



Rodson Universal

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Ref ga1195

Selfpropelled Floating Concrete Factory

| | |
|---------------------|-----------|
| Year: | 1977 |
| Length O.A: | 81.35 m |
| Length B.P: | 75.20 m |
| Breadth Moulded: | 13.50 m |
| Depth Moulded: | 6.50 m |
| Lightship: | 1072.96 t |
| Gross Tonnage: | 1788 |
| Net Tonnage: | 1045 |
| Speed Full Ahead: | 10'0 |
| Date Build-Yard No: | 1977-1599 |

ENGINE PARTICULARS

| | |
|-----------------------------|---------------------------------|
| Number of Engines: | 1 |
| Type of Engine: | DIESEL SA Q320/12RSN |
| Engine Output: | 1471 Kw |
| Number of Cylinders: | 12 |
| Diameter: | 320 |
| Length of Strokes: | 420 |
| Engine Makers: | ANSALDO SPA, GENOVA, ITALY |
| Unattended Machinery Space: | NO |
| Type of Propeller: | FIXED, MULTIPROP, RIGHT TURNING |

| | |
|------------------------------|------------|
| Number of Auxiliary engines: | 2 |
| Maker of Auxiliaries: | MWM DIESEL |
| Type of Auxiliary: | D 232 V8 |
| Number of Cylinders: | 8 |
| Engine Output: | 80 kW |

| | |
|--------------------------------|------------|
| Number of Emergency Auxiliary: | 1 |
| Maker of Emergency Auxiliary: | MWM DIESEL |
| Type of Auxiliary: | 226/4 |
| Number of Cylinders: | 4 |
| Engine Output: | 60 kW |

| | |
|----------------|-----------------------|
| Steering Gear: | ALLWEILER |
| Type: | SNE 80, NORMAL RUDDER |

BRIDGE EQUIPMENT

| | |
|---------------|-------------------|
| Call Sign: | D6CQ9 |
| MMSI: | 61632800 |
| VHF: | 2, SAILOR RT5022 |
| DSC VHF: | 2, SAILOR RT5022 |
| Handheld VHF: | 3 |
| NAVTEX: | 1, FURUNO NX70 |
| EPIRB: | 2 |
| SART: | 2 |
| TX/RX MF/HF: | 1, SAILOR HC4500B |
| DSC MF/HF: | 1, SAILOR HC4500B |
| Inmarsat C: | 2, SAILOR TT3606E |
| GPS: | 1, FURUNO GP150 |
| AIS: | 1, FURUNO FA150 |
| Radar: | 1, KODEN |
| Doppler Log: | 1, DS80 |
| Echosounder: | 1, FE700 |
| Gyro Compass: | 1, SPERRY |



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Magnetic Compass: 1

ANCHORS

Anchor PS: 6 shackles
Anchor SB: 6 shackles

Mixer BHS Sonthoffen.

Twin – schaft – trough mixer

Type: DXK NR B – 1251

Rated Capacity: 2 m3

Connected load: 65 KW 400V 50 HZ

Cement weighing system max: 1000 kg

Fresh water weighing system max: 500 Kg re-use of slurry water too weighing system.

Admixture weighing system max.: 30 Kg

Aggregate compartment hopper: 4 components, 2 sand, 2 gravel

Weighing ability skip max. 5000 Kg

In compartment batcher version (TZ) the feeder skip is weighing container at the same time.

The plant is equipped with a fully automatic control system.

The electric control system is mounted either in a control container near to the plant. The weight indicators of the weighers and the admixture measuring unit are located in the cabin.

Control container 6m long 2,5m wid.

Pc Siemens type Scenic W600

Serial no: YBES20018

ID no: 576522 nr 704

Windows Professional 1-2 CPU

Hp LaserJet 1300 ticket or delivery printer. Screen 17 inch, QWERTY clavier.

Protocol matrix printer tally T2340.

UPS PW 5115.

Cement silo filling control system

Concrete recycling control system

MC150 Control system for batching.

MC150 is a simple user-friendly control system. Operation is done either via function keys or via a mouse.

The user is quickly led to the required menu point by symbols and clearly marked buttons.

Also inside in control container.

Operation and Maintenance Manual for **Stetter Concrete Mixing Plant**

Operation and Maintenance Manual for **Concrete Pump and placing boom.**

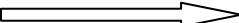
Operation and Maintenance Manual for **Hydraulic Crane Liebherr R944B**

4 horizontal cement silos's, with 4 inclined conveyor screws and 8 horizontal conveyor screws.

Inclined conveyor screws.

1. Name: WAM Type: TPE 1P030000433
SERIAL NO: SCON 15582
2. Name: WAM Type: TPE 1P030002223
SERIAL NO: SCON 15580
3. Name: WAM Type: TPE 1P030002223
SERIAL NO: SCON 15581
4. Name: WAM Type: TPE 1P030002222
SERIAL NO: SCON 15579

Horizontal conveyor screws.


