

FRONT-END TIPPING SOLUTIONS
ALPHA SERIES



HYVA[®] TIPPING SOLUTIONS



About Hyva

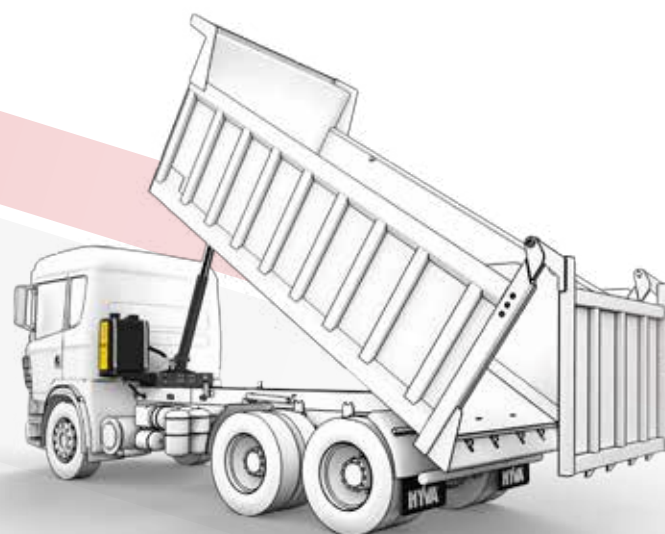
Hyva Group is a leading global provider of innovative and highly efficient transport solutions for the commercial vehicle and environmental service industries. Our portfolio comprises: hydraulics (cylinders and tipping equipment), container handling systems (hook and skip loaders), loading/unloading floors, cranes and waste handling solutions.

Founded in 1979 in The Netherlands, Hyva has manufacturing facilities in Brazil, China, Germany, India, Italy and The Netherlands. Operating in more than 130 countries, the company has more than 2,000 employees around the world, encompassing 38 subsidiaries and 13 production facilities. Hyva products help more than 25,000 customers worldwide to stay competitive.

For more information, visit www.hyva.com

Heritage, innovation and leadership

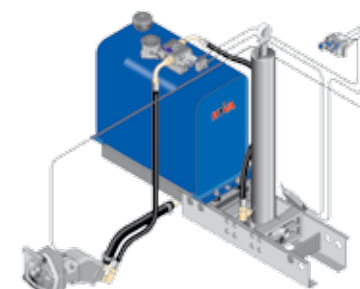
The ALPHA series extends and consolidates Hyva's record of innovation and leadership in front-end cylinders. The ALPHA is the fifth generation of front-end tipping solutions in the past 30 years and the strongest tipping solution in the world. The ALPHA development focused on optimising transport efficiency, safety and reliability in each market segment.



Not just an evolution, but a revolution

ALPHA series redefines the industry standard by providing higher lifting forces in a smaller package. The ALPHA series revolutionises the transport industry with an unparalleled strength-to-weight ratio.

1990



Classic series

170 bar

Key benefits

- Proven quality
- Appreciated by customers
- Easy maintenance

Other benefits

- Functional design

Other considerations

- Heavy design
- Fragmented product line
- Limited capacity
- Higher price

2005



Flash series

190 bar

Key benefits

- Faster
- Lighter

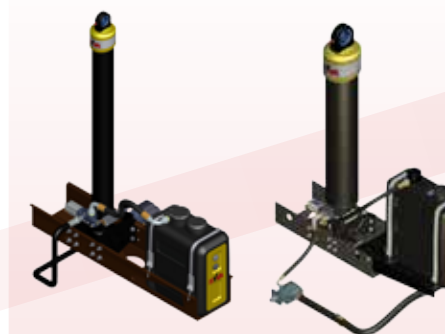
Other benefits

- Longer service intervals
- Improved stability
- Easy service
- Improved modular design

Other considerations

- Higher capacity

2015



Standard

Heavy Duty

ALPHA series

250 bar

Key benefits

- Transport more
- Unload faster
- Save on oil and fuel
- More uptime
- Improved safety

Other benefits

- Quick mounting and service
- Improved stability
- Improved cylinder range
- Exact fit for the application with Standard and Heavy Duty cylinders

Other considerations

- Segmented solution to fit every industry
- Heavy Duty version for off-road use

The anatomy of ALPHA

CYLINDER

Available in Standard and Heavy Duty versions
Higher operating pressure
Faster, shorter cycle time

FILTERS

Optimised oil and air flow
Specialised Heavy Duty version
New design

GEAR PUMP

High pressure
Durability
Faster



TIPPING VALVE

Cylinder mounted
Optimised control
Safer

TANK

Stronger reinforced body
Strap mounted
Oil volume balanced to cylinder

CHASSIS BRACKET

Cast iron
Different bearing options available
Lower weight

Fit for purpose – Why we don't use a one-size-fits-all approach

Our worldwide market presence and experience allows us to understand the requirements of our users in different application areas. Different needs demand different solutions in the construction, transportation and mining industries.



