42X-Meter Truck-Mounted Concrete Boom Pump

- **138 ft Vertical Reach**
- **Special Telescopic Diagonal X-Outrigger Design for Quicker Setup**
- **Fully Integrated Boom Pedestal**
- **High Volume Outputs and High Pressures**
- **Free Flow Hydraulics**

**Boom** The Putzmeister 42X-Meter truck-mounted concrete boom pump features a compact telescopic diagonal X-outrigger design for quicker and easier setup in the tightest of areas. Plus, this highly versatile 4-section roll and fold boom is mounted on a four-axle chassis for enhanced maneuverability.

**Delivery Line** The boom is equipped with a 5 in induction hardened 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 fully integrated pedestal design of the Putzmeister 42X 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 rotation bearing and access openings to simplify changing the turret pipe. It also incorporates a hydraulic oil tank for improved weight distribution. 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 15 ft 5 in (4.7m) long decks allow convenient storage of pipe and hoses.

**Outriggers** The fully hydraulic telescopic diagonal X-outrigger design allows for quick and easy setup on congested job sites. Compact in width, the front double-acting outriggers diagonally telescope while rear ones swing out. Aluminum outrigger pads (4) with two side compartments are included with each unit.

**Radio Remote Controls** Fully proportional frequency hopping 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 210 gallon (790L) water supply make clean out easy.

**Concrete Pump** With the same setup, only Putzmeister has the technology to offer both 260 yd³/hr output and provide 1233 psi concrete pressure with its .20H pump on the piston side (or 210 yd³/hr output and 1233 psi with its .16H pump - 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.

**S-Valve** Ideal for high pressure applications, our hard-faced “Big Mouth” S-Valve with gradual 9 in to 7 in (230 to 180mm) reduction is designed to handle extremely harsh concrete mixes. A thick-walled valve construction, exclusive Putzmeister hard-chromed concrete cylinders and a multi-piece piston cup design all add up to longer pump performance.

**Hopper** With a larger 19.4 cu ft (550L) capacity, this E-Z Clean Out RS 907A hopper features hard-faced mixer paddles, vibrator and a special hinged splash guard. Besides protecting the unit from splattering during pumping, this unique design conveniently folds down and latches to cover the hopper during transit. Additionally our low hopper height allows for easy discharge from mixer trucks.
Specifications
42X-Meter Concrete Pump

Boom Specifications • Roll and Fold Design

Height & Reach
Vertical reach 136'10" (41.70m)
Horizontal reach 124'8" (38.00m)
Reach from front of truck* 115'9" (35.30m)
Reach depth 92'9" (28.29m)
Unfolding height 32'6" (9.90m)

4-Section Boom
1st section articulation 99˚
2nd section articulation 180˚
3rd section articulation 180˚
4th section articulation 255˚
1st section length 33'4" (10.16m)
2nd section length 30'10" (9.40m)
3rd section length 30'2" (9.19m)
4th section length 30'4" (9.25m)

General Specs
Pipeline size (ID) metric ends 5" (125mm)
with couplings 5.5" (140mm)
Rotation 365˚
End hose-length (heavy duty) 10’ (3m)
End hose-diameter 5" (125mm)
Outrigger spread L-R-front telescopic diagonal 26’3" (8.00m)
Outrigger spread L-R-rear swing-out 29’6" (9.00m)

Pump Specifications

42X.16H 42X.20H
Output-rod side 210 yd³/hr (160m³/hr)
Piston side 146 yd³/hr (112m³/hr)
Pressure-rod side 1233 psi (85 bar)
Piston side 1885 psi (130 bar)
Concrete cylinder diameter 9" (230mm)
Stoke length 83" (2100mm)
Max strokes per minute-rod side 31
Piston side 21
Volume control 0-Full
Vibrator Standard
Hard chromed concrete cylinders Standard
Hydraulic system Free Flow
Hydraulic system pressure 5075 psi (350 bar)
Differential cylinder diameter 5.5" (140mm)
Rod diameter 3.1" (80mm)
Maximum size aggregate 2.5" (63mm)
Water tank - pedestal 40 gal (150L)
- outrigger 170 gal (640L)

* Applies to units mounted on PMA stock truck-Mack MR 688S
• Standard delivery line system rated at max line pressure of 1233 psi (85 bar)

Maximum theoretical values listed.

Right to make technical amendments reserved.

Truck-Mounted Specifications

Based on Model Mack MR 688S with .16H pump cell.
Length 42'10" (13.05m)
Width 8' 2" (2.50m)
Height 13' 1" (4.00m)
Wheelbase 293" (7442mm)
Front axle weight 33,431 lbs (15,178kg)
Rear axle weight 38,961 lbs (17,688kg)
Approx total weight 72,392 lbs (32,866kg)
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.

End hose not to be operated in caution area.

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