



PACIFIC TRINETICS  
CORPORATION

# CELSUS

Smart Cabinet



- Real-time inventory control
- Small space-saving footprint (40 ft<sup>2</sup>)
- Patented First In First Out (FIFO) technology
- Works in harmony with Kanban systems
- Competitively priced

# THE CELSUS Smart Cabinet Series

PTC CELSUS smart cabinet with a capacity of 6400 reels brings state of the art material storage technology to the production line, including optional integration with most ERP systems. Celsus utilizes a patented first-in-first-out feeder while environmental data such as humidity and temperature is displayed and collected into a database for traceability and control. Originally designed for storage and release of electronic components the CELSUS smart cabinet can be configured and used with any product. An advanced intuitive user interface results in quick adoption by all production and inventory control personnel.

The smart cabinet's auto material retrieval from the Bill of Material (BOM) eliminates error and manual operation assisting manufacturers on their path towards industry 4.0. The system's preparatory software ensures full control of each component's MSD and life cycle. The state-of-the-art design is modular for easy delivery and assembly and is tailored to fit the customer's needs. Although CELSUS was originally designed for SMT parts packaged in reels it can be used in any industry in which automation of inventory control is desired. Medical and dental device manufacturing are but a couple examples of non-electronic manufacturing environments.

## OVERVIEW

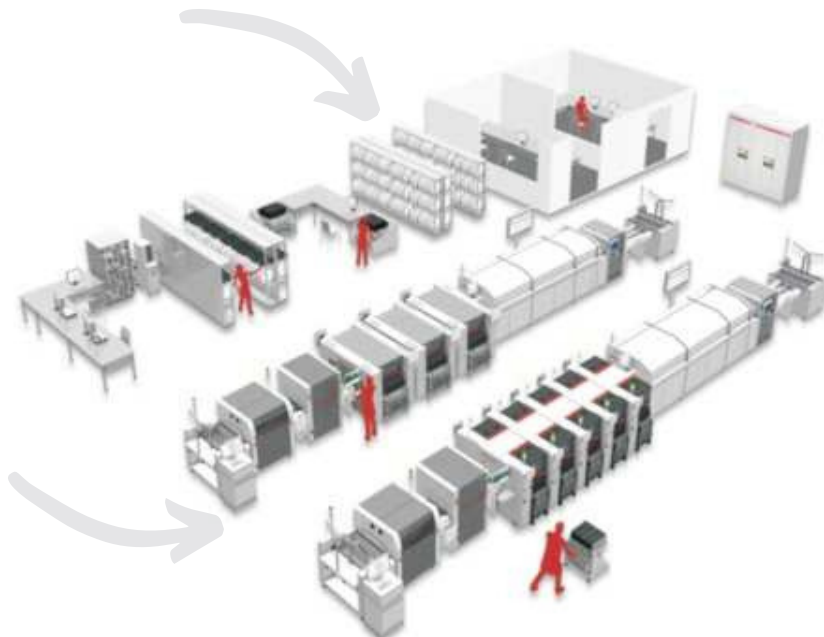
- Fully automated storage system
- Position indication
- Temperature and Humidity Control
- Access control
- First-in-First-out Technology
- More storage capacity in a highly compact storage footprint
- Highly efficient use of production space for storage
- Modular design
- Automatic door
- Safety protection for stored goods and operator
- Design for chain tension auto-adjustment
- Remote control by portable controller



# CABINET CONTROL SYSTEM



- PTC specific state of the art user interface, and touch screen industrial computer.
- Widely compatible communication interface makes it convenient for customers to connect and synchronize with MES systems for raw material to finished goods tracking.
- Monitor and control temperature and humidity.
- Bar code identification control function that automatically identifies and searches material.
- Optional integration with most ERP systems server/database (SAP, Oracle, QAD, etc).



## PART NUMBER CONFIGURATION

SERIES	Shelf		Power	Dehumidifier	Air Conditioner	Additional
CELSUS	10	-	1	D I	A	C

①	08	1	208V 3Ph 50Hz	D0	No	④	0	No
	10	2	380V 3Ph 50Hz	D I	RH:30%		A	Yes
	12	3	200V 3Ph 60Hz	D II	RH:15%			
	14							
	16							
	18							
	20							

A	Basic Function
B	Application Programming Interface (API)
C	Customized based on customer requirements

\* The above mentioned model can be ordered independently from PTC Sales.  
For specific applications and requirements please feel free contact us.

