

SMT

SERVICES MACHINERY TRUCKS

MINING & QUARRY SOLUTIONS

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MINING & QUARRY SOLUTIONS

SMT offers the full range of machinery, from the most trusted and toughest brands in the industry, including rigid dump trucks, bulldozers, articulated haulers, excavators, wheel loaders and trucks.

Based on expertise and experience, SMT can provide highly valuable services for project management for each specific customer in any remote location within our network. By defining customer requirements and expectations, SMT is able to enter supplier-customer partnership during the whole life of the project:

- Site Simulation programme enables a skilled engineer to calculate the numbers and types of machines with attachments required to optimise your productivity. Site Simulation assists in assessing onsite transport, haul road and fleet alternatives based on input data such as weather conditions, road structure, incline and distance, production target and material density. The software gives you an estimate of total cost of ownership (TCO) of the equipment
- Describing the necessary investment (efficient stock of parts, workshop, warehouse, tools)
- Offering a performing service team

SMT supports the business of our customers during operations by providing associated services such as:

- Training programmes onsite and with simulators for operators and technicians
- Connected machines
- Periodic fluid sampling
- Ground engaging tools management

Financing Solutions

SMT has established a strong network of professional financing partners, both in Africa and in Europe, with the expertise and the resources to ensure you secure the funds to achieve your business goals.

From a single vehicle to a large fleet, our asset management specialists can offer a range of tailored trade finance and insurance packages that supports your operation.

Our customer-focused team works with you to understand your business needs, your constraints and your goals to frame the appropriate finance arrangement.



SITE PREPARATION

SMT understands that site preparation is a key planning process in creating access to the mines or quarries and its development to ensure an efficient extraction process.

Volvo Articulated Hauler

The Volvo Articulated Haulers are capable of operating throughout the year including most part of the wet season. They do not require daily or weekly scheduled maintenance thereby offering maximum uptime. Once deployed, they can help in quickly accessing the pit. The Volvo Articulated Hauler features Automatic Traction Control (ATC) which automatically selects the optimal drive combination to ensure high traction and mobility while saving fuel consumption. Switch between 6x4 mode for lower fuel consumption and less tire wear and 6x6 mode for maximum traction. Volvo engines deliver high torque at low engine rpm lowering fuel consumption whilst enabling heavy loads in difficult terrain and on steep grades. The optimized drive train maximizes the rim pull and can negotiate grades up to 45%.

Volvo Excavator

The Volvo Excavators are a perfect match for the Volvo Articulated Haulers with the matching bucket, high digging forces, and quick cycle times. The proven fuel efficiency is further accentuated with the unique ECO-MODE concept which lowers fuel consumption to match required production.

Volvo offers a range of excavators to enable optimal combination with haulers for site preparation jobs.

Volvo Compactor

Volvo Soil Compactors feature a dual, high and low, amplitude eccentric design which is easily selected by the operator from the control panel. Versatility to adjust the dynamic drum force due to changing conditions. The top-hinged engine hood provides complete and easy access to the engine and hydraulic components. It is designed to provide efficient maintenance and inspections with minimal downtime.

Dressta Bulldozer

Dressta's large and mid-sized dozers have proven themselves in some of the world's toughest mining sites. A dozer delivers maximum efficiency when it is equipped with the right blade and ripper. Dressta offers a range of attachments to suit every application. For even greater productivity, you can have the machines fit with reinforced blades or severe service track shoes for extreme mining applications.

Articulated Haulers

	A25G	A30G	A35G	A40G	A45G	A60H
Load capacity (kg)	25000	29000	34500	39000	41000	55000
Body volume (m ³)	15,3	17,8	21,2	24	25,1	33,6
Engine	D11	D11	D13	D13	D16	D16



Dressta Bulldozers

	TD-15M Extra	TD-20M Extra	TD-25M Extra	TD-40E Extra
Operating weight (ton)	20,6	24,2	41,5	67,7
Blade capacity (m ³)	7,04	7,04	9,6	18,6
Engine output net (hp)	190	240	330	515
Drawbar pull max (kN)	535,3	620	791	1157



EXTRACTION

SMT offers you a cost effective, safe, efficient and environmentally responsible dig, load and haul solution.

Volvo Excavator

Choose from a range of Volvo Excavators to maximize production. Reinforced heavy-duty boom and arm built from high tensile steel increases reliability in severe applications. Various boom and arm configurations are available. Volvo perfects the excavator bucket's point of attack with a robust Self-Sharpening Tooth System that delivers performance and long life. Enjoy all-round visibility and comfort in Volvo's industry-leading cab which features an adjustable premium seat and ample space. The Volvo robust undercarriage improves durability and reliability in demanding terrain.

