

BELT CONCRETE CONVEYORS: DISCOVER THE ADVANTAGES



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The line of IMER Group belt conveyors stands out for the versatility of its applications in the work yard. Our range is made up of **LT 1200**, **LT1500 telescopic** and **LT1600 telescopic**.

The belt conveyors are driven by a hydraulic transmission in vertical position capable of turning 280° around their axis, facilitating their positioning and manoeuvrability, even on uneven ground. During the distribution, the truck must remain parked in the area where it is positioned. The speed of the conveyor is independent of the vehicle that carries the mixer or of the auxiliary motor, as it is provided by a hydraulic fixed displacement motor connected to the conveyor drive roller, which in turn is driven by a hydraulic pump connected to the power takeoff of the vehicle transmission.

The conveyor structure is made of steel with a high yield point providing the necessary sturdiness and elasticity. The accurate design and the constant attention to the requirements of the end user gives the belt conveyors reliability, and allows easy access to all their parts for cleaning and maintenance.

The conveyor makes it possible to easily and immediately distribute, at the desired point, the material contained in the mixer: concrete, gravel, sand, cement-bound granular material, etc.

The conveyor is ideal in the building of foundations, small floors, and also concrete pillars and road works. It is an ideal means, both in functional terms (flexibility and versatility, even in severe conditions) and in economic terms.



Technical characteristics		LT 1200	LT 1500 Telescopic	LT 1600 Telescopic
TRUCK MIXER				
Nominal capacity	m ³	6 - 12	6 - 12	6 - 12
Axles		6x4 - 8x4	6x4 - 8x4	8x4
Range of horizontal operation	mm	11.860	13.500 + 1.300	12.000 - 16.000
Max extension, including swing-out support - rotation axis	mm	12.400	14.800	15.992
Width of belt	mm	370	400	400
Max discharge height *	mm	6.700	8.003	8.865
Discharge capacity in horizontal position	m ³ /h	45	45	45
Speed of belt	m/sec	0-3	0-3	0-3
Working radius with swing-out support - rotation axis	°	290-310	282	280
Overall weight	kg	1.200	2.600	2.450
Weight of stabilizers	kg	-	300	300

*depending on consistency of the concrete (optional)

LT 1200 BELT CONVEYOR



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The compact size of the LT 1200 conveyor makes it ideal for use in work yards where particular problems of space and manoeuvrability apply. The conveyor extends to a maximum length of 12.4 metres, including the swing-out support, and it has a delivery rate in the horizontal position of 45 m³/h. The range of operation with the swing-out support covers a circular area of 290°. The rubber belt runs on metal guides lined with polythene sliding pads, which provide a better sliding surface, avoiding shifting or friction problems that could hinder the movement of the belt, and in particular the segregation of the concrete during transportation. The maximum discharge height, depending on the consistency of the material to discharge (concrete or other), is about 7 metres.



