

A compact, fully featured mobile concrete pump designed to provide a cost effective pumping solution to the small end concrete market

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The **minipump**



from **minipump** (UK) Ltd

Introduction

Based on an Iveco Eurocargo 7.5T chassis this machine was conceived from the experience gained within our own pumping company where our boom pumps were often carrying out pipeline pours because of access problems for both the boom and sometimes the truck itself.

Booms could often not be raised due to trees and overhead cables; outriggers were often unable to be opened due to obstructions or merely due to the fact that they would block the road. Equally our minimix trucks found it difficult to discharge into these truck mounted pumps as the hopper was just a little too high for them.

This machine fills the gap in the concrete pumping market between small boom pumps and trailer mounted static pumps and allows readymix trucks of all sizes to discharge S2 and above consistence concrete easily.

It is designed for placing concrete in those places where only a pipeline is needed (or can access) and where there may be restricted access for the vehicle.

The machine is fully featured and carries all the accessories necessary for it to be self sufficient and unlike most pumps the cleaning system ensures there is little waste for the customer to deal with after the job is done.

It provides a cost effective solution for pumping small quantities and as a consequence will develop its own niche in the small builder / DIY market.

Professionally engineered by our Italian pump partners the pump comes with a full 12 month parts warranty and the chassis comes with the manufacturers standard 3 year 100,000 mile comprehensive warranty.

The machine and its features

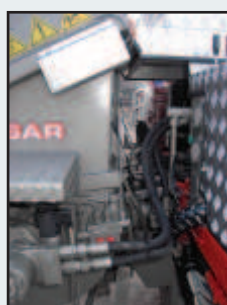
The pump is built within the Iveco Eurocargo 7.5T chassis and has a 4 litre diesel engine, which produces 177bhp. This engine is therefore ideal for both solid road performance and pumping performance.

The concrete pump is powered conventionally by hydraulics run from the main engine through a power take off gearbox mounted in line with the prop shaft. The pump is a powerful unit which can pump up to 40m³ of concrete per hour and can achieve 70 bar pumping pressure. This means that in general terms it is able to pump over 100m vertically and over 200m horizontally. Pumping speed is totally variable and can be slowed to a trickle feed. This pump is therefore also ideal for pumping self leveling screed as well as concrete.

Apart from the manual pump control console on the rear of the vehicle (picture right), the pump can be (and will usually be) operated using the radio remote control box. This fully functional remote control comprises stop and start, pump forward and reverse, pump speed control, vibrator on the hopper, horn for signals to the truck mixer operator and emergency stop (picture bottom right). In this way the operator can stand with the customer ensuring that the concrete is delivered to his requirements.

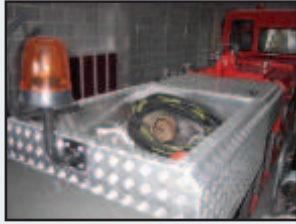
The pump has a conventional S valve changeover arrangement incorporating the unique Pulsar system which is ultra smooth in operation and rear mounted for easy access for maintenance should it be required (picture right). Most moving parts attached to the hopper are lubricated automatically from the hydraulic system.

The hopper has a splash cover, hazard beacon and a light to assist when cleaning. For additional safety the hopper is fitted with a safety cut out device which stops the pump should the hopper grille be lifted during pumping operation.



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All concrete delivery pipes (steel and rubber flexibles) are stowed neatly along each side of the vehicle which has drop down sides for easier access. In addition there is a top box for other accessories and separate clamp stools (pictured right and bottom right).



There is a 500 litre water tank which gives ample storage should it be needed.

Also driven from the hydraulic system there are both a high pressure water pump with lance (16 Bar) and a 1000 litre / minute air compressor for use in cleaning the pump and the line of concrete at the end of the job. The picture on the immediate right shows the air compressor neatly located behind the side protection bars.



There is further storage available under the chassis where there is a lockable drivers box for spare clothes etc. and just in front of the rear step (shown in the picture far opposite) a lockable steel accessory box.



Summary of key benefits

- ✓ Comes fitted with 30m of lightweight steel pipes as standard plus two 3m flexible rubber pipes
 - ✓ Falls into the plant category for vehicle licensing purposes and therefore benefits from lower road fund tax (correct at the time of this publication Jan 2007)
 - ✓ Lower fuel costs as it can be run on lower tax red diesel (correct at the time of this publication Jan 2007)
 - ✓ Significantly reduced capital cost compared to larger truck mounted boom pumps
 - ✓ Lower running cost than any other truck mounted pump
 - ✓ Can be operated by one person
 - ✓ 12 months parts warranty on the pump unit
 - ✓ 3 year comprehensive warranty on the chassis
- ✓ A robust compact pump able to access difficult areas
 - ✓ Super smooth pumping action due to Pulsar changeover
 - ✓ Fully self sufficient and self contained having all necessary equipment already fitted
 - ✓ Fully radio remote controlled
 - ✓ Fast and efficient with an extremely powerful pump and engine. Can pump over 100m vertically and over 200m horizontally
 - ✓ Versatile - it can be used for concrete and flowing screeds
 - ✓ Reduced waste due to the special cleaning equipment included

Standard Equipment

The machine comes with the following equipment as standard

- Choice of cab colours from the standard Iveco range. Choice of two colours for the pump
- 10 no 100mm x 3m lightweight steel pipes, 2 no 100mm x 3m rubber flexible pipes, 1 no reducer, 1 no 45 degree elbow, 2 no 90 degree elbow . Clamps and rubber seals to suit
- High pressure water lance for connection to the high pressure water pump
- Air cleaning canister and ball catcher, 2 no sponge balls
- Rear hopper cover, hopper mounted hazard beacon and hopper inspection light
- Operating manual and instructions
- CE certification

Specification*

Iveco Daily

Wheelbase	3700mm
Overall length	7100mm
Rear overhang	1150mm
Height of steel deck	950mm
Width	2300mm
Max Weight	7500Kgs
Engine	4.0 Litre

Pump

Cylinder Diameter	180mm
Piston Stroke	1000mm
Outlet Diameter	125mm
Hopper height	1250mm
Max pump pressure	70 Bar
Max output	40m ³ / hour

* Please note specifications and designs may be altered at any time

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