Volvo FMX

The Volvo FMX is a single truck solution with a high payload. Perfect for quarry transports that require moving high volumes of heavy material and fast cycle times. A Volvo Truck tackles heavy loads with ease, shrugs off poor terrain and steep gradients. Quite simply, it's a truck that enjoys the rough life. Volvo's world-famous driveline is a particularly good friend in demanding terrain. The truck is enhanced with equipment and features that make it simply unbeatable in tough, demanding conditions.

Volvo Wheel Loader

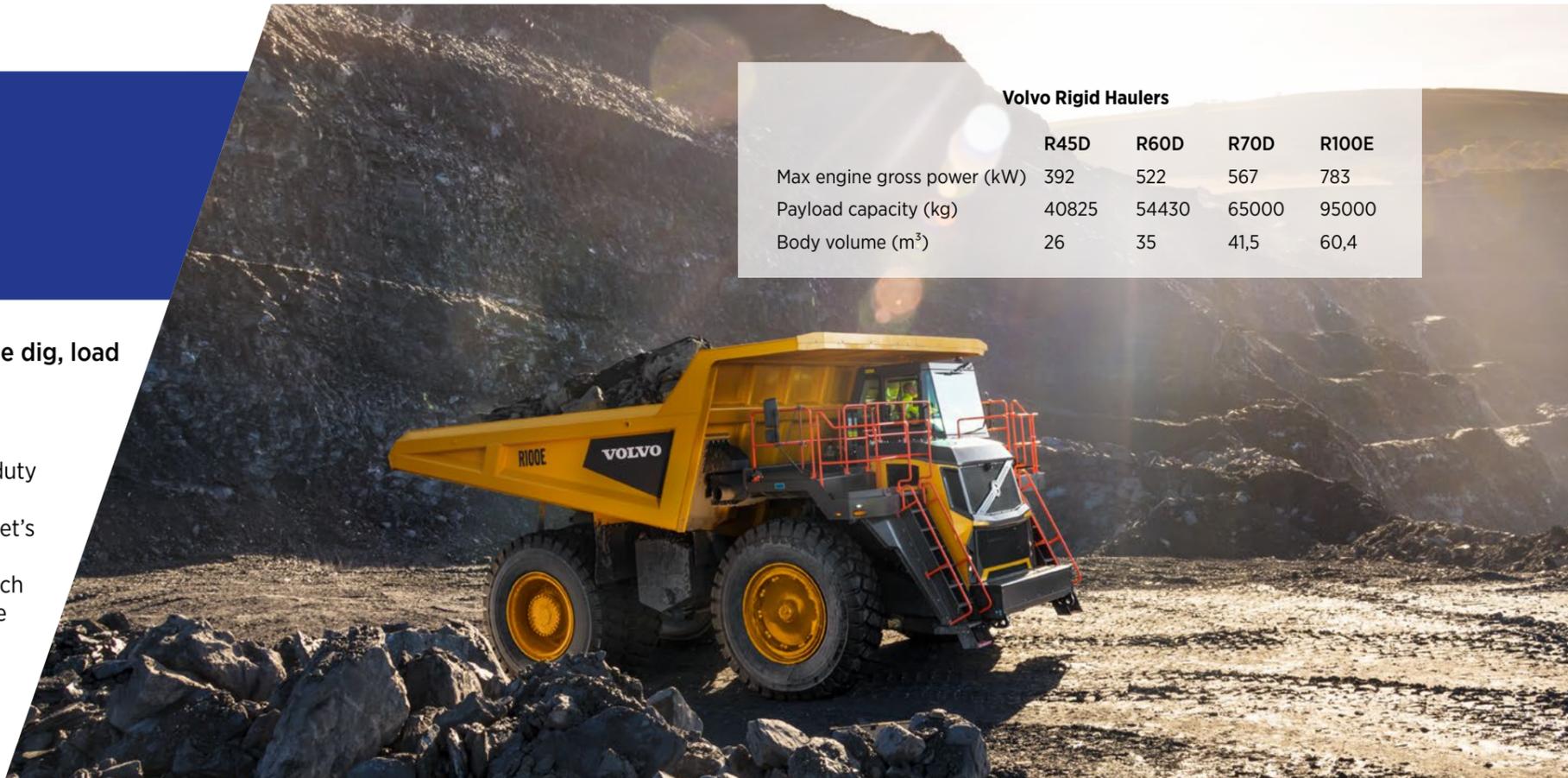
Volvo's efficient turbocharged diesel engine generates more power, while consuming less fuel due to high torque availability at lower engine rpm. The purpose-built drive train is solely designed and manufactured by Volvo. The engine, transmission, axles, hydraulics and steering are developed as one unit to provide optimized performance, lower fuel consumption and maximum reliability for long machine life. Market leading lifting and breakout forces contribute to an easier bucket fill, increased productivity due to more fill factor and faster cycle time.

