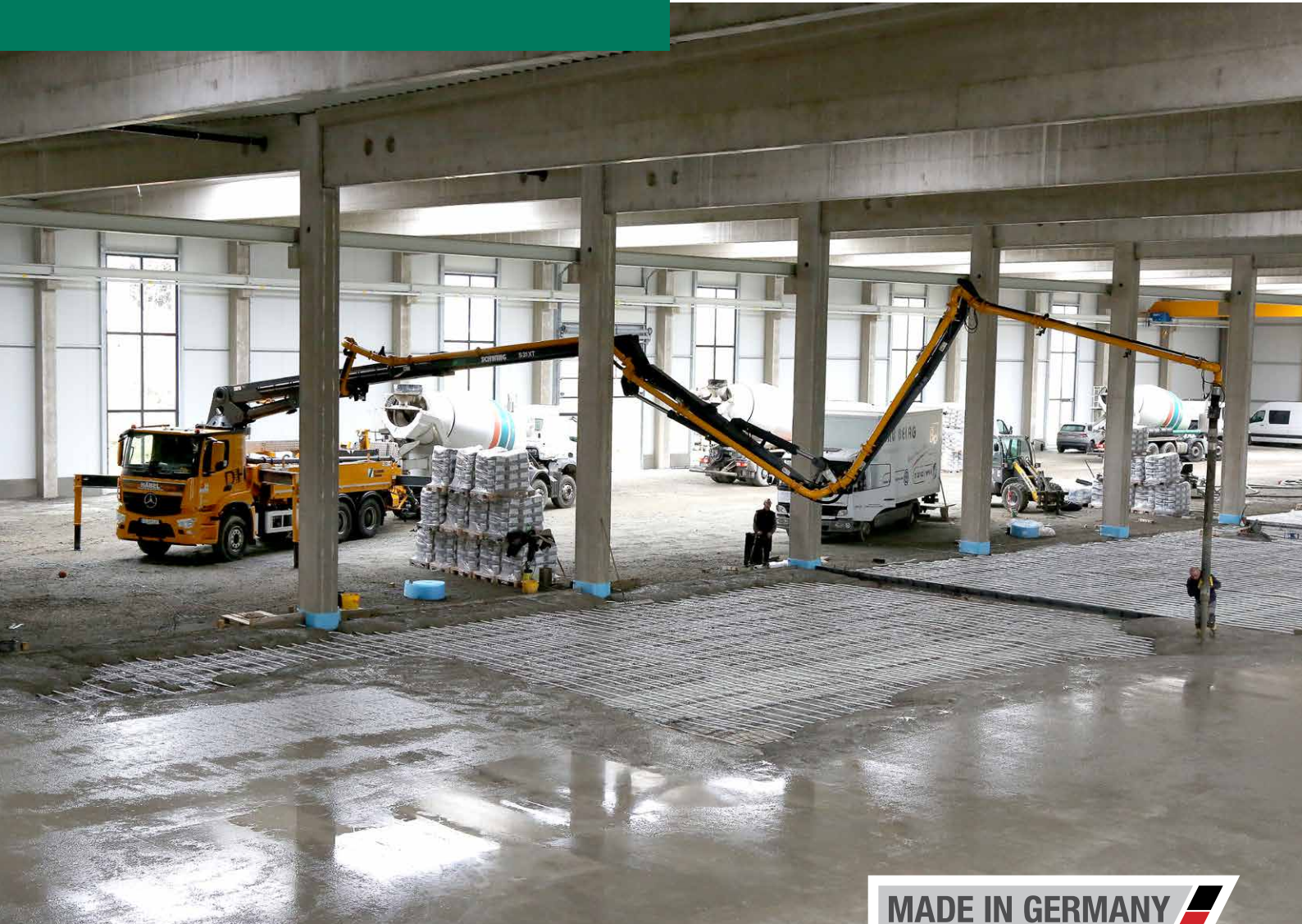




**SCHWING
Stetter**

S 31 XT

Truck-mounted concrete pump



MADE IN GERMANY
by SCHWING-Stetter

Vertical reach		30.50 m
Concrete output	max.	161 m ³ /h
Pressure on concrete	max.	85 bar



RECORD BREAKING ENGINEERING

The S 31 XT from SCHWING Maximum flexibility

Industrial halls, tunnels and jobsites with difficult placing conditions are the territory of the S 31 XT – but more than that. Thanks to the telescopic first boom section, large boom opening angles and ZR folding, the S 31 XT can be used more flexibly than any other machine in its class. The unique boom system is combined with the well-known advantages of SCHWING truck-mounted concrete pumps: high fuel efficiency, powerful pump kit, low service costs and excellent value retention. The S 31 XT from SCHWING: the efficient solution for the most demanding of placing conditions.



