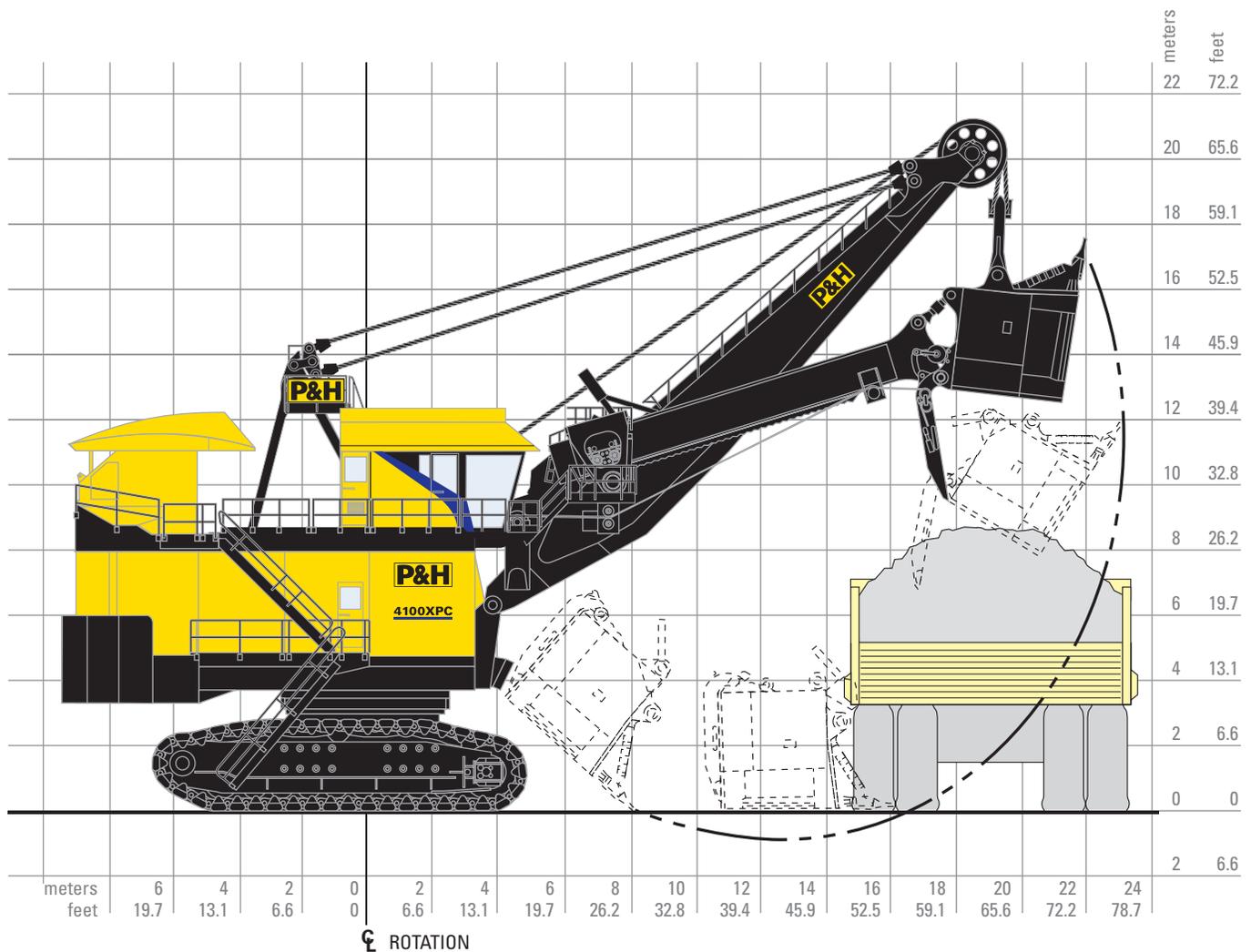


4100XPC AC-90 Electric Mining Shovel General Specification



Working ranges

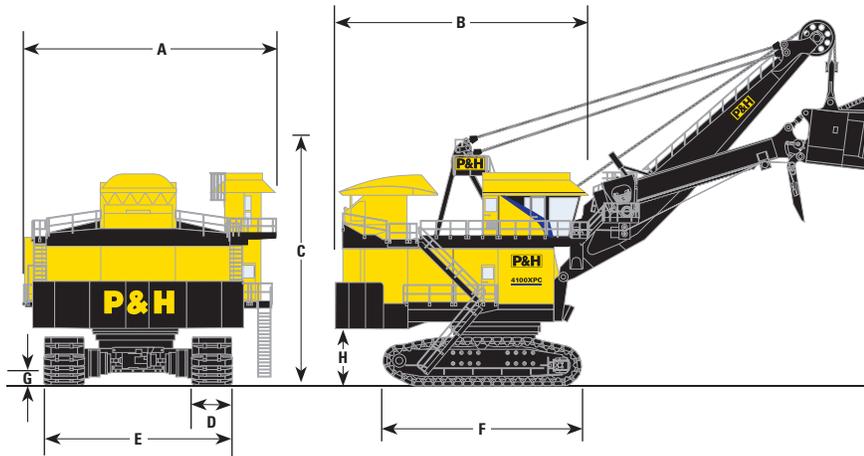
Height of cut	16.8 m	55 ft. 2 in.
Radius of cut	23.3 m	76 ft. 5 in.
Dumping height* (door open)	10.2 m	33 ft. 5 in.
Floor level radius	15.3 m	50 ft. 2 in.
Tail swing radius	9.8 m	32 ft. 3 in.
Operator eye level	10.1 m	33 ft. 1 in.

*Height shown with bail-type dipper. Heights will be greater with bail-less or compact-bail dippers. Actual dumping height can be greater than door clearance height.

Capacity

Nominal payload*	73-82 mt	80-90 st
Nominal dipper capacity SAE struck	42-49 m ³	54-64 yd ³
Rated suspended load	173 mt	190 st
Optimum truck size (360 mt (400 st) truck shown)	218-360 mt	240-400 st

*Payload and dipper capacity are dependent on many factors. Contact Komatsu Mining for an analysis of your specific application.



Overall dimensions

A	Width	14.4 m	47 ft. 1 in.
B	Length	15.0 m	49 ft. 4 in.
C	Height over gantry	14.7 m	48 ft. 3 in.
D	Width of crawler shoes	1930 mm	76 in.
		2210 mm	87 in.
E	Width of crawlers (76")	10.2 m	33 ft. 6 in.
F	Length of crawlers	11.7 m	38 ft. 6 in.
G	Ground clearance	0.7 m	2 ft. 2 in.
H	Height — ground to bottom of counterweight slabs	3.6 m	11 ft. 10 in.

Power requirements

Supply voltage*	7200 or 13800V 3 phase, 60 Hz	6000, 6600, 7200 or 11000 3 phase, 50 Hz
Supply transformer	(minimum) 3750 kVA	
Minimum short circuit VA available at shovel	30 MVA	

*Voltage per customer requirements

Swing

