



Pictured machine may include options and additional equipment.

Features

Mobile concrete pump for high quality sprayed concrete

NorStreamer is a mobile concrete pump for the application of sprayed concrete above and below ground where no compromises can be made regarding the quality of the final product.

The double piston pump with fast switching S-tube is designed for durability and minimal pulsation in the concrete delivery, capable of conveying a wide range of concrete mixes with aggregates up to 16 mm (including crushed materials) and structural fibers up to 60 mm in length.

Low-pulsation and fully synchronized dosing system

The peristaltic dosing pump ensures accurate and with the concrete output fully synchronized dosing of liquid set-accelerators. As an alternative, the progressive cavity pump offers the lowest pulsation, which further increases the quality of the sprayed concrete.

Various configurations to meet customer needs

The NorStreamer is available in various configurations, such as a trailer version for easy transport, skids, or mounted on a cassette frame for transport with a Normet Multimec carrier vehicle.

The frame extension for a 1000 I IBC container for liquid accelerator with optional heating and mixing allows the operation in colder regions.

Reliable and well dimensioned hydraulic system

Continuous operation even in hot ambient temperatures is ensured by the well-dimensioned oil cooler and reservoir. The powerful hydraulic system allows continuous pumping of stiff concrete over long distances with minimal interruptions.

Good filling ratio of the concrete cylinders

The special hopper grid allows easy passage of even poorly flowing concrete mixtures. The hydraulically driven agitator installed in the hopper keeps the concrete in motion, which guarantees a high filling degree of the concrete cylinder and minimizes the risk of sedimentation at the same time.

Advanced control system with remote control

The pump is operated directly from the control panel or by remote control (wired or radio) where the concrete and accelerator output can be easily adjusted.

The integrated display informs about the running process and allows the recording of the production data, which can be transferred via a USB stick.

Open to interface with other equipment

The possibility of connecting the compressed air and the electric shut-off valve including manometer enables the remote control of switching on and off the conveying air.

Matching sets of concrete delivery lines and nozzle systems for manual and mechanized spraying complete the offer.

The combination of a NorStreamer with a Normet Minimec makes an unbeatable pair for the high-quality application of sprayed concrete.



Technical specification

CONCRETE PUMP

Spray pump NSP 30 cast iron type Double piston pump with s-tube:

- Volumetric pumping capacity 3 30 m³/h
- Double layer type grill with vibrator (24 VDC)
- Agitator
- S-tube changeover by hydraulic accumulator
- Standard concrete pressure 50 bar
- High pressure pumping feature 65 bar
- Pumping cylinder diameter 200 mm
- Cylinder stroke 600 mm
- Outlet diameter 125 mm
- Outlet connector 5" Hevi-Duty
- · Side tilting hopper
- Hopper capacity 250 L

ACCELERATOR SYSTEM

Standard Nordoser XEP

- Hydraulic pilot control system for the concrete pump with peristaltic pump
- · Simple real time process display
- · Accurate accelerator output ratio adjustment
- Electric concrete pumping speed adjustment
- Work shift based data logging
- Reports uploading to a USB drive
- System settings
- Process settings
- System diagnostics
- · Process diagnostics
- USB access drive programming
- Multi colour display module
- Switches for quick functions
- Multi language user interface

Dosing rate 0.6 - 16 L/min

Synchronized to concrete output

HYDRAULIC SYSTEM

Electro-hydraulic power unit 37kW

Variable displacement pumps for concrete pumping and s-tube changeover, with following outputs:

- 105 L/min for concrete pump
- 30 L/min for s-tube changeover
- 24 L/min for agitator and dosing system

Oil tank capacity 200 L (stainless steel)

Oil cooler

24 VDC ELECTRICAL SYSTEM

Control panel for pump controls Hourmeter

Signal horn

Work light for concrete pump

Beacon

HIGH VOLTAGE ELECTRICS

400 V / 50 Hz (IEC)

Equipped with supply phase change feature Without supply cable reel or cable

OTHER

Trailer frame

- · Adjustable tow bar
- 2 wheels and axle
- 3 adjustable mechanical support legs
- 4 lifting points on top level
- Shields and covers
- · 12 kg hand-held fire extinguisher
- Modular construction
- Basic tool set