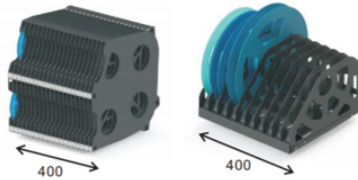
## SPECIFICATIONS

CELSUS	08	10	12	14	16	18	20
H (mm)	3100	3600	4100	4500	5000	5400	5800
Carrier Size (mm)	1692x397x430 (Each Carrier can hold 4 S1 or 4 S2)						
Carrier Load	50 kg/Carrier						
Capacity (7" reel)	2560	3200	3840	4480	5120	5760	6400
Power Supply	Options: ①.208V 3Ph 60Hz   ②.380V 3Ph 50Hz;   ③.200V 3Ph 50Hz						
Total Power	2.2 kW	2.2 kW	4.2 kW	4.2 kW	4.2 kW	5.5 kW	5.5 kW
	Total power depends on customer selection						
Industrial Computer	17" Touch screen industrial computer						
Control System	PUC 2.0 (Customizable ERP interface)						
Wireless	WIFI						
Dehumidifier	Options: ①.RH:30%   ②.RH:15%						
Air conditioner	Optioned: 10~30°C						
Scanner	Bar code & QR code						

# OPTIONS

## SLOTS (Reel Housing)

- S1: 7 inch reel (80 reels/S1 )
- S2: 15 inch reel (10 reels/S2)
- ESD design



- S1: 20 positions in a unit  
One position can hold 4 same reels
- S2: 10 positions in a unit

## CARRIER

- Capacity per carrier: 80\*S1 or 40\*S2
- Load per carrier : 50kg/carrier

## TEMPERATURE CONTROL

- To control the ambient temperature of electronic components



Air Conditioner

## HUMIDITY CONTROL

- For MSD components



Dehumidifier

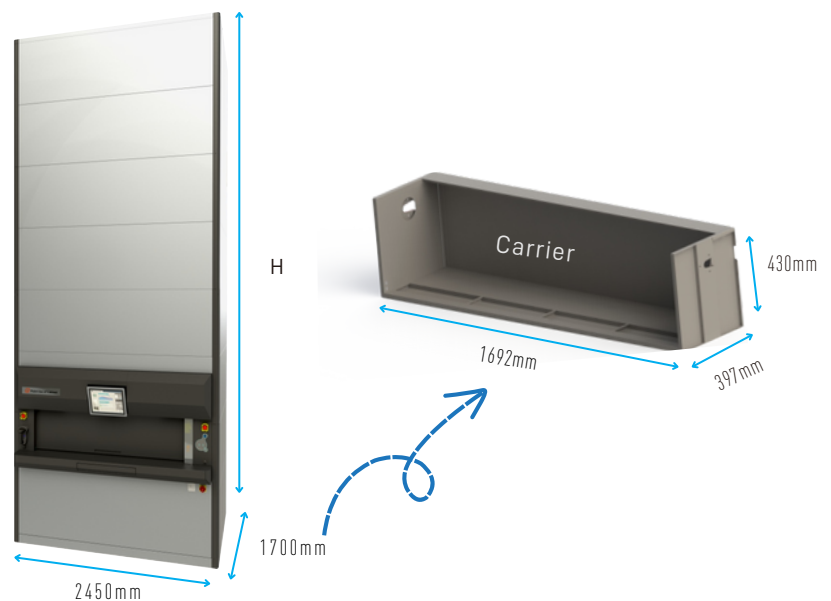
## PORTABLE CONTROLLER

- Remote control cabinet



Portable Controller

# MEASUREMENTS



# ABOUT US

Pacific Trinetics Corporation (PTC) has been dedicated to providing innovative, state-of-the-art process equipment and automation systems for the electronics industry since 1987.

A U.S. company headquartered in California's Silicon Valley PTC is globally renowned for its equipment quality and durability in the multilayer electronic components industry. From large established names to startups to laboratories in the academia users of our equipment manufacture LTCC, HTCC, MLCC, MLPC, MLI, MLV, and Solid-State Li Batteries.

PTC's Process and Factory Automation Division builds on years of experience, partnering with industry leaders to streamline and automate production facilities towards becoming smart factories. PTC's expertise in automation, IoT and Big Data analysis has helped companies excel in Industry 4.0.

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Information in this datasheet is subject to change without notice. Equipment specifications should be confirmed with the PTC sales team, your local authorized PTC sales representative or distributor, or the factory prior to purchase.