Mining



Transportation



Construction

ALPHA – Not just a cylinder but a complete solution

At Hyva we believe in delivering a solution that can rapidly and successfully meet your requirements, beyond simply delivering a cylinder.

- Complete system is re-engineered from the ground up
- Solutions specific to market segments
- Best performance with the installation of a complete solution
- All our systems go through extensive lab testing on both, the component and complete solution levels before they leave the factory
- Extensive field testing precedes all new product releases to ensure we meet our customers' expectations

Customised solutions for every industry segment



Construction

All-round performance solution that combines reduced weight with increased tipping speed and improved stability.

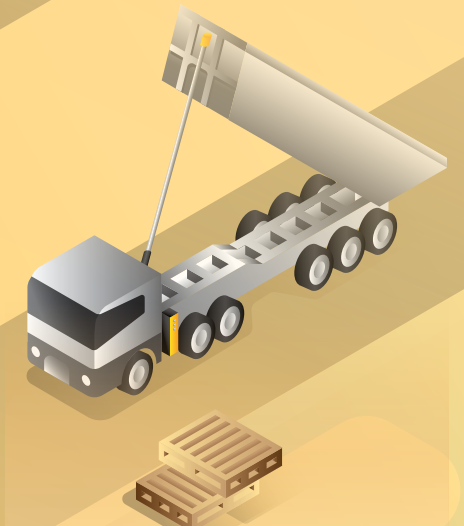
Maximum performance and more payload in a smaller package!



Mining

Heavy Duty solution that focuses on fast tipping times. The new Heavy Duty ALPHA series cylinder has larger overlaps and redesigned stop and lift faces to increase tipping and lowering times by as much as 50%. The high quality filters, heavy duty knock-off valve, cylinder mounted tipping valve and heavy duty brackets all greatly improve operating safety.

Maximum efficiency with high-speed tipping and extreme reliability!

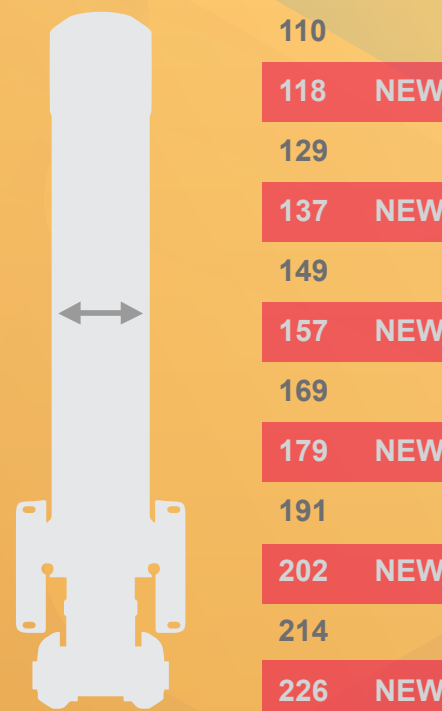


Transportation

Maximum capacity solution aimed at maximising the payload in standard, silo and heavy duty trailers. Increased operating pressure and reduced kit weight allow for bigger payloads. The new cylinder design with redesigned overlaps, guide systems and cylinder mounted valves greatly enhances the safety and reliability of the system.

Maximum payload for long-haul transportation!

Improved range to match your applications



Figures indicate diameter in mm

Faster

Higher operating pressures, up to 250 bar, enable faster tipping and lowering and can deliver shorter cycle times.

More Efficient

Reduced weight, increased operating speed, more reliable components, longer service intervals and lower fuel and oil consumption all contribute to improved efficiency and environmental performance.

Lighter

Reduced weight of components through a combination of new materials and improved design has produced a lighter hydraulic system which translates to higher payloads and reduced operating costs.

