



**MATERIALS  
TRANSPORTATION  
COMPANY**

SINCE 1946

An Employee Owned Company

# PCHE SERIES POWER CHANGER SPECIFICATION SHEET

## Multi-Level Power Changer

Model PCHE

480 Volt



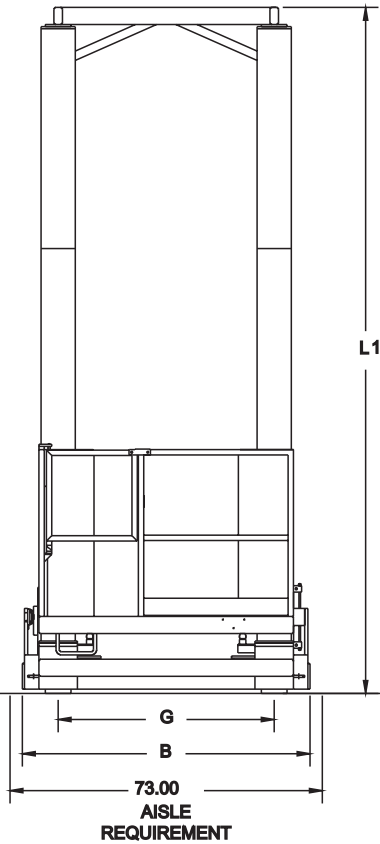
MODEL SHOWN: PCHE-2-40-TS-V

DOUBLE, TRIPLE AND QUAD STACKING MODELS AVAILABLE

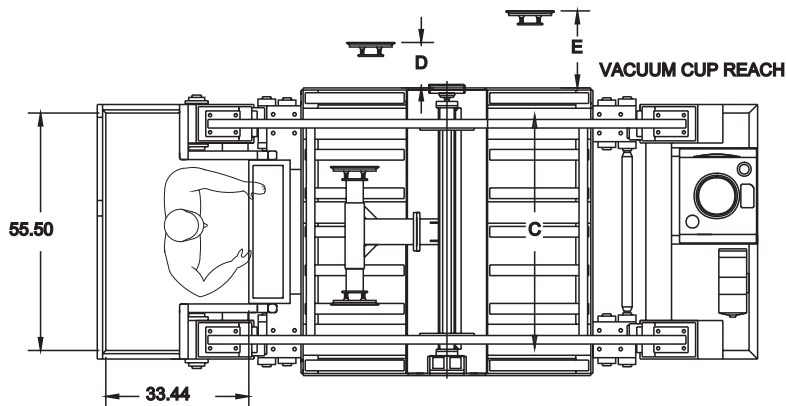
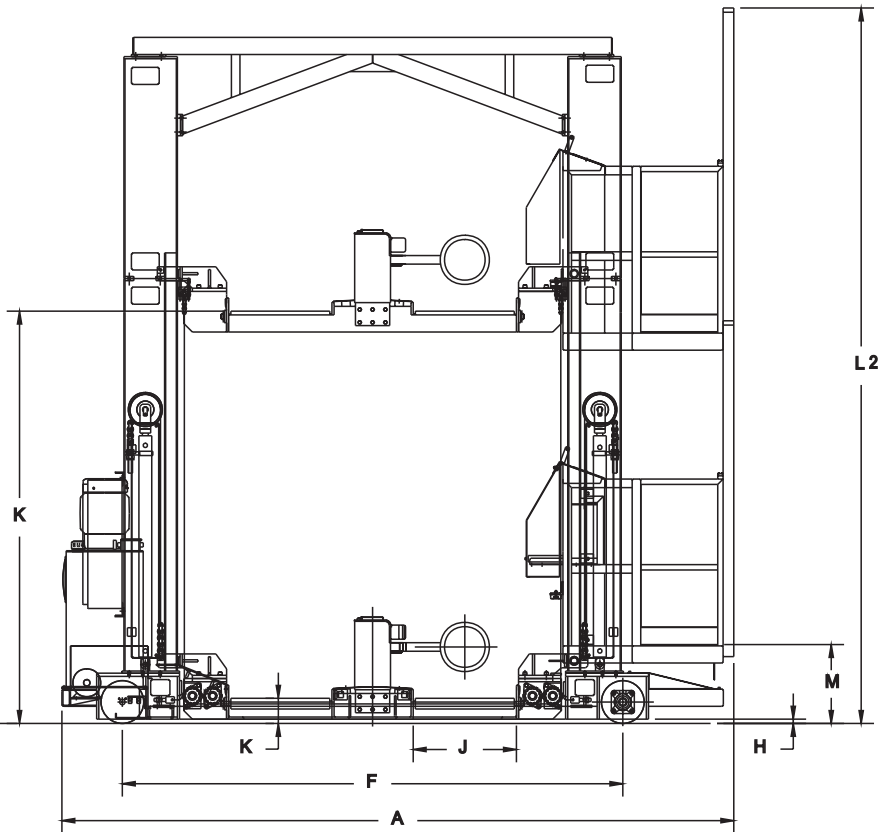
SS-0404-ML-PCHE

