

# FORKLIFTS SIMPLIFIED



BYD Electric Forklift Delivers Material Handling's  
Unique & Innovative Battery Technology



## CORE TECHNOLOGY THE BYD BATTERY

BYD's lithium iron-phosphate battery chemistry is completely nontoxic, offering the industry's safest and longest-lasting power source. Founded as a battery company in 1995, BYD is now one of the world's largest battery manufacturers, producing 28 GWh of battery capacity in 2018 and ramping up to produce 65 GWh in 2020.

BYD forklifts are designed as a single piece of integrated technology using proprietary battery management software that provides seamless communication between systems.





## ONE BATTERY MULTIPLE SHIFTS

### Ultrafast, unlimited recharging

Full battery recharge in 1.5 hours or regain 15% in as little as 15mins. Plug in during a break and then work for hours. It's that simple!

### 24/7 Operations

Charging as simple as plugging in your cell phone. BYD's Lithium Iron Phosphate batteries recharge 90% faster than lead acid batteries. Top up to 15% of battery capacity in a 15-minute break, and complete a typical recharge in as little as 1.5 hour. With completely restriction-free charging, 24/7 operations are now a reality.

### Zero Maintenance

Fully sealed and self-equalizing so you never have to maintain, think about or even see your battery again.

### High Capacity

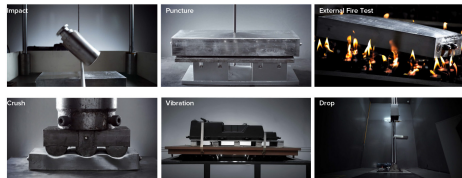
BYD's high-density 80V batteries give you "extra fuel in the tank," providing hours of operation between charges and the assurance that you have the power you need to get the job done for the life of your truck.

### 10-Year Battery Warranty

Backed by a 10-year/20,000-hour full-replacement warranty, the battery will last for the economic life of the truck.



# THE SAFEST BATTERY TECHNOLOGY



## Testing

Samples from each batch must pass rigorous impact, drop, vibration and external fire testing before being released for Electric Vehicle integration.

## Reliability

BYD batteries have been road-proven in over 700,000 electric passenger cars and over 50,000 electric buses.

## Durability

A 10-year track record and millions of on-road miles means BYD batteries are built to last.

## Certificates

UL 1642

UL 2580

UN 38.3

QC / T 743



## ALL APPLICATIONS AND DUTY CYCLES

BYD gives its fleet partners a competitive advantage in all industries—indoor or outdoor, from warehouse to airport.



## INDOORS OR OUTDOORS



### POWER

80V Drivetrain outperforms and outlasts legacy internal combustion forklifts.



### PROTECTION

Sealed components for all-weather use. Optional fully enclosed or semi-enclosed cab.

#### All Duty Cycles

Batteries and chargers are configured to match power requirements for high-throughput multiple shift operations to single shift work environments. All safety oriented, cost conscious fleets can benefit from leaving traditional propulsion systems behind and converting their fleet to BYD.

#### Low Battery Power Protection

When the battery goes below 20%, an alarm will sound. When the battery reaches 5%, the mast will lock up to prompt immediate charging.

#### Power Off Protection

When the truck is unexpectedly powered off when lifting a load, the solenoid valve will automatically close and lockup the truck mast to prevent forward or backward incline.

#### Overload Protection

Forklift has the overflow valve in hydraulic system that offers overload protection when the load exceeds 25% of rated capacity.

#### Charging Port Cover Open Protection

Display shows alert when charging port plastic cover is open and truck is not drivable until the charging port cover is closed.

#### Regenerative Braking

Electric Braking with regenerative system increases the forklift's service time, and reduces wear of brake disc.

#### Hill Hold Control

The Braking Assist System prevents the truck from moving forwards or backwards when break is released on a slope.

#### Corner Speed Reduction

The smart speed sensor will slow the truck down on corners to maintain stability.

#### Fork Overhead Speed Limit

When the fork is raised to a certain height, the vehicle speed will automatically decrease.

#### Hydraulic Cushioning at Floor Level

The hydraulic fork decelerates at floor level to prevent impact and noise.

