

CONSTRUCTION SOLUTIONS



VOLVO

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VTI - Construction Solutions Brochure 03/2019

Volvo Trucks. Driving Progress



A photograph of four Volvo trucks parked on a dirt road at a construction site. The trucks are arranged in a row, facing the camera. From left to right, there is a yellow and blue Volvo truck, a white Volvo truck, a blue Volvo truck, and a yellow and blue Volvo truck. In the background, there are several large construction cranes and a bridge under construction. The sky is a mix of blue and yellow, suggesting a sunset or sunrise. The overall scene is industrial and rugged.

**HAUL MORE.
TAKE YOUR
BUSINESS FURTHER.**

**WITH VOLVO TRUCKS,
ANYTHING IS
POSSIBLE.**

THE GLOBAL LEADER IN CONSTRUCTION.

The Volvo Trucks range of solutions for construction are the right answer for the road ahead. They satisfy the highest demands in productivity and efficiency and open up a new dimension in transport efficiency. At Volvo Trucks, we are committed to the acceleration in the progress of your business. This is why we provide efficient and highly productive solutions that make us an integral part of the construction business.

With a legendary history of innovation and quality in the global trucking space over nearly a century, Volvo trucks are the most preferred construction trucks across the world.



Preferred by the construction industry's most successful businesses across geographies, Volvo trucks give you that much needed winning edge when it comes to building success in the construction business. Powerful, efficient, safe and built with the world's most advanced trucking technology, Volvo trucks are truly a class apart when it comes to performing flawlessly even in the toughest operating conditions.

Globally, Volvo Trucks has made its mark in the construction industry and offers a range of solutions which includes a range of tippers for earthmoving, tractors for tip-trailer applications and trucks for concrete mixer and boom pump applications.



POWERING CONSTRUCTION IN INDIA.

In India, like anywhere else in the world, Volvo Trucks feature in the premium European segment with offerings that maximize productivity for customers. Volvo Trucks provide the best total cost of ownership, superior fuel economy and excellent Aftermarket services. In the Indian construction industry, a highly competitive market means that all of these factors matter a lot. Our customers opt for Volvo Trucks because they know that highly productive and efficient transport solutions are the right choice for the road to success.



With a booming infrastructure sector, the construction industry in India has seen rapid growth in verticals like Road Construction, Irrigation Projects, Hydel Projects, Stone Quarries, Marble Quarries, Granite Quarries and more. Volvo Trucks have also been deployed in major infra projects across India like Polavaram & Kaleshwaram (irrigation), NHAI projects & Maharashtra Samruddhi Mahamarg (Road Construction), Granite and Marble quarries (South India & Rajasthan) To tap the best potential in this vast sea of opportunities, customers need trucks which can deliver the lowest cost per ton, carry more per load and offer the highest productivity and uptime. With a pan India presence, Volvo Trucks accomplish all of these and more by bringing industry leading technology to work for your construction business.

With Volvo Trucks, our customers know that they are in the strongest position to meet their business challenges, like keeping their business on the road or getting the very most out of every drop of fuel.



PRODUCTIVITY

Volvo Trucks are designed to deliver MORE productivity in any transport application and that sets a Volvo Truck apart from other solutions. How a Volvo truck makes it happen is primarily because of following design features:

The truck is designed to carry high payload due to superior drive line , chassis and axles which enables the truck to offer you highest load body capacity in this class. It offers high gradeability, faster operating speed and uptime even at higher loads due to its inherent design factors. The advantage of higher productivity is in reduced number of vehicles, easy fleet management, safer operations and less man power requirements. You actually end up moving more with less trucks and be able to generate more profits and finish the work before time.

UPTIME

Volvo truck stops at nothing. In your requirement of large infra project, the trucks should match the pace of work and run continuously without unplanned breakdowns. Volvo trucks are designed with rugged components, better technology and coupled with our unique site support model, we offer you uptime which is unmatched in the industry. Volvo trucks offer you the advantage of higher uptime, which helps you execute the work as per plan, finish it in time and move on to the next project. More uptime means no need to plan for back up vehicles, savings on maintenance investments and less manpower requirements. You can do more with less. We offer uptime assurance as part of our aftermarket packages which are designed to suit your application demands.



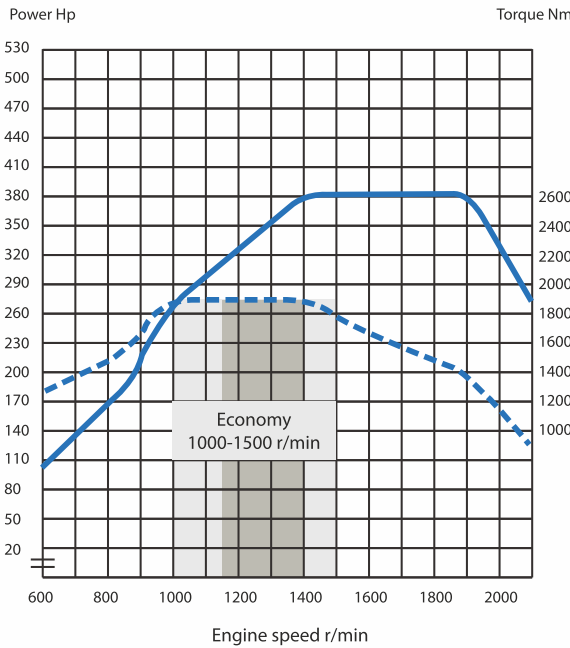


FUEL EFFICIENCY

Fuel costs contribute to almost half of the operating costs in any construction application and even a minor improvement in fuel efficiency can result in significant savings. A Volvo Truck offers better fuel efficiency in terms of ltr/cu.m or ltr/tonne compared to conventional trucks even with a higher horsepower engine. This is because in a Volvo Truck, max torque and power are available at a low engine rpm of 1400 rpm(sweet spot range) while in other solutions, generally max power is available at a very high rpm of >2300 rpm.

