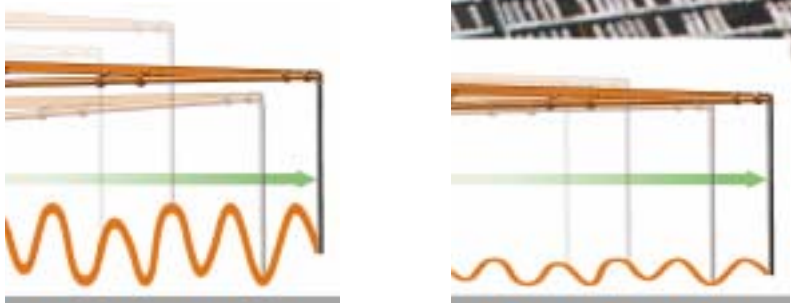


# Ergonic Boom Control (EBC)



## For safe, quick and simple concrete pumping with top laydown rate

The Ergonic Boom Control (EBC) option ensures a considerably safer and quicker operation. The steady and precise positioning of the end hose when raising or lowering accelerates, for example, work in permanent formwork providing a distinctly higher and more efficient laydown rate. The same applies for positioning the end hose when reinforcing large-scale foundations. This EBC advantage becomes particularly apparent when used in combination with the concreting stop option.



**Without EBC:**  
„Stop-and-go“ operations when operating and turning any placing boom plus pump pulsations cause varying degrees of deflection on the end hose.

**With EBC:**  
EBC reduces the vertical movements of the boom to approximately one-third and at the same time absorbs pulsations on the end hose in all directions.

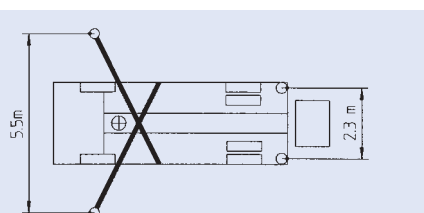
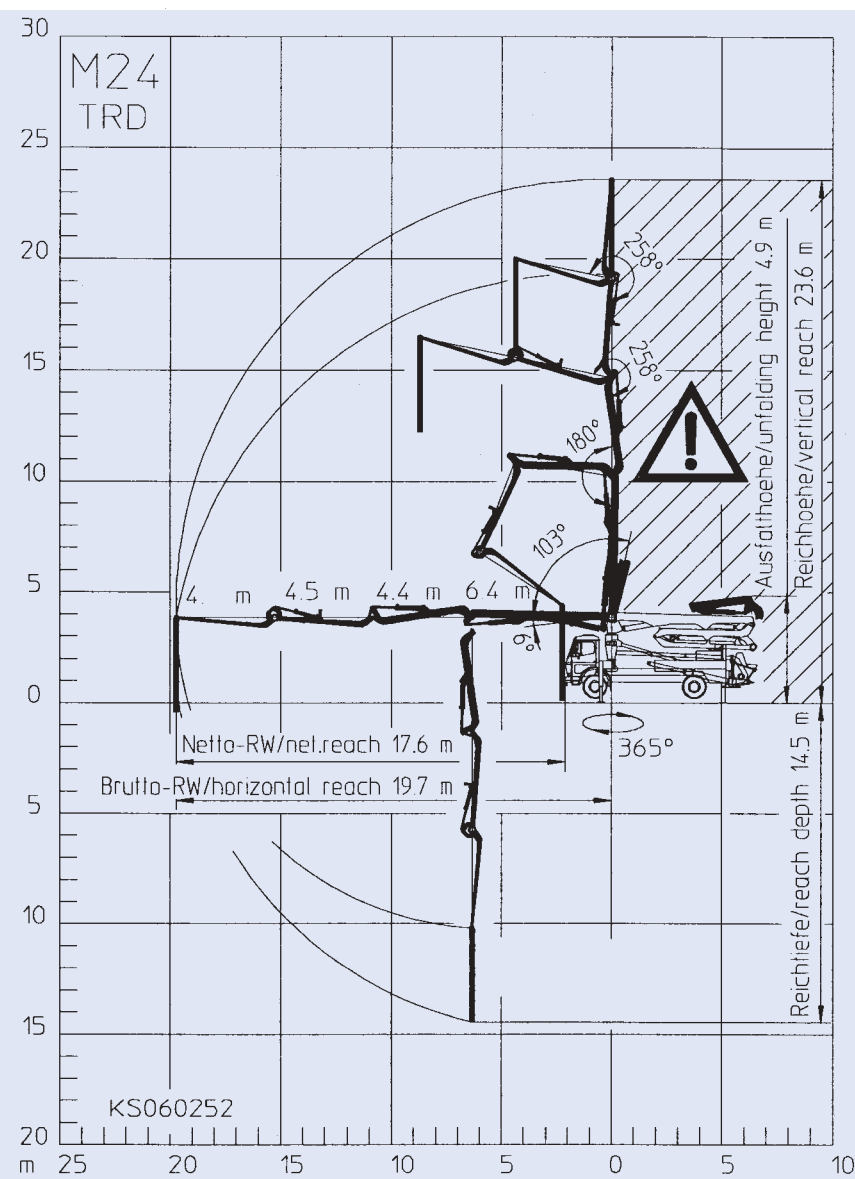
- The benefits of EBC:**
- Single-hand operation via the joystick is simple and quick to learn. It is operated in EBC mode only in one direction, instead of controlling each individual boom arm.
  - Spot-on and rapid approach of supports, reinforced openings, formwork etc. saves time when frequent site relocation is required. Features which allow the concrete pump to effectively provide high laydown rates.
  - The end hose is operated horizontally at a constant height independent of the truck set-up inclination.

