



**60** YEARS  
**FORKS**  
135 years VETTER



MADE IN  
GERMANY

## **BIGForks**

Power packages for safe  
handling of heaviest loads

# BIGForks

## Power packages made by VETTER

Toughest use, rough environment, around the clock: VETTER **BIGForks** are first choice as far as efficiency, safety and endurance are concerned. Manufactured on the most modern assembly line for **BIGForks** and equipped with the competence of the market leader, VETTER **BIGForks** are benchmarks in terms of quality and performance. The most comprehensive product range offers solutions for almost all applications.



400 mm  
max. width  
150 mm  
max. thickness



Blade length up to  
5.000 mm\*  
Back heights up to  
2000 mm\*



Capacity per pair  
up to  
130 tons\*



3x static safety and  
1,000,000 load cycles  
with 25% overload  
(ISO 2330)



### Added-value for you: the VETTER service!

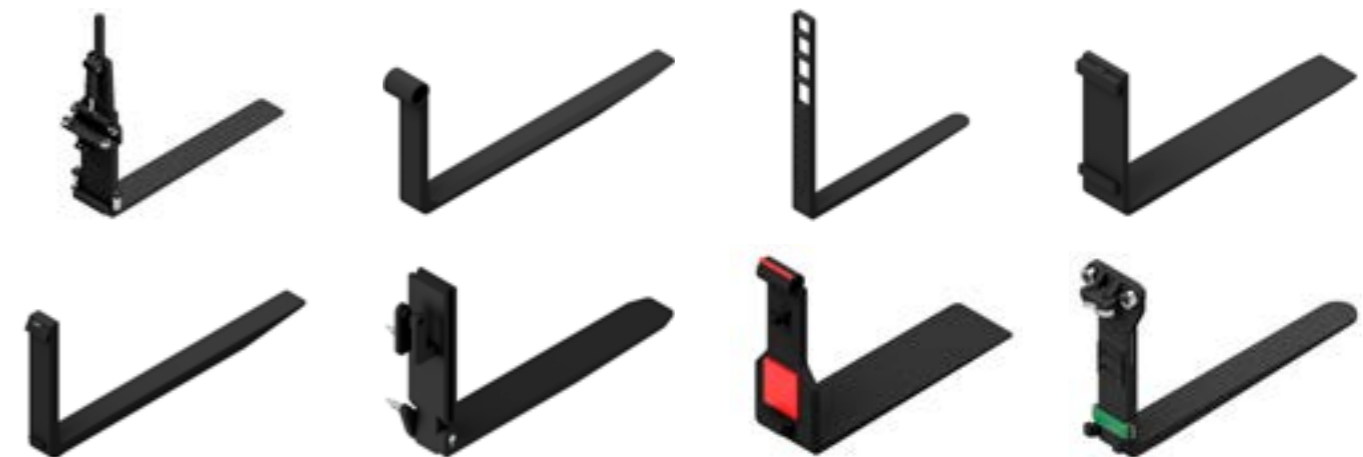
+  
Fork Repair Service

+  
Technical advice

+  
On-site  
measuring service

+  
Mobile coating service

### Suspensions and designs



### Additional options

Forks with level balance



Forks with adapter plate



\*standard dimensions. Alternative dimensions on request.





## The best steel for the best forks

Only the best steel ensures that the fork is able to withstand even the toughest duties. Over decades VETTER has developed steel grades especially designed for the specific needs in the forklift industry. This ensures the toughness, purity, hardness, workability which is absolutely needed – without compromises! No compromises!

QualitätsStahl  
**VQ32+**  
QualitySteel  
The All-Rounder

- High abrasion and wear resistance
- Up to 12 % higher yield strength compared to standard fork steel (i.e. 30MnB5).
- Operating temperature -30°C to +100°C
- High dynamic load capacity

HochleistungsStahl  
**VQ1300**  
High-Performance Steel  
Heavy Duty Applications

- High abrasion and wear resistance
- Up to 51 % higher yield strength compared to standard fork steel (i.e. 30MnB5)
- Operating temperature -40°C to +120°C
- Higher load capacity with the same cross-section or lift more with a smaller cross-section

✓  
Quality from the beginning: 1A fork steel VQ32+ or high performance steel VQ1300

✓  
Efficient application guaranteed: Tight tolerances and smooth surfaces

✓  
Toughness: High-tech heat treatment for tough applications

✓  
Know-How to your benefit: You receive the best solution for your application

✓  
Simply safer: Highest welding quality, certified by ISO 3834-2

✓  
Certified according to ISO 9001 / ISO 14001 / ISO 50001



# BIGForks in use



More about the projects



## BIGForks in wood industry

The challenge in transporting wood and chipboard is the minimal space between the individual packages. The handling of the boards must be carefully, the forks must slide easily between the packages to avoid damage to the material.

### The solution

FTP forks from VETTER: The 400 mm fork blade width ensures an optimal weight distribution and a sufficiently large contact surface. At the same time, the fork blade is very thin, beveled over the entire length and tapers to a fork tip that is only 5 mm thick. Driving into the stacked timber packages is significantly simplified.

## BIGForks in quarry

Forks are put to the test when carrying enormous loads of up to 50 tonnes. But it's not just the weight that affects the forks. It's also the rough terrain that causes the forks to vibrate.

### The solution

VETTER BIGForks with load capacities of up to 130 tonnes and strong resistance to wear set the benchmark! An impressive cross-section of 350 mm width and 150 mm thickness is used in this project. Fork steel VQ1300+ in combination with special heat treatment provides around 50% higher strength for high dynamic loads.



## BIGForks in the metal industry

Aluminium coils are not only heavy, they also require the highest levels of precision and safety when loaded onto freight trains. The biggest challenge is the coils slipping off the forks.

### The solution

The blade surfaces of the BIGForks are mechanically and bevelled to a form which, when the carrier forks are parallel, match the inner rounding of the coil. When entering the coils, the load is evenly distributed without edge pressure. The orange CROC<sup>®</sup> spray coating prevents the coils from slipping and protects the sensitive surface of the aluminium.



## BIGForks for wind turbines

Wind turbines are the hope for the energy revolution. The production, transport and erection of these increasingly gigantic turbines require ever larger machines. This includes the forklift trucks and their forks. The dimensions and load capacities are getting bigger and bigger.

### The solution

VETTER BIGFork with a cross section of 300 x 120 mm and a blade length of 3.800 mm. The forks can be adjusted laterally on the fork carrier thanks to the integrated roller guide.



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