

BOOSTER 15

Twin-cylinder piston pump

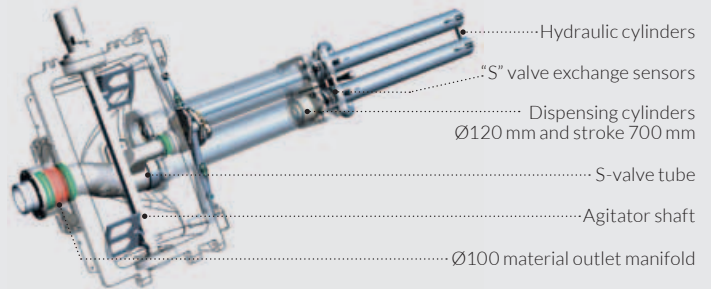
Booster 15 diesel engine Stage 5 - 22.3 kW
1106120

Booster 15 R diesel engine Stage 5 - 22.3 kW
EU road-towable approved
1106121



Compact and reliable, it is equipped with:

- Yanmar engine Stage 5
- Hydraulic pump with variable flow
- IMER electronic control board
- "Cool-Fast" cooling system
- Soundproofed engine compartment



Description

Booster 15 is an extremely small and light stationary concrete pump, capable of pumping concrete with a maximum grain size of 25 mm, or projecting micro concrete with a grain size of up to 12 mm. The machine is equipped with a variable displacement hydraulic pump that allows to vary the number of S-valve switches per minute, increasing or reducing the useful flow rate of the material according to the application.

Ideal for small and medium-sized construction sites, especially if located in places where the operating spaces are small and / or difficult to reach with other pumping systems.

It is suitable for pumping:

- Concrete with a maximum grain size of 25 mm (1")
- Fiber-reinforced concrete
- Self-compacting concrete
- Refractory concrete (only for wet application)
- Filling grouts with metal / polypropylene / carbon / glass fibers
- Screeds with expanded clay / sand / cement
- Cement / anhydride based self-levelling screeds
- Injections on micropiles by gravity or low pressure

It is optimized to work simultaneously with the self-propelled crawler concrete placing boom GERRIS 800.

It is suitable for spraying:

- Shotcrete
- Shotcrete with setting accelerating additives
- Structural mortar, also fiber-reinforced

Booster 15 can be optimized to meet specific pumping or spraying needs, thanks to the availability of a wide range of optional accessories.

Operation

Booster 15 is a two-cylinder piston pump with exchange S-tube valve. The pumping cylinders are 120 mm in diameter and have a stroke of 700 mm. The S-valve has an elongated conical shape (from Ø 120 to Ø 100) and is equipped with a special self-compensation system for the wear of the sealing plates.

Booster 15 is based on a completely hydraulic free flow operation, capable of developing 220 bar of pressure. The particular and exclusive cooling system "Cool Fast" of the hydraulic oil provides the use of a special auxiliary hydraulic pump and a generously sized air / oil radiator. The "Cool Fast" system is able to guarantee continuous operation even with high ambient temperatures.

The material must be unloaded into the hopper directly from the batching plant / truck mixer / dumper / large mixers. Passing through the vibrating grid, it is filtered by any excessively large stones. In the case of pumping with small diameter hoses (Ø 50 mm), the machine can be equipped with a thin mesh grid.

Booster 15 works with the following cycle:

- The agitator in the bottom of the hopper accompanies the material in front of the dispensing cylinders.
- The two pistons inside the dispensing cylinders suck the material from the hopper until it reaches its limit switch backwards.
- The exchange sensors detect the arrival of the piston and control, through the exchange cylinders, the position of the S-valve.
- The piston that had finished its backward stroke (in suction) now pushes and pressurizes the material into the pipe through the S valve, while the other piston is engaged in the suction phase.

The cycle is renewed from 4 to 30 times per minute, depending on how the operator sets the material flow rate in the control panel.

EU road-towable approved (approved up to 140 Km / h).

