



**FRONT END
TIPPING SOLUTIONS**

About Hyva india

Founded in 1997

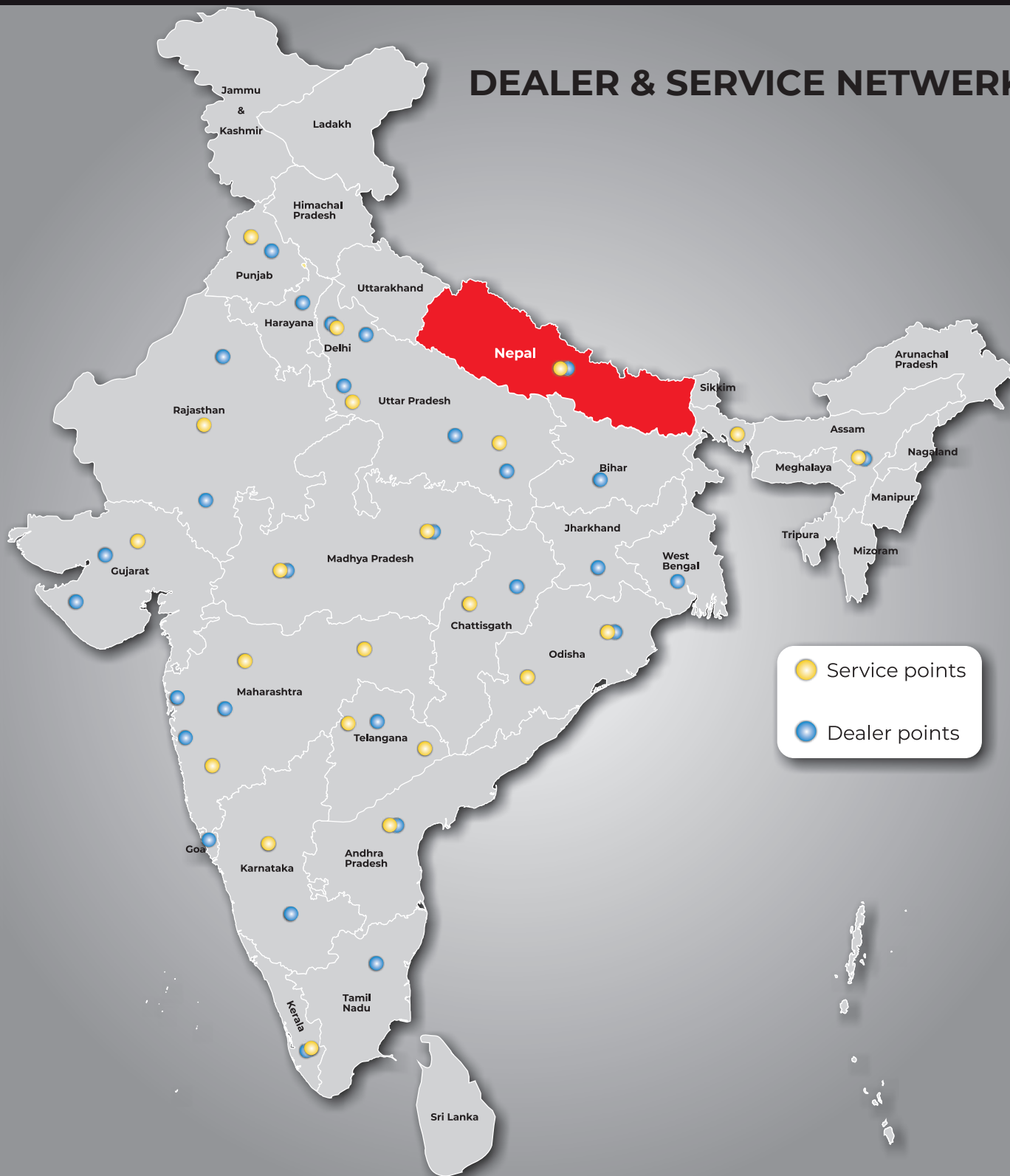
Manufacturing footprints: Navi Mumbai, Pune, Jamshedpur & Bengaluru

Network: 30+ Authorised dealers
75+ Sales & service team

Product range: Hydraulic Cylinder, Tipper Body,
Garbage Compactor, Truck mounted Crane &
Hookloader

Diversified segment: OEM, Retail Market, Government Authority &
Exports

DEALER & SERVICE NETWORK



HYVA INDIA PLANTS



Cost effective applications with increased payloads and bespoke solutions that reduce the impact on the environment.