Conveyor belt during transport



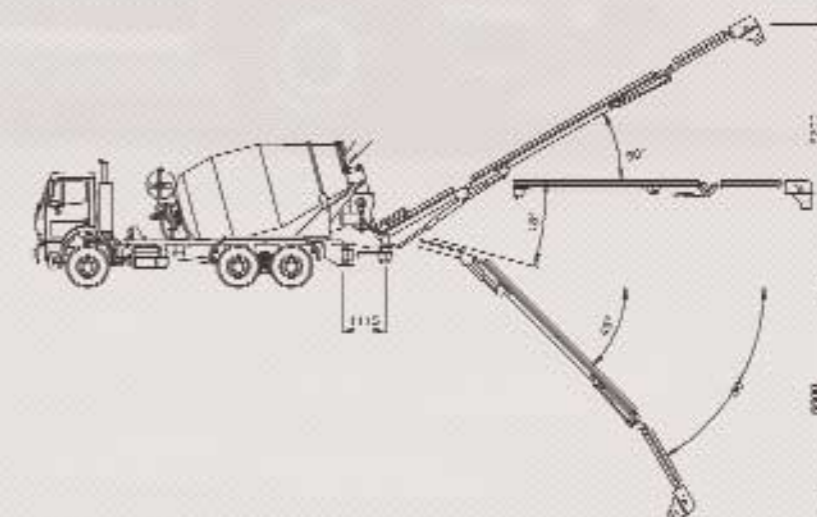
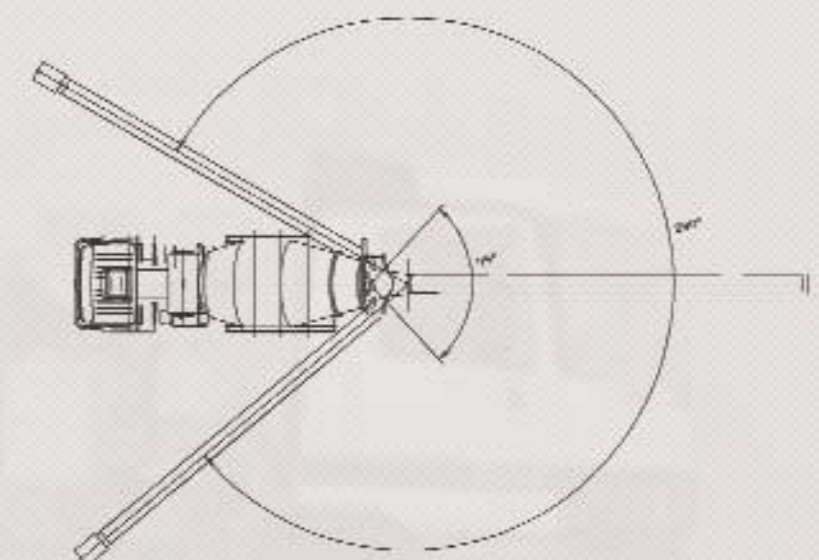
Radio control with emergency stop and with integrated start-stop of the truck mixer motor.



Rear bumper with sensor enabling the conveyor belt movement



Concrete conveyor hopper



LT 1500 TELESCOPIC BELT CONVEYOR



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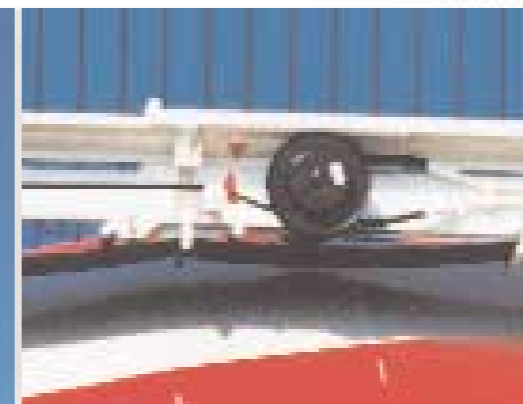
The LT 1500 belt conveyor is provided with a 2.5 m telescopic extension which makes it possible to reach a maximum length of 14.8 metres. The advantage of this type of conveyor lies in the possibility of casting the concrete along the whole area covered by the 2.5-metre telescopic extension without moving the mixer. The final take-up of the additional length makes it possible to carry it with extreme ease and compactness. In the horizontal position, the conveyor has a delivery rate of 45 m³/h in a working radius of 282". The belt runs on steel guides covered with a polythene lining that provides greater adhesion and a smoother movement of the belt itself, while avoiding the segregation of the concrete during transportation. The speed of the conveyor, independent of the mixer's motor or of the auxiliary motor, ranges from 0 to 3 m/sec.



