



SPEEDCAST 5.0

DESCRIPTION

The machine consists of a motorised carriage on which a storage hopper for concrete is mounted, equipped with an extraction screw conveyor for the dosing of concrete. The hopper is tilting and revolving, equipped with an incorporated control cabin.

SPEEDCAST has been designed for the transport and dosing of concrete and cement agglomerates of class S2-S3-S4 with a maximum specific weight of 2,400 kg/m³.

The transport of any other material is strictly FORBIDDEN.

CONCEPT

SPEEDCAST 5.0 has been designed to meet the needs of a particular sector of concrete distribution systems in the prefabrication industry.

The distribution usually takes place through overhead systems (ORUFLY product line), special modular pipes fed by stationary or mobile concrete pumps (BOOSTER product line) or through other more or less versatile systems.

SPEEDCAST represents a more versatile and efficient solution for the distribution of concrete within plants for prefabrication.

SPEEDCAST completes the product range for distribution of concrete in prefabrication, a sector we made a strategic decision to focus on.

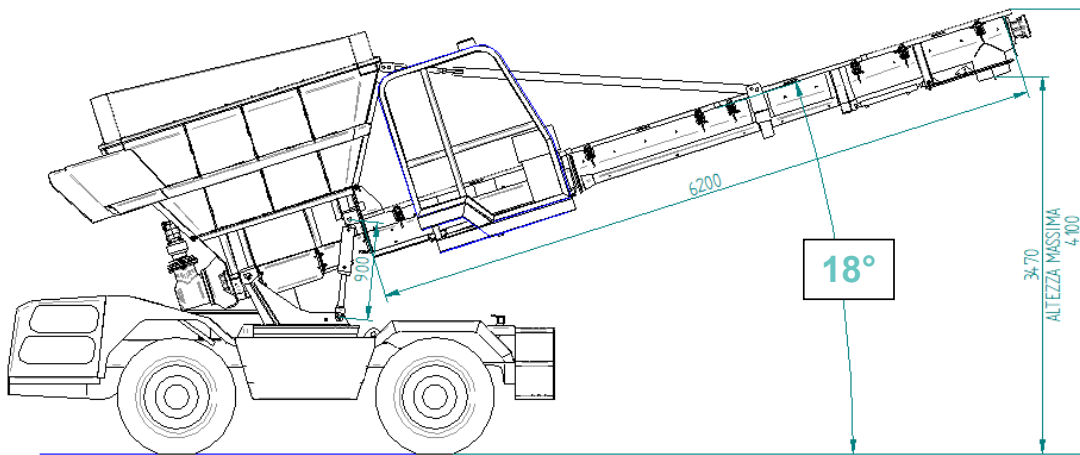


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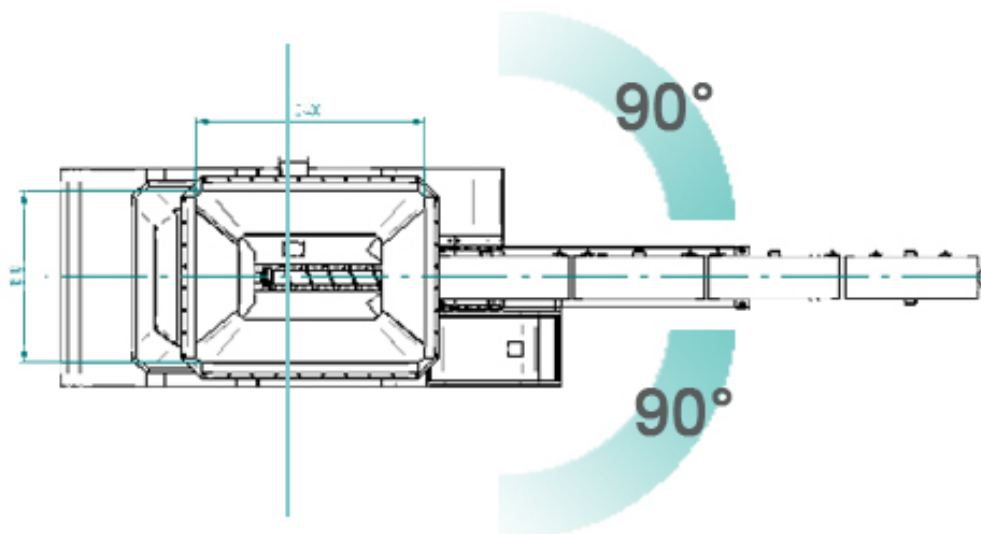
DISTINGUISHING FEATURES

