

PC Super Shovel

KOMATSU®



Service Weight
140 t to 685 t

Bucket Capacities

Shovels
10,4 m³ to 35,0 m³
SAE 2:1 heaped

Backhoes
9,5 m³ to 33,0 m³
SAE 1:1 heaped

Main Drive
Diesel
565 kW to 2780 kW
Electric
900 kW to 2700 kW



PC Super Shovel

SPECIFICATIONS

HYDRAULIC MINING SHOVEL
PRODUCT RANGE

Specifications

Distinctive excavators from Komatsu – Super Shovels from **140 t** to **685 t**.

The Komatsu Super Shovel product line brings the best of innovative developments to Operator Comfort, Reliability and above all, High Productivity.

Productivity

Each shovel is matched to the appropriate range of haul trucks. Powerful attachments and bucket design make productive digging easier. A comprehensive range of high hardness plates and quick change mechanical wear parts complement the strong box section construction of all Komatsu buckets. Shovel cylinders are placed under the attachment structure for protection.

Model	PC 1400	PC 1800	PC 3000
Front Shovel and Backhoe			
Shovel weight	140 t	180 t	240 t
Shovel capacity			
SAE/CECE 2:1 heaped	10.4 m ³	10.5 m ³	14.0 m ³
1:1 heaped	12.0 m ³	12.1 m ³	16.8 m ³
Break-out force	660 kN	735 kN	1000 kN
Crowd force	660 kN	770 kN	1100 kN
Backhoe capacity			
SAE 1:1 heaped	9.5 m ³	12.0 m ³	14.0 m ³
Break-out force	500 kN	626 kN	770 kN
Tear-out force	500 kN	574 kN	780 kN
Diesel engine	Cummins VTA 28-C-800	2 x Komatsu SAA6D140E-2	Cummins K 1500 E
Rated brake power	565 kW	2 x 338 kW	940 kW
Electric motor	—	—	900 kW
Rated output	—	—	900 kW
Hydraulic output			
Total flow	1650 l/min	2300 l/min	2700 l/min
Track shoes			
Standard	600 mm	810 mm	800 mm
Optional	800 mm	1010 mm	1000 mm

Reduced Operating Costs




Over 7 million recorded service hours in the over 120 t hydraulic shovel classes give Komatsu a unique experience to design in reliability. The simple basic design, most often using a single engine, uses less components to make service quicker and easier, improving uptime.

Convenience

A well elevated cab with a large glass area gives the operator an excellent field of view for truck spotting. Carefully positioned handrails and self cleaning walkways aid personal security. The enclosed walk-in machinery house has wide internal gangways which allow easy access and the hydraulic pumps are partitioned from the engine.

Operator's Cab

Light to use joysticks, easily understood instruments and the latest technology in seating aid full shift operator efficiency. Resilient engine mounting blocks, cab mounting and insulation reduces cab interior noise. The operator is well informed about the operational conditions of his machine through the ETM/ECS data monitoring systems and the service technician can down-load this information for service analysis.

PC 4000	PC 5500	PC 8000
		
362 t	490 t	685 t
21.0 m ³ 23.5 m ³	25.0 m ³ 30.0 m ³	35.0 m ³ 42.0 m ³
1250 kN 1330 kN	1600 kN 1700 kN	2320 kN 2320 kN
22.0 m ³	28.0 m ³	33.0 m ³
1155 kN 1050 kN	1400 kN 1270 kN	1600 kN 1600 kN
Cummins QSK 60 1400 kW	2 x Cummins K 1500 E 2 x 940 kW	2 x 3516 EUI 2 x 1390 kW
1350 kW	1800 kW	2 x 1350 kW
4140 l/min	4380 l/min	7200 l/min
1200 mm 1500 mm	1350 mm 1800 mm	1500 mm 1900 mm

Super Shovel



Komatsu Mining Germany was formed by Komatsu Ltd. of Japan, to manufacture and support the range of Large Hydraulic Mining Shovels and Large Excavators.

The Product

Mining Shovel and Backhoe attachments are offered for each machine. Sustained digging power throughout the digging range ensures high productivity.

Diesel or Electric drive units are available to power a simple hydraulic system for all operations of these large machines (see specifications).

The Quality

In-house design and manufacturing quality ensure a machine for rugged mining operations. Components are designed for high production, easy maintenance and extended reliability.

Field experience and finite element analysis expertise combines to bring ever more reliable standards in structural design.

Plenty of wide walkways and generous space makes service checks easier and quicker.

Electronic data logging provides control information constantly to the operator and can be down-loaded to an outside data base.



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Featured machines may include optional or special equipment. Materials and specifications are subject to change without notice.