What it means to you

- Driver does not have to rev the engine to higher rpm for better acceleration and pickup
- No compromise on fuel efficiency and average speed



Also Volvo Truck is the only manufacturer to offer Automated Manual Transmission(AMT) – I-Shift - in the segment which offers additional benefit in Fuel efficiency by moving the control of gear-shifting from driver to an electronic control unit.

So, you get significant savings on fuel cost, which lowers your cash outflow and overall cost of operation.

DRIVER PRODUCTIVITY

At Volvo, we understand that the most important aspect of a truck's performance is its driver. A truck can have the best technology in the world, but without a good driver it would be difficult to achieve optimal operating efficiency. Air conditioned, noise free and ergonomic, we offer the world's most comfortable truck cabins that keep drivers performing for long working hours even in tough construction sites.

We also offer extensive driver training programs and a host of other cutting edge features like I-Shift transmission to ensure peak driver efficiency.

Volvo solutions are always a class apart when it comes to assuring driver performance. Efficient driving helps your business achieve peak fleet performance. Ensuring driver efficiency is just one of the ways we help your business succeed.



SAFETY

At Volvo trucks, safety is one of our core values. Over decades of building the world's finest trucks, we've invested an extraordinary amount of time and effort into developing in-depth expertise and perfecting safety across all our products and solutions. Our trucks are driven by people and every feature we build and every piece of technology we develop is aimed at ensuring that they help people have a safe environment to work in. With Volvo Trucks, you can rest assured that your truck is secured by the world's leading technology in vehicular safety. We ensure greater productivity and uptime by building the world's safest trucks.



INNOVATION

From inventing the seatbelt to developing self-driving trucks that operate miles underground, Volvo has been at the forefront of innovation for almost a century. We drive progress every day through extensive research which helps in developing technologies that drive the future of trucking. Our solutions are renowned the world over for carrying the most innovative and futuristic features that help our customers get more productivity and value out of them. When you invest in a Volvo truck, you're not only investing in technology but also in an ecosystem where you benefit from our innovation throughout the life cycle of our products.

WHEN YOU NEED MORE

In business there is no second chance without the right partner. Volvo range of solutions for Construction Applications.

ROAD CONSTRUCTION

Movement of Soil, Sand and Aggregates

One of the major construction applications that Volvo Trucks excel at is road construction. As an application with its own unique challenges, road construction is a major segment where quality trucking solutions can make a huge difference to the profitability of businesses. The most prominent challenge in road construction involves the sheer quantities of material like gravel and aggregates like PQC, DLC, DBM, BC, GSB, WMM etc. that have to be hauled from quarries, crushers, processing plants and stock yards to construction sites that may be far from each other. This in combination with short project timelines requires that trucks have to manage high uptime to maintain project feasibility. This is where Volvo road construction solutions easily outshine the competition.

With sheer Power, Torque, better Turn-around Time and much larger load capacities, Volvo road construction solutions deliver much higher haulage and return more uptime than conventional trucks in this segment. Durable build ensures that your fleet can carry different aggregates and still deliver long operational life and maximum uptime across all projects. The Volvo FM 380 with 23 Cu.M box body offers the perfect winning combination in road construction projects. In fact, a single Volvo FM 420 6x4 tip trailer with body capacity upto 45 Cu.M can replace 3 conventional tippers in capacity on any project. With Volvo Trucks, you can ensure higher productivity, lower operating costs, better Turn-around Time, higher reliability and uptime on your road construction projects.

