

Shotcrete Equipment Specifications

Performance	TK 10	TK 20	TK 50	TK 60HP	SPM 307
Max volume output	7 yd ³ /hr (4.6m ³ /hr)	17 yd ³ /hr (13m ³ /hr)	54 yd ³ /hr (41m ³ /hr)	60 yd ³ /hr (46m ³ /hr)	-
Max concrete pressure	2085 psi (144 bar)	2000 psi (138 bar)	1150 psi (79 bar)	1450 psi (100 bar)	-
Max aggregate size	0.75" (19mm)	1" (25mm)	1.5" (38mm)	1.5" (38mm)	-
Max spraying height	-	-	-	-	25' (7.62m)
Max spraying width	-	-	-	-	35' (10.67m)
Technical Information					
Process type	Wet	Wet	Wet	Wet	Wet and Dry
Material cylinders	3" x 24" (76x610mm)	4.5" x 30" (114x762mm)	6" x 39" (150x1000mm)	6" x 39" (150x1000mm)	-
Max strokes/min	36	31	43	48	-
Variable volume control	0 to full	0 to full	0 to full	0 to full	-
S-Valve (cast)	3" x 3" (76x76mm)	4.5" x 4" (114x101mm)	6" x 5" (150x125mm)	6" x 5" (150x125mm)	-
Number of shift cylinders	1	1	2	2	-
Hydraulic tank capacity	37 gal (140L)	38 gal (144L)	38 gal (144L)	38 gal (144L)	30 gal (114L)
Hopper height	48" (1219mm)	49" (1245mm)	49" (1245mm)	49" (1245mm)	-
Hopper capacity	8 cu ft (227L) 15 cu ft (425L) Optional	9.5 cu ft (270L) 17 cu ft (480L) Optional	9.5 cu ft (270L)	9.5 cu ft (270L)	-
Outlet diameter	3" HD (76mm)	4" HD (101mm)	5" HD (127mm)	5" HD (127mm)	-
Operator controls	-	-	-	-	Wireless radio remote control, cable also included.
Power					
Manufacturer's model	Deutz D2011L04i Diesel Engine	Deutz TD2011L04i Diesel Engine	Deutz TCD2012L04m	Deutz TCD2012L042V	460v/60hz electric motor – boom/nozzle Water-cooled diesel engine – tracks/outrigger
Horsepower	61 hp (45kW)	68 hp (51kW)	96 hp (72kW)	131 hp (98kW)	7.5 hp (5.5kW) – boom/nozzle 27 hp (20kW) – tracks/outrigger
Fuel tank capacity	15 gal (56L)	22 gal (83L)	26 gal (98L)	26 gal (98L)	14 gal (53L)
Mounting					
Style	Single axle trailer	Single axle trailer	Single axle trailer	Single axle trailer	Heavy-duty Caterpillar® track with two-speed control
Axle capacity	5200 lbs (2358kg)	7000 lbs (3175kg)	7000 lbs (3175kg)	7000 lbs (3175kg)	-
Tires	ST 225/75R15D	LT 235/85R16G	LT 235/85R16G	LT 235/85R16G	-
Brakes	Electric	Electric	Electric	Electric	-
Outriggers	Manual	Manual	Manual	Manual	Hydraulic
Dimensions					
Length	148" (3.75m)	174" (4.42m)	191" (4.85m)	191" (4.85m)	158" (4.01m)
Width	64" (1.62m)	74.5" (1.89m)	74.5" (1.89m)	74.5" (1.89m)	62" (1.58m)
Height	62" (1.57m)	70" (1.78m)	71" (1.80m)	71" (1.80m)	88" (2.24m)
Weight (approx)	4000 lbs (1814kg)	4800 lbs (2177kg)	6000 lbs (2720kg)	6400 lbs (2900kg)	4500 lbs (2042kg)

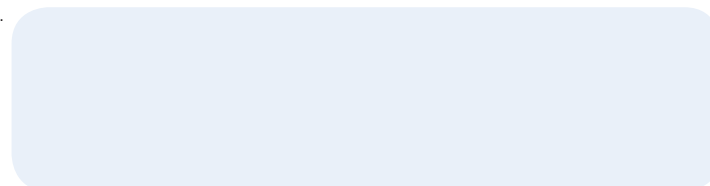
Maximum theoretical values listed. Note: Maximum output and pressure cannot be achieved simultaneously. Specifications subject to change without prior notice. Weights vary with options selected. Photos for illustrative purposes only. Refer to your operational manual for safe and proper equipment operation.