The S 31 XT from SCHWING

Advantages and benefits at a glance

Boom

Boom section 1 of the S 31 XT can be infinitely telescoped by up to 4.65 m. In combination with the short boom sections 2, 3 and 4, the large boom opening angles and flexible ZR folding, this provides exceptional mobility on the jobsite. Thanks to its low unfolding height of only 5.6 m, the S 31 XT can also be used in smaller halls and in tunnel construction previously the domain of machines with smaller placing booms.



Pump kit

The SCHWING control block provides full hydraulic switching of the ROCK and differential cylinders. This ensures outstanding reliability even in difficult operating conditions and makes servicing the system a breeze.



Outriggers

The unique combination of front X and rear H outriggers results in a uniquely small footprint. The support legs are optimally equipped for the daily life on the building site - thanks to the protected piston rods and internally laid hydraulic lines.



Remote control SC 30

The light weight, easy to use and comfortable SC 30 helps minimise fatigue, allowing the operator to focus on the job for extended periods. The powerful batteries guarantee an operating time of at least 8 hours.



Open hydraulic system

The open hydraulic system of the S 31 XT converts the engine power efficiently into pump power with little loss. Thus, typical jobsite output rates can be realized with a fuel-saving engine speed of just over 1,000 rpm.



VECTOR control

The machine operator can inspect machine data, operating conditions and settings on S 31 XT, changing various parameters, all through the intuitive VECTOR control. The integrated diagnostic system ensures safe operation and also reminds the operator when maintenance is necessary.



Concrete valve

Thanks to its intelligent design, the ROCK valve suffers significantly less wear and tear than other concrete valves. It is also quick to clean and is demonstrably easier to maintain. The advantages for the S 31 XT: shorter servicing times, higher machine uptime and lower maintenance costs.



Supply control

The water box can be filled and emptied, and the water pump, agitator, spray hose, high pressure cleaner and compressor, all controlled via the standardised supply control. This is the standard for all SCHWING truck-mounted concrete pumps for greater clarity and ease of operation.



Hinged sideboard

The hinged sideboard on the left is standard and includes an integrated tube shelf. Hoses, pipes and other accessories can be transported safely and conveniently. On request, a multi-part sideboard is available over the entire length of the side (only in conjunction with a water tank at the rear).