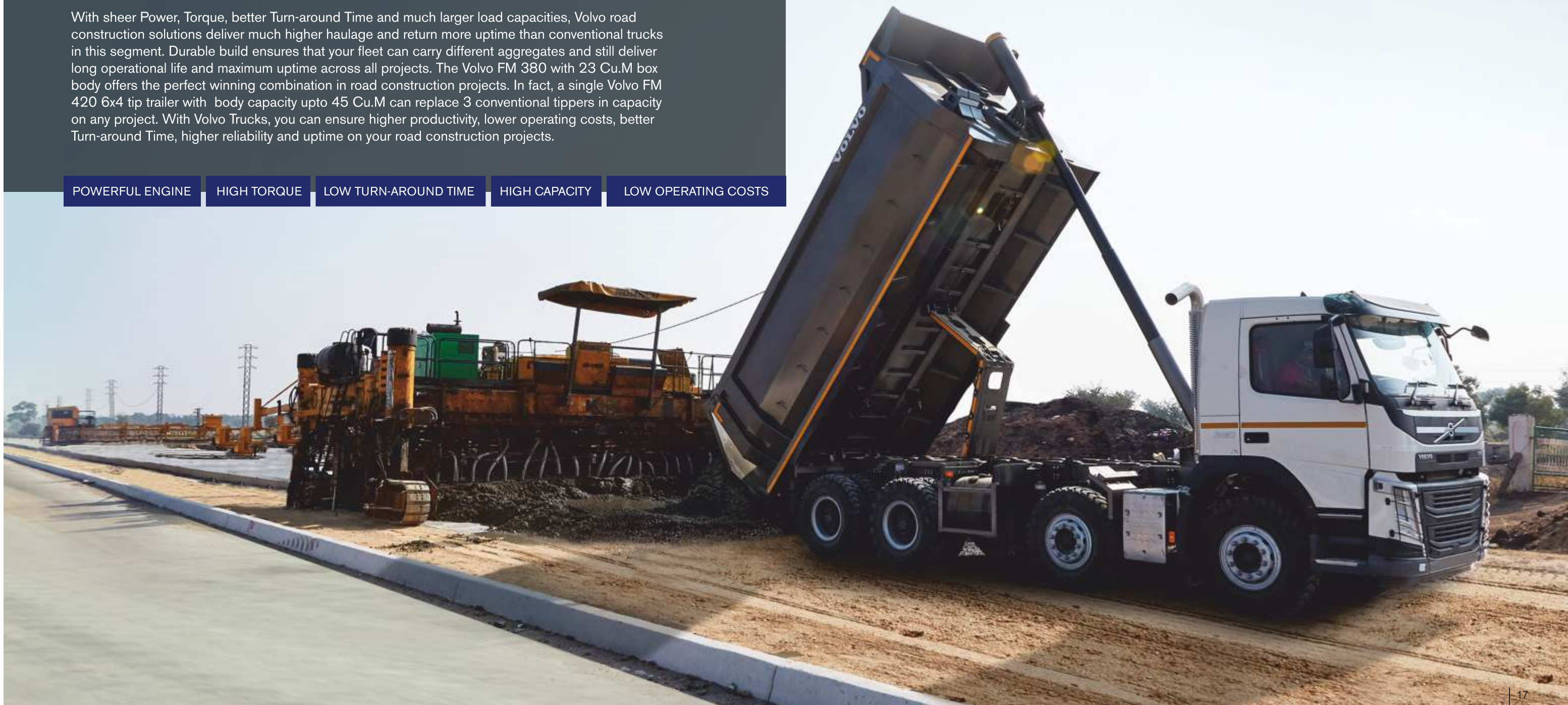
POWERFUL ENGINE

HIGH TORQUE

LOW TURN-AROUND TIME

HIGH CAPACITY

LOW OPERATING COSTS





IRRIGATION

Dam Construction, Earth Works, Aggregate Movement, Soil and Sand

Irrigation projects like dam construction and earth works present unique challenges. Large quantities of red soil, black soil, gravel, blue metal, etc. are transported from different places to the sites. In most of these projects, time constraints are tight and trucks with higher load capacities, low cost of operation and powerful engines are a necessity for seamless operations. Traditionally, these projects are serviced by conventional tippers in the 180-200hp range, however, Volvo solutions offer extra power and much higher body capacities to enable you to succeed with ease at this application. A combination of factors like industry leading technology and innovation ensure that Volvo Construction solutions deliver the highest productivity even in the toughest operating conditions.

With a high technical GVW, the Volvo FM 380 8x4 with 23 Cu.M box body offers the largest capacity load body in this segment. With the best Turn-around Time and lowest cost of operation in this segment, it is an excellent solution for irrigation applications like dam construction, earth works, aggregate movement and soil/sand movement. The Volvo FM 380 8x4 also comes with a powerful and Fuel Efficient engine with a max engine hp of 380 hp & max engine torque of 1900 NM. Overall, this is a winning combination when it comes to higher productivity in irrigation applications. Add to this a highly durable chassis and driveline along with best-in-class service support provided directly from Volvo and you have a truck that virtually ensures a head start in Irrigation projects.

POWERFUL ENGINE

HIGH TORQUE

LOW TURN-AROUND TIME

HIGH CAPACITY

LOW OPERATING COSTS

IRRIGATION

Pump House Construction & Canal Construction

In tough applications like canal and pump house construction, it always pays to have powerful and durable solutions on your side. High power, high torque and high load body capacities are absolute essentials for successful operation in this segment. This is why, at Volvo Trucks, we offer you solutions that help your business succeed by bringing you the best solutions for irrigation applications. The challenges in this segment include tough operating conditions that involve negotiating steep gradients and the hauling of heavy boulder loads over some very difficult terrain. Work sites can often extend hundreds of feet below ground level. Adding to the complications of operating in these conditions, trucks also need to operate in humid environments and maneuver through loose soil while hauling very heavy loads.

Volvo solutions sail through these conditions by offering a winning combination of powerful engine, efficient driveline, superior gradeability, low cost of operation and heavy duty construction. The Volvo FMX 460 8x4 19.5 Cu.M Rock body tipper is a hugely successful platform that has proven its mettle under much harsher conditions in the mining industry. Its 19.5 Cu.M rock body built with wear resistant steel offers large volumetric capacity and longer life in this application. Its powerful and efficient engine with a matching driveline ensures good gradeability, traction and best-in-class Turn-around Time. In short, if you need a truck that will drive your business to success in Irrigation projects, a Volvo truck is what you need.

POWERFUL ENGINE

LOW OPERATING COSTS

HIGH CAPACITY

HIGH TORQUE



QUARRYING

Stone & Blue Metal

One of the major construction applications where quality trucking solutions make a huge difference is stone and blue metal quarrying. This is a segment that demands trucks with high productivity, pulling power, gradeability and robust build quality. High reliability is a key factor for trucks operating in stone quarrying. The sheer amount of stone and gravel that quarrying trucks need to transport on a daily basis through the tough terrain of quarries onto crushers and sites demand solutions that are highly rugged, heavy duty and powerful. What any business needs to excel in the stone and blue metal quarrying business is power, high torque, large load body capacities, high gradeability and low total cost of operation. At Volvo trucks we give you all of this and much more with our construction solutions that meet every challenge in the stone and blue metal quarrying segment.

The Volvo FM 380 8x4 with 19.5 Cu.M Rock Body comes equipped with a powerful and efficient engine that puts out 380 hp and 1900 Nm of torque. With a matching driveline to deliver all this power efficiently, this truck excels at quarrying like no other. Steep gradients and heavy loads are no challenge for this powerful truck that can carry heavy loads and navigate the toughest terrain with ease. A powerful heavy-duty truck with wear resistant steel construction, the Volvo FM 380 can perform the same amount of work as multiple conventional trucks and helps reduce the number of trucks operating in the field. The road to success in stone quarrying operations begins with choosing the best solutions. Improve safety and enhance profitability in your stone quarrying business with Volvo Trucks.