# PCHE MULTI-STACKING POWER CHANGER SPECIFICATIONS

END VIEW



SIDE VIEW



TOP VIEW

**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")

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

# SPECIFICATIONS

## MTC MODEL PCHE MULTI-LEVEL POWER CHANGER

### General Specifications

	<b>MODEL NO.</b>	<b>*PCHE-1-40</b>	<b>PCHE-2-24</b>	<b>PCHE-2-32</b>	<b>PCHE-2-40</b>
1	Drive System H.P.	7.5	7.5	7.5	7.5
2	Drive System / Travel Speed	0-225 FPM	0-225 FPM	0-225 FPM	0-225 FPM
3	Hydraulic System H.P.	15	15	15	15
4	Raise/Lower Speed	0-24 FPM	0-24 FPM	0-24 FPM	0-24 FPM
5	Machine Duty Cycle (Per Year)	5000 Hrs.	5000 Hrs.	5000 Hrs.	5000 Hrs.
6	Input Voltage	480 VAC / 60 Hz	480 VAC / 60 Hz	480 VAC / 60 Hz	480 VAC / 60 Hz
7	Control Voltage	24 VDC	24 VDC	24 VDC	24 VDC
8	System AC Amp Draw / Vacuum	33.7 @ 480 VAC	33.7 @ 480 VAC	33.7 @ 480 VAC	33.7 @ 480 VAC
9	System AC Amp Draw / Magnet	32.1 @ 480 VAC	32.1 @ 480 VAC	32.1 @ 480 VAC	32.1 @ 480 VAC
9.a	Draw Bar Pull (10" Round Vacuum Cup)	1,000 Lbs.	1,000 Lbs.	1,000 Lbs.	1,000 Lbs.
10	Draw Bar Pull (6.75" x 13.25" Magnet)	1,400 Lbs. @ .25" plate	1,400 Lbs. @ .25" plate	1,400 Lbs. @ .25" plate	1,400 Lbs. @ .25" plate
11	Power Unit Type	Electric/Hydraulic	Electric/Hydraulic	Electric/Hydraulic	Electric/Hydraulic
12	Wheel Type / Size (Height x Width)	Poly 10" x 6"	Poly 10" x 6"	Poly 10" x 6"	Poly 10" x 6"
13	Capacity (Fully Loaded)	10,000 Lbs.	10,000 Lbs.	10,000 Lbs.	10,000 Lbs.

### Dimensional Data

A	Overall Length	147 5/8	154 5/8"	172 5/8"	188 5/8"
B	Overall Width	67 1/4"	67 1/4"	67 1/4"	67 1/4"
C	Vacuum Arm Travel	48 3/8"	48 3/8"	48 3/8"	48 3/8"
D	Max. Vacuum Arm Reach (Standard Arm)	LS - 9 3/8" RS - 8 3/4"	LS - 9 3/8" RS - 8 3/4"	LS - 9 3/8" RS - 8 3/4"	LS - 9 3/8" RS - 8 3/4"
D.1	Max. Vacuum Arm Reach with (Extension Arm)	LS - 20 3/4" RS - 18"	LS - 20 3/4" RS - 18"	LS - 20 3/4" RS - 18"	LS - 20 3/4" RS - 18"
E	Max. Magnet Arm Reach (Standard Arm)	LS - 11 7/4" RS - 10 1/2"	LS - 11 7/4" RS - 10 1/2"	LS - 11 7/4" RS - 10 1/2"	LS - 11 7/4" RS - 10 1/2"
E.1	Max. Magnet Arm Reach (Extension Arm)	LS - 20 5/8" RS - 20"	LS - 20 5/8" RS - 20"	LS - 20 5/8" RS - 20"	LS - 20 5/8" RS - 20"
F	Wheel Base	140"	117"	133 1/4"	151"
G	Centerline of Drive Wheels	50 1/2"	50 1/2"	50 1/2"	50 1/2"
H	Ground Clearance	1"	1"	1"	1"
I	Grade Percent	1%	1%	1%	1%
J	Battery Compartment Size (Each)	41 1/8"	24 1/8"	32 1/8"	41 1/8"
14	Max. Battery Length	44"	44"	44"	44"
15	Max. Battery Width	40"	23"	31"	40"
16	Max. Battery Height	32"	32"	32"	32"
17	Min. Battery Length	12"	12"	12"	12"
18	Min. Battery Width	6.5"	6.5"	6.5"	6.5"
19	Min. Battery Height <sup>2</sup>	19"	19"	19"	19"
20	Carriage Free Lift	17"	17"	17"	17"
21	Upper Guide Required? (Yes/No)	No	No	No	Yes
22	Floor Variance (+ or - in 10 ft.)	1/4"	1/8"	1/8"	1/8"
23	Minimum Point Load	450 PSI	450 PSI	450 PSI	450 PSI