1. Name: WAM Type: CAV1E030126145 SERIAL NO: SCAN 15575
MOTOR TYPE: MT1320M04145 BATH NO: 4060587
Connected load: 7, 5 Kw 400V 50Hz Hp10
Gear Box: Type: S2730 132K27 BATH NO: S321
Roting Direction: 
2. Name: WAM Type: CAV1E030126145 SERIAL NO: SCAN 15575
MOTOR TYPE: MT1320M04145 BATH NO: 4060556

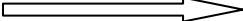



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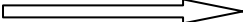
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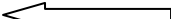
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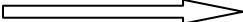
Connected load: 7,5 Kw 400V 50Hz Hp10
Gear Box: Type: S2730 132K27 BATH NO: S321
Roting Direction: 


3. Name: WAM Type: CAV1E030126145 SERIAL NO: SCAN 15578
MOTOR TYPE: MT1320M04145 BATH NO: 4041724
Connected load: 7,5 Kw 400V 50Hz Hp10
Gear Box: Type: S2730 132K27 BATH NO: S321
Roting Direction: 

4. Name: WAM Type: CAV1E030126145 SERIAL NO: SCAN 15578
MOTOR TYPE: MT1320M04145 BATH NO: 4041725
Connected load: 7,5 Kw 400V 50Hz Hp10
Gear Box: Type: S2730 132K27 BATH NO: S321
Roting Direction: 

5. Name: WAM Type: CAV1E030126145 SERIAL NO: SCAN 15576
MOTOR TYPE: MT1320M04145 BATH NO: 4060588
Connected load: 7,5 Kw 400V 50Hz Hp10
Gear Box: Type: S2730 132K27 BATH NO: S321
Roting Direction: 

6. Name: WAM Type: CAV1E030126145 SERIAL NO: SCAN 15576
MOTOR TYPE: MT1320M04145 BATH NO: 4041729
Connected load: 7,5 Kw 400V 50Hz Hp10
Gear Box: Type: S2730 132K27 BATH NO: S321
Roting Direction: 

7. Name: WAM Type: CAV1E030126145 SERIAL NO: SCAN 15577
MOTOR TYPE: MT1320M04145 BATH NO: 4041726
Connected load: 7,5 Kw 400V 50Hz Hp10
Gear Box: Type: S2730 132K27 BATH NO: S321
Roting Direction: 

8. Name: WAM Type: CAV1E030126145 SERIAL NO: SCAN 15577
MOTOR TYPE: MT1320M04145 BATH NO: 4041721
Connected load: 7,5 Kw 400V 50Hz Hp10
Gear Box: Type: S2730 132K27 BATH NO: S321
Roting Direction: 

Hydraulic Plant. SCHWING

Type no: 37109.80.1.04
Serial no: 208145
Connected load: 200Kw 400V 50Hz

Concrete Pump. SCHWING.

Type KSP KDR
Serial no: 106823
Max concrete pressure (bar)* 109**
Max output (m3/h)* 108**
Pumping cylinder diam. (mm) 200
Pumping cylinder stroke (mm) 2000
**max. Pressure and max. Output cannot be obtained simultaneously.

Separate placing boom.

Type: KVM 30 SEP
Serial no: 6806205
Connected load: 15 Kw 400V 50Hz
Pipes diam. (mm) 125
Hydraulic max 300 bar



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Hydrofor group. (Cleaning)

Name: MAXIVAREM US
Type: us 101361
Serial no: L11701941
Volume: 100Lit.
Max. Pressure PS: 10, 0 bar
Test Pressure PT: 15, 0 bar
Recharged pressure: 2,0bar

Concrete- Recycling Unit

Washed out gravel can be reused
Remaining mud water can be reused for concrete production
Mud water pumps

1. Name: FLYGT Serial no: 3127-180-9950740
Connected load 5,9Kw 400V 50Hz 12A
Type: 111CLF 1450 Rpm
2. Name: FLYGT Serial no: 3085-182-9950793
Connected load 2,4Kw 400V 50Hz 4,7A
Type: 111CLF 2840 Rpm

Container for concrete admixtures.

4 tanks, every tank contains 2000 litre.
3 Gear pumps II (würschum)

1. Name: WÜRSCHUM
Type: ZD 12 VB4
Serial no: 99.07-83475
2. Name: WÜRSCHUM
Type: ZD 24 VB4
Serial no: 99.07-83476
3. Name: WÜRSCHUM
Type: ZD 24 VB4
Serial no: 99.07-83474

Concrete-lab container.

Name: tecnotest Italy
Type: KP300
Serial no: 2045

Air unit Piston compressor

Name: BLITZ
Type: GZH760
Motor: 5,5Kw
Speed: 930 t/min
Serial no: 9140
Overpressure: 15 bar
Suction capacity: 750 L/min
Stages: 2

Generator (1) for concrete pump and Hydraulic plant and placing boom.

Generator
Type: LSA 46.1 VL12 06/4
Serial no: HC 1066227/01
Voltage: 400V
Continues duty rating: 300KVA 240Kw 433A
Power unit VOLVO PENTA
Type: TWD 1210G
Special no: 868372 serial no: 2120259037
Rated net power without fan: 268Kw 385 HP
Speed ad rated power: Rpm 1500
Cylinder: 6



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Generator (2) for Concrete mixing plant.