POWERFUL ENGINE

HIGH TORQUE

LOW TURN-AROUND TIME

HIGH CAPACITY

LOW OPERATING COSTS

QUARRYING

Marble & Granite

As an industry with unique transportation requirements, granite and marble quarrying requires trucks that can handle tough terrain, haul heavy loads of overburden and waste rocks while also providing maximum safety to aggregates that are heavy, brittle and precious. Considering the tough terrain presented by most granite and marble quarrying operations, trucks operating in this segment need to have the power and torque to be able to manage steep gradients and heavy loads. Gradeability is of prime importance and so are robustness, load body quality and build reliability. Trucks with a sturdy chassis automatically provide the longest life in this segment. Even with all these features, trucks in granite and marble quarrying need to return the lowest cost of operation in order to maximize profitability.

With maximum power, torque, robust chassis and superstructure, high gradeability and reliability of clutch, suspension and brake liners, Volvo trucks excel at marble and granite quarrying operations. Traditional trucks operating in this segment top out at 280hp, but the Volvo FMX 460 8x4 with 19.5 Cu.M granite body delivers a whopping 460 hp and is an absolute game changer in this segment with much higher power, fuel efficiency and a load capacity well above 40 tons. Markedly less fuel consumption of almost less than 50% of traditional dumpers result in much lower operating costs. Added to this is higher cabin comfort, ease of operation and better productivity. In the realm of marble and granite quarrying, Volvo trucks offer sheer power, productivity and higher profits. If you're looking for the most productive and profitable trucks in this segment, look no further than a Volvo truck.

POWERFUL ENGINE

HIGH TORQUE

ROBUST BUILD

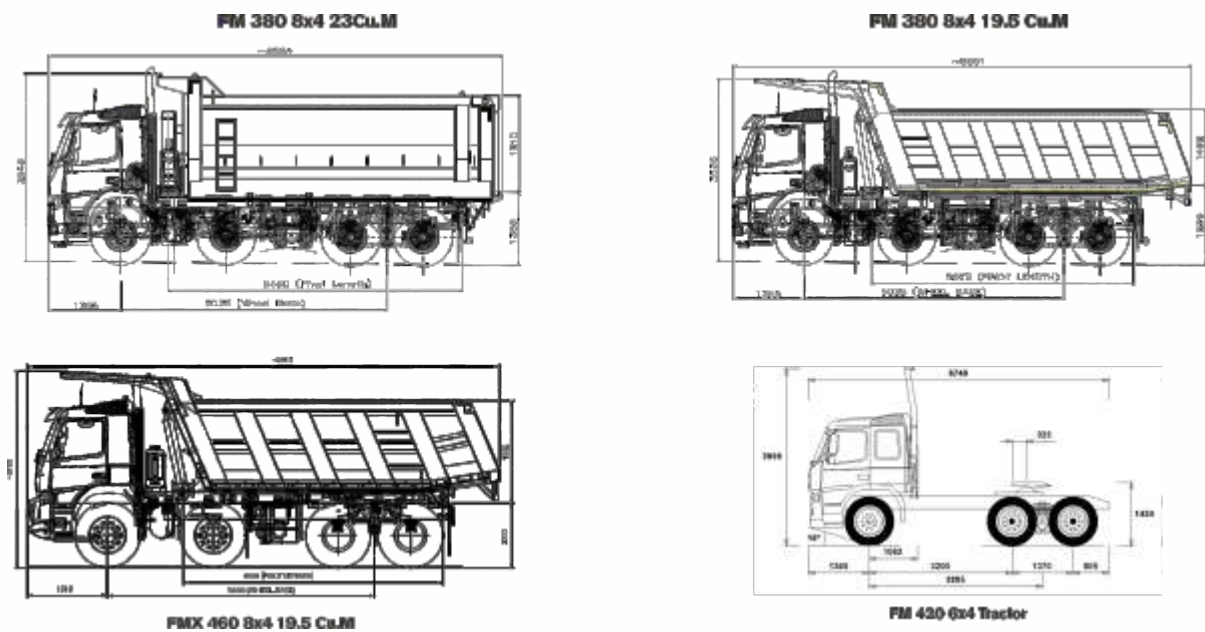
QUALITY LOAD BODY

RELIABLE

HIGH GRADEABILITY



TECHNICAL SPECIFICATION



	FM 380 8x4 23 Cu.M	FM 380 8x4 19.5 Cu.M	FMX 460 8x4 19.5 Cu.M	FM 420 6x4 Tractor
Engine				
Capacity	12.8 Litres	12.8 Litres	12.8 Litres	12.8 Litres
Max Power	380 hp @ 1400-1900 rpm	380 hp @ 1400-1900 rpm	460 hp @ 1400-1900 rpm	420 hp @ 1400-1900 rpm
Max Torque	1900 Nm @ 1000-1400 rpm	1900 Nm @ 1000-1400 rpm	2300 Nm @ 1000-1400 rpm	2100 Nm @ 1000-1400 rpm
Emissions	BS IV	BS IV	BS IV	BS IV
Emission control Technology	Selective Catalytic Reduction	Selective Catalytic Reduction	Selective Catalytic Reduction	Selective Catalytic Reduction
Gearbox	I-Shift (Automated range / splitter gearbox)	I-Shift (Automated range / splitter gearbox)	I-Shift (Automated range / splitter gearbox)	I-Shift (Automated range / splitter gearbox)
No. of gearbox	12 forward + 4 reverse	12 forward + 4 reverse	12 forward + 4 reverse	12 forward + 4 reverse
Other features	P +, HD mode, kick down features for performance driving	P +, HD mode, kick down features for performance driving	P +, HD mode, kick down features for performance driving	P +, HD mode, kick down features for performance driving
Clutch	430 mm dia single disc	430 mm dia single disc	430 mm dia single disc	430 mm dia single disc
Front axle capacity	20000 kgs	20000 kgs	18000 kgs	9000 kgs
Rear axle capacity	33000 kgs	33000 kgs	33000 kgs	32000 kgs
Ratio	5.41 :1	5.41 :1	5.41 :1	5.41 :1