With braking system, 195 R14 wheels, wheel lock wedges, mudguards, light bar and anti-cyclist bars. Standard on Booster 15 R.

Adjustable handling bar Standard on Booster 15



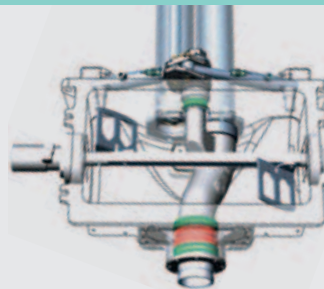
5-function cable remote control (standard):

- March
- Stop
- Inversion
- Flow rate increase
- Flow rate decrease



ANTI-SHOCK control panel:

- Material flow regulation
- Hydraulic pressure control gauges
- Emergency operating system in case of failure of the exchange sensors
- Hour counter



Maximum performance thanks to:

- Quick exchange of S-valve tube
- Cylinder with Hardox® steel wear plates
- Self-compensation system of wear
- Agitator shaft to avoid segregation of the material during work

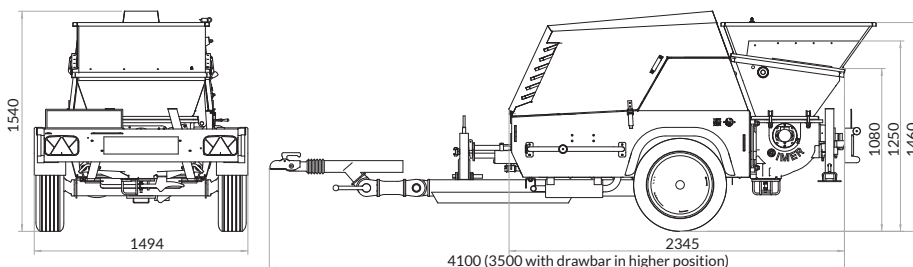
Standard Equipment

Liquid cooled diesel engine - Yanmar 3TNV82A-BDYE Stage 5
Hopper with agitator shaft
Hopper grid with 12V electric vibrator
Free flow hydraulic system
Pumping group with S-valve tube
Victaulic 4" delivery manifold (Ø 100 mm)
ANTI-SHOCK control panel
Hour meter
Cable remote control 5 functions
Tool kit for replacing pumping pistons
Manual greasing pump
Axle with wheels 195R14
Adjustable handling bar (Booster 15 version)
EU road-towable approved (Booster 15 R version)

Technical data

Diesel engine Stage 5		3TNV82A-BDYE2
Installed power	kW	22.3
Pumping system		Two-cylinder piston
Grain size	mm	25
Material flow*	m³/h	2-15
Pumping pressure*	bar	70
Pipe connection manifold	mm	Victaulic 25 (4")
Hopper capacity	l	240
Loading height	mm	1080
Horizontal pumping distance	m	200
Pumping height	m	80
Pumping cylinder size	mm	120
Pumping cylinder stroke	mm	700
Number of S-valve exchanges	min	4 - 34
Machine dimensions w / l / h	mm	1494/4100/1540
Machine weight	kg	1550
Packed machine dimensions w / l / h	mm	1550/1550/3500
Packed machine weight	kg	1610
Sound pressure level	dB (A)	<103

(*) The data on distance, height and hourly output are non-binding indicative values, which vary according to the consistency of the materials and the chosen configuration. Maximum pumping pressure and maximum flow are inversely proportional, never obtainable simultaneously.



Optional accessories for customized setups **BOOSTER 15**

IMERVIEW KIT Booster 15 Connect 4.0

- Gps-Gsm electronic control unit, with integrated antenna
- Pressure sensor
- Web Dashboard access and Cloud storage
- 5 years of data traffic included
- Pre-delivery installation included
- ➔ Recommended for remote control:
 - Geo fencing with immediate alert "machine outside perimeter"
 - Position and movement tracking
 - Battery status
 - Working environment temperature
 - Hydraulic system analysis
 - Direct connection with Imer Service