- In the case of pre-selected EBC operation, boom operation is automatically damped. In pumping operations (without boom operation), damping must be activated via the left joystick. Independent of delivery output, EBC compensates any vibrations in the placing boom. The end hose is still and can be guided more easily allowing optimum placing of concrete without any splatter – an enormous benefit for the operator at the end of the hose.
- In large booms (from 40 m), the EBC also compensates any torsional vibration.
- A limited working range ensures easier operations in low buildings, on bridges, under electric cabling and similar sites.
- Work load is reduced for the operator and this means increased safety.
- Should the operator be absent, the work can easily be taken over by a substitute driver.
- Change-over to conventional control can be made at any time.
- For arm 1 and 4 preferred positions can be chosen and taught in.
- Diagnostic interfaces facilitate maintenance as current status data for the machine can be read from the display.

# Truck-mounted concrete pump M 24



## The Specialist and Allrounder – high-degree utilisation in halls, tunnels and on small-scale sites



**Technical data**

**Boom M 24**

Folding type	4-section Z-roll fold (ZR)
Vertical reach	23.6 m
Horizontal reach	19.7 m brutto
Depth of reach	14.5 m
Unfolding height	4.9 m
Length end hose	4 m
Delivery lines	DN 125 max. 85 bar
Slewing range	365°
Support width front/rear	5.5 m/2.3 m

**Pump BRF .16 H LS / BSF .16 H LS**

Output	160 m³/h
Concrete pressure	85 bar
Delivery cyl.-ø /-stroke	250/2100 mm
Strokes/min	26

**Pump BRF .16 H / BSF .16 H**

Output	160/108* m³/h
Concrete pressure	85/130* bar
Delivery cyl.-ø /-stroke	230/2100 mm
Strokes/min	31/21*

**Pump BSF .14 H**

Output	140/88* m³/h
Concrete pressure	70/112* bar
Delivery cyl.-ø /-stroke	230/2100 mm
Strokes/min	27/17*

**Pump BRF .11 H LS / BSF .11 H LS**

Output	110 m³/h
Concrete pressure	85 bar
Delivery cyl.-ø /-stroke	250/1400 mm
Strokes/min	27

**Pump BRF .11 H / BSF .11 H**

Output	110 m³/h
Concrete pressure	78 bar
Delivery cyl.-ø /-stroke	230/1400 mm
Strokes/min	32

**Pump BRF .09 H / BSF .09 H**

Output	90 m³/h
Concrete pressure	78 bar
Delivery cyl.-ø /-stroke	230/1400 mm
Strokes/min	26

All information given is max. theoretical.  
\* (rod side / piston side). Max. output and max. concrete pressure cannot be operated simultaneously.