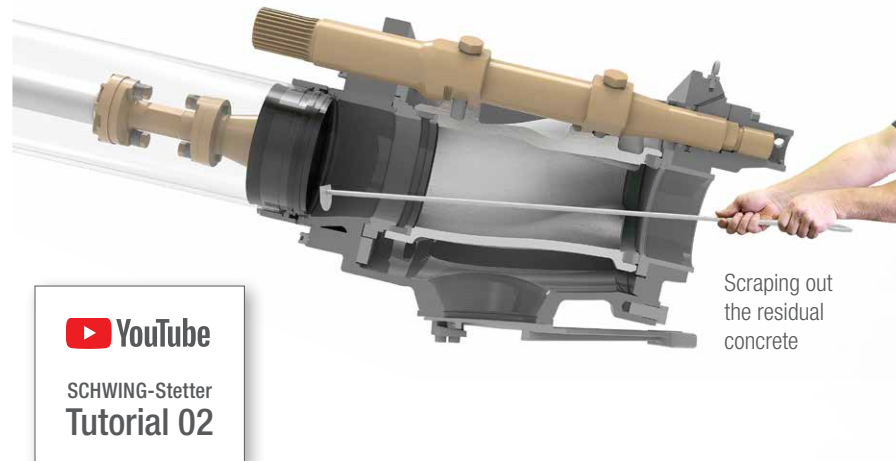
The S 31 XT from SCHWING

Advantages and benefits in detail

The ROCK

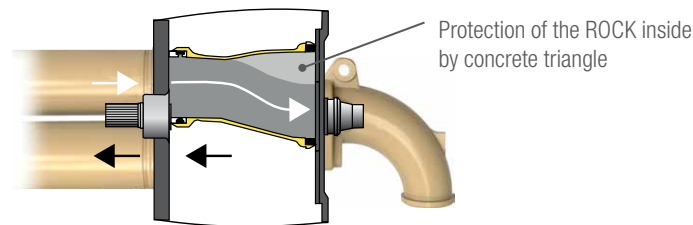
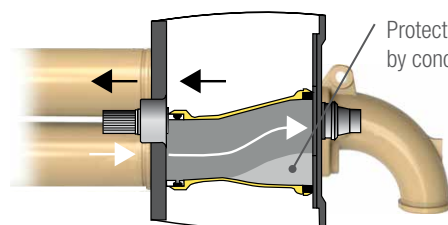
Faster clean with less water.

Due to its straight design, in comparison to other concrete valves, the ROCK valve is easier and quicker to clean. It also provides a direct view into the delivery cylinder and of the pumping pistons. The pump kit can therefore be cleaned easily and conveniently within just two strokes. This saves water and reduces the time needed for cleaning.



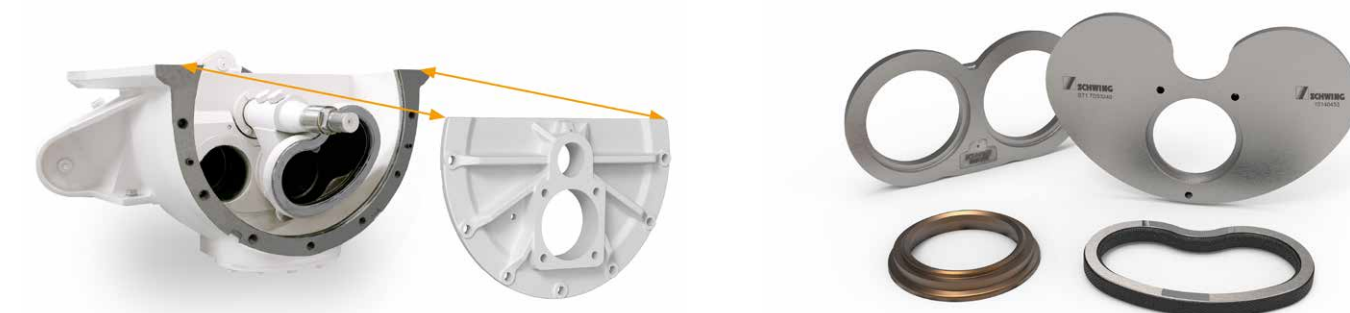
Intelligent wear protection.

The wear in the concrete valve is particularly high as the concrete is fed into the outlet at high pressure. In order to minimize this wear at the most heavily loaded point of the ROCK, concrete does not rub on steel, but rather on concrete. This is because the intelligent design of the ROCK leads to the formation of a concrete triangle after each shift. Protected by this concrete layer, the ROCK has a significantly longer service life than other concrete valves. For noticeably more profit per m³.



Easy maintenance.

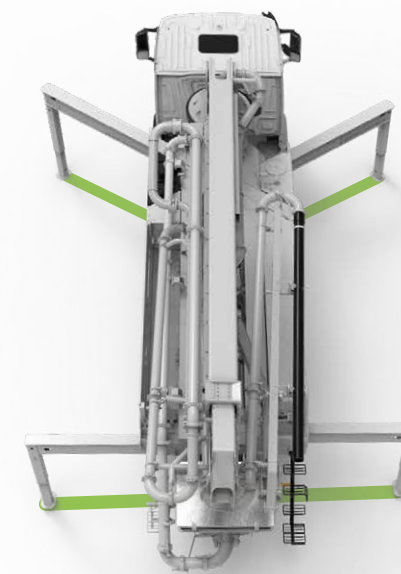
The ROCK valve not only has a significantly longer service life than other concrete valves, it is also easier to maintain. After removing the housing cover, the wear parts are easily accessible and can be replaced quickly and safely. Time-consuming adjustment work is not required after replacement. The ROCK valve has only 15 wearing parts; half as many as other concrete valves. The maintenance of the ROCK valve: simple, fast and safe.