#### Optional Fork Camera

A camera embedded in the fork extends the operator's view.

#### Operator Presence Sensor

By sensing operator's leaving the cab, the intelligent seat automatically shuts the forklift down to prevent inadvertent forklift operation.

#### Optional Seatbelt Interlock

The forklift will warn the operator if seatbelt is not fastened.

#### Optional Fully Enclosed Cab

An optional fully enclosed cab is available for specific workplaces.





## QUALITY AND RELIABILITY

### Design

BYD's world-class designers are changing the forklift industry by solving the problems that plague legacy forklifts.

### Manufacturing

As a leading manufacturer of automobiles and electronics such as smartphones and laptops, BYD has developed the world's most sophisticated manufacturing techniques.

BYD forklifts are built with major components from world-leading suppliers. Strong vendor partnerships insure industry-best quality, reliability and aftersales support.

### Testing

Rigorous testing insures that every BYD forklift works reliably day in and day out.



## ADVANCED ERGONOMICS

BYD forklifts are comfortable and intuitive to operate, allowing each operator to customize their own experience based on their preferences and the needs of the job.



Rear Grab-Handle with Horn



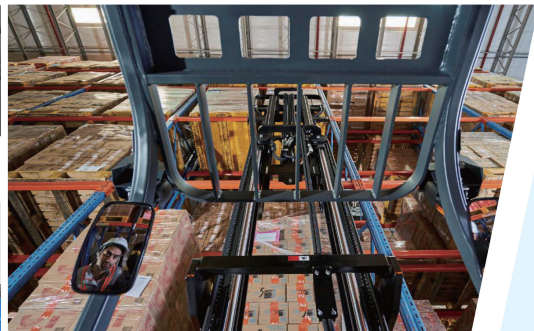
Full-Color Display



LED Lights



Spacious Operator Compartment



Good Visibility at Various Pick Heights

## THE WORLD AT YOUR FINGERTIPS

All sit-down models can be configured with fingertip or lever controls.

### Fingertip Controls

Adjustable armrest with highly sensitive, latest-generation controls lift and shift loads at desired speeds. Varying finger pressure intuitively controls the speed of movements. Ease of use increases productivity and driver wellbeing.