Two modular P&H planetary gear cases of proven design and a single piece forged swing gear transmit torque for fast cycle times.

Spring-set air release disc brakes – one per motor

Splash lube filtration system

Propel

Propel on demand provides rapid transfer to propel mode. Rapid transfers allow frequent positioning of the shovel to the bank resulting in faster cycle times and more efficient digging.

Two rugged P&H planetary gear cases of proven design independently transmit torque to the drive sprockets, producing the tractive effort required for fast, efficient propel and positioning operations.

P&H brand Delta drive low tension sprocket drive system with heavy duty cast crawler shoes

Spring-set air release disc brakes – one per motor

Crowd

Powerband V-belt drive between motor and gear case absorbs shock loads.

First and second reduction gearing in enclosed gear case for reliable splash lubrication, ease of maintenance, and extended component life.

Twin-leg dipper handle with torsion box and rack and pinion drive has inherent stability in the bank for optimal digging.

Spring-set air release disc brake

Hoist

All gearing housed in single enclosed gear case with filtered and cooled oil fed to all bearings in addition to splash lubrication for reliable operation and ease of maintenance.

Large 68" diameter hoist drum for extended rope bending life. Ferrule becket system and dual electric tuggers are standard for efficient rope change.

Spring-set air release disc brakes – one per motor

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