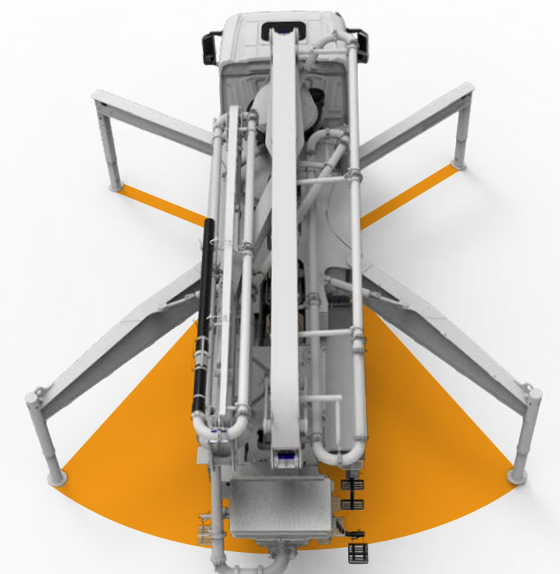
Space-saving outriggers

Less set-up space, more flexibility.

Because of the unique combination of front X- and rear H-outriggers, the S 31 XT needs the smallest set-up space in its class. Rear H-outriggers slide out to offer operators significant advantages over the more common swing-out rear outriggers, as they allow the S 31 XT to be deployed to sites where other concrete pumps simply will not fit. In addition, the rear H-outriggers offer lots of storage space on both sides for accessories and hoses. The standard 3.20-metre-long sidewall on the left-hand side can be hinged and features integrated hose/pipe mounts. A hinged sideboard with an extended length of 5.00 metres is available as an option.



