



Multi-Stacking Power Changer

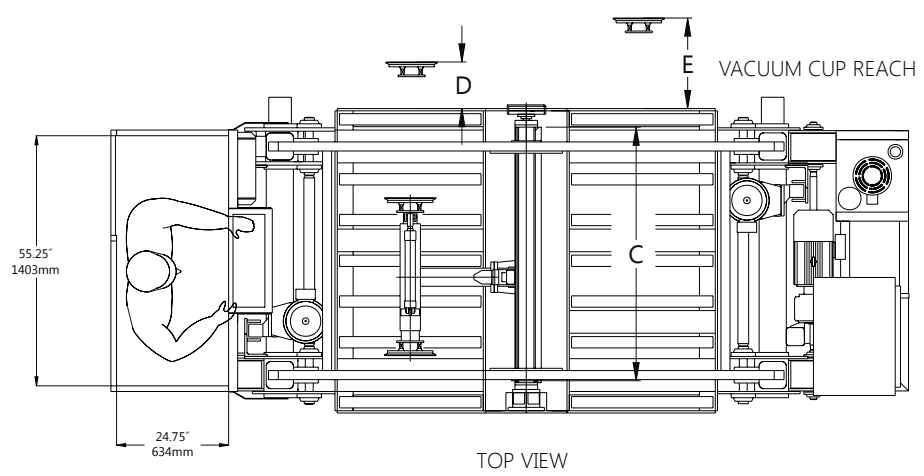
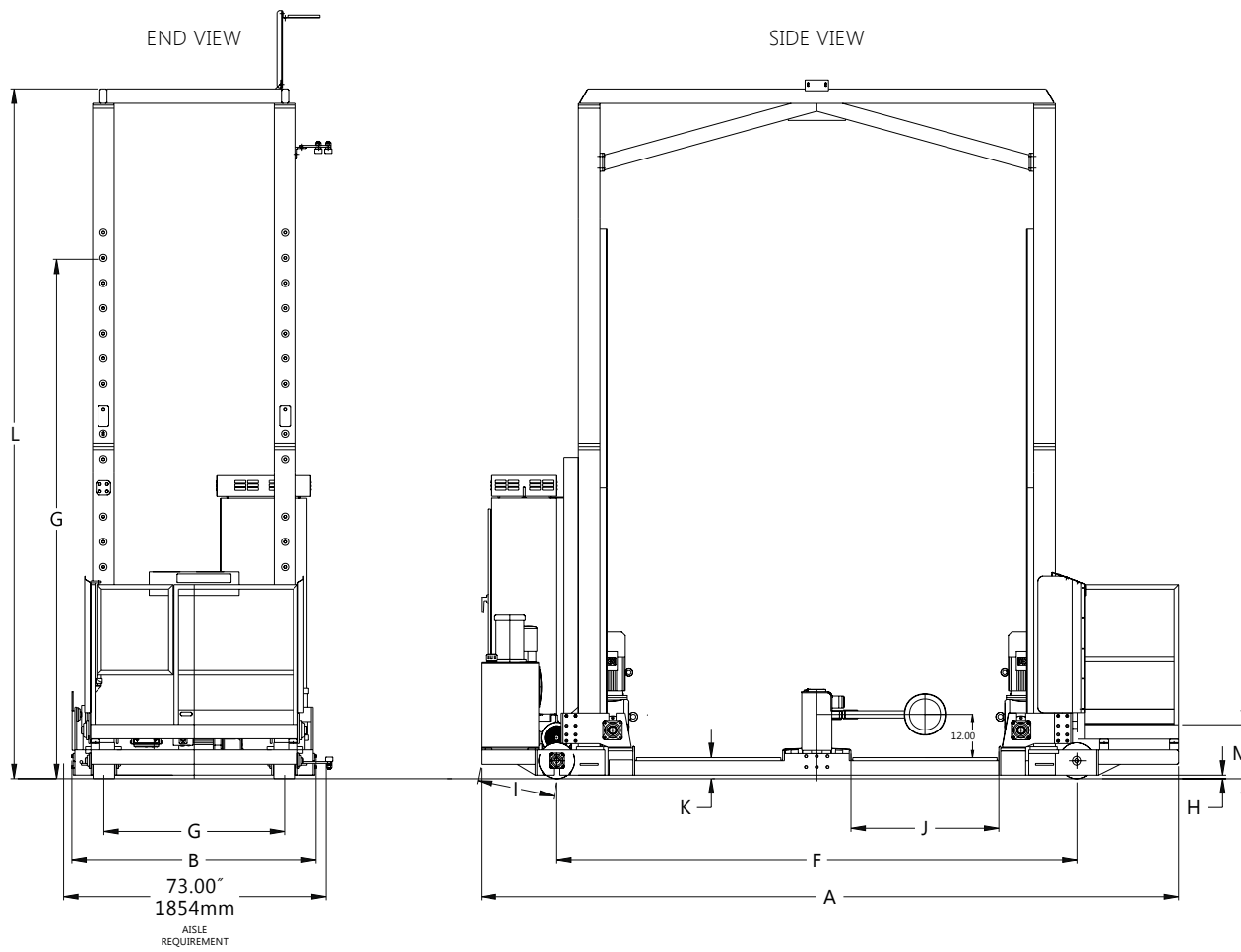


