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**J. Johannsen & Sohn**  
**Seeschlepp und –transport GmbH**

# "AXEL"

**ASD-Tug with 42 t Bollard Pull**

**Harbour Assistance – Salvage – Offshore Activities**

**Delivery 1990 at Hitzler Shipyard, Lauenburg, Germany**

**Classifikation** Germanischer Lloyd  
 ✘ 100A5 E1 TUG  
 ✘ MC E1 AUT

**Call Sign** D M G Z

**IMO Number** 8918590

**Main Characteristics :**

Tug with two fixed pitch Azimuth thrusters  
 Equipped for Coastal Voyages  
 Suitable to operate with min. 3 men in port or max. 5 men offshore



**Main Dimensions**

Length o. a.	29,35	m
Length WL	27,75	m
Breadth moulded	9,55	m
Breadth o. a.	10,05	m
Depth	5,00	m
Draught max.	4,20	m
Gross Tonnage	305	GT
Bollard Pull	41,90	t
Speed (100% MCR)	12,2	kn
Cruising Range (11,0 kn) abt.	3.750	nm

Accommodation:  
 5 cabins (3 x single +2 x double),  
 1 lavatory + 2 separate WC rooms  
 1 mess,  
 1 galley with provision storage  
 1 storeroom with washing machine and dryer

**Machinery, ship's Equipment**

2 main engines, Deutz MWM, 2 x 1.290 kW / 1.000 rpm running on gas oil  
 2 Schöttel azimuth thrusters, SRP 1212 (Fixed Pitch)  
 2 gensets abt. 2 x 49,5 kW, running on gasoil  
 Electr. system 400 V / 230 V - 50 Hz, 24 V DC  
 1 oil fired boiler for heating, abt. 80 kW  
 2 starting air compressors, 16 m³/h, 30 bar  
 1 MOB with davit  
 2 life rafts

**Navigation and Kommunikation Equipment**

1 radar, 1 river radar,  
 1 gyro compass, 1 auto pilot,  
 GMDSS A1+A2, AIS, 2 x GPS, ECDIS,  
 1 DGPS, 1 echo sounder, Navtex, etc.

**Towing Equipment**

Forecaslte:  
 1 electr. anchor / towing winch, 80 m wire,  
 breakload lines: 1860 kN

Working Deck:  
 1 double towing winch,  
 2 x 700 m wire, Ø 38 mm  
 breakload: 800 kN  
 nom. Pull: 150 kN  
 1 towing bollard  
 1 hydr. towing hook, 40 t  
 with quick release  
 4 Double bollards