S 31 XT with combined X and H outriggers

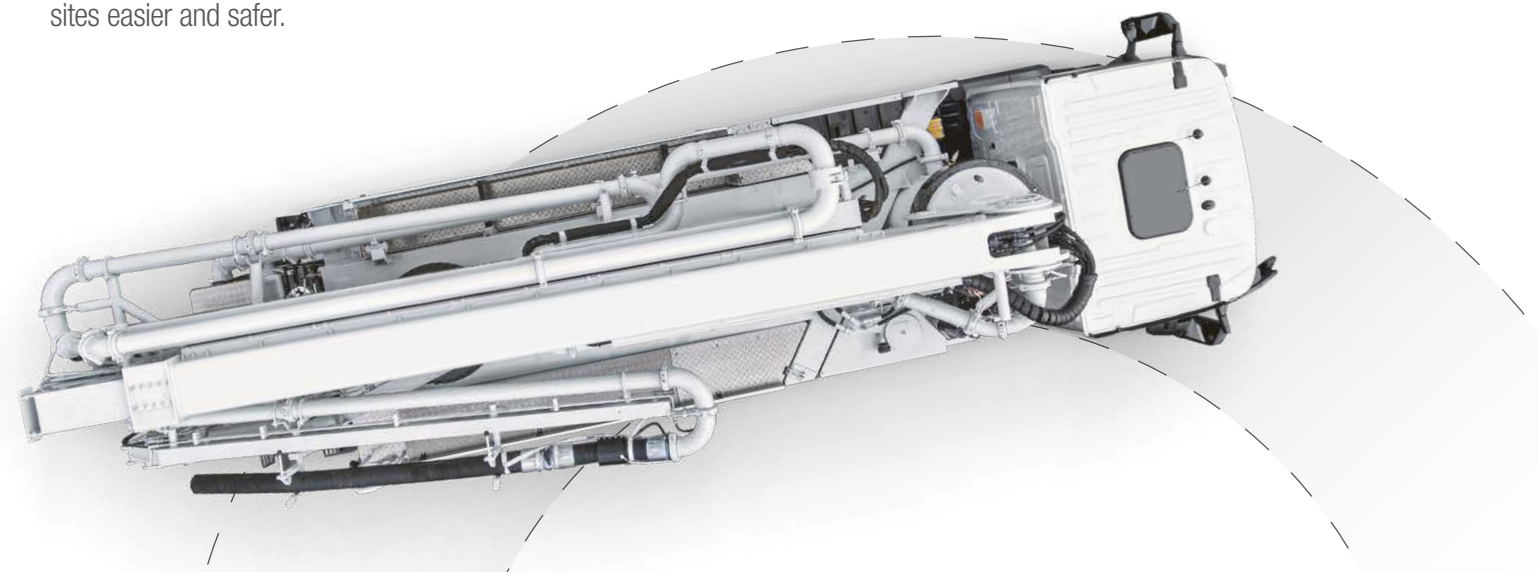


Concrete pump with combined X and folding outriggers

Short wheelbase

Outstanding manoeuvrability - on street and on site.

At only 4.20 metres, the shortest wheelbase in its class makes the S 31 XT an exceptionally manoeuvrable truck-mounted concrete pump. Operator's advantage: The S 31 XT makes manoeuvring roundabouts, narrow roads or within construction sites easier and safer.