FC CYLINDER



FE CYLINDER



FRONT END CYLINDERS

Hyva's front end telescopic cylinders are designed for rear-end tippers and tipper trailers.

ALPHA – NOT JUST A CYLINDER BUT A COMPLETE SOLUTION

- Solutions specific to market segments
- Optimal balanced ratio between weight, performance and cost for your product
- Widest range of cylinder from 5 to 100 tons with bespoke solutions
- Very high tipping speed with our heavy duty (HD) Series wide overlaps, dual rod seals
- Easy to service
- Working pressures up to 250 Bar
- High quality, wear-resistant guide rings and hydraulic sealing properties
- Maintenance-free high performance spherical plain bearings
- Extensive field testing precedes to meet our customers' expectations
- Complete system is re-engineered from the ground up

ADVANTAGES OF OUR CYLINDERS



Lower dead weight
= Higher payload



Safer and more reliable
= Reduced downtime



Most efficient
= Productive & profitable



Cost effective
= Can reduce operating costs



Faster tipping and lowering
= Shorter cycle time

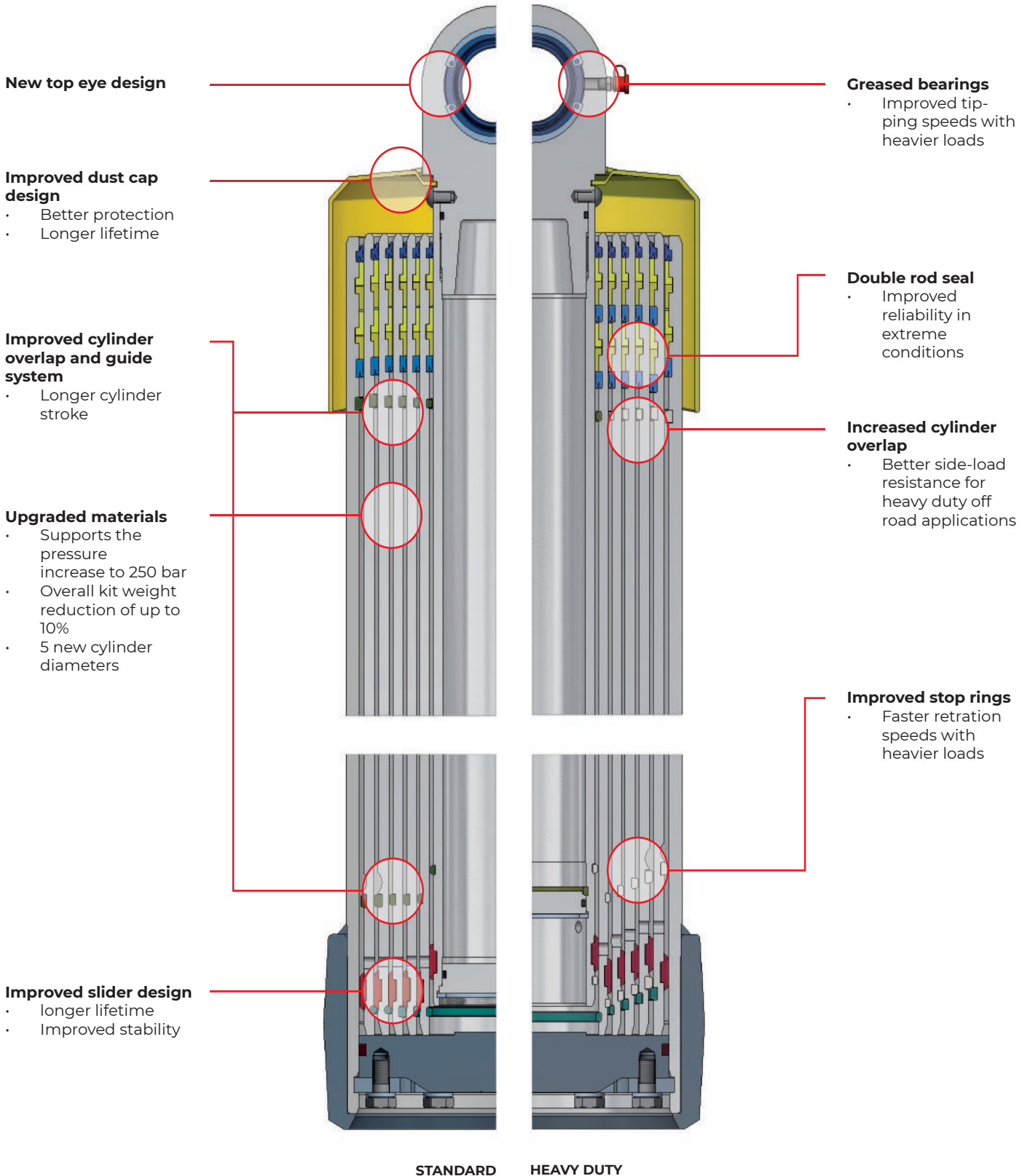


Lower oil & fuel consumption
= Environmental friendly



Longer service intervals
= Increased operating time

STANDARD VS HEAVY DUTY



WETKITS

Hyva Alpha Series is a complete kit – cylinder and wetkit – delivering maximum performance at minimum weight and with the shortest possible tipping cycle. Hyva hydraulic systems are a collection of high-quality, durable components that will work with every type of truck and are able to meet the toughest applications. All our systems go through extensive lab testing on both, the component and complete solution levels before they leave the factory.

TIPPER TRUCK FC WETKIT



TIPPER TRUCK FE WETKIT



BENEFITS

- Higher payload capacity
- Increased productivity
- Light weight, heavy duty and faster performance kits options
