

**Technical Specifications of CND design 65+ Tbp Asd Escort Tugs:**


Principal Characteristics	
Designer	Cintranaval-Defcar / Spain
Design	CND - 07069
Lenght, overall	32.50 m
Beam, moulded	11.70 m
Depth	5.60 m
Design Draft	4.30 m
GT	< 500
Classification Society	Bureau Veritas
Class Notations	I + Hull, Escort Tug, *Salvage Tug, Unrestricted Navigation, Fire Fighting Ship 1 / Water Spraying, + Mach, Aut-Ums **Oil Rec. Ship (F.P.>60°C)(optional)
Services / Capabilities	Berthing and unberthing of vessels at harbour premises, Pull and push during vessels mooring manoeuvrings, Escort services, *Salvage services, Tandem Towing, Open sea and harbour Tug services from the stern, Fire Fighting Services, 3 x 20' container carrying (optional), **Oil Rec. services (optional).
Navigation /Communication	Unrestricted / Area A3
Complement	10
Accommodation	Fully air-conditioned  2 x Single crew cabin with individual wet unit (Master & Ch.Eng.) 1 x Double crew cabin with individual wet unit 1 x Double crew cabin 1 x Four crew cabin

Main Engine	2 x Caterpillar 3516C HD , 2100 kW, total 4200 kW, 1600 rpm
Propulsion	2 x Schottel SRP 1515 CP
Diesel Generators	2 x Caterpillar C9 150 kW, 1500 rpm
Deck Equipments	<p>C. KRAAIJEVELD B.V. make;</p> <ul style="list-style-type: none"> <li>- Single Split Drum Escort Towing Winch with drum capacity of 2 x 200 m x 54 mm dia UHMWPE synthetic rope. Brake holding force 200 tons.</li> <li>- Double Drum Aft Towing Winch with drum capacities of 800 m + 400 m x 52 mm dia steel wire. Brake holding force 150 tons.</li> </ul> <p>DATA HIDROLIK make ;</p> <ul style="list-style-type: none"> <li>- Towing Hook – SWL 70 tonnes,</li> <li>- Hydraulic Towing Pins,</li> <li>- Stern Roller – SWL 130 tonnes</li> <li>- Reel Winder with drum capacity of 400 m x 52 mm dia steel wire (optional).</li> </ul>
Miscellaneous	<ul style="list-style-type: none"> <li>- Cargo rails</li> <li>- Gas Detection System for hydrocarbon gases</li> <li>- Bunkering station on main deck</li> <li>- Box type bulwarks</li> <li>- Masive stainless steel; two panama eyes for fore winch (escort) + FiFi hose boxes outside + life buoys hooks outside + fender fixing pins + window wiper FW pipes outside + exhaust pipes</li> <li>- Electrically heated fore and aft wheelhouse windows</li> <li>- Wood sheated main deck aft</li> <li>- A/C system with 50% redundancy</li> <li>- Seperate A/C units for wheelhouse, accommodation area and main switchboard room</li> <li>- Shore power connection of 60 kVA, 400 V, 50 Hz</li> <li>- Resilent mounted Main Engines and DG sets</li> </ul>
Speed	min. 12.5 Knots
Bollard Pull Ahead	65+ tonnes

\*If portable salvage equipments necessary as per Classification rules to be supplied by Buyers.

\*\*Optional, beside of fixed equipment and systems onboard if portable oil rec. equipments necessary to be supplied by Buyers.