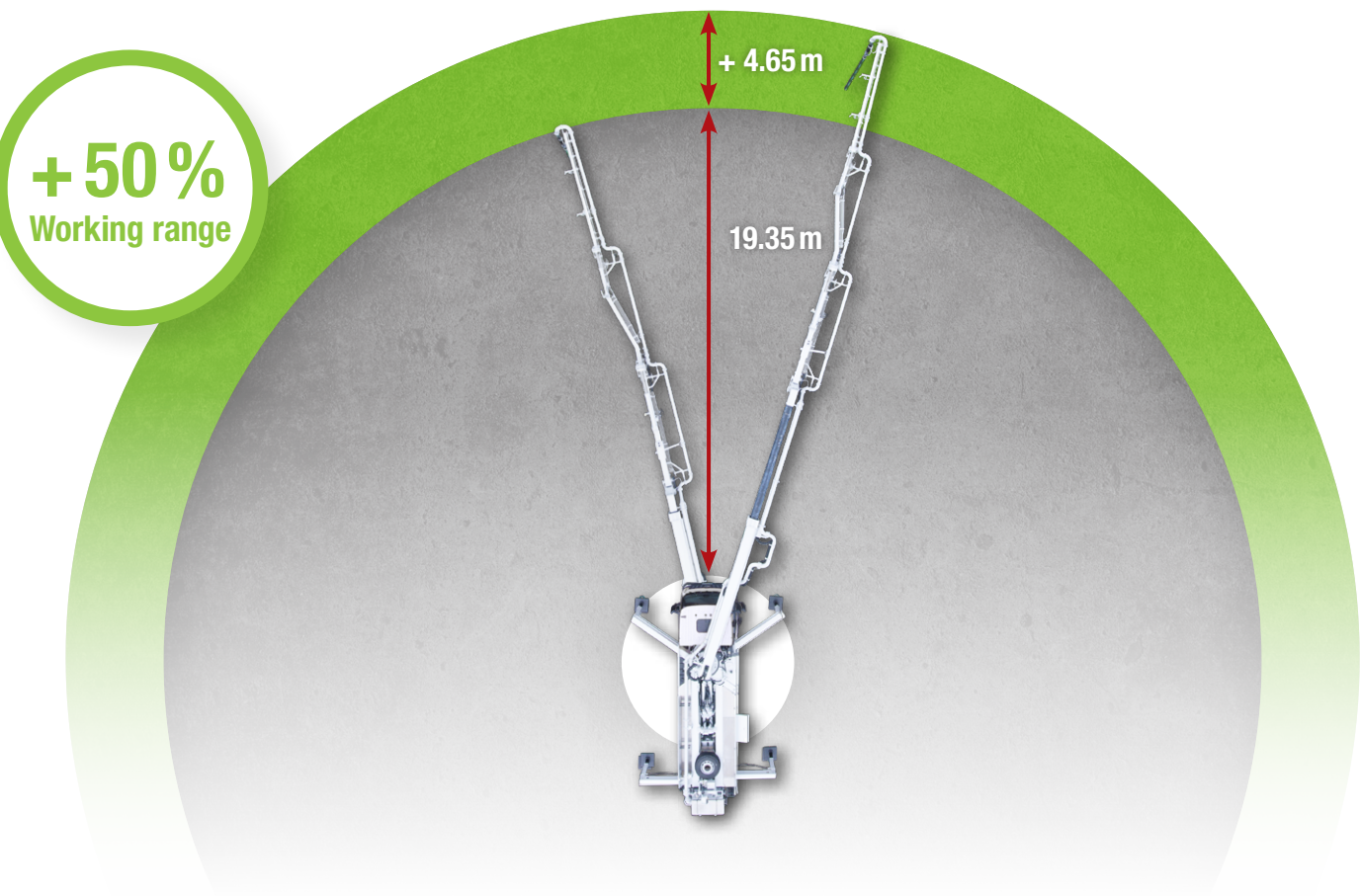
S 31 XT Truck-mounted concrete pump

The boom

With its telescopic first boom section, the S 31 XT is the rockstar of truck-mounted concrete pumps – and not only in halls and on tunnel construction sites. The unique boom kinematics facilitate accelerated work in demanding situations and ensure a wide range of applications to optimise the machine’s utilisation. More flexibility, greater comfort, increased efficiency.

Simply more work area

By telescoping the first boom section, the net range of the S 31 XT increases from 19.35 m to 24.00 m. This means that the work area can be extended by more than 50% over the entire area with just one joystick movement, without moving boom joints or end hose height. For efficient operation whilst minimising fatigue in challenging environments.



Range: flexible. Performance: consistent

Boom section 1 permits infinitely variable extension by up to 4.65m during pumping operation. Thanks to the proven telescopic system, pipe diameter and flow resistance remain identical in every position – for consistently high performance.



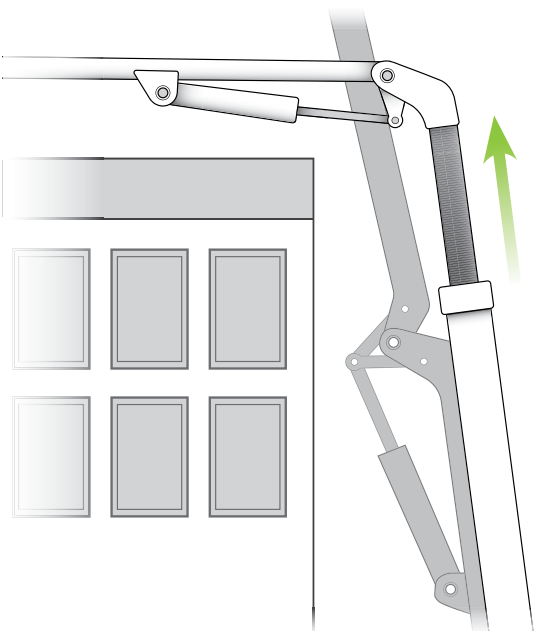
Simply driving around obstacles

When pouring concrete in halls, it is not uncommon for obstacles such as columns to be swung past in order to reach the next pumping section. Thanks to the telescopic boom, the S 31 XT machine operator can accomplish this task with just a few boom movements and in the shortest possible time: retract, swivel past, extend.



Optimal utilisation of the range

With the telescoping boom section 1 the second boom joint can be simply adjusted to the respective building height. The horizontal work area of the S 31 XT is thus fully utilised.



Low unfolding height

The short boom sections 2, 3, and 4 and the telescoping boom section 1 give the S 31 XT a lower unfolding height – in spite of its greater range – than a 28 m truck-mounted concrete pump.