- Bespoke kits to fulfil the individual requirements for several markets and application
- Reducing downtime with the delivery of a safer and more reliable solution
- Increasing operating time with longer service intervals
- Optimized oil volumes to use less oil for lower weight, cost and carbon footprint to the environment
- All components are very carefully designed and selected to assure perfect match and easy assembly in short time

FC

Front-End Cylinder with outer cover

FC telescopic front-end cylinders are primarily designed for straight headboard types with a capacity range of over 100 tons tipping weight. Our trunnion type FC cylinders is lightweight, strong, maintenance free and offers the most added stability to the tipper.

The Hyva FC tipping cylinders have earned reputation for their reliability and value for money over many years.



FE

Front-End Cylinder with eye

The Hyva FE cylinder is lightweight, strong, stable, maintenance free and typically used when the headboard is slanted (angled). The tipping capacity for FE cylinders ranges up to over 100 tons.

Our trunnion type FE tipping cylinders bring reduced weight and faster tipping to on-road rigids and (semi-) trailers.



EXPLANATION OF RIGID WETKIT PARTS

CYLINDER

Higher operating pressure
Standard and heavy duty "HD" versions
▶ **faster, shorter cycle time**

TIPPING VALVE

Cylinder mounted optimised control
▶ **safer**

COVER & LIFTING BRACKET

Forged steel and cast iron
Different bearing options available
▶ **lower weight**

KNOCK OFF

Precise actuation
Robust design
Easy installation
▶ **safer**

CHASSIS BRACKET

Cast iron
Different bearing options available
▶ **lower weight**

CRADLE

Standardised kits
Improved hose management
▶ **easy installation & mounting**

PUMP

High pressure
Durability
▶ **faster**

TANK

Reinforced body
Straps mounted
Oil volume balanced to cylinder
▶ **stronger, lighter & more reliable**

