





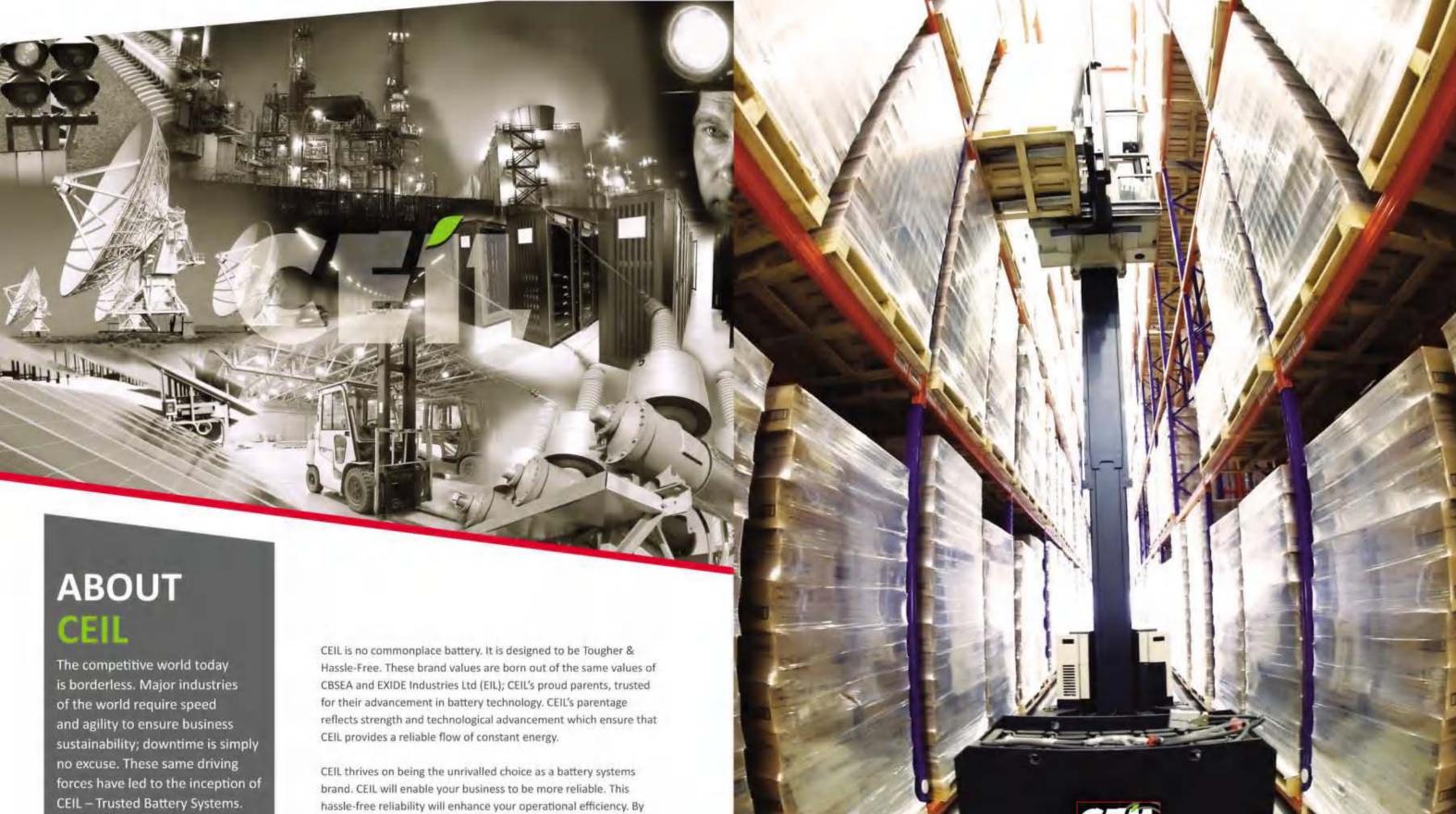


MOTIVE POWER SOLUTIONS

Torr Tubular Technology Batteries | Chargers | Service

ENABLING RELIABILITY





principal economic sectors globally. This is achieved by developing products in tandem with innovative technology and creating contemporary methods of utilising energy in mobility.