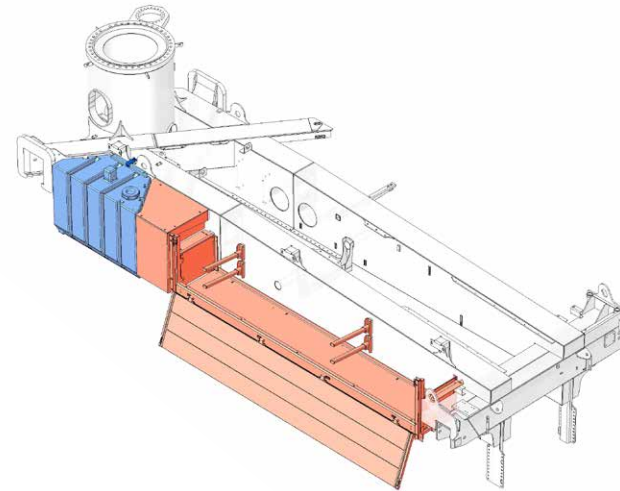


S 31 XT Truck-mounted concrete pump

Equipment options

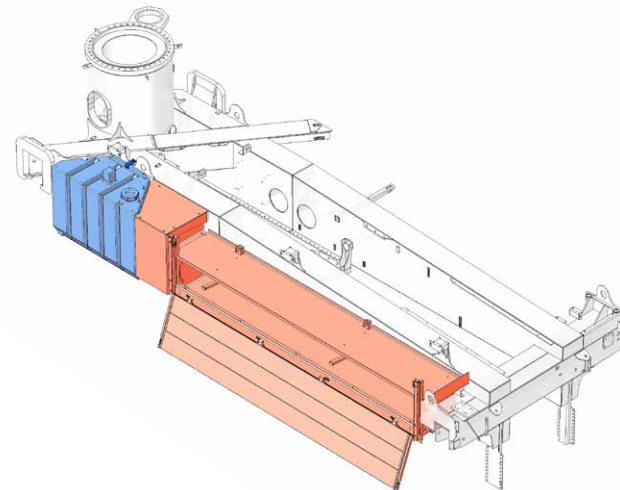
Hinged sideboard (standard)

As standard equipment, the S 31 XT has a hinged sideboard, with integrated pipe rack with two levels on the left-hand side. The standard water tank (420 l) is mounted at the front left.



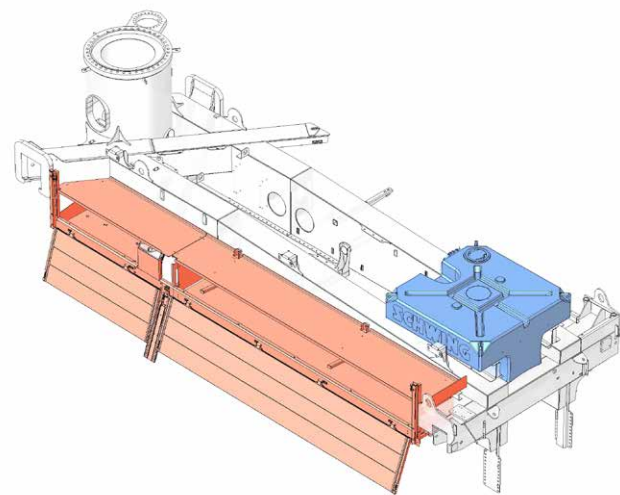
Additional shelf (option) for hinged sideboard

The upper level of the integrated pipe rack can be replaced by an additional shelf on request to facilitate the transport of couplings, hardware and other accessories.