FILTERS

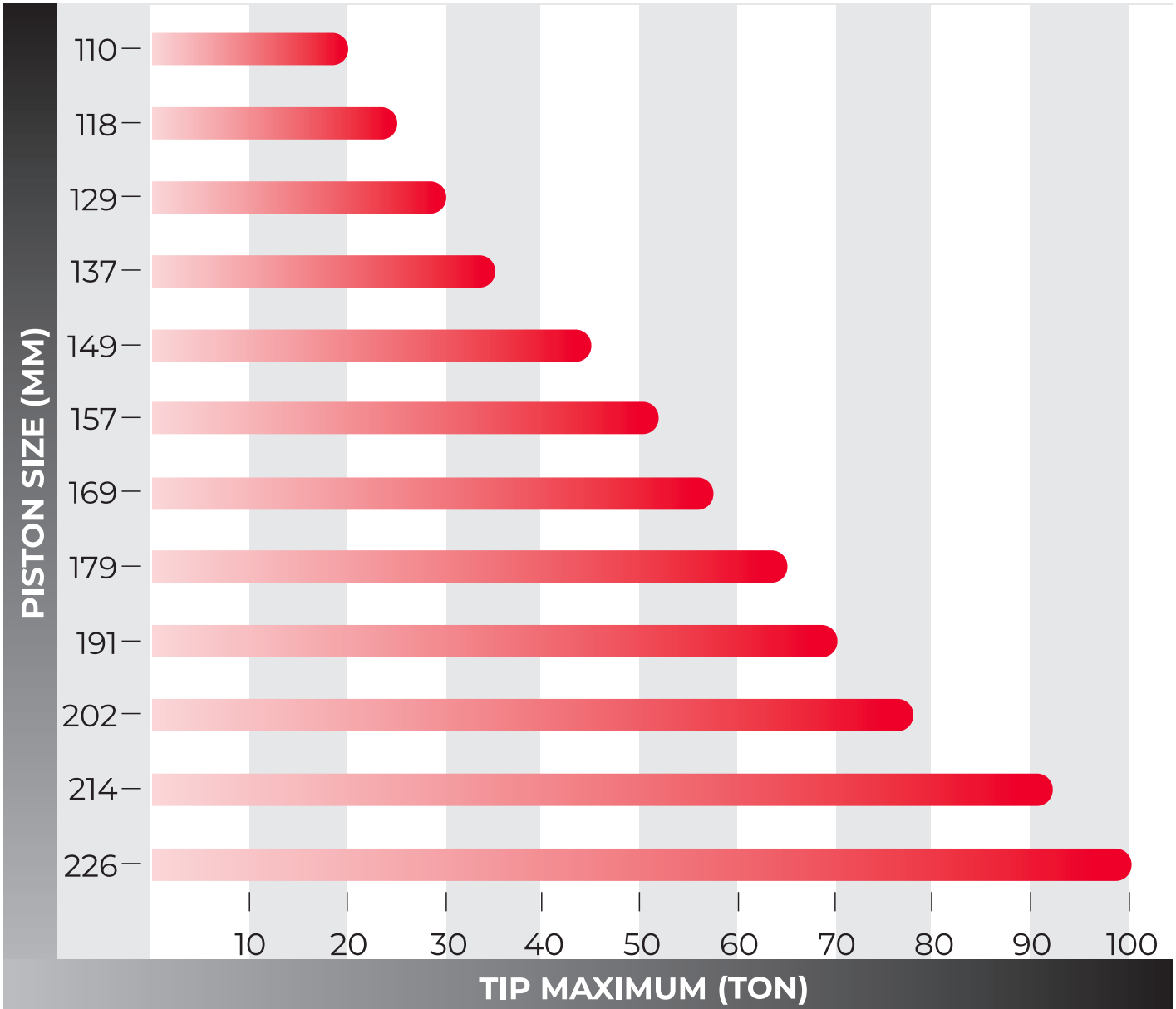
Optimised oil and air flow
Standard and optional heavy duty version
▶ **new design**



FC & FE CYLINDER RANGE

Item code	Cylinder type	Application		
		Construction	Mining	Tip Trailer
	FC series (Alpha FL2)			
70513155	FC A110-3-02635-009-K0343-HD-HC	✓		
70513161	FC A110-3-03150-000-K0343-HD-HC	✓		
70514181	FC A129-3-03395-000-K0343-HD-HC	✓		
70514211	FC A129-3-3845-000-K0343-HD-HC	✓		
70514251	FC A129-3-04235-000-K0343-HD-HC	✓		
70514201	FC A129-3-03635-000-K0343-HD-HC	✓		
70515343	FC A149-4-04525-070-K0343-HD-HC	✓		
70515261	FC A149-4-04185-000-K0343-HD-HC	✓	✓	
70515281	FC A149-3-04220-000-K0343-HD-HC	✓	✓	
70515221	FC A149-3-03830-000-K0343-HD-HC	✓	✓	
70515361	FC A149-4-04845-000-K0343-HD-HC	✓		
70115411	FC A137-4-05125-070-K0343-HD-HC	✓		
70515405	FC A149-4-05125-070-K0343-HD-HC	✓		
70516321	FC A169-4-04825-000-K0343-HD-HC	✓		
70516281	FC A169-4-04505-000-K0343-HD-HC	✓	✓	
70516261	FC A169-4-04165-000-K0343-HD-HC	✓		
70516351	FC A169-4-05105-000-K0343-HD-HC	✓		
70516425	FC A169-4-05385-000-K343-HD-HC	✓		
70516501	FC A169-5-06050-000-K0343-HD-HC			
70517321	FC A191-4-04805-000-K0343-HD-HC	✓		
70517451	FC A191-5-05625-000-K0343-HD-HC			✓
70517593	FC A191-5-07025-014-K1050-HD-HC			✓
70517581	FC A191-5-07025-000-K0343-HD-HC			✓
70517701	FC A191-5-08130-004-K0343-HD-HC			✓
70517491	FC A191-5-06025-000-K0343-HD-HC			✓
70517991	FC A191-5-09030-004-K0343-HD-HC			✓
70518581	FC A214-5-06995-000-K0343-HD-HC			✓
70518491	FC A214-5-05995-000-K0343-HD-HC			✓