- Extremely low operating costs, thanks to simple and moderate maintenance both financially and in terms of time.
- Costs reduced to a minimum by using a single operator to manage transport and casting, allowing for greater profit margins.
- Excellent efficiency thanks to great manoeuvrability and control for high manoeuvring speed and casting precision.
- Extreme versatility. SPEEDCAST can be used in many different situations, ensuring a high return on investment. Rotation 90° clockwise - 90° anticlockwise.
- Exceptional manoeuvrability and power thanks to four-wheel drive (4 x 4) - four drive wheels with rear axle steering direction equal or opposite to front axle.

AREA OF WORK

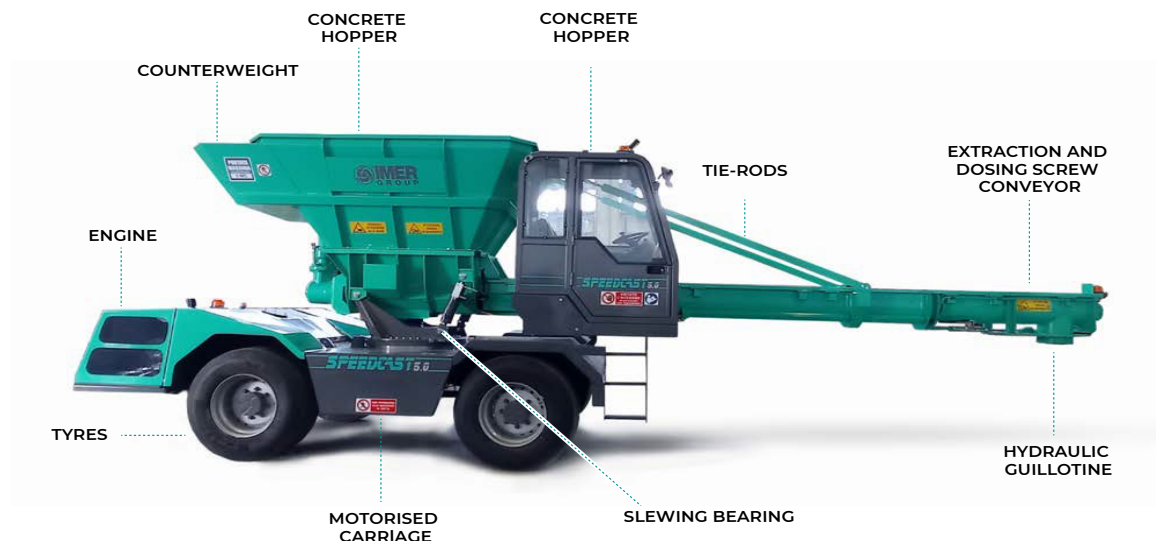


Maximum incline 18°



Rotation 90° clockwise - 90° anticlockwise

DESCRIPTION AND COMPONENTS



MOTORISED CARRIAGE

- Four-wheel drive (4 x 4)
- 4 drive wheels, steering direction of rear axle equal or opposite to front axle
- Hydraulic transmission with hydraulic motors
- Front and rear lights complete with direction indicators

ENGINE (first example Perkins following Yanmar or Kubota)

Rear-mounted 4-cylinder turbocharged transverse diesel engine

- Power 84 kW (114hp) at 2300 rpm
- Water cooled
- Standard engine compartment insulation

TYRES

Dimensions 385/65 R22.5 (diameter 1,070 mm)

Tread suitable for gravel (breccia) or work site conditions

Filling of tyres with high density polyurethane.

TILTING HOPPER

- Hopper capacity: 3 m³ vibrated concrete
- Capacity in water volume: 5.3 m³
- Presence of upper containment flanges in inclined position
- Rotation 90° clockwise - 90° anticlockwise

INTEGRATED CONTROL CABIN

It is integrated into the hopper frame, positioned on the front right-hand side.