Volvo Rigid Hauler

The Volvo Rigid Haulers offer a standard transmission retarder, promoting extended service brake life, safety and performance. You can navigate gradients with ease thanks to superb tractive efforts offered by the complete drivetrain design and configuration. Robust protection ensures long component lifecycle with the transmission control system, neutral coast inhibitor and overspeed protection. Real-time tonnage is the key to productivity with the On-Board Weighting system, designed to ensure you shift the optimum safe payload.

Volvo Rigid Haulers

	R45D	R60D	R70D	R100E
Max engine gross power (kW)	392	522	567	783
Payload capacity (kg)	40825	54430	65000	95000
Body volume (m ³)	26	35	41,5	60,4





Optimal number of passes

		EC380D	EC480D	EC750D	EC950E	L150H	L180H	L220H	L260H	L350H
	Bucket/body m ³	2,3	3,3	5,2	6,0	4,4	4,8	5,4	5,8	6,9
A25G	15,3	7	5	3	3	3	3	3	2	
A30G	17,8		5	3	3	4	4	3	3	
A35G	21,2		6	4	4	5	4	4	3	3
A40G	24		7	5	4	5	5	4	4	3
A45G	25,1			5	4			4	4	3
A60H	33,6			7	6			6	5	4

Excavator* glossery

- Well matched, 4-6 buckets
- Excavator under capacity, 7 buckets or more
- Reach matching depend on site layout and need to be evaluated case-by-case

Wheel loader glossery

- Well matched, 2-4 buckets
- Loader under capacity, 5 buckets or more
- Loader undersized for optimum match, reach might be an issue

*Buckets in this chart may not suit the specific application.

Volvo Excavators

	EC380D	EC480D*	EC750D	EC950E
Operating weight (ton)	38,3 - 39,7	49,0 - 50,5	72,9 - 74,5	89,9 - 91,8
Bucket volume (m ³)	1,68 - 2,78	1,8 - 3,8	3,3 - 5,2	3,9 - 6,2
Engine gross power (hp)	283	348	523	611

*Mechanical, variable undercarriage

REHANDLING OPERATIONS

SMT understands that you need to move materials quickly, day in & day out. Capitalize on short cycle times, high lifting forces, controllability and excellent fuel efficiency.

Volvo Wheel Loader

In tough work environments, machines need to perform. That's why the Volvo Wheel Loaders are purpose-built for rehandling operation with more counter weight and a bigger bucket size to optimize each load for increased productivity and profitability. A turbo charged engine that generates high torque at low engine rpm and standard OptiShift feature that improves drive performance contribute to superb fuel efficiency.

Volvo patented OptiShift consisting of two powerful systems namely the torque converter with Lock up and Reverse by Brake system (RBB). These features work in tandem during short cycle loading as well as load and carry operations delivering faster cycle times, better fuel efficiency as well as drive comfort.

Volvo Articulated Haulers

Powered by the world-renowned Volvo engine, the Articulated Haulers deliver excellent fuel efficiency without compromising on power or performance. Strength and durability are hallmarks of the Volvo articulated hauler. With its large wheels, stable boogie and rear over hang the Volvo ADT is an excellent tool for building stock pile as it can safely dump the load over the edge.

The machine is optimized for efficiency featuring high payload capabilities. Its smart design allows for more capacity while reducing fuel consumption so you can move more for less. With guaranteed fuel efficiency, this machine will increase your profitability and improve your return on investment.

On-Board Weighting system is a standard on all Articulated Haulers provided by SMT, with external indication, it enables you to prevent over loading and helps you keep track of your production. The load and dump brake enables the operator through simply pressing a button, to apply the brakes during loading and dumping.