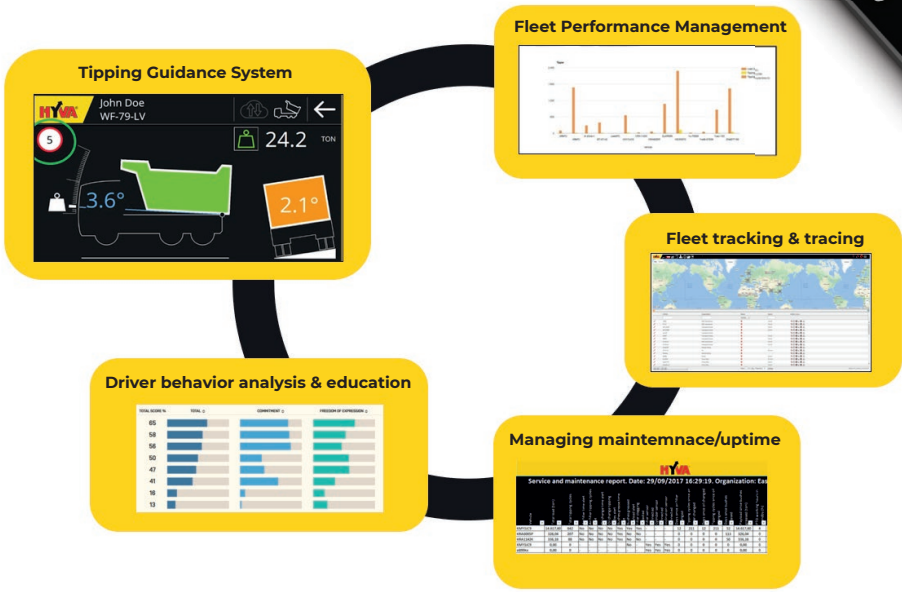
Item code	Cylinder type	Application		
		Construction	Mining	Tip Trailer
	FE series (Alpha FL2)			
70533165	FE A110-3-03150-009-K1400-HD-HC	✓		
70534167	FE A129-3-03145-009-K1399-HD-HC	✓		
70134181	FE A118-3-03395-001-K1450-HD-HC	✓		
70534181	FE A129-3-03395-001-K1450-HD-HC	✓		
70134211	FE A118-3-03635-001-K1530-HD-HC	✓		
70534211	FE A129-3-03635-001-K1530-HD-HC	✓		
70134221	FE A118-3-03845-001-K1600-HD-HC	✓		
70534221	FE A129-3-03845-001-K1600-HD-HC	✓		
70134251	FE A118-3-04235-001-K1730-HD-HC	✓		
70534257	FE A129-3-04235-001-K1730-HD-HC	✓		
70135211	FE A137-3-03620-001-K1530-HD-HC	✓		
70535201	FE A149-3-03620-001-K1530-HD-HC	✓		
70135221	FE A137-3-03830-001-K1600-HD-HC	✓	✓	
70535211	FE A149-3-03830-009-K1645-HD-HC	✓	✓	
70535241	FE A149-3-04040-001-K1670-HD-HC	✓		
70135261	FE A137-3-04220-001-K1730-HD-HC	✓		
70535257	FE A149-3-04220-001-K1730-HD-HC	✓		
70535251	FE A149-4-04185-001-K1365-HD-HC	✓		
70135299	FE A137-4-04525-009-K1485-HD-HC	✓		
70535295	FE A149-4-04525-009-K1485-HD-HC	✓		
70535321	FE A149-4-04845-001-K1530-HD-HC	✓		
70536263	FE A169-4-04165-011-K1364-HD-HC	✓		
70136271	FE A157-4-04505-001-K1449-HD-HC	✓	✓	
70536291	FE A169-4-04505-001-K1449-HD-HC	✓	✓	
70136321	FE A157-4-04825-001-K1529-HD-HC	✓		
70536321	FE A169-4-04825-001-K1529-HD-HC	✓		
70536371	FE A169-4-05105-001-K1599-HD-HC	✓		✓
70536391	FE A169-5-05225-001-K1364-HD-HC			✓
70536473	FE A169-5-05780-009-K1529-HD-HC			✓
70547530	FE A191-5-06230-011-K1532*290			✓
70537531	FE A191-5-06025-011-K1532-HD-HC			✓
70537411	FE A191-5-05200-011-K1367-HD-HC	✓	✓	✓
70137369	FE A179-4-04805-011-K1537-HD-HC			✓
70537369	FE A191-4-04805-011-K1532-HD-HC			✓