ROPS-FOPS cabin, complete with double-opening door and seated operator driving position.

CONTROL DEVICES

- CAMERAS

There is a 7" screen in the cabin, which is connected to 2 came-

ras, one at the front and one at the rear. The screen automatically switches from a front to rear view according to the direction of travel.

- INCLINOMETER

There is a safety system based on verifying the tilt angle of the machine, to prevent it reaching dangerous stability conditions.

- LIGHTS

There are 3 "work" lights. These include two front lights which illuminate the unloading area of the screw conveyor and one rear light.

HYDRAULIC SYSTEM

- 1 variable-speed pump for travel (hydraulic motor linked to front axle, transmission shaft from front axle to rear axle).
- 1 variable-speed pump for screw conveyor (gear motor).
- 1 pump for power steering (hydrostatic drive).
- 1 pump for hopper rotation (gear motor slewing drive).
- Suction and exhaust filters.
- Water/oil heat exchanger.

EXTRACTION/DOSING SCREW CONVEYOR

- Ø323mm screw conveyor with hydraulic gear motor, discharge capacity 60 m³/h.
- Screw conveyor horizontal tilt 18°.
- Helical blade in Hardox.
- Wear resistant coating of trough in Hardox 400, 4 mm thick.
- Anti-drip hydraulic guillotine.

BRAKING SYSTEM

Discs immersed in oil inside differentials. Independent dual circuit. Hydraulic powered negative parking brake.

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SPEED OF TRAVEL

SPEED	KM/H	MANUAL GEAR CHANGE	ENGINE GEAR CHANGE	CRUISE CONTROL
HIGH SPEED	25	HIGH	HIGH	NOT ACTIVATED
FAST	9	LOW	HIGH	NOT ACTIVATED
NORMAL	4	LOW	LOW	NOT ACTIVATED
SLOW	2	LOW	LOW	ACTIVATED (**)

(**) only speed possible with screw conveyor not in the horizontal position.
Do not use the manual transmission at high speed with a loaded carriage.

EMERGENCY UNLOADING KIT

The concrete hopper is equipped with an unloading door for emptying the hopper in cases of emergency. A removable slide may be readily attached to the dedicated supports to allow the outflow of the concrete remaining in the hopper without getting the machine dirty, channelling it to a special container or recycling tank.

HOPPER WASHING AND CONTROL STATION

On the side of the cabin is installed a walkable with ladder for the control and washing operations. The ladder is equipped with a mirco switch. With the ladder open the machine does not work.

MAINTENANCE AND WASHING STATION

A maintenance and washing station for the SPEED-CAST must be included in the site layout. The structure must be equipped with two platforms on two levels for the maintenance/cleaning of the hopper (upper level) and the screw conveyor (lower level), as well as steps that are suitable for reaching these safely. There must also be a water-based washing system with a high-pressure lance and a wash water recovery system (in accordance with the regulations provided for in the country in which it is installed).



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TECHNICAL DATA

MOTORISED CARRIAGE

All wheel drive / 4 x 4

Drive wheels N° 4

Water cooling

Front and rear lights complete with direction indicators

TYRES

385/65 R22.5 type Ø mm 1,070

Tread suitable for gravel (breccia) or work site conditions

Tyres filled with high density polyurethane

ENGINE

Yanmar/Kubota diesel engine (TC) N° 4 cylinders

Power Kw 53,7

Displacement cc 3319

CONCRETE HOPPER

Vibrated SLWC capacity m³ 3

Water volume m³ 5.3

Rotation ° ± 90

Maximum incline ° 18

Presence of upper containment flanges in inclined position

EXTRACTION SCREW CONVEYOR

Discharge capacity

Diameter

Trough coating in Hardox 400

Helical blade in HARDOX

TANKS

Diesel fuel l 115

Hydraulic oil l 80

WEIGHTS

Machine weight Kg 7,700

Compulsory SLWC counterweight Kg 1,300

Unladen weight Kg 9,000

Fully loaded weight Kg 16,200

ENVIRONMENTAL CONDITIONS

Operating temperature from 0° C a 40° C

Maximum altitude 1,000 m

