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31Z-Meter Truck-Mounted Concrete Boom Pump





- 100 ft Vertical Reach
- Maneuverable 5-Section Boom
- Innovative Z-Boom Configuration
- Low 18 ft 9 in (5.73m) Unfolding Height
- Free Flow Hydraulics

Boom The Putzmeister 31Z-Meter truck-mounted concrete boom pump, the first 5-section 100 ft boom on the market. A unique combination "Z" and roll-and-fold boom design provides both additional maneuverability and a very low 18 ft 9 in (5.73m) unfolding height for use under low roofed buildings. In addition, compact dimensions without overhang enable convenient travel while a short outrigger spread makes setup quick and easy.

Delivery Line The boom is equipped with a 5 in delivery line mounted in easy lift-out brackets for simple delivery line replacement. Standardized elbows and straight pipe sections are used for common component availability and easy replacement.

Pedestal The unique pedestal design of the Putzmeister 31Z absorbs all forces as outriggers and boom are within one structural element. This design results in less twist, reduced forces transferred to the truck frame, a small outrigger footprint, low overall weight and quick setup. The boom pedestal includes a rack and pinion slewing system for reduced maintenance costs and access openings to simplify changing the turret pipe. It also incorporates a hydraulic oil tank for improved weight distribution as well as a tool box for convenience. Triple* suction filters with indicator gauges are located in the pedestal for easy access, and a condensation trap is found in the tank to collect water. Two spacious 13 ft (4m) long decks allow convenient storage of pipe and hoses.

OutriggersThe fully hydraulic outriggers with integral cylinders are only 20 ft 8 in (6.3m) in width (front) and 20 ft 8 in (6.3m) in width (front) and 20 ft 8 in (6.3m) in width (rear), allowing operation on congested job sites. Front outriggers diagonally telescope while rear ones swing out with Putzmeister's unique "X" brace outrigger design. Wooden outrigger pads (4) with two side compartments are included with each unit.

Radio Remote Controls Fully proportional HBC radio remote controls are standard for smooth and precise positioning of the boom. Additionally, the unit comes with a backup cable remote box with 130 ft (40m) cable for all boom and pump functions.

Clean Out A 406 psi (28 bar) hydraulically-driven water pump with a 185 gallon (700L) water tank make clean out easy.

Concrete Pump With the same setup, only Putzmeister has the

technology to offer both 210 yd³/hr output and provide 1233 psi concrete pressure (on the rod side).* With competitive designs, you have to decide if you want either high pressure or high volume. Key features include a free flow hydraulic system for smooth controllable pumping as well as hard-chromed concrete cylinders and automatic lubrication of the concrete pistons for long service life. This pump has a fully adjustable volume control which allows very slow pumping while retaining full concrete pressure and boom speed.

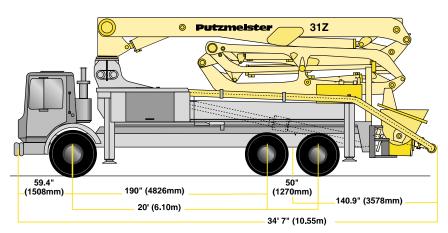
*Refers to .16H pump. Dependent on the application, the .12L pump (with long stroke cylinder) can handle the job - rated at 142 yd³/hr and 1015 psi concrete pressure (on the rod side). Also available is the .20H pump with 260 yd³/hr output and 1233 psi - piston side.

S-Valve Ideal for high pressure applications, our hard faced S-Valve with gradual 8 in to 7 in (200 to 180mm) reduction is designed to handle extremely harsh concrete mixes. A thick-walled valve construction, exclusive Putzmeister hard-chromed concrete cylinders and multi-piece piston cup design provide longer lasting wear overall.



Hopper With a large 19.4 cu ft (550L) capacity, this **EZ Clean Out** RS 905A hopper features a remixer, vibrator and splash guards as standard. A low 51 in (1295mm) hopper height allows easy discharging from a mixer truck.

Specifications31Z-Meter Concrete Pump



Truck-Mounted Specifications

	Based on Model	MACK MR688S
Length	34' 7"	(10.55m)
Width	8' 2"	(2.50m)
Height	12' 10"	(3.90m)
Wheelbase	215"	(5461mm)
Front axle weight	19,041 lbs	(8,636kg)
Rear axle weight	36,239 lbs	(16,436kg)
Approx total weig	ht 55,280 lbs	(25,072kg)

Weights are approximate and include pump, boom, truck, full hydraulic oil, driver and some fuel. Varies with options selected.

Dimensions will vary with different truck makes, models and specifications.

Boom Specifications • Z-Fold Design

neight & Reach		
Vertical reach	100'1"	(30.50m)
Horizontal reach	86'11"	(26.50m)
Reach from front of truck*	79'1"	(24.10m)
Reach depth	67'7"	(20.60m)
Unfolding height	18'9"	(5.73m)
E Castian Dasm		

5-Section Boom 1st section articulation

2nd section articulation		180°
3rd section articulation		240°
4th section articulation		241°
5th section articulation		255°
1st section length 2nd section length 3rd section length 4th section length 5th section length	24'6" 16'8" 16'5" 15'8" 13'8"	(7.48m) (5.08m) (5.00m) (4.78m) (4.16m)
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General Specs

Pipeline size (ID) metric ends	5"	(125mm)
with couplings	5.5"	(140mm)
Rotation		365°
End hose-length (heavy duty)	13'	(4m)
End hose-diameter	5"	(125mm)
Outrigger spread L-R-front	20'8"	(6.30m)
telescopic diagonal		
Outrigger spread L-R-rear	20'8"	(6.30m)
swing-out		-

Pump Specifications 31Z.12L

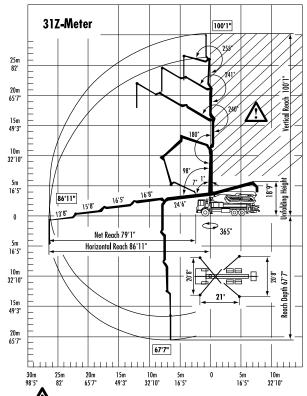
.20H pump also available

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Output-	rod side	142 yd3/hr	(109m3/hr)	210 yd3/hr	(160m ³ /hr)
	piston side	85 yd ³ /hr	(65m ³ /hr)	146 yd ³ /hr	(112m ³ /hr)
Pressure-	rod side	1015 psi	(70 bar)	1233 psi	(85 bar)
	piston side	1624 psi•	(112 bar)•	1885 psi•	(130 bar)•
Concrete of	ylinder diamete	er 9"	(230mm)	9"	(230mm)
Stroke leng	gth	83"	(2100mm)	83"	(2100mm)
Max stroke	es per minute-				
	rod side		21		31
	piston side		13		21
Volume co	ntrol		0-Full		0-Full
Vibrator			Standard		Standard
Hard chror	ned concrete c	ylinders	Standard		Standard
Hydraulic s	system		Free Flow		Free Flow
Hydraulic s	system pressur	e 5075 psi	(350 bar)	5075 psi	(350 bar)
Differential	cylinder diame	eter 5.1"	(130mm)	5.5"	(140mm)
Rod diame	eter	3.1"	(80mm)	3.1"	(80mm)
Maximum :	size aggregate	2.5"	(63mm)	2.5"	(63mm)
Water Tank	<	185 gal	(700L)	185 gal	(700L)

Maximum theoretical values listed.

- * Applies to units mounted on PMA stock truck-MACK MR688S
- Standard delivery line system rated at max line pressure of 1233 psi (85 bar)

Right to make technical amendments reserved.



End hose not to be operated in caution area.



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