



HPC Specifications

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	HPC-10	HPC-40	HPC-100	HPC-200	HPC-400
Capacity (tons/hour – bank run)	10	40	100	200	400
Target Applications	Exploration Bulk Sampling Artisan mining Recreational use	Small alluvial / placer operations Sand and gravel operations Project evaluation / viability analysis of large operations	Mid-sized placer operations Pre-concentration in Hard Rock circuits Reprocessing of tailings dumps	Mid-sized placer operations Pre-concentration in Hard Rock circuits Reprocessing of tailings dumps	Large placer operations Pre-concentration in Hard Rock circuits Reprocessing of tailings dumps
Drive System	One 0.5 hp electric variable speed DC motor (waterproof).	Two 3 hp electric variable speed AC motors (waterproof). 1.5 hp hydraulic pump AC motor for automated feed hopper	Two 5 hp electric variable speed AC motors (waterproof). 3 hp hydraulic pump motor for automated feed hopper	Two 10 hp electric variable speed AC motors (waterproof). 5 hp hydraulic pump motor for automated feed hopper	40 and 25 hp electric variable speed AC motors (waterproof). 10 hp hydraulic pump motor for automated feed hopper
Generator recommended (not incl. with machine)	6kW diesel	15 kW diesel	30 kW diesel	60 kW diesel	80 kW diesel
Generator - fuel consumption	0.5 gallons/hour / 2.3 liters/hour	0.75 gallons/hour / 3.4 liters/hour	1.0 gallons/hour / 4.5 liters/hour	1.5 gallons/hour / 6.8 liters/hour	2.0 gallons/hour / 9.1 liters/hour
Water Pump	1.5 inch AC electric	3 inch AC electric	4 inch diesel	6 inch diesel	8 inch diesel
Water consumption	25 gallons per minute / 120 liters/minute	360 gallons per minute / 1,640 liters/minute	800 gallons per minute / 3,640 liters/minute	1,200 gallons per minute / 5,460 liters/minute	1,800 gallons per minute / 8,180 liters/minute
Water Pump - fuel consumption	n.a.	n.a.	1.25 gallons/hour	1.5 gallons/hour	1.75 gallons/hour
Total fuel consumption	0.5 gallons/hour / 2.3 liters/hour	0.75 gallons/hour / 3.4 liters/hour	2.25 gallons/hour / 10.2 liters/hour	3.0 gallons/hour / 13.6 liters/hour	3.75 gallons/hour / 17.0 liters/hour
Overall Dimensions					
- Length	12.5 ft. / 3.9 m	24 ft. / 7.3 m	34 ft. / 10.4 m	46 ft. / 14.0m	57 ft. / 17.4 m
- Width	6 ft. / 1.8 m	7.8 ft. / 2.4 m	8.5 ft. / 2.6 m	8.6 ft. transportation to 12 ft. / 3.7 m operating	14 ft. transportation to 16 ft. / 4.9 m operating
- Height	5 ft. / 1.5 m	7 ft. / 2.1 m	8 ft. / 2.4 m	8 ft. transportation to 10.5 ft. / 3.2 m operating	12.5 ft. / 3.8 m
Hopper dimensions					
- Length	5 ft.	8 ft.	12 ft.	16 ft.	24 ft.
- Width	2 ft.	7.8 ft.	7.8 ft. transportation to 10 ft. / 3.0 m operating	8.5 ft.	14 ft.
- Depth (average)	6"	30"	48"	48"	6 ft.
- Useable capacity	0.4 cubic yards	4 cubic yards	7 cubic yards	12 cubic yards	40 cubic yards
Scrubbing and Screening Trommel dimensions					
- Length	6 ft.	12 ft.	16 ft.	20 ft.	24 ft.
- Diameter (outer)	15.29"	19.11"	26.76"	38.22"	57.33"
Transverse Belt dimensions					
- Bed Length	6.5 ft. / 2.0m	12 ft. / 3.7m	16 ft.	20 ft.	24 ft.
- Bed Width	3 ft.	6 ft.	8 ft.	12 ft.	14 ft. transportation to 16 ft. operating
Concentrate sluice dimensions					
- Length	3.5 ft.	6 ft.	8 ft.	12 ft.	22 ft.
- Width	6 inch	10 inch	12 inch	16 inch	24 inch
Tail sluice dimensions					
- Length	3 ft.	6 ft.	8 ft.	12 ft.	16 ft.
- Width	12 inch	18 inch	24 inch	36 inch	48 inch
Trailer	Single axle Car trailer containing complete unit	Double-axle Pickup Truck Trailer (step-deck)	Triple-axle Pickup Truck Trailer (step-deck)	Tandem Duals Transport Truck Trailer (step-deck)	Supplied on three skid units (not trailer mounted)
Weight	1,760 lbs / 800 kg	8,000 lbs / 3,630 kg	18,000 lbs / 8,200 kg	45,000 lbs / 20,430 kg	70,000 lbs / 31,780 kg
Manning	1 equipment operator or team of 2-6 for manual operation	1 operator	2 operators	3 operators	2 operators
Auxiliary Equipment (examples)	Supply, Feed and Tailings: team with shovels or 1 man with mini excavator which would feed and remove tailings	Supply, Feed and Tailings: 1 bobcat, Cat 930 wheel loader or rubber tired back hoe.	Supply and Feed: 966 wheel loader Tailings: Second 966 wheel loader	Supply: D8 Cat or 980 wheel loader Feed: 4 yard bucket excavator Tailings: 980 wheel loader	Supply: D10 or larger Caterpillar or 992 Wheel Loader with 18 cubic yard bucket Feed: Direct feed from supply machine Tailings: D10 or 988 wheel loader with 12 yard bucket
Feed Hopper	Manually adjustable, gravity fed	Self feeding hydraulic hopper	Self feeding hydraulic hopper	Self feeding hydraulic hopper	Self feeding hydraulic push-hopper
Feed material	8 inch (20 cm) minus material	12 inch (30cm) minus material	18 inch (45 cm) minus material	30 inch (75 cm) minus material	36 inch (90 cm) minus material
Trommel Screen size (standard size, custom options available)	3/8 inch (9.5mm)	0.5 inch (13mm)	0.75 inch (19mm)	1.0 inch (25mm)	1.5 inch (37mm)
Shipping info	Can be air freighted or LCL shipped	Shipped in a 8 ft x 8 ft x 40 ft container	Shipped in a 8 ft x 8 ft x 40 ft container	Shipped as a deck load	Shipped as a deck load

Note: Specifications may be changed without notice