For available options, please contact the factory.



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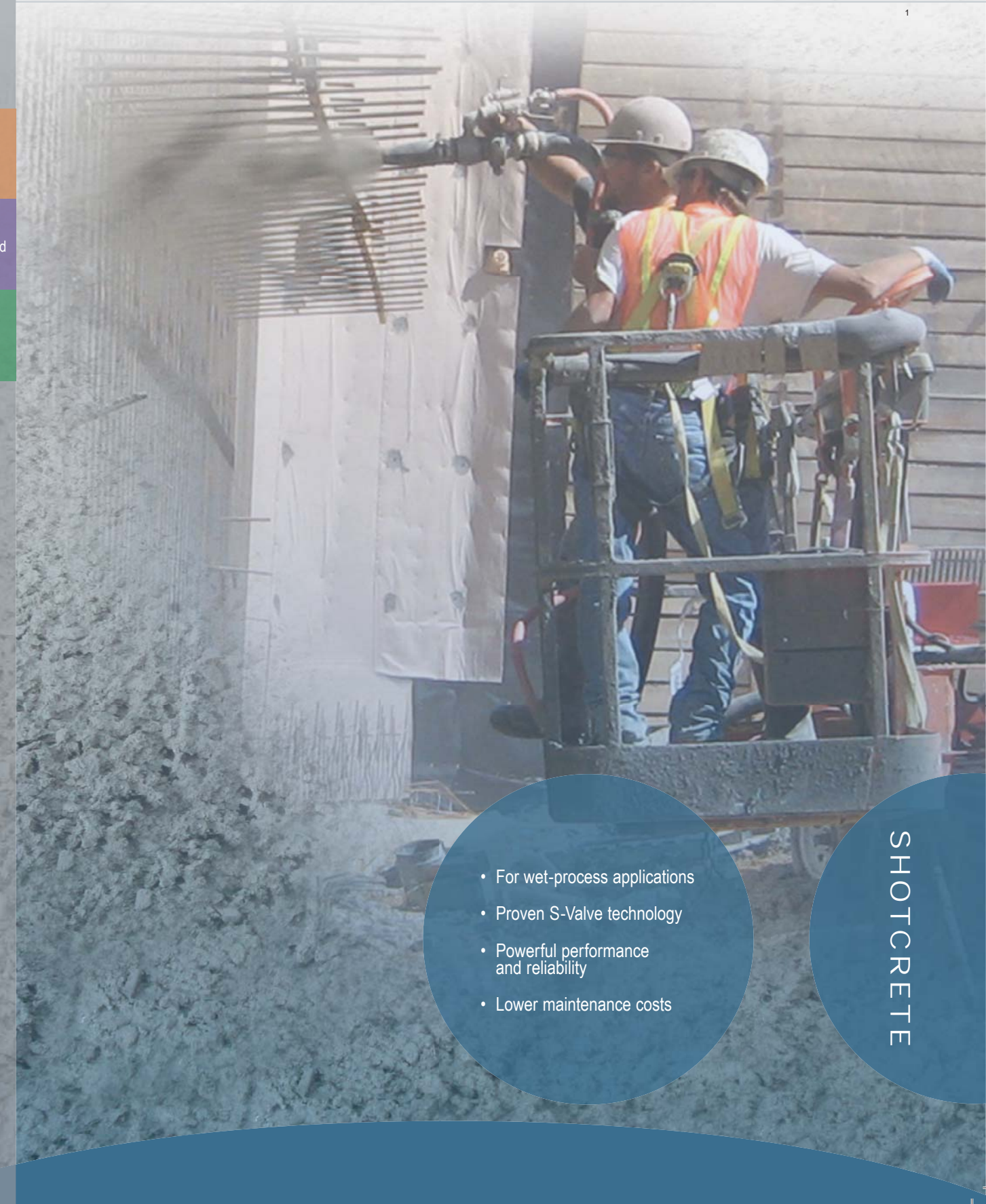
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Shotcrete Equipment High Pressure Shotcrete/Concrete Pumps



Refractory	Refractory
Underground	Underground
Civil	Civil



- For wet-process applications
- Proven S-Valve technology
- Powerful performance and reliability
- Lower maintenance costs

SHOTCRETE

GIVE DEMANDING APPLICATIONS YOUR BEST SHOT.

