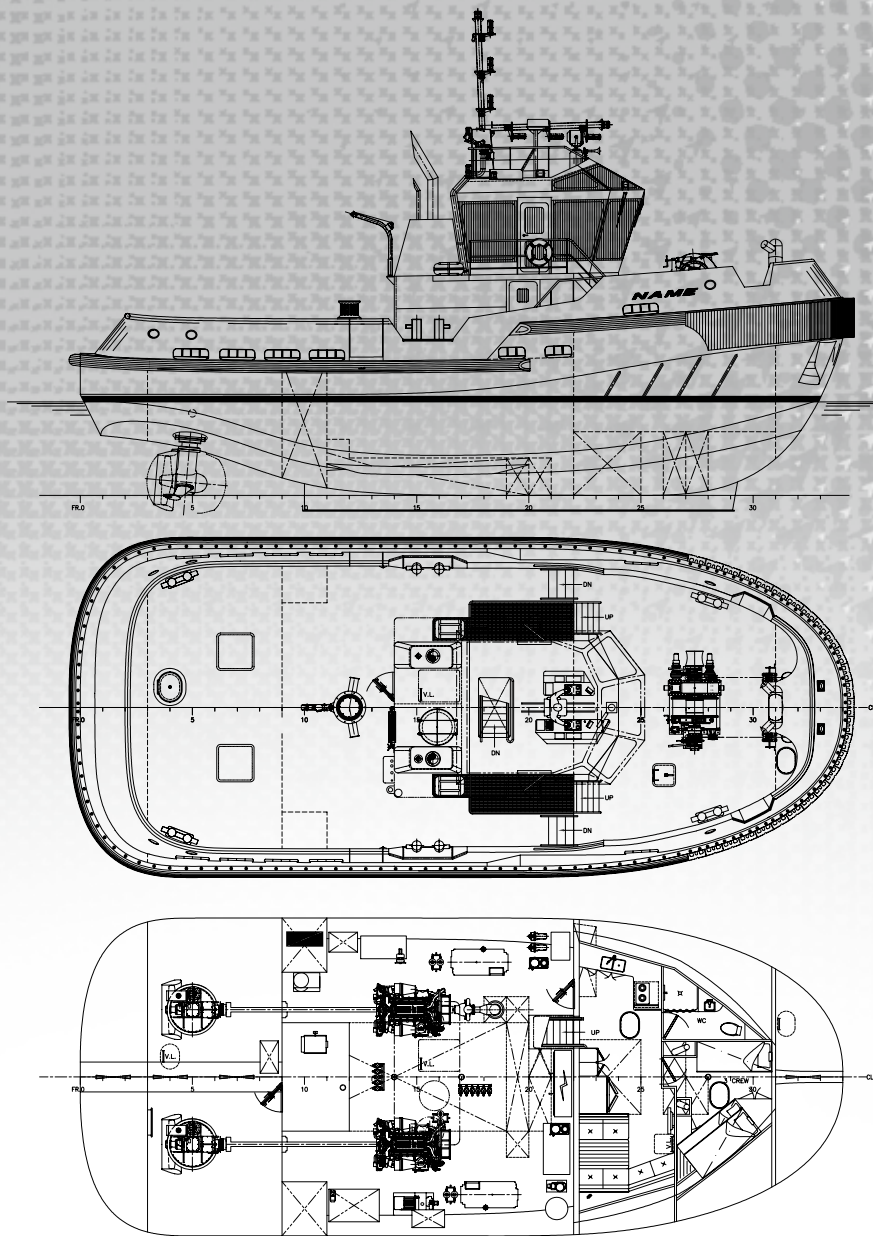
KM ⚙️ Ice2-Ice3 R2-RSN AUT3 FF3WS Tug by Russian Maritime Register of shipping.

### Assignment

- Towing and berthing operations in harbor and coastal areas.
- Refloating of vessels.
- Fire fighting operations at floating and shore objects.
- Oil and petroleum content products spill removal.
- Harbor service operations (carriage of cargoes, transportation of passengers, ice breaking and erosion, buoy operations).

### Distinguishing features

RAscal 2000 is azimuth driven tugboat having rather small dimensions what together with high maneuverability and stability allows to operate efficiency in harbors and roadsteads as well as within restricted sailing areas and shallow waters.



## Technical information

### Dimensions

- Length overall – 20.4 m.
- Width overall – 8.5 m.
- Draught max – 3.3 m.

**Speed** – 10.5 knots.

**Bollard pull** – 15 ÷ 20 t.

### Propulsion complex

- Main engines – 2 x (447 ÷ 634) kW Caterpillar C18, C32 or equivalent.
- Propulsion system – 2 off full revolving Z-drives Rolls-Royce.

### Generators

2 off diesel generators 86 kW, 380 V, 50 Hz each.

### Deck equipment

- 1 off bow anchor-towing-mooring electro-hydraulic winch.
- 1 off towing hook of GMH type.
- 1 off electro-hydraulic cargo crane.

### External firefighting system

Satisfies with FF3 WS class according to RMRS rules:

- 1 off main engine driven fire pump with the capacity of 425 m<sup>3</sup>/h.
- 2 off water-foam monitors with the capacity of 100 m<sup>3</sup>/h each.
- Water curtains system.

### Radio equipment

Radio equipment is provided in accordance with GMDSS requirements for A1 navigation area.

### Tanks capacities

- Fuel oil – 24.0 m<sup>3</sup>.
- Fresh water – 5.0 m<sup>3</sup>.

### Fendering system

- Bow fender consists of vertical plane rubber profile.
- Stern and side fenders consist of D-shaped rubber 300 mm profile.

**Crew** – 3 persons.