Compressed air connection

- Air feed connector with pressure meter
- Shut-off and bleed valve for air line

Optional equipment

ACCELERATOR SYSTEM

Nordoser XEM

 Hydraulic pilot control system for the concrete pump with screw pump

HIGH VOLTAGE ELECTRICAL SYSTEM

Mains supply cable

- 50 Hz
 - 380 V (IEC)
 - 415 V (IEC)
 - 440 V (IEC)
- 60 Hz
 - 440 V (IEC)
 - 480 V, (460 V) (UL/CSA)
 - 600 V, (575 V) (UL/CSA)

OTHER

2/7

Skid frame (without wheels, axle and tow bar)
Ansul Sentry powder extinguisher



Additional equipment

ACCELERATOR SYSTEM

Heating element kit for IBC container:

- Easily exchangeable jacket-type heating element
- 2 circuits each 1000 W, 240 VAC
- -5 °C to 40 °C capillary thermostat per circuit
- Includes separate insulator cover part for container (hole for the filling gap and mixer)
- External power supply is required for heating and mixing kits if used during operation

Accelerator mixing kit for IBC container:

- Electrically-driven mixing device
- Electric motor 0.37 kW 240 VAC
- External power supply is required for heating and mixing kits if used during operation

FOR PUMP

Cable remote control

Functions: Pumping start /stop /reverse / output +/-

Cable length 30 m

Wireless remote control

Functions: Pumping start /stop /reverse / output +/-Integration bracket to minimec remote control

OTHER

Extension frame for the IBC container Skid extension frame for the IBC container 1000 L IBC container

Lifting chains

Reducer kit

(Required for equipment kits)

Outlet on the side of the pump

Reduces pump outlet diameter from 125 mm to 65 mm Included equipment

- Reducer curve from 125 mm to 76 mm
- Hose 3 m; 76 mm
- Reducer from 76 mm to 65 mm
- Necessary clamps and gaskets

Manual concrete spraying equipment

Hand spraying nozzle 2"

Concrete line:

- Length 10 m
- Diameter 50 mm
- Reducer tube from 65 mm to 50 mm

Included equipment:

- Spraying nozzle hoses for air and accelerator
- Accelerator line 3/4"
- Air line 1 1/2"
- Shut-off and bleed functions for spraying nozzle
- Necessary clamps and gaskets

Mechanised concrete spraying equipment

Connectivity to Normet Minimec

Concrete line:

- Length 25 m
- Diameter 65 mm

Included equipment:

- Accelerator line 3/4"
- Air line 1 1/2"
- Necessary clamps and gaskets



LTC services

RECOMMENDED SPARE PARTS FOR EARLY LIFE

Spare parts package: A complete package to make sure your machine runs with optimal uptime up to 1000 operation hours*.

Includes periodical maintenance parts and most critical spare parts related to e.g.:

- Hydraulics (e.g. filters)
- Electrics (e.g. sensors, work lights, solenoid coils, contactors)
- Concrete pump (e.g. cutting ring, housing lining, kidney seal)
- Accelerator dosing system (e.g. display, I/O-modules, sensors)
 - *) In challenging operating environment 1000h of usage may not be reached with this spare parts package.

EXTENDED WARRANTY

Extended warranty extends the standard warranty period (12 months or 2000 usage hours) up to total 24 months or 3000 usage hours, whichever is reached first.

ELECTRONIC MANUALS ON THE WEB

LinkOne electronic spare parts and instruction manuals

TRAINING AND EXPERTISE SERVICES

Available before and at the equipment delivery – and during the whole equipment life-time!

Product training:

Operation and Maintenance Automation - NorSmart Foundation of electrics, hydraulics and mechanics Trouble-shooting

Process & operator improvement audit for:

Concrete spraying Charging Scaling

Audit services to improve:

Performance, availability, maintenance & repair efficiency, safety, quality, environmental aspects

SERVICE CONTRACTS FOR

Spare parts supply Scheduled inspection Supervision Scheduled maintenance Preventive maintenance