Respected worldwide, Putzmeister combines its leading concrete pumping and material placing equipment with the shotcrete technology expertise of Allentown to provide the world's most comprehensive offering of sprayed concrete equipment. Ideal for wet- and dry-process shotcrete applications in **Refractory**, **Underground** and **Civil** industries, the Putzmeister family of powerful shotcrete equipment is designed to deliver exceptional performance and durability. Whether you have a large or small application, Putzmeister has the right shotcrete solution for you.

In addition, Putzmeister and Allentown offer a wide range of wet- and dry-process accessories to enhance the performance of your shotcrete equipment. The full line of accessories includes: hoses and couplings, nozzles, dosing pumps, reducers and pipeline, clamps, water booster pumps, pumping agents and special accessories.

▶ THOM-KATT® TK 10



The Thom-Katt TK 10 fills the void between small-line mechanical ball valve pumps and 5" (127mm) to 6" (152mm) cylinder-diameter concrete pumps. Its 3" (76mm) material cylinders and variable, smooth hydraulics allow extremely-controlled low output for specialized wet-process shotcrete applications.

- Rated for up to 7 yd³/hr (4.6m³/hr)
- Up to 2,085 psi (144 bar) pressure
- Swing-tube design permits reversing to relieve pressure from plugs, pumping difficult low slump or fiber mixes; this lowers maintenance costs
- Maintains output pressure when reducing to smaller diameter conveying lines
- Trailer-mounted standard, forklift skid-mounted option available



▶ THOM-KATT® TK 20



Ideal for mid-range pumping requirements, the high-pressure Thom-Katt TK 20 is chosen for a broader range of wet-process shotcrete applications than any other model. It provides superb control for critical geotechnical and compaction grouting applications.

- Rated for up to 17 yd³/hr (13m³/hr)
- Up to 2,000 psi (138 bar)
- Provides the smoothest delivery and least pulsation of any shotcrete machine available today
- Easily handles harsh mixes, including low cement, low moisture and refractory pumping castables
- Large 9.5 ft³ (270L) capacity hopper makes projects more efficient
- Fed by ready mix truck, on-site mixer, optional 13 ft³ (368L) integrated batch mixer or continuous mixer
- Optional integrated mixer hydraulically lifts and dumps into hopper and is ideal for site or pre-packaged mixes
- Trailer-mounted standard, forklift skid-mounted option available



▶ THOM-KATT® TK 50



The Thom-Katt TK 50 offers a powerful performance and rugged reliability, handling the harshest mixes and tackling a variety of wet-process shotcrete applications.

- Rated for up to 54 yd³/hr (41m³/hr)
- Water-cooled 96 hp (72kW) Deutz engine
- Angled hopper is easy to fill, clean and maintain
- Hard-faced S-Valve and wear ring reduce operating and replacement costs
- Gradual reduction from hard-chromed material cylinders to the outlet for even flow and longer life
- Trailer-mounted standard, forklift skid-mounted option available



▶ THOM-KATT® TK 60HP



Ideal for wet-process shotcreting in refractory, underground and civil applications, the Thom-Katt TK 60HP is a high-pressure model that delivers maximum volume output.

- Rated for up to 60 yd³/hr (46m³/hr)
- Maximum concrete pressure up to 1,450 psi (100 bar)
- Features a powerful 131 hp (98kW) engine
- Smooth operation with twin-shifting cylinders
- S-Valve technology for reliable and long-lasting performance
- Rugged construction and angled hopper
- Trailer-mounted standard, forklift skid-mounted option available



▶ SPM 307



This Robotic Nozzle Manipulator is a track-mounted mobile spraying unit designed for automating the application of shotcrete for wet- and dry-process in underground work. This machine is ideal for slope protection or for tunneling where a smaller manipulator is necessary.

- Used with any concrete or shotcrete pump
- Water-cooled 27 hp (20kW) diesel engine for track and outrigger operation
- 7.5 hp (5.5kW) 460V/60hz electric motor for boom and nozzle operation when power is available
- Accommodates larger nozzle sizes of 2.5" (65mm) or 3" (80mm), allowing higher rates of shotcrete application
- Achieves maximum spraying height of 25' (7.62m) and 35' (10.67m) side to side
- Keeps nozzleman at a safe distance from newly exposed rock and prevents nozzleman fatigue
- Wireless radio remote control standard, cable also included for sites where wireless is not allowed

