55-Meter Truck-Mounted Concrete Boom Pump

- **180 ft Vertical Reach**
- **4-Section Roll and Fold Boom Design**
- **Induction Hardened 5” Delivery Line - All Sections**
- **Standard Auto Lubrication System**
- **Up to 260 yd³/hr Max Concrete Output**
- **Free Flow Hydraulics**

**Boom**  Attaining 180 ft heights, this impressive unit features a 4-section roll-and-fold boom made of high quality, fine-grained steel in a box-type design for enhanced stability.

**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 55M 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 and water tank for improved weight distribution. Triple suction filters with indicator gauges are located outside of the pedestal for easy access, and a condensation trap is found in the tank to collect water. Two spacious decks allow convenient storage of pipe and hoses.

**Outriggers**  All outrigger functions are fully hydraulic with integral cylinders. Front outriggers swing out, telescope and extend down while the rear outriggers swing out and extend down. For extended on-site use, a diesel fuel tank is built into one of the rear outrigger legs and holds up to 185 gallons (700L). Aluminum outrigger pads (4) with two side compartments are included with each unit.

**Radio Remote Controls**  The pump comes standard with radio remote controls, featuring fully proportional boom speed control for smooth and precise positioning of the boom at greater distances. This is an extremely important feature on larger sized models since at their extreme reach, even a small amount of movement can result in a faster moving boom at the end hose.

**Clean Out**  A 406 psi (28 bar) hydraulically-driven water pump with a 238 gallon (900L) water tank and an additional 185 gallon (700L) water tank in one of the outrigger legs 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 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.
Specifications
55-Meter Concrete Pump

Boom Specifications • Roll and Fold Design

Height & Reach
Vertical reach 180' (54.86m)
Horizontal reach 167'4" (51.00m)
Reach from front of truck* 158'9" (48.40m)
Reach depth 135' (41.15m)
Unfolding height 48' (14.63m)

4-Section Boom
1st section articulation 180°
2nd section articulation 180°
3rd section articulation 180°
4th section articulation 210°
1st section length 29'10" (9.10m)
2nd section length 43'6" (13.25m)
3rd section length 46'9" (14.25m)
4th section length 46'11" (14.29m)

General Specifications
Pipeline size (ID) metric ends 5" (125mm)
with couplings (133x4mm)+ 5.5" (140mm)
Rotation 365°
End hose-length (heavy duty) 13' (4m)
End hose-diameter 5" (125mm)
Outrigger spread L-R–front 34'9" (10.60m)
Outrigger spread L-R–front swing out & telescope 34'9" (10.60m)
Outrigger spread L-R–rear swing out 32'9" (9.98m)

Pump Specifications
55.16H 55.20H
Output- rod side 210 yd³/hr (180m³/hr)
piston side 146 yd³/hr (122m³/hr)
Pressure-rod side 1233 psi (85 bar) —
piston side 1885 psi (130 bar)• 1233 psi (85 bar)•
Concrete cylinder dia. 9" (230mm) 11" (280mm)
Stroke length 83" (2100mm) 83" (2100mm)
Max strokes per minute- rod side 31 —
piston side 21 28
Volume control 0-Full 0-Full
Vibrator Standard Standard
Hard chromed concrete cylinders Standard Standard
Hydraulic system Free Flow Free Flow
Hyd. system pressure 5075 psi (350 bar) 5075 psi (350 bar)
Differential cylinder dia. 5.5" (140mm) 5.5" (140mm)
Rod diameter 3.1" (80mm) 3.1" (80mm)
Maximum size aggr. 2.5" (63mm) 2.5" (63mm)
Water tank - pedestal 238 gal (900L) 238 gal (900L)
- outrigger 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)
• Only delivery line 133x4 mm is to be used on the 55 Meter boom

Truck-Mounted Specifications
Based on Model MACK MR688S
Length 49' 3" (15.00m)
Width 8' 2" (2.50m)
Height 12'11" (3.94m)
Wheelbase 309" (7.849mm)
Front axle weight 53,395 lbs (24,217kg)
Rear axle weight 51,540 lbs (23,375kg)
Approx. total weight 104,935 lbs (47,592kg)

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.