Generator

Type:

LSA 46.1 VL12 06/4

Serial no:

HC 106619/01

Voltage:

400V

Continues duty rating:

300KVA 240Kw 433A

Power unit :

VOLVO PENTA

Type:

TWD 1210G

Special no:

868372 serial no: 2120259038

Rated net power without fan:

268Kw 385 HP

Speed ad rated power:

Rpm 1500

Cylinder:

6

Cargo holds for loading sand and gravel.

Capacity sand:

± 800 Ton

Capacity gravel:

± 1100 Ton

Hydraulic Crane Liebherr

Type:

R944B Litonic

Special no:

WLHZCZC013811

Engine output:

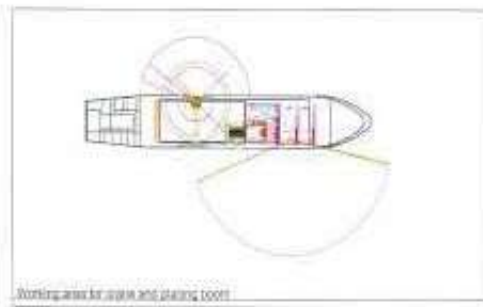
180Kw 285 HP

Bucket capacity:

± 2,6 m3

Vessel technical advantages

- Adjustable concrete pump speed 0 - 100 m³/hr.
- Capability to pump the concrete mixture over long distances from 30 meter (standard capacity of placing boom) to 1000 meters.



PRICIPLE DIMENSIONS

| | |
|-------------|-----------|
| L.O.A | : 81.35 m |
| Beam O.A | : 13.50 m |
| Draft (max) | : 6.53 m |

CARGO CAPACITIES

| | |
|----------------|--|
| Deadweight | : 3241 tonnes |
| Potable water | : 104 m ³ |
| Diesel Fuel | : 2 x 120 m ³ + 2 x 30 m ³ |
| Balast Water | : 158.3 ton |
| Cement | : 500 ton |
| Fresh water | : 240 m ³ |
| Aggregate/sand | : 2000 ton |
| Additives | : 28 ton |

CONCRETE PLANT

| | |
|----------------|----------------------------|
| Type | : Swing M2 |
| Capacity | : 80 m ³ /h |
| Mixer | : 2 m ³ /charge |
| Concrete pumps | : 1 x 100 m ³ |
| Pump distance | : max 1000 m |
| Placing boom | : 30 meters |

MACHINERY / PROPULSION

| | |
|-----------------|--------------|
| Main Engines | : 3000 hp |
| Bow Thrusters | : non |
| Stern Thrusters | : non |
| Generators | : 2 x 100KVA |

SPEED / CONSUMPTION

| | |
|--------------------|-----------------------|
| Transit 10.5 knots | : 3000 t per 24 hours |
| Max speed | : 10.5 knots |

DECK MACHINERY

| | |
|------------|-------------------------------|
| Crane | : Liebherr P944 |
| Clamshell | : 1.8 m ³ |
| Capacity | : 180 m ³ per hour |
| Generators | : 1 x 325 KVA 1 x 450 KVA |

ACCOMODATION

| | |
|-----------------|------|
| Cabins | : 11 |
| Recreation Room | : 1 |
| Kitchen | : 1 |

The MV Beton Leader a sailing concrete factory

Betontechnik n.v. a Belgium company have operational from the first of april 2007 a new concept in offshore concreting.

The MV Beton Leader is an existing cargo/container vessel currently converted into a sailing concrete plant. This unique concept makes the vessel an ideal tool to support companies projects and further the civil construction and offshore market.

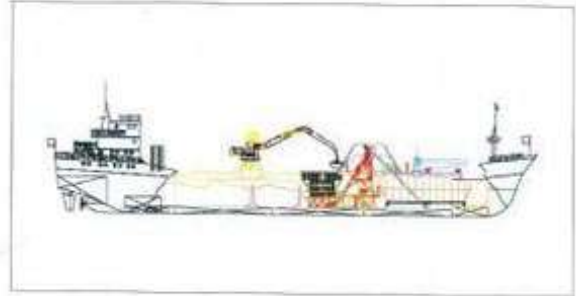


The schip under construction in the port of Antwerp

The vessel is fully self supported with a maximum plant capacity of 1.200m³. The vessel is able to maintain on location and continue 24 hours operations, with personnel working in 12 hour shifts.



Concrete plant.



The vessel is outfitted with a crane to transfer loads. Depending on the prevailing sea condition, cargo vessels can be moored alongside and raw materials can be transferred.



Liebherr P944

Vessel commercial advantages

- The total amount of storage capacity minimises potential delays during concrete/grout injection operations.
- Commercially attractive mob & demob cost compared with competitive possibilities.
- Transfer of raw materials on location.
- System can be operated with a minimum team of 2 x 5 members (Crane driver, concrete plant operator, pump & placing boom operator, service man, Cook).



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