Front suspension	Parabolic suspension with S-shaped leaf geometry	Parabolic suspension with S-shaped leaf geometry	Parabolic suspension with S-shaped leaf geometry	Parabolic suspension with S-shaped leaf geometry
Rear suspension	Heavy duty bogie suspension with conventional multi-leaf spring	Heavy duty bogie suspension with conventional multi-leaf spring	Heavy duty bogie suspension with conventional multi-leaf spring	Heavy duty bogie suspension with conventional multi-leaf spring
Wheels & Tyres	12" x 20" Cross Ply tyres, 8.5" x 20" wheel rim size	12" x 20" Cross Ply tyres, 8.5" x 20" wheel rim size	12" x 24" Cross Ply tyres, 8.5" x 24" wheel rim size	12 R20 Radial , 8.5" x 20" wheel rim size
Chassis Frame	300 mm x 90 mm x 8 mm , partial length inner reinforcement	300 mm x 90 mm x 8 mm , partial length inner reinforcement	300 mm x 90 mm x 8 mm , full length inner reinforcement	300 mm x 90 mm x 8 mm , partial length inner reinforcement
Fuel tank capacity	270 litres	270 litres	270 litres	405 litres
AdBlue tank capacity	32 litres	32 litres	32 litres	64 litres
Brakes	*Dual line air brake with ABS * Z-cam drum brakes *Electronic parking brake activation	*Dual line air brake with ABS * Z-cam drum brakes *Electronic parking brake activation	*Dual line air brake with ABS * Z-cam drum brakes *Electronic parking brake activation	*Dual line air brake with ABS * Z-cam drum brakes *Electronic parking brake activation
Cabin	* FM day cabin * Crash-tested steel welded structure * Ergonomically designed dashboard * Air suspended driver's seat * Cruise control with steering wheel mounted controls	* FM day cabin * Crash-tested steel welded structure * Ergonomically designed dashboard * Air suspended driver's seat * Cruise control with steering wheel mounted controls	*FMX day cabin *Crash-tested steel welded structure *Ergonomically designed dashboard *Air suspended driver's seat *Heavy duty bumper *Robust front towing device rated for 32 tonnes	*FM sleeper cabin *Crash-tested steel welded structure *Ergonomically designed dashboard *Air suspended driver's seat *Lower sleeper bunk with cushion
Dimensions (in mm)				
Wheelbase	5035	5035	5035	3885
Overall length	8740	8850	8920	6740
Overall width	2590	2600	2590	2534
Overall height	3550	3535	3720	3030
Min ground clearance	295	295	390	300
Turning circle diameter	19000	19000	22600	
Superstructure	* All steel U-shaped construction body *Struck volume - 23 Cu.m *Mechanically operated tailgate mechanism	*Rock body *Struck volume - 19.5 Cu.m * Heaped volume (SAE 2:1) - 21.5 Cu.m *All steel welded low CG design	*Rock body /Granite body/ Exhaust heated body *Struck volume - 19.5 Cu.m * Heaped volume (SAE 2:1) - 21.5 Cu.m *All steel welded low CG design	* Tip trailer -max capacity 45 Cu.m * 3.5" heavy duty fifth wheel coupling
Telematics	Volvo Dynafleet Online services	Volvo Dynafleet Online services	Volvo Dynafleet Online services	Volvo Dynafleet Online services
Application	Road construction , Irrigation	Stone quarrying , Road construction	Granite, Marble& Stone quarrying, Irrigation	Road construction

Caution: Do not drill or weld on the frame. Note: Volvo has a policy of continual product improvement. The specifications / images shown here are indicative and are subject to change without prior notice. Performance parameters are subject to stability of the vehicle.

DYNAFLEET

GAME CHANGING TECHNOLOGY.

PROFITABILITY FOR YOUR

CONSTRUCTION BUSINESS.

At Volvo Trucks, we show you the way to profitability by making technology work for you. With Volvo construction solutions, you don't just get industry leading technology and innovation on your trucks, you also get the world's best fleet management system which can make your fleet leaner, meaner and more efficient in every way possible. Just a few years ago, managing your fleet of construction

accessible wherever you go on a wide variety of devices. Regardless of the number of trucks in your fleet or the distances they travel, you will be able to access complete information about your trucks in real-time. The power of gathering collated and concise information about location and performance gives you the kind of control over your fleet that would previously have been unimaginable. Get vital information about your trucks on the go, round-the-clock and gain the ability to manage your fleet better.

With Dynafleet, you can follow your truck's every move as it makes its way through operations. Get to know every single detail and

about your truck that you can then use to review your fleet operations and manage it more efficiently. In the world of construction, we offer you the most valuable tool for success. In the construction business, complete real-time fleet knowledge helps businesses grow by leaps and bounds.

With complete information on fuel consumption, driving patterns and even suggestions based on intended haulage and geographic locations, Dynafleet gives you the ultimate edge over the competition by helping you make decisions on the go. Dynafleet is also available as an app on both android and apple platforms. This makes it easier for you to track your fleet and make prompt decisions and alterations to plans on the move. Gain complete control over your fleet. At Volvo Trucks, we take your construction business online and help you reach profitability and success by making technology work for you.



trucks would have involved extensive work that included site visits, manual log maintenance and relying on data provided by drivers and maintenance staff. However, all that has changed now with our game changing fleet management system, "Dynafleet".

