



**Putzmeister**



Underground equipment:  
Tunneling and Mining



# WHO WE ARE, WHAT WE DO

Putzmeister is an international group based in Stuttgart, Germany, with more than 60 years of experience in the construction and public of works sector, and worldwide leader in the development and manufacture of concrete pumping equipment.

Applying our know-how in concrete pumping, for more than 30 years Putzmeister has been designing, developing and producing concrete spraying equipment for mines and tunnels.

The experience acquired over these years together with ongoing investment in research and development have made Putzmeister a leading company in this field of application. We expand our product range for underground works, offering state-of-the-art equipment for saving costs and time, always with safety first.



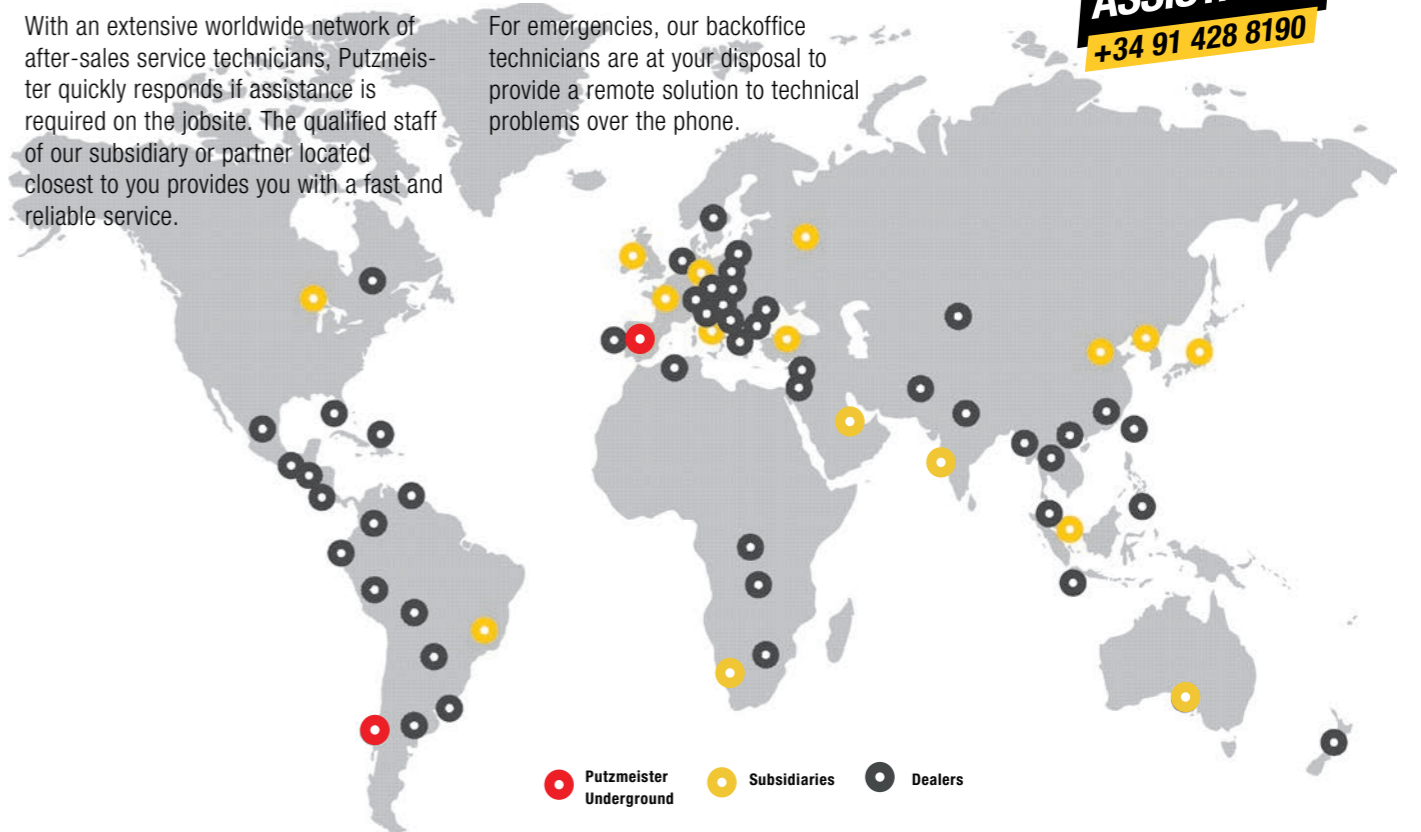
## Complete technical assistance

**24x7**  
**TECHNICAL ASSISTANCE**  
+34 91 428 8190

### OUR TECHNICAL SERVICE AT YOUR DISPOSAL

With an extensive worldwide network of after-sales service technicians, Putzmeister quickly responds if assistance is required on the jobsite. The qualified staff of our subsidiary or partner located closest to you provides you with a fast and reliable service.

For emergencies, our backoffice technicians are at your disposal to provide a remote solution to technical problems over the phone.



### OWN TECHNOLOGY

The main components of Putzmeister equipment are designed, developed and manufactured in-house.

### PUTZMEISTER CONCRETE PUMP

Putzmeister has been world famous as the manufacturer of **concrete pumps** par excellence. The concrete pump mounted on the equipment is specially designed for concrete spraying, guaranteeing high performance, low pulsations and a long life for the wear parts.