TWO, THREE, FOUR, FIVE & SIX HIGH STACKING MODELS AVAILABLE



Model PCE
480 Volt

PCE MULTI-STACKING POWER CHANGER SPECIFICATIONS*



PLEASE REFERENCE THE DIMENSIONAL DATA CHART ON PAGE 3 TO MATCH THE LETTERS TO THE CORRESPONDING SPECIFICATION.

MTC MODEL PCE MULTI-STACKING POWER CHANGER

General Specifications¹

* All Specifications Subject to Change Without Notice.

MODEL NO.		PCE-24		PCE-32		PCE-40	
1	Drive System H.P./KW	7.5HP	5.6KW	7.5HP	5.6KW	7.5HP	5.6KW
2	Raise/Lower H.P.	7.5x2 = 15 H.P.		7.5x2 = 15 H.P.		7.5x2 = 15 H.P.	
3	Raise/Lower Speed	0-27 FPM	0-8.23 MPM	0-27 FPM	0-8.23 MPM	0-27 FPM	0-8.23 MPM
4	Hydraulic System H.P./KW	5HP	4KW	5HP	4KW	5HP	4KW
5	Travel Speed	0-225 FPM	0-68.6 MPM	0-225 FPM	0-68.6 MPM	0-225 FPM	0-68.6 MPM
6	Machine Duty Cycle (Per Year)	5,500 Hrs.		5,500 Hrs.		5,500 Hrs.	
7	Input Voltage	480 VAC / 60 Hz		480 VAC / 60 Hz		480 VAC / 60 Hz	
8	Control Voltage	24 VDC		24 VDC		24 VDC	
9	System AC Amp Draw	42.1 Amps @ 480		42.1 Amps @ 480		42.1 Amps @ 480	
10	Draw Bar Pull (10" Round Vacuum Cup)	1,000 Lbs.	454 kgs.	1,000 Lbs.	454 kgs.	1,000 Lbs.	454 kgs.
11	Power Unit Type	Electric / Hydraulic		Electric / Hydraulic		Electric / Hydraulic	
12	Wheel Type / Size (Height x Width)	Poly / 10" x 6"	254 x 152 mm	Poly / 10" x 6"	254 x 152 mm	Poly / 10" x 6"	254 x 152 mm
13	Capacity (Fully Loaded)	10,000 Lbs.	4536 kgs.	10,000 Lbs.	4536 kgs.	10,000 Lbs.	4536 kgs.
14	Service weight (Empty)	9,436 Lbs	4281 kgs.	9,610 Lbs	4359 kgs.	9,871 Lbs.	4477 kgs.

Dimensional Data

MODEL NO.		PCE-24		PCE-32		PCE-40	
A	Overall Length	160"	4064mm	176 1/4"	4477mm	194"	4928mm
B	Overall Width	67 1/4"	1708mm	67 1/4"	1708mm	67 1/4"	1708mm
C	Vacuum Arm Travel	48 3/8"	1229mm	48 3/8"	1229mm	48 3/8"	1229mm
D	Max. Vacuum Arm Reach (Standard Arm)	LS - 9 3/8" RS - 8 3/4"	238mm 222mm	LS - 9 3/8" RS - 8 3/4"	238mm 222mm	LS - 9 3/8" RS - 8 3/4"	238mm 222mm
E	Max. Vacuum Arm Reach (Extension Arm)	LS - 20 3/4" RS - 18"	527mm 457mm	LS - 20 3/4" RS - 18"	527mm 457mm	LS - 20 3/4" RS - 18"	527mm 457mm
F	Wheel Base	110 5/8"	2810mm	126 7/8"	3223mm	144 5/8"	3673mm
G	Centerline of Drive Wheels	50 1/4"	1276mm	50 1/4"	1276mm	50 1/4"	1276mm
H	Ground Clearance	1"	25mm	1"	25mm	1"	25mm
I	Grade Percent	1%		1%		1%	
J	Battery Compartment Size (Each)	24 1/8"	613mm	32 1/4"	819mm	41 1/8"	1045mm
15	Max. Battery Length	44"	3658mm	44"	3658mm	44"	3658mm
16	Max. Battery Width	23"	584mm	31"	787mm	40"	1016mm
17	Max. Battery Height	32"	613mm	32"	613mm	32"	613mm
18	Min. Battery Length	12"	305mm	12"	305mm	12"	305mm
19	Min. Battery Width	6.5"	165mm	6.5"	165mm	6.5"	165mm
20	Min. Battery Height ²	19"	483mm	19"	483mm	19"	483mm
21	Carriage Free Lift	18"	457mm	18"	457mm	18"	457mm

