

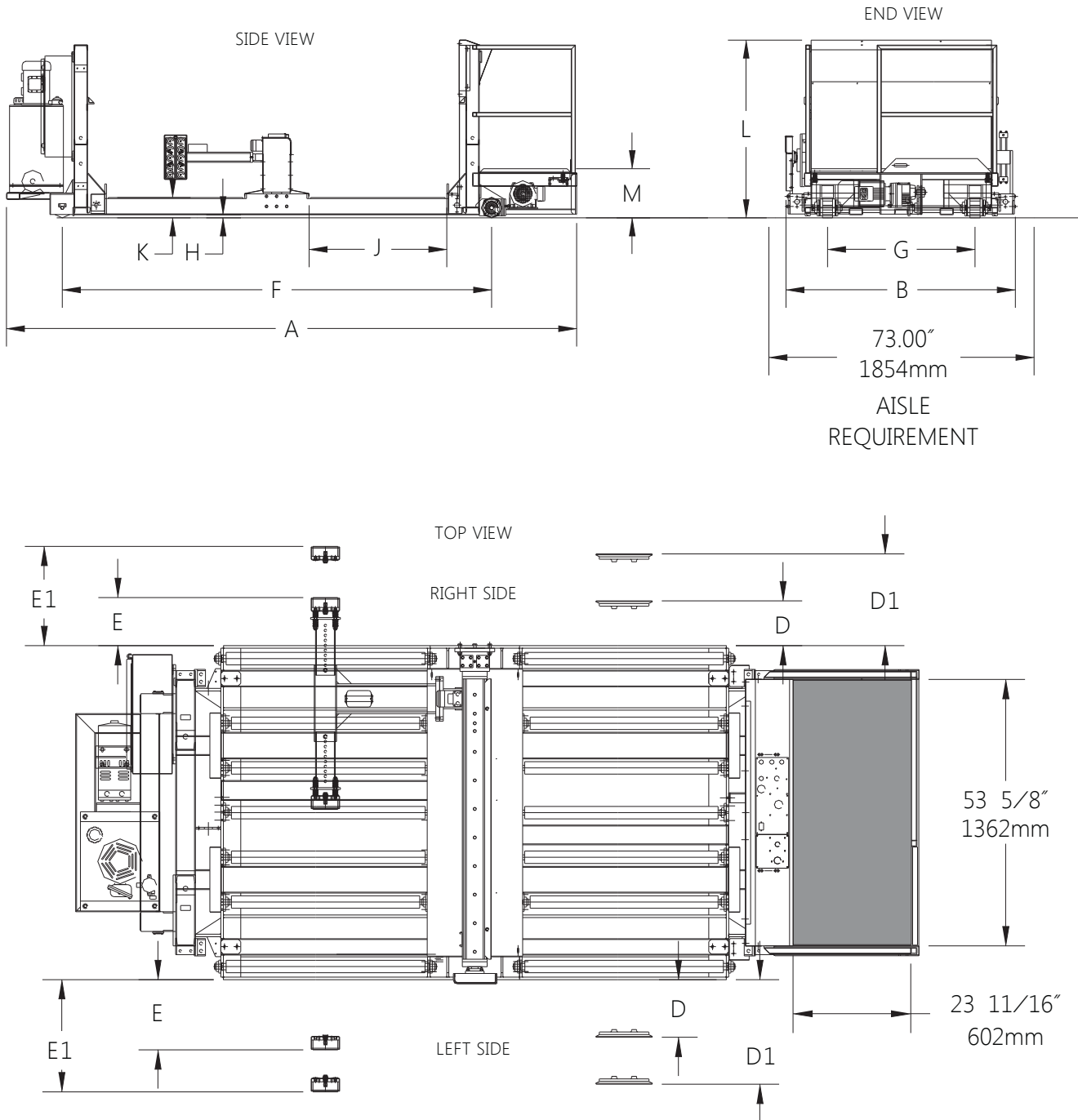


Single Level Power Changer



Model PCHE
480 Volt

PCHE SINGLE LEVEL POWER CHANGER DESIGN SPECIFICATIONS



Available Options:

- Magnet Extraction
- Stainless Steel Watering Tank and Pump Kit (Battery Filling System)
- Hydraulic Extension Arm
- Hydraulic Carriage Roller Extensions (**Note:** Restricts Lowered Height to 14"/356mm)

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

PCHE SINGLE LEVEL POWER CHANGER

General Specifications¹

* All Specifications Subject to Change Without Notice.