CEIL is designed to drive

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CEIL thrives on being the unrivalled choice as a battery systems brand. CEIL will enable your business to be more reliable. This hassle-free reliability will enhance your operational efficiency. By hassle-free, we mean focusing on making your processes free of downtime. You will experience this in our products, process and people.

Your needs remain at the center of everything we do at CEIL, and the dynamics of our customers' trends will lead us to focus on innovative delivery. Within each CEIL Traction battery system, Uninterrupted Standby Power System and Automotive Battery, CEIL is designed to deliver a complete system allowing you to stay reliable and efficient. This is the Trusted value of CEIL.

HIGH REACH

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MOTIFORZ | TRACTION THE INSIDE STORY

Neoprene Grommet

The special grooved design on the inner portion as well as the outer arrests the electrolyte seepage and flow eliminating voltage leakage which is critical to the performance to the battery. This also reduces corrosion on the connector of the battery.

Negative Grid

The patented low antimony grid which ensures support for the negative active material while maintaining a low electrical resistance. To obtain consistency of the highest levels, WIRTZ (USA) technology is applied

Separator

Microporous polyethylene separators from the global sources, which has excellent oxidation and puncture resistance. Its low ionic resistance ensures higher battery power throughout its life.

Negative Active Material

The recipe of the negative active material has been specially derived to enable a perfect complement to the positive plate. The pasting process using the state of the art MAC (USA) machine ensures uniform density and texture throughout the surface area. This greatly enhances the longevity of the battery.

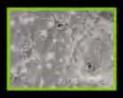


ADVANCED BY DESIGN.

Positive Spine

The backbone of the plate. The positive spines are cast at incredibly high 100 bar pressure with a special low antimony lead alloy formula.

Spine Casting Comparison







GRAVITY CAST (1 Bar)

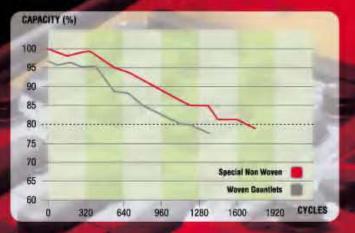
CAST IN LOW PRESSURE CAST IN HADI (100 Bar)

This uses the high technology Hadi (Austria) equipment. This gives an excellent combination of a very reliable frame work and low electrical plate resistance.

Gauntlets & Active Material

The special non woven gauntlets have a unique structure that enable the electrolyte to penetrate more freely while FURTHER reducing the shedding of the active material. This combination of the gauntlets and the specially formulated active material enhances the cycle life of the battery.

Superior Life Cycle of Non Woven Gauntlets



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UPGRADE

Indicating Vent

Level

Plug



All battery ranges are available with options for bolt-on or weld-on intercell connections.

CEIL NX RANGE

CEIL NX Range of batteries provide a high level of power and reliability for all industrial truck applications, from simple applications with a low capacity loading up to heavy load multisift application, the CEIL NX range of batteries have longer running time and better utilization factor.



CEIL ZX RANGE

CEIL ZX Range battery systems (including suitable chargers) are equipped with electrolyte agitation. This has the principle of using air flow within the cell to stir the electrolyte. Electrolyte stratification is greatly reduced and charging efficiency is enhanced by upto 50%.

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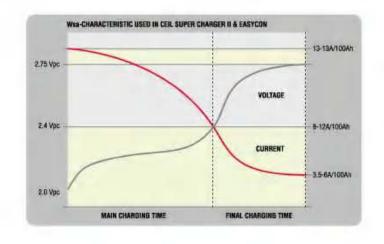




A smart charger that assesses each battery's charging requirements through its patented intelligent technology. This charger is unparalleled for its electrical efficiency will also charge a wide range of battery sizes within a specified voltage.