Dynafleet is Volvo Truck's unique fleet management system that connects everything involved in the trucking ecosystem including technology, performance stats, electronics, communication systems, driver ID's, geo-location, etc. and converts it into trackable organized information that is



aspect of your truck's operation through its entire trip and pore through collated data over a period of time to make improvements. Dynafleet helps you achieve what traditional trucks can't. With the all seeing eye that Dynafleet provides, you can maximize profitability with real-time trackable important data



VOLVO TREE TRANSPLANTER

GIVING A NEW LEASE OF LIFE TO TREES.

At Volvo Trucks, environmental care is one of our core values. We realize that environmental degradation is happening at an alarming rate. Rapid urbanization, mining and burgeoning infrastructure projects mean that trees are cut to make way for development with no real foresight and planning as to their replacement. It is a well known fact that deforestation results in severe damage to eco systems.



Bigger and moderately mature trees provide a wide range of benefits like air filtration, producing sufficient oxygen, supporting the flora and fauna, reducing soil erosion, conserving energy, reducing the impact of UV-B rays and acting as carbon dioxide sinks. While newly planted seedlings and young trees help improve the extent of green cover they are no match in comparison to the value benefits of older trees. Hence, for a sustainable future, it is essential for us to conserve trees and protect our environment.

This is why at Volvo Trucks, we decided to work hand in hand with all stakeholders in saving trees that would otherwise face the axe in construction projects across the world. Green cover is our planet's wealth. Without it, we face the prospect of a bleak future. One that is not sustainable. A greener future is in everyone's interests, so we put our technology and innovation to work on solving the problem of deforestation due to construction and mining projects. Amongst the various initiatives we have taken in this direction are developing advanced technology to reduce emissions and provide transport solutions with alternate fuels.

Keeping the need of the hour in mind to save trees and understanding the value of fully grown trees to the environment, Volvo Trucks has come up with the pioneering Tree Transplantation solution. This solution is available in two versions. Fitted onto a truck and as a stand-alone solution that can be deployed to safely transplant matured sturdy trees. Go green. Save the environment one tree at a time. The Volvo Tree Transplanter lets you move trees without having to uproot them and it helps your business join the thousands that have embarked on the effort to work for a greener future along with us.

Brief specification of truck chassis

Wheel base	6285 mm
Engine	13 litre 460 hp BS-IV / Euro 4
Gearbox	12 speed I-Shift gearbox
Rear axles	Hub-reduction axles, RAR : 5.41
Front axles capacity	18000 kg
Rear axles capacity	33000 kg
Tyre size	12 x 20 cross ply off-road tyres

Brief specification of superstructure

Nominal tree trunk diameter	Upto 350 mm
Root ball width	Upto 2800 mm
Root ball depth	Upto 2000 mm
No. of spades	4 nos
Slewing	Continuous
Extended boom	3 stage telescopic extendable boom upto 5800 mm
Stabilizers	4



360° slew mechanism
Enhances accessibility to the tree by allowing the vehicle to be parked in any position, reducing the need of moving the truck back and forth to come to the required position, thereby improving fuel efficiency.



Hydraulic telescopic boom
Permits access to trees located at a distance, where the vehicle might not be able to reach due to obstacles.



Operator console cabin
Enhances the operator ergonomics, which is essential to minimize the damage that might be caused while uprooting the tree.



Powerful driveline and chassis
The truck has a powerful driveline and a robust chassis suited for tough applications in both off-road and on-road conditions.



Stabilizing mechanism
Provides the much needed stability while the vehicle is operating in off-road conditions.



Tree management services
In order to ensure survival of the tree post shock transplantation, Volvo Trucks offers a comprehensive tree care process prior to and post transplantation.

VOLVO FM 420 6X4 TRACTOR FOR TIP-TRAILER APPLICATION

Volvo FM 420 6x4 tractor coupled with a suitable tip trailer is a unique combination which is also an extremely efficient and productive solution to meet your needs to move bulk material. This can be used for long distance movement as well as in house plant operations / port movements where you need high productivity round the clock.

The trailer is customized to suit the needs of the application and operational conditions, and can carry material as heavy as 80 tonnes in a single trip.

Due to the high capacity and reliability of Volvo truck, you can move the bulk material round the clock for many years. The truck offers significantly long life with higher uptime which is unmatched in the industry as the truck is designed to handle heavy duty cycles for longer durations.

It can eliminate the need for large fleet of smaller trucks, save on fuel expenses and manpower requirements and can actually deliver lowest cost / ton for your bulk movements.



VOLVO WATER SPRINKLER PURPOSE BUILT WATER SPRINKLER ON A PROVEN PLATFORM.



In the construction industry, water sprinklers are a universal requirement. Construction trucks travel through dirt tracks and operations always kick up dust that causes pollution, health issues and also poses a problem to the longevity of truck parts. Water Sprinkler trucks perform the important task of keeping dust and pollution levels at manageable levels by spraying water over paths that trucks traverse. Most conventional water sprinkler trucks just spray water over tracks. While this approach works at a basic level, it is neither efficient nor sufficient to tackle the problem of dust pollution in construction operations. With traditional water sprinkler solutions, fine particulate dust will still manage to get into critical areas of trucks and cause wider service issues with parts failing early. At Volvo trucks, we understood the need for a better and more efficient water sprinkler solution for the construction industry. That is how our unique Water Sprinkler solution was born.

Built on an FMX 460 8x4 platform, the Volvo Water Sprinkler solution facilitates smooth fleet operations by using water mist dust suppression technology to keep dust levels low at sites and along tracks where fleets operate. With a capacity of 28KL, the Volvo Water Sprinkler solution is capable of wetting a 12.5 meter (40 feet) wide track while moving at a speed of 40kmph. A uniquely designed hydraulic system drives a centrifugal pump and hydraulic motor assembly through the Volvo engine power take-off (PTO) creating pressurized mist that is delivered through nozzles in gravity/horizontal and vertical sprayer bars at the rear end. This mist settles very slowly and is far better at removing dust from the air than conventional water sprinklers. With a roof mounted water monitor that can spray a water jet up to 30 feet, the truck can also double as an emergency fire fighting truck in emergencies. Featuring front line Volvo innovation and technology, the Volvo water sprinkler truck is the perfect support solution for your fleet of construction trucks.