**Putzmeister Products and Services:**

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- PM Systems Engineering PAT
- PM Telebelt
- PM Mörtelmaschinen GmbH
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- PM Services
- PM Concrete Project Division CPD
- PM Consulting and Data Technology PCD
- PM Academy

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# The M 24 allows maximum horizontal reach wherever and whatever its application

## Small dimensions, great advantage

Even small and cramped construction sites can be cost-efficiently interesting – it's just a question of using the right pump. The main convincing features of the M 24 are its compact size and extremely flexible boom. Thanks to an efficient pumping technique and a comprehensive range of accessories, it is the Number One favourite for cost-efficient pours in halls, under bridges, in tunnels and wherever conditions are cramped and high performance is a must.

## Concreting even in the most cramped conditions – thanks to minimum space requirements and a flexible boom

- Low unfolding height of just 4.90 m
- Minimum support width 5.50 m to the front (diagonal supports) and just 2.30 m to the back
- Z-roll fold – ideal for deployment in low-roofed halls, in tunnels and under bridges
- Extremely manoeuvrable due to the large angular movement of the four boom sections
- Can concrete right up to just in front of the driver's cabin
- Ready for concreting as soon as the boom assembly is lifted



Surpasses all others for placing concrete in halls – thanks to low unfolding height and flexible Z-roll fold



Surpasses all others when placing concrete in tunnels – thanks to its small set-up size and great manoeuvrability



Long net reach in low-roofed halls, tunnels etc.

# The small set-up area of the compact and manoeuvrable truck lends the M 24 a particularly high degree of versatility



The allrounder on small construction sites



Loading and unloading of pipes and hoses is very simple using a hydraulically-lowered container

## Full speed ahead on either two or three axles

- No overhang on truck
- Can be mounted onto any 2-axle chassis (up to 18 t overall weight)
- A 3-axle chassis allows spacious side skirts and magazines to be mounted to accommodate pipelines, hoses and a whole range of comprehensive accessories.
- Low weight is easy on the vehicle and increases its service life.\*
- The large weight reserves allow a second tank to be mounted.\*
- The short wheel base means the M 24 is particularly manoeuvrable in road traffic and on construction sites\*.

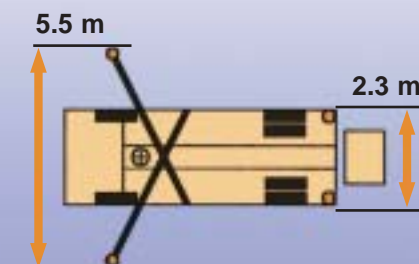
\* refers to 3-axle chassis



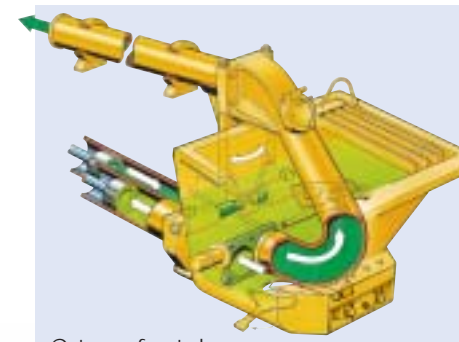
A 3-axle chassis allows special-purpose magazines and storage compartments to be attached