Key features

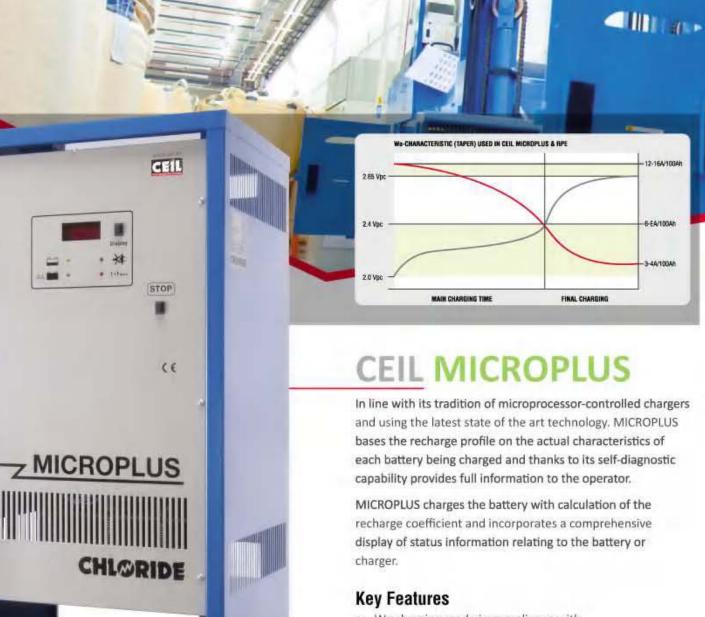
- · Automatic AC Voltage Adaptation No hazard anymore in setting up the individual AC Voltage
- · Charge Data Monitoring Evaluate the efficiency of battery charging before or after the charge cycle
- Charging in 5.5 Hours It can charge the battery in as low as 5.5 hours with the pump module and electrolyte agitation technology with CEIL ZX Range
- · Desulphation Charge Good for the old battery where the sulphation in the plates can be treated efficiently to get a better performance from the battery





TRACTION | MOTIFORZ

CHARGERS PERFECT COMPLEMENT



and using the latest state of the art technology. MICROPLUS bases the recharge profile on the actual characteristics of each battery being charged and thanks to its self-diagnostic

- · Wa charging mode in compliance with curve DIN 41774
- · Auto prevention of overcharging
- · LCD Display with error code
- · Double security timer
- · Facility to adjust equalizing mode

CEIL RPE

The range RPE is available as a 230V 50/60 Hz single-phase input model. The unit is suited to the needs of recharging lead traction batteries in small equipment such as sweepers, hand pallet trucks or small vehicles with the best features like:

Key Features

- · Auto start after 8 sec delay
- · Proportional gassing
- · Microprocessor controlled and multi voltage PC board
- · Security timer
- · Prevention of overcharging



Charger Comparison Table

Sr No	Features	CEIL SUPER CHARGER II	CEIL Microplus	CEIL Easycon	CEIL RPE
1	Multishift Operation		•		
2	Charging in 5.5-6.5 hours with pump module				
3	50Hz without regulation (Wsa Characteristics)				
4	50/60Hz with regulation (Wa Characteristics)		•		
5	Current pulse characteristics	•			•
6	Equalization Characteristics		•	•	
7	Automatic Main voltage adaptation				
8	Auto shut down in case of error detection	•		•	
9	Auto battery check		•		
10	Desulphation charging	•			
11	LCD Clear text display	•	•		
12	Charging Data logging and analysis				
13	Auto start and stop				

CEIL EASYCON

The CEIL Easycon is an extremely efficient, rugged, and reliable tapered charger that is easy to install, operate and maintain. This charger comes with the best warranty offered in the industry and excellent automatic controls including: Charge time delay, charge data monitoring, real-time clock, auto start/stop and backup timer protection.

Key features

- · Auto Equalization: Equalize the voltages for all the cells in the battery after charging to the same level in order to have the better performance from the battery
- · Automatic Battery Check : Checks and monitors the battery health before it charging commences and displays an error signal so that user gets the indication on the battery health in advance and rectify it
- · Charger Temperature Control: Maintains the desired temperature during charging so that there is no additional heat generation in the system



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