### ROBUST CHASSIS

**The chassis** is designed to meet underground demands and made of high resistance steel to stand the harshest working conditions. Its 4-wheel-drive, 4-wheel steering and crab-mode provide manoeuvrability in difficult driving situations.

### SPRAYING ARM

The **spraying arm** of our shotcrete equipment is specially designed for this application, providing the operator with maximum functionality and ergonomic operation.

### SOFTWARE

The intuitive control software allows a **perfect synchronisation** between the equipment elements involved in the operation.

### TRAINING

We believe that "success is what you prepare for", so our courses are tailored to each customer's needs, always with the aim of getting the most out of our technology and working as safely and efficiently as possible. Investing in them not only increases safety on site, but also optimises processes, improves quality and reduces operating costs and downtime.

- MAINTENANCE COURSE
- EQUIPMENT OPERATION COURSE
- SHOTCRETE APPLICATION COURSE

### SPARE PARTS

We know that availability of parts is essential to keeping machines running and ensuring project efficiency and productivity. With both our own warehouses as well as a stock of spare parts from our distributors around the world, we can ensure the availability of parts and maintain a high level of service for our customers. To ensure the highest level of availability of parts in a project, especially in locations that are remote from supply vendors, we offer spare parts containers configured in accordance with the features of your machinery park.