- Robust European design;
- Stylish look to suit the OEM cabin;
- More payload carrying capacity;
- Made from high grade material to suit Indian market conditions;
- Tipping body designed to generate extra revenue by optimising the body weight;
- More stable, lighter & productive;
- Tipper designs are always validated by FEA for:
 - Tipping condition
 - Driving condition



HYVA SMART



BENEFITS



- Driver awareness of (tipping) safety, especially under variable operating conditions.
- Reduced damages and liability due to unsafe operation.



- Improved performance due to partial automation of customer workflow, and insights into driver behaviour.



- Reduced manual trip administration.



- Optimized uptime due to planning of maintenance based on actual use.



- Expandable product platform to meet market (segment) specific needs.

FEATURES

- Tipping truck location and history routes
- Tipping truck trip data
- Fleet analysis pages
- Management reports

FOR THE FLEET OWNER

FOR THE DRIVER

- Warning for dangerous side load angle
- Payload indication, body empty indication and tipping summary
- Statistics with amount of load and tipping cycles per day and total lifetime
- Maintenance information and warnings
- Designed for day and night, 24/7

TILT SWITCH

FEATURES & BENEFITS

- Prevent Vehicle Toppling/Roll over
- Prevent Tipping System (Cylinder) damage under heavy side loads
- Prevent damage to tipping body & hinges
- Ensure safe tipping operation
- Cautions unsafe conditions for tipping operations



ADVANTAGES OF BOLTED TIPPER BODIES

- Hyva bolted tipper helps in generating faster revenue as there is no waiting time required for manufacturing of the conventional body.
- Elimination of Welding in Cubing Process
- Reduction in Cubing Time
- Ease of Cubing
- Reduction of overall welding on Tipper body translates to less weld failures
- Bolted Cubing can be done on site without the requirement of welding machines and skilled welders.
- 6 SKD's can be transported on a single trailer to the site and cubed thereby reducing transportation cost.
- In case of an accidental damage or wear and tear of the body, only the damaged part of the body can be replaced at minimal cost.





ADVANTAGES

- European Design - Perfectly blends with chassis aesthetics
- Modular design of body - same body cross-section can match with any truck
- Interchangeable with Existing Chassis / Body.
- Rugged Look & Improved Aesthetics.
- Optimized Design to carry more Payload
- Free Flow of Sticky Material
- Payback Period on Body - 1.6 year.





Offering
“Value through
Innovation”



110 countries
+3,500 employees
20,000 customers
+30 subsidiaries
12 production facilities



Hyva is a leading provider of innovative and highly efficient transport solutions for commercial vehicles used in transport, construction, mining, materials handling and environmental service industries.

Founded in 1979 in the Netherlands, the company has a global presence with more than 30 wholly owned subsidiaries, extraordinary service coverage and 12 manufacturing facilities in Brazil, China, Europe and India.

For more information on Hyva, please visit www.hyva.com

or follow us on:



Hyva India Pvt. Ltd.,
EL-215, MIDC, Mahape,
Navi Mumbai - 400 710.
T: +91 22 6761 8888 or
T: 1800 212 1528
E: salesindia@hyva.com
E: icare@hyva.com



ISO 9001 • ISO 14001

Quality and
environmental certified

DEALER STAMP