ENGINE

Six-cylinder, in-line direct injection diesel engine	
Overhead camshaft with four valves per cylinder	
Electronically regulated fuel injection with unit injectors	
Heavy duty turbocharger and intercooler	
Engine Management System with driving information and diagnosis	
Displacement	12.8 litre
Bore x stroke	131 mm x 158 mm
Compression ratio	18.1:1
Max. power	440 hp@ 1400-1800 rpm
Max. torque	2200 Nm @ 1050-1400 rpm
Economy speed range	1050-1600 rpm

GEARBOX

Automated range / splitter gearbox	
Heavy duty transmission oil cooler with additional radiator	
No. of gears	12 forward + 4 reverse

WATER SPRINKLER BODY

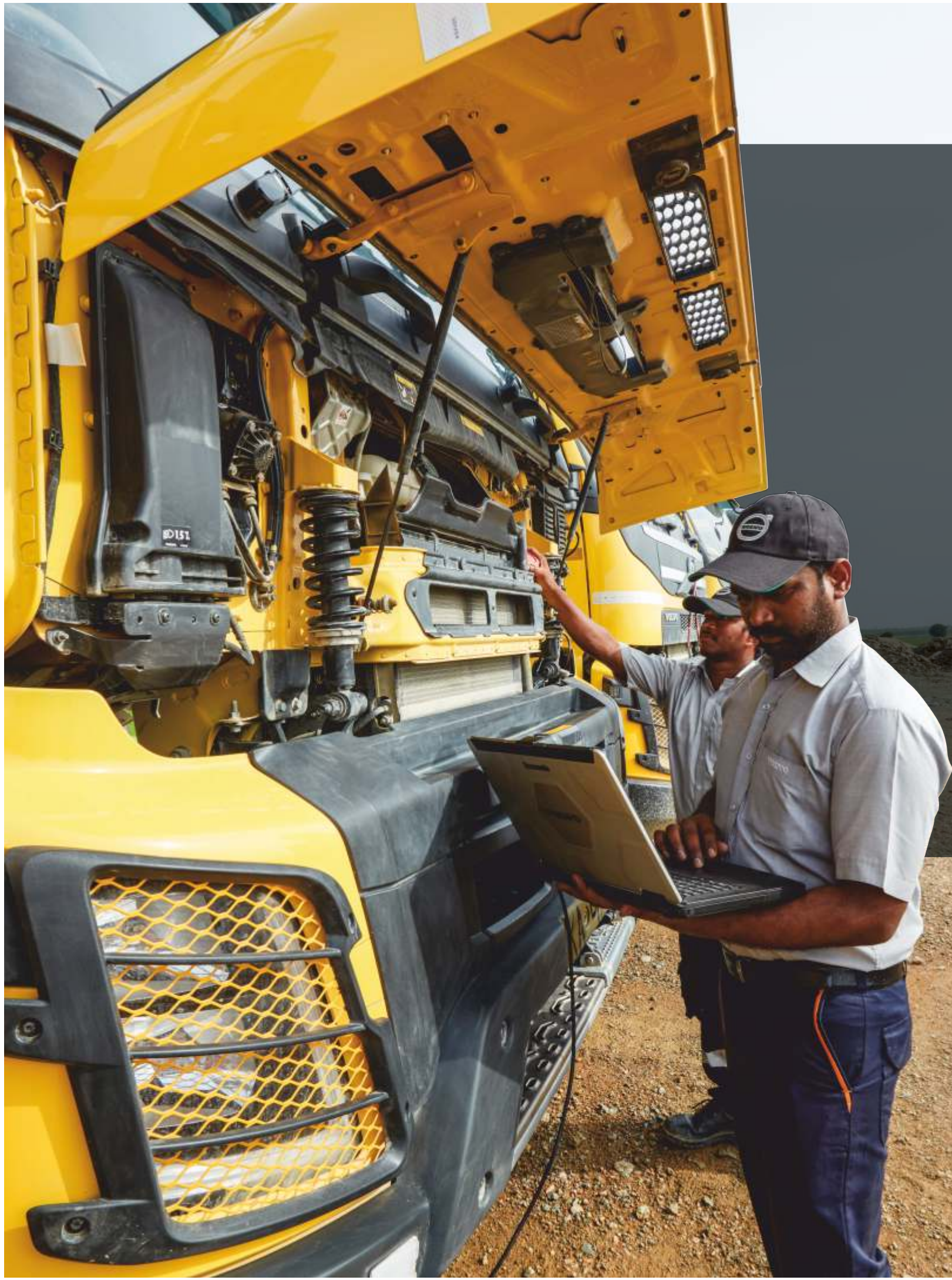
All steel welded construction	
Double D-type design with interlinked compartments	
Capacity	28 KI
No. of compartments	5
Discharge through rear butterfly valve, side sprinkler and water gun	
Loading through 450 mm dia hole in each compartment	

VEHICLE DIMENSIONS, mm AS PER CMVR

Wheel base	6285
Overall length	10015
Overall width	2590
Overall height	3400
Turning circle diameter	23200
Minimum ground clearance	340

MIST SPREAD IN (MTR)

Range	5 - 7
Height	3
Width	12 - 13



AFTERMARKET

Profitability begins with the right partners.

