

TUNNEL EXCAVATORS AND SPECIAL MACHINERY







Volvo compact machines

OUR PRODUCT RANGE



Customized solutions



SSM - YOUR LEADING PARTNER

Schöller Special Machines (SSM) is one of the leading manufacturers worldwide of tunnel excavators and special machinery that we modify to customer requirements for their specific application.

Our product range comprises tunnel excavators with diesel or electric drive, tunnel heading and loading machines, Volvo excavators with electric drive or TwinDrive, Volvo compact construction machines, and customized Volvo construction machines for extraordinary applications. We also provide special machines for tunnel construction and mining.

Thanks to the proficient, innovative and highly motivated team here at SSM, we manufacture tunnel excavators and

provide creative special solutions for extraordinary applications. Our machines are renowned for their robust and reliable construction.

In order to meet our customers' requirements, we are continuously working on improving our products, on innovations, on opportunities for new products, and on expanding our product range.

Our ambition at Schöller Special Machines is to improve our customers' and partners' efficiency and productivity with our machines and services.



STRONG PARTNER FOR TUNNELLING



ALWAYS THE BEST FIT

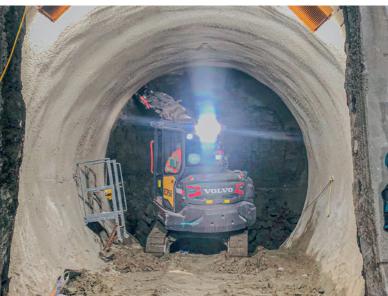














OUR TUNNEL EXCAVATORS



RELIABLE, EFFICIENT & FLEXIBLE

The current product range comprises six crawler tunnel excavators with an operating weight of 7 thru 80 tons as well as a wheeled tunnel excavator with an operating weight of 21 tons.

All tunnel excavator models are based on the well-established and reliable Volvo basic machines and are equipped with diesel drive as standard; optionally, they are also available with an emission free electric drive. The smaller models are also available with TwinDrive (diesel & electric) for maximum flexibility in use.

The compact excavators with a short tail-swing operate with high efficiency; therefore, they are ideally suited for small to large tunnel cross-sections. The large EC 550-T can be equipped with heavy attachments tools and is particularly suitable for the tunnel renovation and enlargement. Due to the modular build of the boom equipment, they can be adapted to different tunnel heights, giving them maximum flexibility.

The tremendous hydraulic output of the Volvo machines allows operation of powerful attachment tools, like hydraulic hammers, rock cutters, demolition shears, to name only a few, which can be easily changed via quick coupling systems.



	CRAWLER EXCAVATORS						WHEELED EXCAVATOR
	ECR 58-T	ECR 88-T	ECR 145-T	ECR 235-T	ECR 355-T	EC 550-T	EWR 170-T
Operating weight	7 - 7.5 t	10 - 11 t	18 - 20 t	31 - 35 t	43 - 45 t	75 - 80 t	19 - 21 t
Diesel engine output	35 kW	42 kW	90 kW	129 kW	180 kW	340 kW	115 kW
Electric engine output (alternatively)	30 kW	37 kW	75 kW	110 kW	160 kW	320 kW	90 kW
TwinDrive (diesel & electric)	35 / 30 kW	42 / 37 kW	-	-	-	340 / 320 kW	-
Tunnel height	3.3 - 5.2 m	3.5 - 5.8 m	4.2 - 7.4 m	4.6 - 8.5 m	5.5 - 9.8 m	6.5 - 12.7 m	4.5 - 7.3 m
Tear-out force	25 kN	42 kN	88 kN	133 kN	207 kN	310 kN	85 kN
Breakout force	48 kN	60 kN	112 kN	190 kN	316 kN	430 kN	108 kN

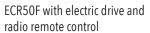
ECR145E with electric drive and radio remote control (power feed on the upper carriage)





OUR ELECTRIC EXCAVATORS











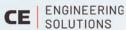
ECO-FRIENDLY ON SITE

Based on four decades of experience in electrically powered machines, SSM also equips a selection of Volvo construction machines with cable-connected electric drive for emission-free continuous operation on the construction site.

