

**C97M Multi Purpose Dredger**

The Conver C97 Multipro is a versatile Multi Purpose Dredger that has been developed to provide the user with a versatile tool that combines productivity and efficiency with portability and the ability to operate and move in water and on land.

The dredger consists of a welded steel monohull, divided in several water tight compartments equipped with an excavator arm with CW-type quick coupling system, 4 stabilizers and a proven hydraulic auger propulsion system.

The dredgers' systems are laid out for tropical conditions with high ambient temperatures and humidity.

For operation on open water use of side pontoons is recommended. RPH quick coupling brackets are provided for easy assembly of pontoons on site.

**Engine**

An industrial TIER 3B type 4-stroke 6 cylinder 168 kW (@2.200rpm) Perkins 1106D-E66TA or equivalent turbo charged after cooled diesel engine is fitted.

The engine is provided with a heavy duty radiator cooling system for reliable operation in tropical circumstances.

The engine bay is conveniently laid out, with all service elements concentrated on one side of the engine.

The electrical system is 24V dc and is powered by an engine driven alternator. The two maintenance free batteries are connected to the various circuits via a switch-over master switch.

**Fuel system**

The dredger features two 500 ltr fuel tanks. Both tanks are provided with inspection covers a float type fuel gauges. Feeding and return lines are taken from the top of the tanks and are of a fireproof quality.

For refuelling on site an electric fuel pump is provided. The system is fitted with a separate fuel filter to clean the fuel during refuelling.

**Hydraulic system**



All functions of the dredger are hydraulically operated. For this reason the diesel engine drives a triple set of hydraulic pumps. Twin high pressure Load Sensing pumps provide oil to the excavator arm rams, the propulsion system and the two PTO functions (max. 150 l/min @ 300 bar each). A single gearwheel pump supplies various smaller functions with the required oil. Oil flow control is arranged by servo controlled proportional PVG valve blocks with pressure compensation.

Excavator arm is controlled via two armrest integrated joysticks.

The system is laid out for tropical conditions and therefore provided with suitable oil cooler. A filtration system of 125 micron suction filters and 10 micron pressure/return filters is provided. The tank is fitted with an oil level and temperature warning.



## Excavator arm

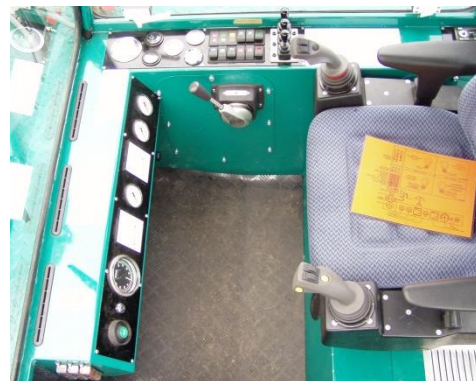
- Horizontal reach of bucket
- Lifting capacity at maximum reach
- Swinging angle
- Bucket force

(std. with CW-type QR-coupling)

7,5m  
1.200 kg  
min. 190°  
90 kN

## Stabilizers

The dredger is executed with 4 hydraulically operated stabilizers: two at the front and two at the rear. On the front detachable floats are provided, on the rear the tilting spuds can reach up to 5,0m under water level.



### **Cabin**

The dredger is provided with a spacious operator cabin. All controls are conveniently laid out around the multi adjustable operators' seat. The cabin is supplied with proper heating/ventilation/defogging. The cabin has an access door on the left hand side, an emergency exit on right hand side, a roof hatch and a top hung front window. AC is optionally available.

The front of the cabin has a windscreen wiper and 2 working lights. Another two working lights are provided on the back of the cabin. The cabin has tinted windows.

For operator comfort a stereo radio/cd or cassette player and a cool box are provided.

The cabin can be lowered for transport purposes.

### **Hull**

The hull is constructed from high tensile steel profiled panels with suitable reinforcements where mechanical load are applied onto the structure. The hull is divided into four watertight compartments (8 incl. side pontoons); bow compartment, cabin section, storage section and engine compartment.

Both inside and outside of hull and pontoons are preserved by a marine spec paint system. On the outside the bottom panel is provided with reinforced sliding profiles. The deck area receives an anti-slip treatment and has removable handrails. RPH quick coupling system simplifies assembly of the optional side pontoons.

### **Lighting arrangements**

The cabin is provided with 4 working lights (2 front, 2 rear) on the outside and interior lights. The engine and storage compartments are provided with sufficient lighting as well.

Navigation lights are optionally available.

### **Preservation**

Conver machines are built with care and craftsmanship and a lot of attention is spent on the finish and on preservation of the machines. The dredger is supplied with a ISO-spec marine paint system.

note. All accessible deck areas get a non-slip treatment. All hand railings and all bracketry are galvanised steel and unpainted.

### **Optional accessories**

- Mast with signalling lights for navigation and dredging.
- Side pontoons (set).
- Bilge alarms in each compartment.
- A/C in cabin.
- Selection of attachments.

### **Manuals**

The dredger will be supplied with two sets of O&M manuals in hardcopy and one CD-ROM.

### **Dimensions**

- Main hull width	3,5m
- Height above water level	2,5m
- Reach of bucket below water level	4,5m
- Reach of bucket below water level	4,5m
- Reach of bucket above water level	4,5m
- Depth of spud below water level	5,0m

### **Transport specifications**

- Length of dredger without boom	12,0m
- Length of dredger with boom	16,5m
- Transport width	3,5m
- Maximum height of dredger	3,0m
- Draft (with pontoons)	0,6m
- Dry weight (base unit)	18 tons
- Side pontoon dimensions (each)	5,0 x 1,0m
- Weight (each)	1,0 ton

### **NOTES:**

The vessel is built according to CE regulations. Stability calculations are available.