1107670



➔ Recommended when loading the material with a truck mixer

1107196



Booster rubber hopper extension 380 l kit, loading height 1250 mm

➔ Recommended when loading the material with a batching plant

1107197



Booster steel hopper extension 500 l kit, loading height 1460 mm

➔ Recommended for automatic and continuous lubrication

1107170



Automatic greasing system kit

➔ Recommended to speed up washing operations

1107171



High pressure cleaner kit 140 bar

➔ Recommended for pumping in general

1107001



5 functions radio control kit
 • March • Stop • Inversion
 • Flow rate increase • Flow rate decrease

EU road-towable approved
 (Other models available in the Spare Parts section)

1107069



Caravan hook kit for Booster R
 (other models available in the Spare Parts section)

Accessories for specific applications **BOOSTER 15**

1107178



Inspection and lubrication steel bend 90° for 4" Victaulic pipes

1107200



Steel bend 45° Ø 3 1/4" (75 mm)

1107199



Steel bend 90° Ø 3 1/4" (75 mm)

Fitting accessories suitable for pumping aggregates with a grain size of 19 mm

- ➔ Recommended for pumping:
- Concrete grain size 0-19 mm
 - Fiber-reinforced concrete
 - Self-compacting concrete
 - Refractory concrete (only for wet application)
 - Grouting and fill core grouting
 - Self-levelling cement / anhydride based screeds

1107179



Victaulic Ø 4" fixed lever coupling for Ø 100 pipes

1107193



Victaulic Ø 3 1/4" fixed lever coupling for Ø 75 pipes

1107191



Reduction cone Ø 100 (4") - Ø 75 (3 1/4") att. Victaulic l = 1000 mm

1107190



Rubber extension hose Ø 75 L 10 m Victaulic 3 1/4" + Victaulic 3 1/4"

1107180



Victaulic kit for gasket for Ø 4" coupling for Ø 100 pipes

1107194



Kit of 5 Victaulic Ø 3 1/4" joint gaskets for Ø 75 pipes

1107195



One sponge ball for pipes Ø 75 (3 1/4")

Basic kit pumping concrete grain size 25 mm (1")

Accessories for pumping concrete with maximum grain size 25 mm (1")

➔ Recommended for pumping:

- Concrete with a maximum grain size of 25 mm
- Fiber-reinforced concrete
- Self-compacting concrete
- Refractory concrete (wet only)
- Grouting and fill core grouting

Total packaging weight (kg) 330

Pallet dimensions w / l / h (mm) 1100/3000/1100

Box dimensions w / l / h (mm) 370/800/470

1106123



Accessories contained in the Kit

- 7 Steel pipes Ø 4" L 3 m Victaulic 4"
- 1 rubber hose 4" L 3 m Victaulic 4" - free outlet
- 2 steel bends Ø 4" r = 250/90° Victaulic
- 2 steel bends Ø 4" r = 250/45° Victaulic
- 12 Fixed lever coupling Ø 4" Victaulic
- 15 Gasket for Victaulic Ø 4" coupling
- 2 washing sponges for pipes Ø 150/200
- 1 sponge collection basket Ø 4"
- 1 steel bend 90° 4" Victaulic
- 1 cap for Ø 100 Victaulic bend

Additional accessories to the basic kit **1106123**

1107174



Steel pipe extension Ø 4" L = 3 mt
Victaulic 4"

1107175



Steel pipe extension Ø 4" L = 1 mt
Victaulic 4"

1107206



Column support vertical pipes
Basic bend for pumping pipe column

1107176



Additional steel bend Ø 4" r = 250/90°
Victaulic

1107177



Additional steel bend Ø 4" r = 250/45°
Victaulic

1107179



Victaulic Ø 4" fixed lever coupling for
Ø100 pipes

1107205



Column support vertical pipes
Pipe support Ø 4" for wall

1107185



Rubber hose extension Ø 100 mm L. 3 m
Victaulic 4" Victaulic 4"

1107186



Rubber end hose Ø 100 mm L. 3 m
Victaulic 4" free exit

1107198



U bend Ø 100 4" with hook for castings in
raised tube formwork with forklift / crane
/ excavator