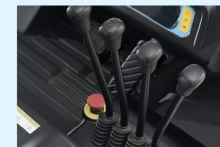


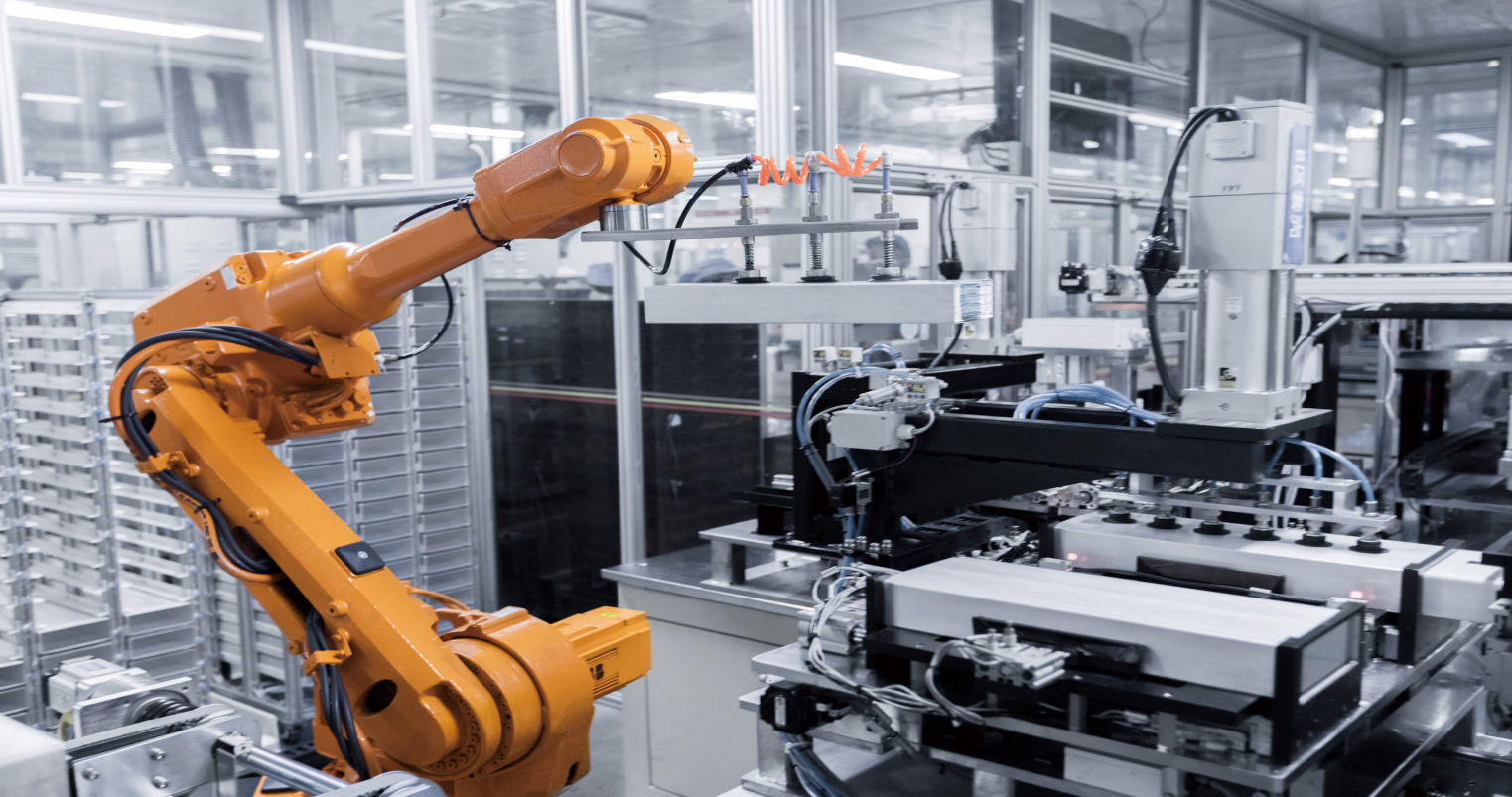
### Seats

Ergonomic and comfortable with extended backrests that provide lumbar support and are suitable for tall drivers. Armrests options include additional storage, convenience tray and charging ports.

### Lever Controls

4 levers provide precise and sensitive control of all truck functions. Option for automatic leveling.





## AUTOMOTIVE TECHNOLOGY IN EVERY FORKLIFT

Charging a BYD forklift is as easy as charging an electric car. Simply open the charger door on the side of the forklift and plug in the charging gun. An electronic "hand shake" between the charger and the port initiates power flow. An additional sensor prevents the truck from moving until the charger is fully disconnected. These and other integrated safety features meet automotive standards. With batteries, chargers and trucks all built by BYD, operators are guaranteed a seamless user experience.







## BETTER FOR BUSINESS BETTER FOR PLANET EARTH

BYD is dedicated to creating a world where good business and a healthy environment go hand in hand. Join us on the path of innovation and transform your workplace into the best it can be.

**Join us in doing our part to change the world, one workplace at a time.**





## GOOD FOR BUSINESS

Increasing productivity while decreasing operating costs: it's a strong business case. BYD's innovative technology is easy to implement and scale, giving immediate economic results.

### Customer voices

"Switching to BYD prevented us from adding a battery room and freed up \$60,000+ annually budgeted for battery replacements."

"We saw pay-back of <1 year with just accounting for the fuel and maintenance alone..."

"Initially a little skeptical, I can't get my operators off their BYD's. We've moved up our replacement schedule."

"We went from how much will it cost to move away from lead-acid, to wow how much can we save. No one can match BYD's value in the market place."



# IFOY AWARD

CeMAT, Hannover

May 31, 2016



## BEYOND STANDARD

BYD's engineering team performs much stricter testing than the industry standard on individual forklift components as well as trucks.

Prototypes are then field tested at customer sites around the world for thorough review and improvement.

## IFOY AWARD INTERNATIONAL FORKLIFT TRUCK OF THE YEAR.

"Through its economic, efficient and environmental-friendly innovation technology, BYD company has provided their customer the real high value-added forklift product." - Hannover, May 31st 2016.





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