MODEL NO.		PCHE-1-40-SS		PCHE-2-24-SS		PCHE-2-40-SS	
1	Drive System H.P./KW	3 HP	2.24KW	3 HP	2.24KW	3 HP	2.24KW
2	Raise/Lower Speed	0-10 FPM	0-3 MPM	0-10 FPM	0-3 MPM	0-10 FPM	0-3 MPM
3	Hydraulic System H.P./KW Raise/Lower	5 HP	3.73KW	5 HP	3.73KW	5 HP	3.73KW
4	Travel Speed	0-125 FPM	0-38.1 MPM	0-125 FPM	0-38.1 MPM	0-125 FPM	0-38.1 MPM
5	Machine Duty Cycle (Per Year)	3500 Hrs.		3500 Hrs.		3500 Hrs.	
6	Input Voltage	480 VAC /60 Hz		480 VAC /60 Hz		480 VAC /60 Hz	
7	Control Voltage	24 VAC		24 VAC		24 VAC	
8	System AC Amp Draw / Vacuum	17.6		17.6		17.6	
8.a	System AC Amp Draw / Magnet	16.5		16.5		16.5	
9	Draw Bar Pull (10" Round Vacuum Cup)	1000 Lbs.	454 kgs.	1000 Lbs.	454 kgs.	1000 Lbs.	454 kgs.
9.a	Draw Bar Pull (6.75" x 13.25" Magnet) 171 x 337 mm	1400 Lbs. @ .25" plate		1400 Lbs. @ .25" plate		1400 Lbs. @ .25" plate	
		635 kgs. @ 6mm		635 kgs. @ 6mm		635 kgs. @ 6mm	
10	Power Unit Type	Electric/Hydraulic		Electric/Hydraulic		Electric/Hydraulic	
11	Wheel Type / Size (Height x Width)	Poly 6" x 3"	152 x 76 mm	Poly 6" x 3"	152 x 76 mm	Poly 6" x 3"	152 x 76 mm
12	Capacity (Fully Loaded)	10,000 Lbs	4536 kgs.	10,000 Lbs	4536 kgs.	10,000 Lbs	4536 kgs.