1107180



Victaulic kit nr 5 gasket for Ø 4" coupling
for Ø100 pipes

1107202



Optional accessories for cleaning
the pipe with compressed air
4" hose cleaning kit

1107184



Optional accessories for cleaning
the pipe with compressed air
Sponge collection basket Ø 4"

1107183



One sponge ball for pipes Ø 100 (4")

Setups for specific applications **BOOSTER 15**

1106124

Shotcrete kit suitable for spraying aggregates with a maximum particle size of 12 mm

➔ Recommended (excluding the use of the gun and the additional compressor) for pumping:

- Self-levelling cement / anhydride based screeds
- Self-compacting concrete
- Grout and core fill grouting

➔ Recommended for spraying:

- Shotcrete
- Structural mortars also fiber reinforced

➔ Minimum requirements for additional compressor
4500 l/min - 159 cfm (optional)



Shotcrete kit base hoses Ø 50 L30m Victaulic (without additive)

Accessories contained in the Kit

- 2 rubber hoses Ø 50 L 10 m Victaulic 2" - Victaulic 2"
- 1 rubber hose Ø 50 L 10 m Victaulic 2" - camlock Ø 50
- 1 hopper grid for Shotcrete, 15 mm width
- 1 Shotcrete spray gun Ø 50 with quick air connection 3/4"
- 1 Reduction cone Ø 100 (4") - Ø 50 (2") Victaulic I = 1000 mm
- 1 hose holder band
- 2 washing sponges for Ø 50 mm hose
- 1 Victaulic Ø 4" fixed lever coupling
- 2 gaskets for Ø 4" Victaulic coupling
- 3 fixed lever couplings Ø 2" Victaulic coupling
- 6 gaskets for Ø 2" Victaulic coupling
- 1 Ø 50 camlock coupling gasket

Complementary kit to code **1106124**

1107172

Automatic pump for dosing accelerating additives

It is an eccentric screw pump synchronized with the number of switching of the S valve, capable of precisely dosing the quantity of additive preset.

Very simple to use. Simply set the percentage of additive per cu. m. desired and the pump will keep it constant regardless of the pumping speed. The start and stop are synchronized with the material dispensing cylinders.



Accessories contained in the complementary Kit

- Shotcrete gun with material inlet connection, Ø50 F camlock and double air inlet - additive with compressed air connections (Ludecke)
- Dosing pump complete with proportional valve and hydraulic pipes. Quick connection inlet 3/4 "and outlet connection type compressed air 3/4"
- Complementary control panel for additive pump;
 - ON / OFF and Manual / Automatic controls
 - Additive percentage setting based on the quantity of material pumped
 - Fixed flow manual mode function, for priming and washing
- 4 m hose with quick coupling for connection to additive container

Additional accessories to kits **1106124** and **1107172**

1106250



Shotcrete gun without additive inlet - Ø 50 camlock coupling and air inlet with 1/2" quick connection

1106251



Deflectors for shotcrete gun, without additive inlet

1107178



Victaulic pipe inspection and lubrication 90° bend

1107189



Terminal rubber hose Ø 50 mm L 10 m Victaulic 2" - camlock Ø 50

1107188



Rubber hose Ø 50 mm L 10 m Victaulic 2"

1107192



Shotcrete gun for additive - Ø 50 camlock coupling and 3/4" quick couplings. Double inlet for air and accelerating additive

1107187



Reduction cone Ø 100 (4") - Ø 50 (2")
Victaulic l = 1000 mm

1107521



Kit 10 pieces sponge for cleaning hose Ø 50

1107180



Victaulic kit n° 5 gasket for Ø 4" couplings for Ø100 steel pipes

1107182



Kit n° 5 gasket for Ø 2" Victaulic couplings for Ø 50 hoses

1107179



Victaulic Ø 4" fixed lever couplings for Ø 100 hoses

1107181



Victaulic Ø 2" fixed lever couplings for Ø 50 hoses