# Tunneling and mining solutions

## CONCRETE SPRAYING EQUIPMENT

**SPM 500**  
WETKRET

**WETKRET 5**

**WETKRET 4**

**SPM 4210**  
WETKRET

**WETKRET 2**  
NARROW VEIN

**WETKRET 3**

**SPM 715** | **P720 Synchro**  
SYNCHRO



Dimensions (L x W x H)	7,850 x 2,400 x 3,000 mm	8,800 x 2,400 x 3,000 mm	7,500 x 1,900 x 2,350 mm	7,100 x 2,000 x 2,500 mm	7,360 x 1,409 x 2,295 mm	4,668 x 1,870 x 2,292 mm	4,800 x 1,491 x 1,916 mm*
Max. spraying reach (Ver./ Hor.)	17 m / 15 m	17 m / 15 m	8.5 m / 8 m	10 m / 8.5 m	7.5 m / 6.5 m	8.79 m / 7 m	Manual or with Wetkret 3
Output (theor.)	4 - 30 m³/h at 75 bar	4 - 33 m³/h at 75 bar	4 - 20 m³/h at 70 bar	4 - 20 m³/h at 65 bar	4 - 10 m³/h at 40 bar	-	Up to 21 m³/h at 80 bar
Additive pump	30 - 700 l/h	Tornillo, 100 - 1,200 l/h	60 - 500 l/h	60 - 500 l/h	60 - 400 l/h	60 - 500 l/h (optional)	4 - 400 l/h
Compressor	11 m³/min (optional)	11 m³/min	up to 9.6 m³/min (optional)	6.8 m³/min (optional)	-	-	-
Speed	20 km/h	16 km/h	20 km/h	20 km/h	10 km/h	3.6 km/h	Trailer or stationary version
Diesel engine	70 kW, Stage III	119 kW, Stage III	106 kW, Stage III or 85 kW, Stage V	55 kW, Stage III or 72 kW, Stage II	106 kW, Stage III	19.7 kW, Stage III or 18.4 kW, Stage V	Diesel or electric version

Compact crawler chassis with frontal support legs an optional tilting system +/- 30°

\*P720 TD version

## SHOTCRETE LOGISTICS

**MIXKRET 3**

**MIXKRET 4**

**MIXKRET 5**

**MIXKRET 6**



Dimensions (L x W x H)	6,531 x 1,970 x 2,354 mm	6,730 x 2,200 x 2,500 mm	7,515 x 2,200 x 2,500 mm	7,688 x 2,365 x 2,710 mm
Max. Concrete capacity	3 m³	4 m³	5 m³	6 m³
Diesel engine	106 kW, Stage III	130 kW, Stage III or V	168 kW, Stage III	168 kW, Stage III or 150 kW, Stage V
Speed	20 km/h	20 km/h	20 km/h	25 km/h, Stage III or 20 km/h, Stage V
Chassis	Robust with heavy-duty axles	Robust with heavy-duty axles	Robust with heavy-duty axles	Robust with heavy-duty axles
Transmission	Hydrostatic progressive system with continuous variation	Hydrostatic progressive system with continuous variation	Hydrostatic progressive system with continuous variation	Hydrostatic progressive system with continuous variation
Cabin	FOPS/ROPS certified, closed optional	FOPS/ROPS certified, closed optional	FOPS/ROPS certified, closed optional	FOPS/ROPS certified, closed optional

## SHOTCRETE SCANNER **GEOKRET 2.0** Developed in collaboration with *Leica*



Optimizes operator safety by guaranteeing the minimum thickness required

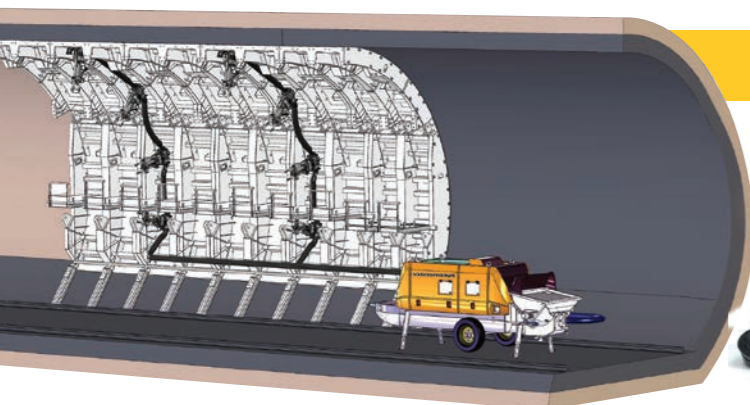
Fast and intuitive, this scanner has been developed to be easily used in daily operation

Saves unnecessary costs due to loss of material or coring time

Highly accurate and flexible system

## FORMWORK FILLING

## FORMKRET



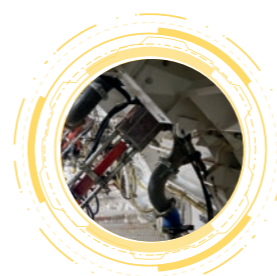
Formkret + Putzmeister BSA 1408 E + All needed accessories