Volvo Trucks

The Volvo FMX is ready for the toughest jobs. This truck stands up to heavy loads, poor roads and challenging inclines. With its smooth and powerful driveline, sturdy chassis and comfortable cab. The chassis range is immensely versatile, which among many advantages makes things easier for the bodybuilder. And the cabs are every bit as comfortable and safe as you'd expect from a Volvo. There are options that can haul gross combination weights well in excess of 100 tonnes.

Volvo Wheel Loaders

	L110F	L120Gz	L150H	L180H	L220H	L260H	L350H
Bucket volume (m ³)	2,7 - 9,5	3,1 - 5,2	3,1 - 27	3,7 - 14	4,5 - 14	5,3 - 10,2	6,2 - 12,7
Operating weight (ton)	18 - 20	17,8 - 18,6	24,4 - 27	27 - 29,5	31,1 - 34,5	34 - 39	50 - 56,3
Tipping load (ton)	11,2	8,1	15,9	18,8	20,9	23,7	34,2
Engine power (hp)	230	243	303	340	379	420	540





Volvo FMX

**Euro 3 - 13 litre engine
400-520 Hp / 2000-2500 Nm**

Axles

Drive configuration	4x2 / 4x4	6x4 / 6x6	8x4 / 8x6	10x4 / 10x6
Body volume (m ³)*		15,5	20	21
Load capacity (T)*		26	32	44

*Depending on the configuration

EXTRA EQUIPMENT

Attachments

Attachments are an integral part of the machine to ensure perfect match with the equipment and the job site requirement. They are designed for optimal visibility and high productivity suited for Wheel Loaders, Excavators and Bulldozers to provide support activities in mines and quarries. For efficient bucket changes and multi-task performance, Volvo offers the integration of a quick fit for its Excavators and Wheel Loaders. Quick fit systems are an essential tool to help you get the most versatility and performance from your machine.

Road Maintenance

Volvo Soil Compactors deliver requisite centrifugal force to compact tough soil on mine haul roads during preparation and maintenance. A well maintained haul road contributes to reduced tire wear, cost of maintenance due to less wear and tear while moving on the road. The Volvo Soil Compactor combined with SDLG Graders is an ideal combination for maintaining mine and haul roads.

Special Application

A fantastic range of configurations can be tailor made to perfectly suit basically any type of application for your Truck, Articulated Hauler or Excavator:

- Fuel trucks
- Water trucks
- Crane trucks
- Concrete mixers
- Explosive handling trucks
- Lube trucks
- Machinery transports
- Rescue vehicles
- Mobile workshop
- Drill rigs

Material Handling Equipment

Sennebogen offers a large range of material handling equipment for optimal loading cycle time. The Sennebogen Material Handling Equipment are used for various loading operations on ships, barges, train wagons, trucks, stockpiles. For maximum comfort and excellent site overview the material handlers are equipped with a hydraulically elevating cabine. Material handling machines are available with robust modular undercarriage solutions (mobile, crawler, rail, gantry and optionally heightened with pylon) for customized applications.

People Transportation

SMT offers buses with several combination for chassis and body tailor-made for your needs. For transportation of your employees onsite, we offer 50 to 62-seater and for transportation within the site we offer all terrain 12 to 22-seater buses that can also be suited for executives.



TOP PERFORMANCE REQUIRES TOP SUPPORT

SMT Service Contracts

SMT Service Contracts provide servicing and maintenance for your equipment with optimal cost control and reduced downtime. Highly flexible solutions allow you to meet the maintenance needs of your equipment, from regular inspections to comprehensive repair, servicing and maintenance programmes, using genuine parts and the expertise of manufacturer-trained technicians.

CareTrack

Stay connected to your machines via remote monitoring and experience new levels of control and efficiency with CareTrack, the Volvo Construction Equipment telematics system. With CareTrack you can reduce fuel costs, optimise machine and operator performance and proactively manage service and maintenance to maximise uptime.

CareTrack gives you access to a wealth of information? allowing you to take actions that will have a noticeable impact on your business. The system is divided into packages that are tailored for different business needs. You can pick and choose the exact information that you need for your business such as service management, operation reports and On-Board Weighing.

Rapid response

In our subsidiaries, SMT has a permanent stock of trucks, machinery and parts ready to be delivered by a professional team. Our quality equipment is tailored to your environment and backed by our unrivalled aftersales service. Our speed of delivery and quality of service ensures your premium equipment continue to be reliable, productive and deliver low running costs for the highest profit of your company.