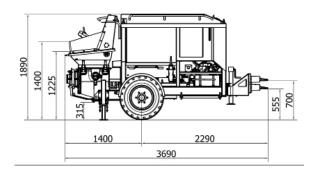
EQUIPMENT HAND-OVER SERVICES

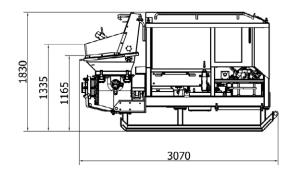
	Start-up training	Commissioning
1. Operator training		
1.1 Classroom training		
General introduction and operation of machine	Comprehensive	No classroom training included in commissioning
Safety instructions	Comprehensive	
Use of manuals	Comprehensive	
Technical introduction of equipment	Comprehensive	
Hands-on service and pre-operation checks	Comprehensive	
Controls and driving (starting, driving, stopping, parking)	Comprehensive	
Work method	Comprehensive	
1.2 Practical training		
Pre-operation checks	Comprehensive	Basic
Driving, starting, stopping, parking	Comprehensive	Basic
Preparing the machine for specific operation conditions	Comprehensive	Not covered
Operation	Comprehensive	Basic
Washing the machine	Comprehensive	Basic
Troubleshooting	Comprehensive	Basic
2. Maintenance and repair training		
General operation of machines	Comprehensive	Basic
Symbols of drawings and codes	Comprehensive	Not covered
Understanding hydraulic and electric schematics	Comprehensive	Basic
Control systems	Comprehensive	Basic
Function of main components (depending on equipment)	Comprehensive	Basic
Locations of components in the machine	Comprehensive	Not covered
Periodical maintenance	Comprehensive	Basic
Troubleshooting	Comprehensive	Not covered
Use of manuals	Comprehensive	Basic
Connection of hydraulic and electrical equipment	Comprehensive	Not covered

Normet reserves the right to change this specification without further notice.

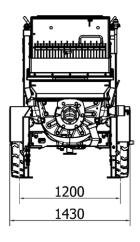


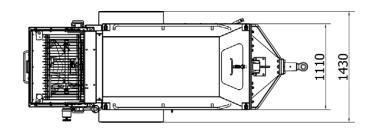
Dimensions

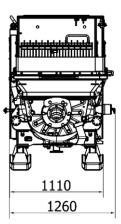




SIDE VIEW





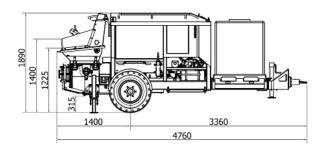


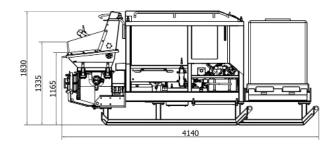
REAR VIEW

DIMENSIONS	
Length	3690 mm
Length with skid frame	3070 mm
Width	1430 mm
Width with skid frame	1260 mm
Height	1890 mm
Height with skid frame	1830 mm
Hopper discharge height	1400 mm
Hopper discharge height with skid frame	1335 mm
Weight	3500 kg

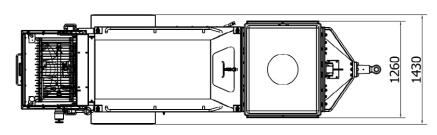


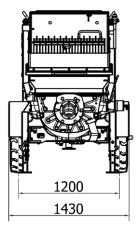
Dimensions with IBC

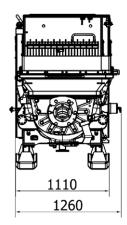




SIDE VIEW







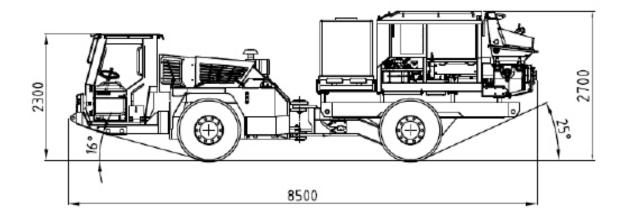
REAR VIEW

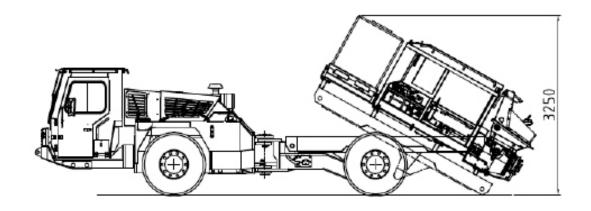
DIMENSIONS WITH IBC	
Length	4760 mm
Length with skid frame	4140 mm
Width	1430 mm
Width with skid frame	1260 mm
Height	1890 mm
Height with skid frame	1830 mm
Hopper discharge height	1400 mm
Hopper discharge height with skid frame	1335 mm
Weight with full IBC container	5100 kg

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NorStreamer 30 V Cassette Dimensions





DIMENSIONS

Length 4050 mm
Height 1950 mm
Hopper discharge height (on the ground) 1420 mm
Total weight with Multimec 14500 kg