Conver reserves the right to alter the design and specification at any time without notice or obligation.

**Attachments (CW-type quick coupler)**

**CG100/400** Back hoe bucket, 400 ltr



**CB180/600** Dredging bucket, 600 ltr



**CR75/600** Clamshell 1.0m, 600 ltr incl. mechanical rotator



**CRR275** Ripper rake, 2,75m wide





**MRLT300B** Hydraulic mowing bucket, 3,0m wide



**DP200-8"hc** with hydraulic cutter head, 600mm cutter



## PRICES

**Conver C97M – Multi Purpose Dredger**, as described below,  
excluding options and attachments

**Options:**

Bilge alarms in each compartment  
Mast with navigation lights  
A/C in cabin  
Side pontoons (set)

**Attachments:** *all executed with CW-type QR-connector*

CG100/400 Back hoe bucket, 400 ltr  
CB180/600 Dredging bucket, 600 ltr  
CR75/600 Clamshell 1.0m, 600 ltr incl. mechanical rotator  
CRR275 Ripper rake, 2,75m wide  
MRLT300B Hydraulic mowing bucket, 3,0m wide  
DP200-8"hc with hydraulic cutter head, 600mm cutter and rainbow nozzle

**Dredging accessories:**

20 nos. Flexible discharge hose, i.d. Ø200 x L 2.000mm with integrated vulcanised flanges  
O.D. Ø340mm and 8x 23mm holes on P.D. Ø295mm WP 10 Bar, BP 30 Bar, wearing layer  
10mm.  
20 nos. HDPE pipe PE100 PN8 SDR 21 Wall thk. 10,8mm  
o.d. Ø225 x i.d. Ø203,4 x L 11.800mm  
c/w Welded collars and swivel flanges drilled to o.d. Ø340mm on PCD Ø295 with 8 holes  
each 23mm, one side with O-ring groove  
30 nos. Ring Floats Conver type 60/22  
Dimension assembled float Ø600 x Ø220 x L 700mm  
Wall tk. 7mm, colour yellow  
Incl. Hot dip galvanised bolts, nuts and washers M20x120mm  
30 nos. Blocking system for Ring floats  
c/w Spiral hose Ø51mm and SS ratchet with 1.200 kgs resistant polyester, each long 2,0m

**On site installation and instruction** by our field service engineer, per day  
excl. travel expenses , boarding, lodging, local transport.

## MC105-6 Baseline



Medium size main hull and separate side pontoons for easy road transport. No fixed cabin for easy passage under low bridges. High capacity due to fast self-unloading system.

### Technical specifications:

Dimensions overall	10,5 x 4,1 x 2,3 m	
Hull	6,5 x 2,45 x 1,2 m	4mm steel, 3 compartments
Pontoons	8,0 x 0,5 x 1,2 m	4mm steel, 2 compartments
Weight	9.150 kg	
Loading capacity	2.500 kg	7,5 m3
Draft	0,45 m empty	0,60 m full
Freeboard from main deck	0,35 m empty	0,20 m full
Cutting depth	0 – 1,3 m empty	0 – 1,5m full
Cutting width	2,4 m, ESM single acting system	
Conveyor belt	2,0m wide, Stainless Steel mesh	
Discharging height	Approx. 2,0 m above waterline	
Colour	Orange RAL2004 and Grey RAL7012	
Engine	Perkins water-cooled 4 cyl. diesel, 58 kW at 2.400 rpm	
Emission class	TIER IIIB / (IV final)	
Fuel consumption	8 - 10 l/hr	
Cooling system	Bundle cooler	
Electrical system	12V	
Propulsion	Double 400mm servo controlled, 0,4 m height adjustable anti-	
coiling	augers	
Steering	Servo assisted, steering angle 2x50°	
Pump	Double axial piston Load Sensing pumps	
Fuel tank	160 L	
Hydraulic tank	250 L, double suction- and return filtration and bundle oil cooler	
Speed	0 - 7 km/h	
Crew	1 operator, facilities for one assistant	

**Standard version includes:**

Conver Smart Switching Mechanism: Loading and unloading over the bow  
Anti-slip deck and galvanized hand railings  
Weatherproof adjustable seats for operator and assistant  
Engine monitoring system, hour counter, fuel gauge and rudder centre position indicator on dashboard  
Forced ventilation in engine room  
All functions are proportionally controlled  
Bilge sounding plugs on deck level, manual bilge pump in engine compartment  
Aluminum storage box with two compartments on rear deck  
Horn

**MC105-6 baseline weed harvester, excl. options****Options:**

- Working lamps, 2 pieces in front
- Weatherproof seat for the assistant
- PVC cabins for operator and assistant, each
- Navigation lights (compliant to Dutch regulations)
- Bilge warning (visual and audible in dash) in the engine compartment
- Cathode protection (aluminium anodes)
- Depth gauge, Raymarine ST40, or comparable, to be mounted on cutterbar or in boat hull
- Anchor, 25 kg pole anchor on 10m chain and 25m rope
- Bio-degradable hydraulic oil with water filtration system
- SWL lifting set
- Deck washing system, hydraulic, incl. 10m hose and nozzle
- Hydraulic bow thruster, in port side pontoon, incl. hydraulic preparations

**TERMS OF DELIVERY**

Prices	: Nett, excl. VAT and commissions
Currency	: EUR (Euros)
Validity	: 3 months from date
Delivery	: EXW Giessen (Incoterms2000)
Conditions	: Unless otherwise mentioned, 'Metaalunie' terms apply