Multi-Stacking Dimensional Data

STACKING HEIGHT		Double		Triple		Quad		Five		Six	
K	Carriage Height (Lowered/ Raised)	6" / 56 1/4"		6" / 97 1/2"		6" / 138 3/4"		6" / 180"		6" / 221 1/4"	
		152/1429mm		152/2476mm		152/3524mm		152/4572mm		152/5620mm	
L	Overall Height	118 3/4"	3016mm	160"	4064mm	201 1/4"	5112mm	242 1/2"	6159mm	283 1/2"	7201mm
M	Operator Platform Height (Lowered/ Raised)	15" / 45 5/8"		15" / 86 7/8"		15" / 128 1/8"		15" / 169 3/8"		15" / 210 5/8"	
		381/1159mm		381/2207mm		381/3254mm		381/4302mm		381/5350mm	
21	Upper Guide Required? (Yes/No)	No		No		Yes		Yes		Yes	
22	Floor Variance (+ or - in 10 ft.)	1/4"	6mm	1/8"	3mm	1/16"	2mm	1/16"	2mm	1/16"	2mm

Available Options:

Stainless Steel Watering Tank and Pump Kit (Battery Filling System)
Hydraulic Extension Arm

Hydraulic Carriage Roller Extensions (Note: Restricts Lowered Height to 14"/356mm)
Strobe Light and Horn Kit

Notes:

- Performance may vary +/- 5% due to system efficiency tolerance. The performance shown represents nominal values obtained under typical operating conditions.
- Special 220 rotary actuator available for batteries less than 19"/356mm tall. Consult factory.



FUNCTION AND DESIGN

The PCE series battery puller utilizes three separate power systems, all working together to create optimum performance. The first system is an AC controlled gear reduction drive system. This system incorporates a computerized SEW Eurodrive™ motor inverter that controls braking, drive speeds, and torque settings.

The raise/lower power system of the PCE uses two additional Eurodrive™ motors (running in parallel) to raise and lower the carriage on the four point rack and pinion upright system. The final power system drives the hydraulic components of the unit such as the carriage conveyors and pivot arm assembly.

By using its three power units together, the PCE is able to offer 100% true multi-function control. This control means that the operator can travel, raise the carriage, and manipulate the vacuum arm simultaneously without any loss of performance.

The PCE is also the only battery puller designed to expand with your growing needs. This unit has the ability to be converted from a double stacking machine all the way up to a six high machine.

The multi-function center joystick on the PCE's control panel allows the operator to move the vacuum pivot arm in eight directions as well as control left and right vacuum suction. If a hydraulic extension arm is required for your application, the extension arm controls are also integrated into the center joystick.

The carriage roller conveyors are also controlled with a joystick on the control panel. This new joystick is much more intuitive for new and old users alike.

The PLC controlled battery safety lock system prevents the operator from discharging a battery off the carriage unintentionally. This unique lockout system utilizes four polarized retro-reflective photo eyes and a small PLC controller that monitors the position of the battery and forces the operator to make the decision as to whether or not to discharge the battery from the carriage.

The dead-man operator platform of the PCE allows full access to the control panel and allows operators to easily position themselves during each battery change. The platform is also equipped with two limit switches that prevent operation of the battery puller unless the operator is standing on the platform.

This high capacity machine is designed for a duty cycle of up to 300 battery changes per day or 5,500 hours per year. The PCE requires scheduled preventive maintenance which should be performed by factory trained individuals. The specific maintenance intervals are outlined in the parts and service manual.



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