In the construction industry, profitability is a mix of various factors. A truck or fleet is only as good as the people behind it and this is where Volvo Construction Solutions excel beyond comparison. At Volvo Trucks, we focus on ensuring that your fleet continues to perform at its best, delivering the best-in-class vehicle uptime, fuel efficiency and driver productivity. With initiatives like the competence development centre, where we train drivers, fleet managers and technicians on best practices to achieve high productivity and efficiency, we're at the forefront of delivering benchmark productivity across all industries our trucks operate in. With a core focus on the people behind our trucks, we not only believe in protecting your investment, but also enhancing uptime, safety and productivity across all the solutions we offer. Simply put, our aftermarket services complement our range of world class trucks.

COUNTRYWIDE SERVICE NETWORK

We have a widespread network of parts & service in India and our uptime centres are operational 24/7, 365 days of the year. Our support network is divided into four regions with every region having dealerships at strategic & key locations. Every support centre is fully equipped with state-of-the-art infrastructure, tools, equipment, systems and processes etc. In our endeavor to provide leading aftermarket support to our customers, we have site support teams at customer locations which are very remote and challenging. Highly skilled and competent technicians are posted at sites to ensure high uptime of our vehicles. Container workshops, fully equipped with tools & equipment, are deployed at major construction sites to offer quality service at customers' doorsteps.

Our trucks are just a part of the ecosystem of our products. What makes a real difference to how our products perform are the elaborate Aftermarket services we offer. We don't just stop at selling trucks. We offer you solutions that deliver high productivity and lifelong profitability to your business. With driver productivity programs and elaborate fuel coaching that helps drivers ensure peak efficiency at all times, we go to great lengths to ensure that our products perform at peak levels throughout their life cycle. At Volvo Trucks, we also offer you tailored service contracts that are planned and priced in advance. They help you increase your fleet's uptime, lower the cost of ownership, total operating costs and boost your bottom line.

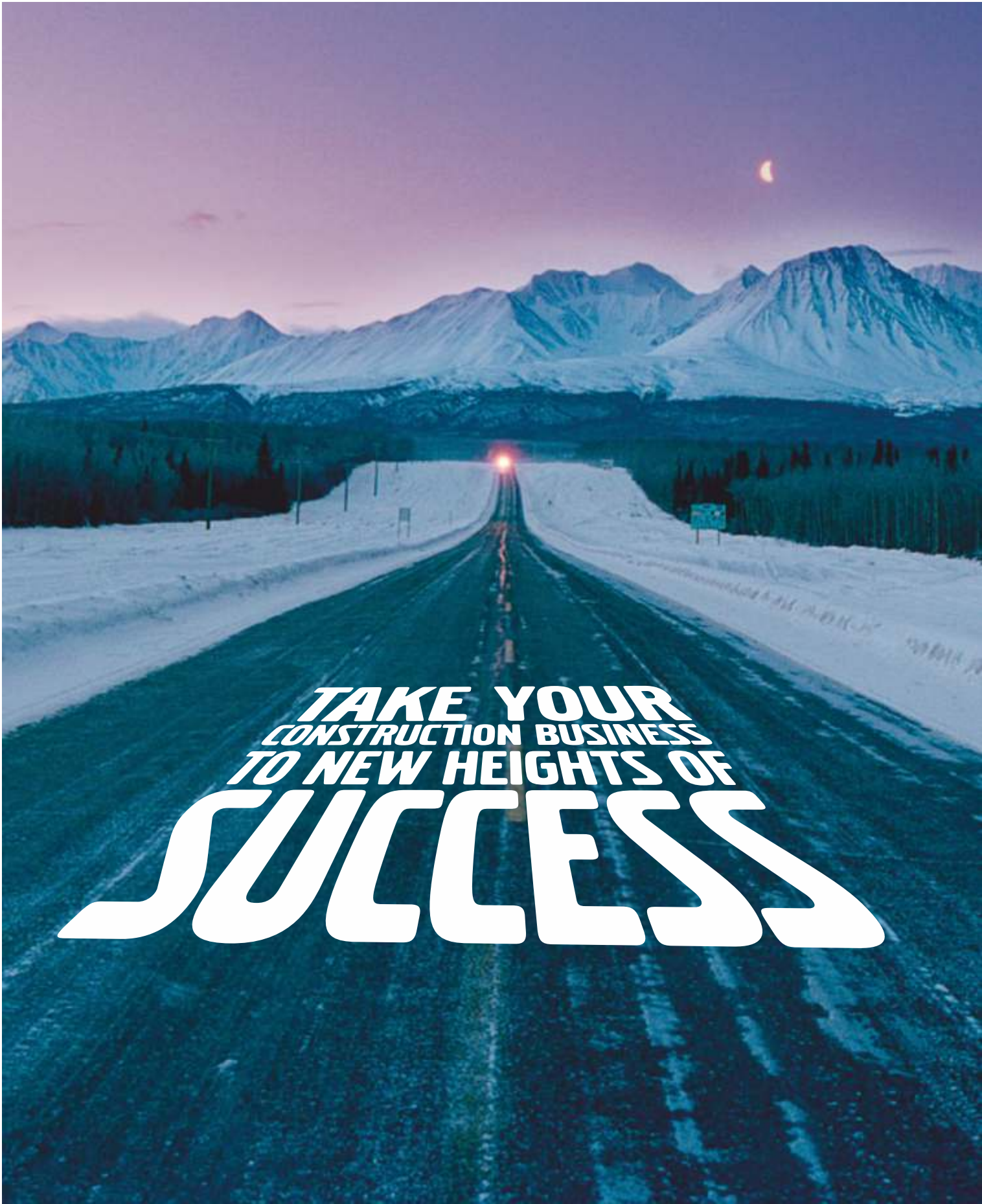
GENUINE VOLVO PARTS

SERVICE AGREEMENTS

COMPETENCE DEVELOPMENT

SUPPORT NETWORK







**TRUCKS THAT
TAKE YOU TO SUCCESS.
A TRUSTED PARTNER
TO ENSURE THEY DO.**