Height Dimensions	<b>Double</b>	<b>Triple</b>	<b>Quad</b>
K Carriage Height (Lowered/ Raised)	6" / 55 3/8"	6" / 96 3/8"	6" / 137 3/8"
L Overall Height L1 & L2	127 1/2" / 134 1/2"	160 3/8" / 167 3/8"	191 3/4" / 198 3/4"
M Operator Platform Height (AFF)	18" / 50 1/4"	18" / 91 1/4"	18" / 132 1/4"

Service Weight	<b>*PCHE-1-40</b>	<b>PCHE-2-24</b>	<b>PCHE-2-32</b>	<b>PCHE-2-40</b>
Double Level	8400 Lbs.	8600 Lbs.	8900 Lbs.	9200 Lbs.
Triple Level	8700 Lbs.	8900 Lbs.	9200 Lbs.	9500 Lbs.
Quad Level	9000 Lbs.	9200 Lbs.	9500 Lbs.	9800 Lbs.

#### Notes:

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

\* All Specifications Subject to Change Without Notice.



The PCHE Series Multi-Level Power Changer™ is designed for high-capacity applications requiring 20-250 battery changes per day. The simultaneous travel and lift functions allow for fast, efficient battery changes that average less than two minutes. A 7.5-HP electric drive motor generates a travel speed of up to 225 fpm on this machine. 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.

By separating the drive system from the lift system a lifting speed of 24 fpm can also be attained. This is one reason why the PCHE multi-level model is among the most efficient machines on the market today.

The 8" X 12 ½" tubular uprights, unyielding frame, double-80 leveling chains, and sturdy roller carriage make the PCHE stand out above any other multi-level battery changer on the market. In high usage and high abuse applications, there is no comparison to the PCH other than MTC's own model PCE.

Safety is designed into all aspects of the multi-level Power Changer™. The standard PLC controlled battery safety lock system prevents the operator from discharging a battery off the carriage unintentionally. This unique lock out system utilizes four polarized retro-reflective photo eyes and a small PLC controller to monitor the position of the battery in the carriage. This type of system forces the operator to decide when it is safe to discharge a battery from the carriage.

Another safety feature of the multi-level Power Changer™ 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.

***Multi-Stacking Power Changer Features and Benefits***

<b><u>FEATURES</u></b>	<b><u>BENEFITS</u></b>
<b>1. Double, Triple or Quad Levels</b>	<b>Saves valuable facility floor space</b>
<b>2. Variable Speed Electric Drive</b>	<b>Allows operator to adjust speed to meet various operating conditions</b>
<b>3. Simultaneous Travel and Lift</b>	<b>Greatly reduces the time required to complete a battery change</b>
<b>4. Powered vacuum or Magnetic Extraction</b>	<b>Provides reliable, powerful, and consistent battery attachment</b>
<b>5. PLC Controlled Battery Safety Locks</b>	<b>Prevents the unintentional discharge of a battery from the carriage</b>

**Corporate Offices & Manufacturing**

P.O. Box 1358  
Temple, Texas 76503  
Phone (254)-298-2900 Fax (254) 771-0287  
U.S. (800-433-3110 Canada (800-229-5988  
www.mtcworldwide.com