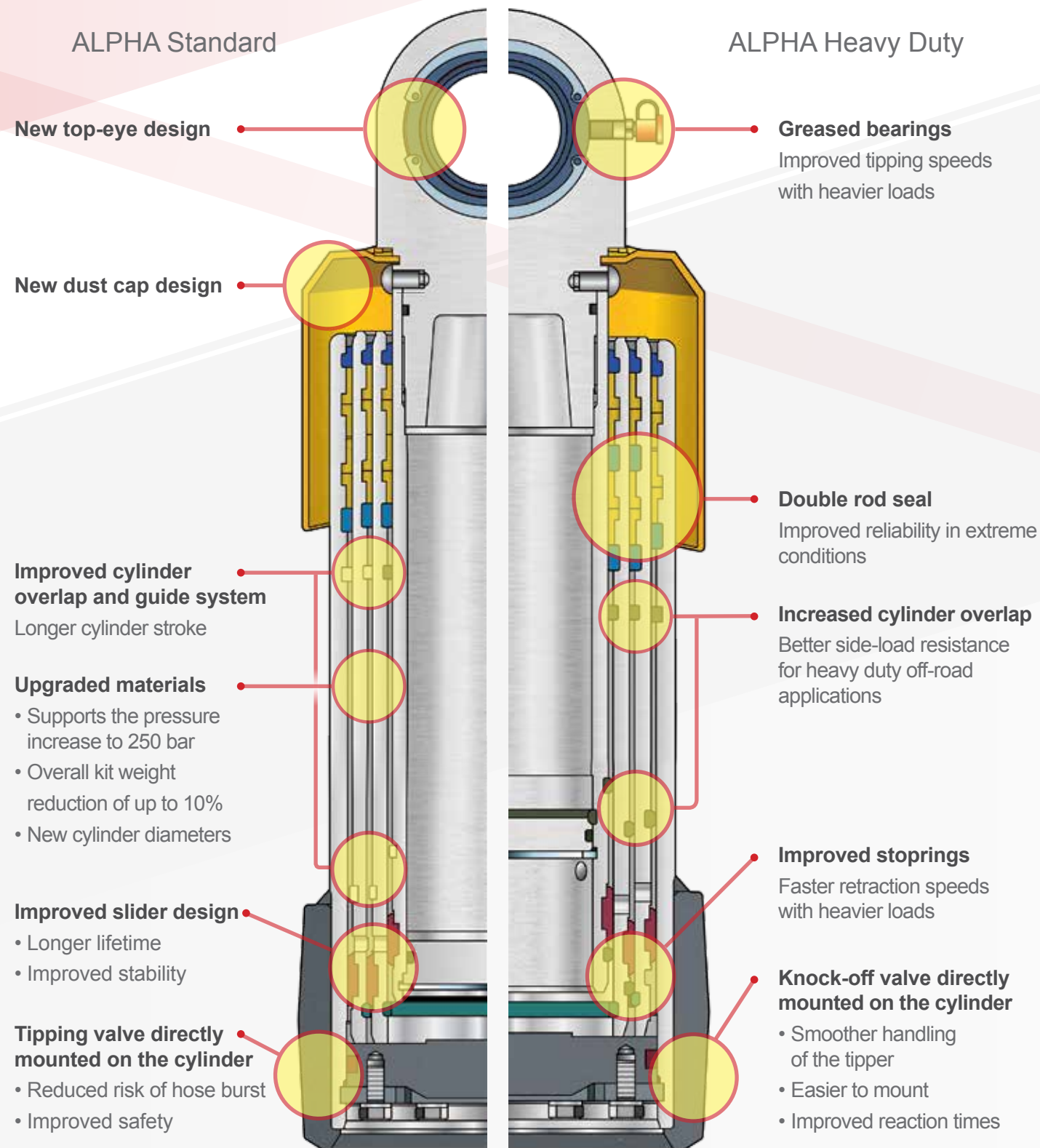
Safer

Enhanced safety with redesigned cylinder overlaps and guide systems and new cylinder mounted HT tipping valves.

ALPHA HD – It’s the inside that counts

The all-new ALPHA HD is specifically designed to work with heavier payloads at higher tipping speeds. Typical applications are in the mining industry or with off-road unloading conditions. The unparalleled 250 bar operating pressure allows for a 25% heavier payload than competitors’ solutions.

ALPHA HD - The power is in the details



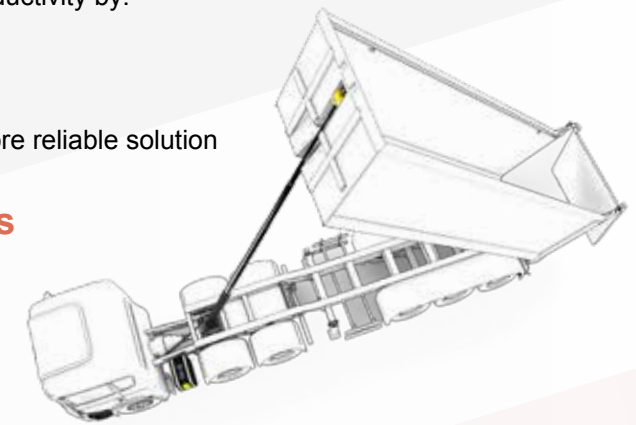
Increased productivity

The ALPHA series cylinder is designed to maximise productivity by:

- Reducing turnaround times with faster tipping speed
- Increasing operating time with longer service intervals
- Reducing downtime with the delivery of a safer and more reliable solution

Benefits for truck body manufacturers

- Wider range of solutions
- Lower weight
- Smaller size
- Reliable
- Faster tipping times than the competition
- Good price/performance ratio with bespoke solutions
- Ease of mounting and installation
- Less oil usage
- Better hose management



In summary...



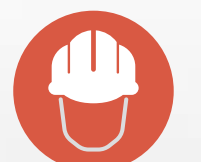
Most efficient = productive and profitable



Faster tipping and lowering = Shorter cycle time



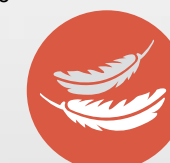
Longer service intervals = Increased operating time



Safer and more reliable = Reduced downtime



Cost effective = Can reduce operating costs



Lower dead weight = Higher payload



Lower oil & fuel consumption = Environment friendly

Tipping Solutions | Cranes | Container Handling | Waste Handling

**Next Generation Tipping Solutions
Lighter, Faster, Safer and More Efficient**



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