The belt sliding chute avoids the concrete segregation



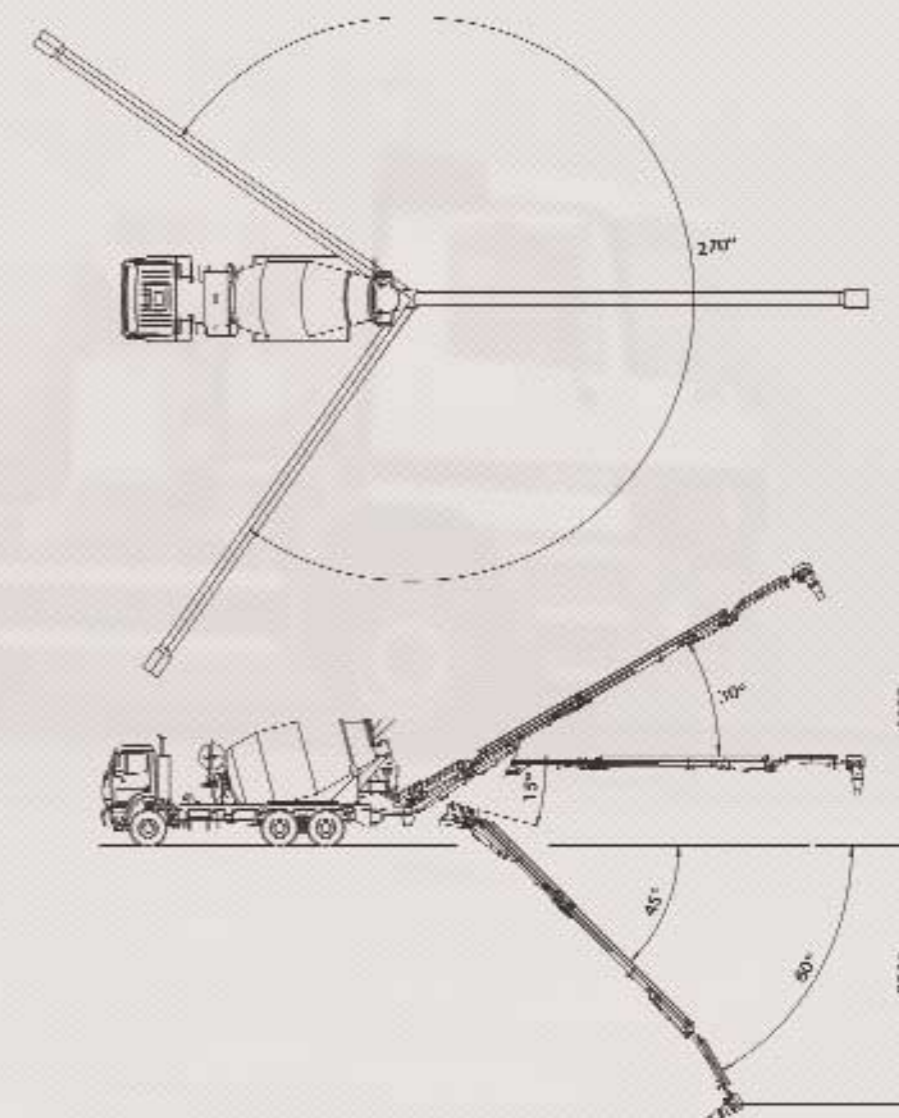
Cardanic conveyor for the easy distribution of concrete



Hose coiler for automatically rewinding the hydraulic hoses during the telescopic element movement



Fixed LT 1500 stabilization



LT 1600 TELESCOPIC BELT CONVEYOR



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The LT 1600 telescopic conveyor is the largest of the whole range and is capable of reaching a maximum extension of 16 metres. The telescopic extension is an element 4 m long. The functional advantage of the LT 1600 belt conveyor lies in the possibility of casting the concrete over a greater area, corresponding to the 4-m extension, without moving the mixer. The conveyor can be used to discharge up to a height of 8 metres, after previously checking the slump of the concrete. In the transportation phase, the LT 1600 is compact and flexible like a traditional conveyor, thanks to a rapid take-up of the telescopic extension element. The conveyor has a delivery rate in the horizontal position of 45 m³/h in a working radius of 280°. The belt runs on a sufficient number of rollers whose movement avoids accumulations of concrete as the belt is running. The belt has a width of 400 mm and runs at speeds ranging from 0 to 3 m/sec.