Peace of mind

Our workshops are fully equipped with the latest manufacturer's diagnostic systems and all the specific tools required for maintenance and repair of the products we sell. Customise the maintenance of your equipment according to the specific needs of your operation using fixed price packages – everything you need to ensure lower operating costs. Whatever your business, our teams will help you avoid downtime and unexpected costs for greater peace of mind.

SMT Academy

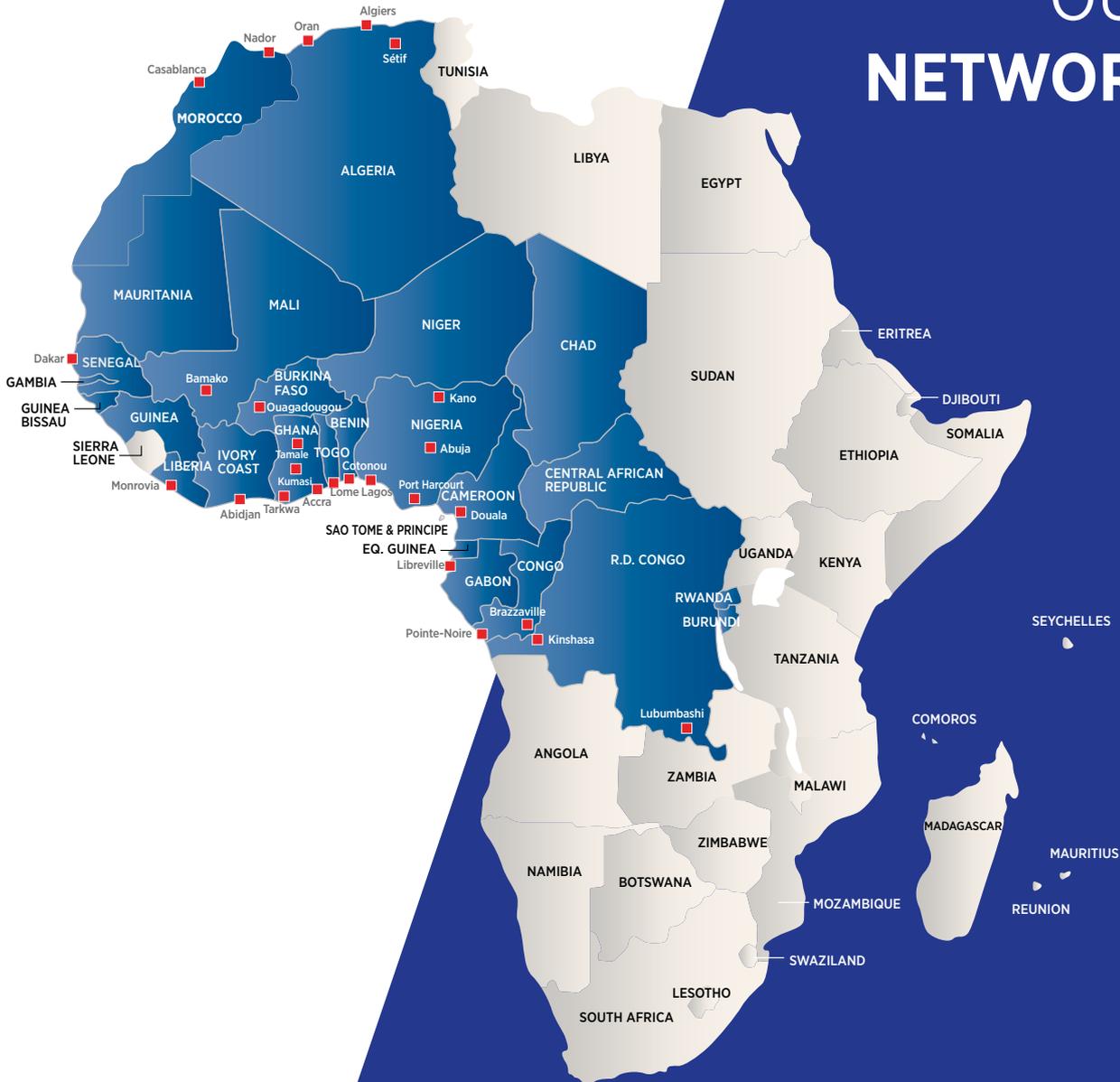
The SMT Academy embodies our 'best of the best' philosophy. We are committed to training and development to be the 'Gold Standard' that drives quality and performance across our industry, ensuring that our customers are using our products, systems and software most effectively. Our certified trainers will help you pre-select, train and certify your operators through theoretical courses as well as simulator and on machine.



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OUR NETWORK



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