Dimensional Data

MODEL NO.		PCHE-1-40-SS		PCHE-2-24-SS		PCHE-2-40-SS	
A	Overall Length	128"	3251 mm	135 5/8"	3445 mm	169 5/8"	4308 mm
B	Overall Width	67 1/4"	1708 mm	67 1/4"	1708 mm	67 1/4"	1708 mm
C	Vacuum Arm Travel L to R	48 3/8"	1229 mm	48 3/8"	1229 mm	48 3/8"	1229 mm
D	Max. Vacuum Arm Reach (Standard Arm)	LS - 9 3/8" RS - 8 3/4"	238 mm 222 mm	LS - 9 3/8" RS - 8 3/4"	238 mm 222 mm	LS - 9 3/8" RS - 8 3/4"	238 mm 222 mm
D.1	Max. Vacuum Arm Reach (Extension Arm)	LS - 20 3/4" RS - 18"	527 mm 457 mm	LS - 20 3/4" RS - 18"	527 mm 457 mm	LS - 20 3/4" RS - 18"	527 mm 457 mm
E	Max. Magnet Arm Reach (Standard Arm)	LS - 11 1/4" RS - 10 1/2"	286 mm 267 mm	LS - 11 1/4" RS - 10 1/2"	286 mm 267 mm	LS - 11 1/4" RS - 10 1/2"	286 mm 267 mm
E.1	Max. Magnet Arm Reach (Extension Arm)	LS - 20 5/8" RS - 20"	524 mm 508 mm	LS - 20 5/8" RS - 20"	524 mm 508 mm	LS - 20 5/8" RS - 20"	524 mm 508 mm
F	Wheel Base	86 1/16"	2186 mm	93 11/16"	2380 mm	127 11/16"	3243 mm
G	Centerline of Drive Wheels	43 7/8"	1114 mm	43 7/8"	1114 mm	43 7/8"	1114 mm
H	Ground Clearance	1"	25 mm	1"	25 mm	1"	25 mm
I	Grade Percent	1%		1%		1%	
J	Battery Compartment Size (Each)	41 1/8"	1045 mm	24 1/8"	613 mm	41 1/8"	1045 mm
13	Max. Battery Length	44"	1118 mm	44"	1118 mm	44"	1118 mm
14	Max. Battery Width	40"	1016 mm	23"	584 mm	40"	1016 mm
15	Max. Battery Height	36"	914 mm	36"	914 mm	36"	914 mm
16	Min. Battery Length	12"	305 mm	12"	305 mm	12"	305 mm
17	Min. Battery Width	6 1/2"	165 mm	6 1/2"	165 mm	6 1/2"	165 mm
18	Min. Battery Height ²	19"	483 mm	19"	483 mm	19"	483 mm
K	Carriage Height (Lowered/ Raised)	6" / 30"	152 / 762 mm	6" / 30"	152 / 762 mm	6" / 30"	152 / 762 mm
L	Overall Height L	52 7/8"	1343 mm	52 7/8"	1343 mm	52 7/8"	1343 mm
M	Operator Platform Height (AFF)	14"	356 mm	14"	356 mm	14"	356 mm
21	Floor Variance (+ or - in 10 ft.)	1/4"	6 mm	1/4"	6 mm	1/4"	6 mm
22	Minimum Point Load	450 PSI		450 PSI		450 PSI	
23	Shipping / Service Weight	4100 Lbs.	1860 kgs.	4300 Lbs.	1950 kgs	4700 Lbs.	2132 kgs.

Notes:

1. Performance may vary +/- 5% due to system efficiency tolerance. The performance shown represents nominal values obtained under typical operating conditions.
2. Special 220 rotary actuator available for batteries less than 19" / 483mm tall. Consult factory

Function and Design

The PCHE Series Single Level Power Changer™ is designed for high-capacity applications requiring 10-150 battery changes per day. The simultaneous travel and lift functions allow for fast, efficient battery changes that average less than two minutes. A 3-HP/2.24-KW electric drive motor generates a travel speed of up to 125 fpm/38mpm on this machine. By separating the drive system from the lift system a lifting speed of 10 fpm/3mpm can also be attained. This is why the PCHE single level model is among the most efficient machines on the market today.

Several design improvements have been incorporated into the new PCHE single level models. The dashboard features a new joystick for ease of use. The hydraulic pump and motors are now mounted on the front of the machine, as well as the electric panel. This makes it possible to offer the single level models with the optional battery watering tank that is mounted in the rear of the unit.

The electric drive system replaces the hydraulic drive altogether with a new Movitrac AC brake motor controller and a sealed gearbox. This super-smooth, reliable SEW Eurodrive system is the same type utilized on the PCE systems, but scaled back for the single level system.

The frame has been increased by 13"/330mm in length and has been refined to make it more robust. Optional magnets on this machine make it quite desirable for those who prefer magnetic extraction.

Safety is designed into all aspects of the single level Power Changer. A major safety feature is the dead-man operator platform. This platform allows full access to the control panel and allows the operator complete freedom of movement during each battery change. The floor of the platform is cushioned with anti-slip padding and handholds are provided for the operator to use during battery changes.

Single Level Power Changer Features and Benefits

FEATURES	BENEFITS
<ol style="list-style-type: none"> 1. Variable speed electric drive 2. Simultaneous travel and lift 3. Powered vacuum extraction, or optional magnetic extraction 4. Ergonomically designed new joystick for control of T-arm movement 5. Powered roller conveyors 	<ul style="list-style-type: none"> • Allows operator to adjust speed to meet various operating conditions • Greatly reduces the time required to complete a battery change • Provides reliable, powerful, and consistent battery attachment • Allows operator to manipulate the T-arm with a single control • Reduces stress on T-arm and allows a smooth battery transfer



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