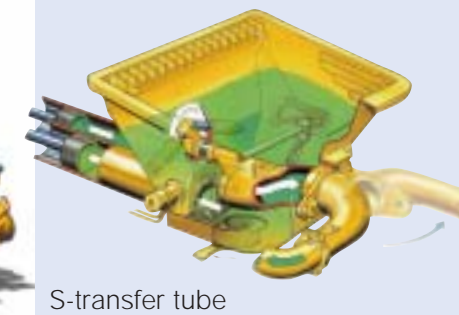
Low unfolding height: just 4.90 m



Support width: front just 5.50 m, rear just 2,30 m (width of truck)



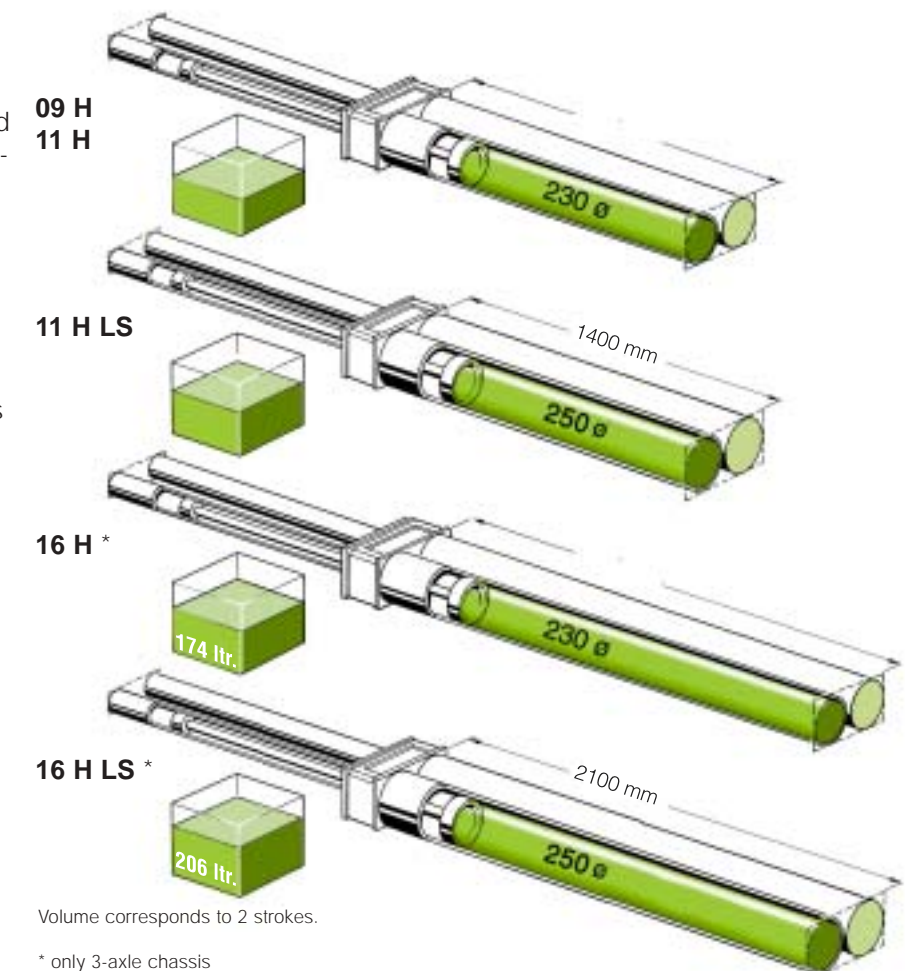
C-transfer tube



S-transfer tube

## Large-volume pumps mean less wear plus optimal fill level

Large cylinder volumes have stood the test of time. That means reduced change-over frequencies and wear plus increased smooth running. Fewer change-over frequencies also mean a vibration-free boom. The decisive factor is not a longer cylinder but a larger diameter with a corresponding stroke. Thus, less intake resistance. Fewer fine particles are exhausted and difficult concretes retain their pumpability at a higher fill level.



Volume corresponds to 2 strokes.

\* only 3-axle chassis