Swing out gear and releasable traverse



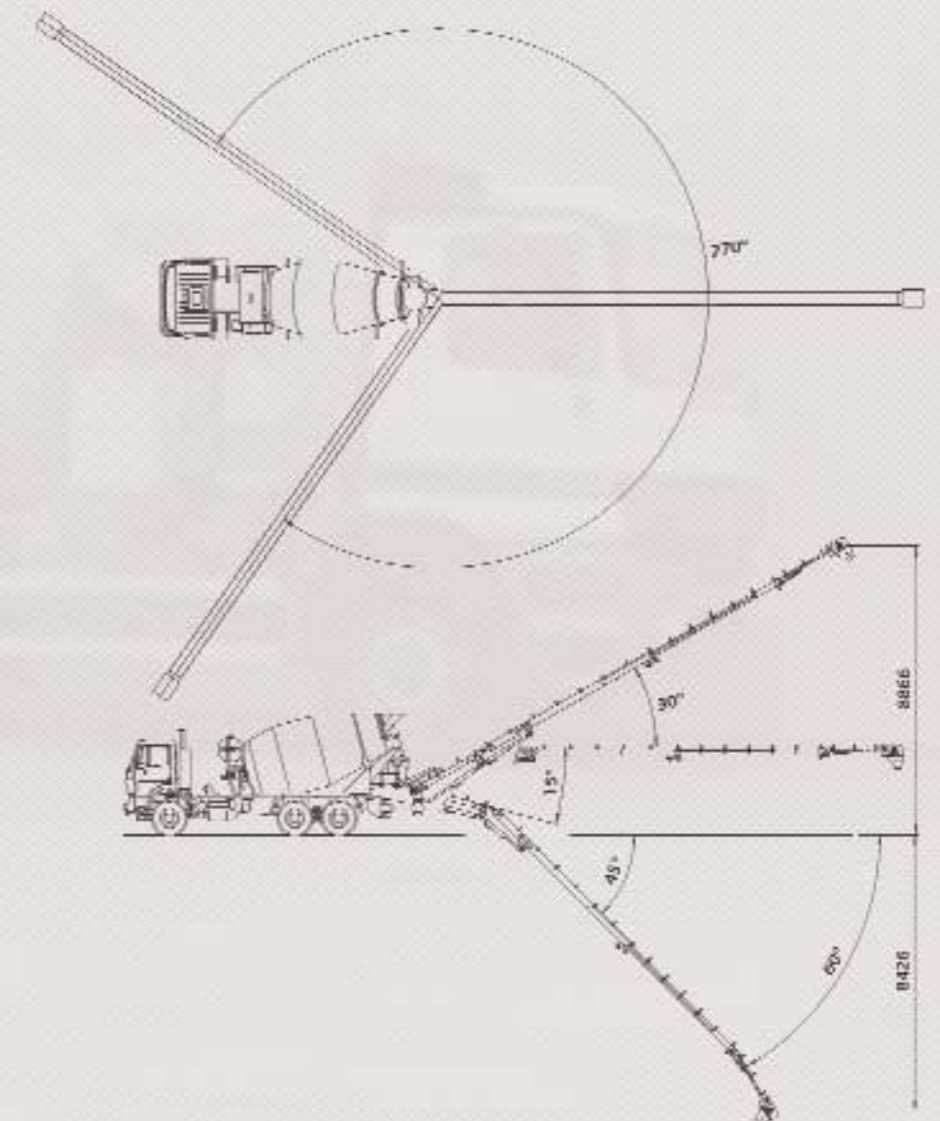
Conveyor belt support: during transport the conveyor belt can be stored on a special support



Conveyor belt oil tank hydraulic unit



Belt sliding rollers



LIFT ON - LIFT OFF® SYSTEM



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With the **LIFT ON - LIFT OFF®** quick detach system the conveyor can be easily removed from the vehicle frame in a few minutes. The disconnecting operation is completely hydraulic: once the circuit is shut off through cut-off joints to avoid oil leakages, the conveyor is separated from the machine by means of fast couplings.

The conveyor is also provided with suitable supports to hold and protect the conveyor from impacts or damage in the work yard. This system, patented by the Truck Mixer and Pump Department of the IMER Group, is extremely reliable and easy to use.