Less manual labour required



Agile and compact structure allows simultaneous works



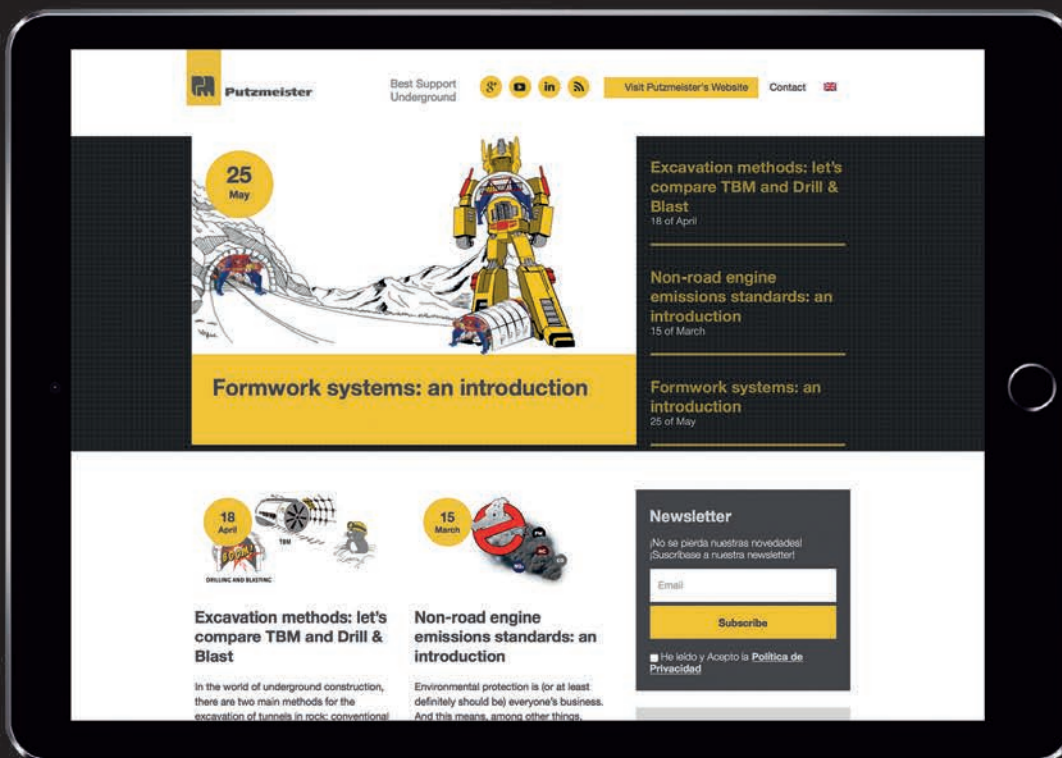
Rigid pipe provides for greater durability

# Putzmeister Underground Technology

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[Bestsupportunderground.com](http://Bestsupportunderground.com)

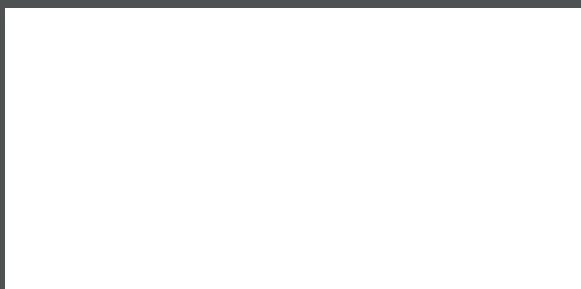
Shotcrete in underground mining  
and much more...



This is a merely informative, non-binding document. Maximum theoretical values listed. Specifications are subject to change without prior notice. Photos and drawings are for illustrative purposes only. For available options, please consult the factory.

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