SSM closely cooperates with its partners within the Volvo SAS network (Special Application Solutions) to support its customers by providing additional excavator models with electric or TwinDrive – always as Volvo machines, with CE certification and manufacturer's warranty.

In order to save resources and protect the health of the fellow workers on site, we also offer a range of electrically powered tunnel excavators and wheel loaders that allow for interruption-free operation.





EC300E with dual drive (cable reel at the undercarriage)





VOLVO COMPACT MACHINES











WOULD YOU RATHER OPT FOR STANDARD?

Schöller Special Machines is a regional dealer for Volvo CE compact construction machines and offers their line of compact excavators with an operating weight of 1.6 thru 10 tons as well as wheel loaders with a bucket capacity of 1.0 thru 1.6 m³.

The larger excavators, wheel loaders and dumpers from Volvo's construction machinery range are available as well. Here, SSM closely collaborates with Volvo's partner dealers.











Long boom for underwater use

CUSTOMIZED MACHINES



Hydraulically detachable rear counterweight



Telescopic tracked undercarriage



Heavy-duty ram protection



Laterally adjustable offset-boom



Tiltable cab and straight boom

THE IDEAL SOLUTION FOR YOU

Schöller Special Machines is a certified Volvo SAS Partner (Special Application Solutions). With our innovative and experienced team, we specialize on Volvo-based customized machinery for extraordinary applications. This includes design, manufacture and assembly as well as documentation and CE certification.

In addition, SSM provides retrofitted machines – customized and specific to the application – and special solutions for construction machinery from other brands as well. Special applications require specific equipment. For this purpose, we also develop individual solutions and build customized machines and system components, e.g. for tunnel construction and mining, the forestry sector, as well as ramming machines, shaft sinking equipment, etc.









TUNNEL LOADING MACHINES









PROVEN, POWERFUL & VERSATILE

The Swiss company ITC and Schöller Special Machines have been working as partners for more than fifty years, whereby SSM designs and manufactures tunneling and loading machines and ensures their global service. These special machines are exclusively distributed via ITC SA in Switzerland as well as their international dealers.

The current line of ITC series products comprises five machine sizes with an operating weight of 12 thru 55 tons. They are perfectly suited for smaller and medium-sized tunnel cross-sections and efficiently work on soft to medium-hard rock as well as the removal of loosened material. The ITC machines are particularly impressive in blasting operations with high loading capacities and low wear costs compared to conventional material loading.

The integrated conveyor system directly transports the loosened aggregate material to the back – in a line through the "belly" of the machine - onto the downstream conveyance of excavated material, e.g. dump trucks or conveyor belts.

As standard, the machines ITC125 to ITC 320 are equipped with two powerful drive units – diesel and electric drive: electric drive for emission-free operation on-site as well as diesel drive for travel and operation.

The small and very compact ITC 85 is available with either a diesel engine or electric drive and operated via a radio remote control.

Thanks to the modular design of the base units and work equipment, the machines can be optimally adapted to varying cross-sections and geologies, and ensure maximum flexibility.



	ITC 85	ITC 125	ITC 315 N	ITC 315 SL	ITC 320
Operating weight	12 - 14 t	20 - 25 t	35 - 40 t	40 - 45 t	50 - 55 t
Diesel drive	44 kW	80 kW	180 kW	180 kW	180 kW
Electric drive	30 kW (instead of diesel drive)	75 kW	110 kW	132 kW	132 kW
Tunnel height	2.7 - 5.2 m	3.0 - 6.5 m	4.3 - 8.0 m	4.3 - 8.0 m	4.5 - 8.0 m
Min. tunnel cross-section	ca. 5.5 m ²	ca. 9 m²	ca. 16 m²	ca. 18 m²	ca. 18 m²



ALWAYS CLOSE AT HAND

Service is our top priority: Our experienced employees and the excellent international network of Volvo dealers ensure on-site service as well as spare parts supply around the world.

In the event of urgent emergencies, our competent service team is always at your disposal also after business hours.

Service hotline (24/7): +49 152 26235138



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Pictures: SSM, Volvo, shutterstock.com [1]