Hinged, multi-part sideboard (option) with full-length additional shelf

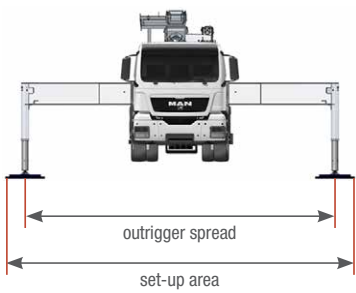
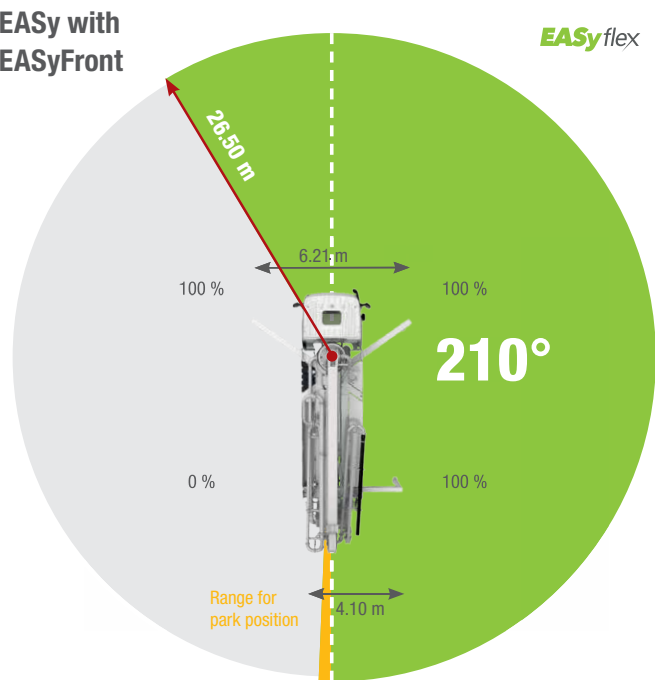
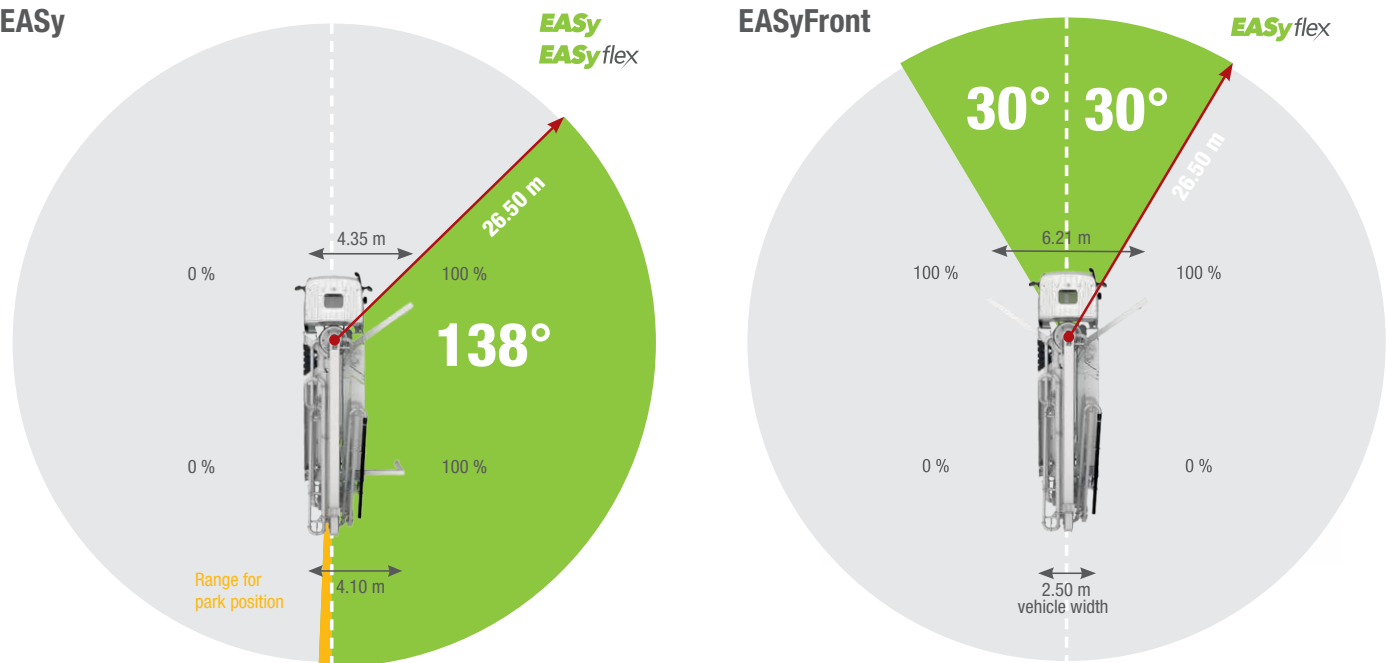
Optionally, a larger centre deck mounted water tank (610 l) can be used instead of the water tank at the front left (420 l). This allows for the installation of a multi-part, hinged sideboard spanning the entire left side of the machine. The two sideboard sections can be folded independently of each other and allow hoses and pipes of approx. 5.00 m in length to be accommodated on the full-length shelf. For easy loading, the central post between the two wall parts can be folded down completely and removed as required.



EASy and EASyflex

EASy
EASyflex

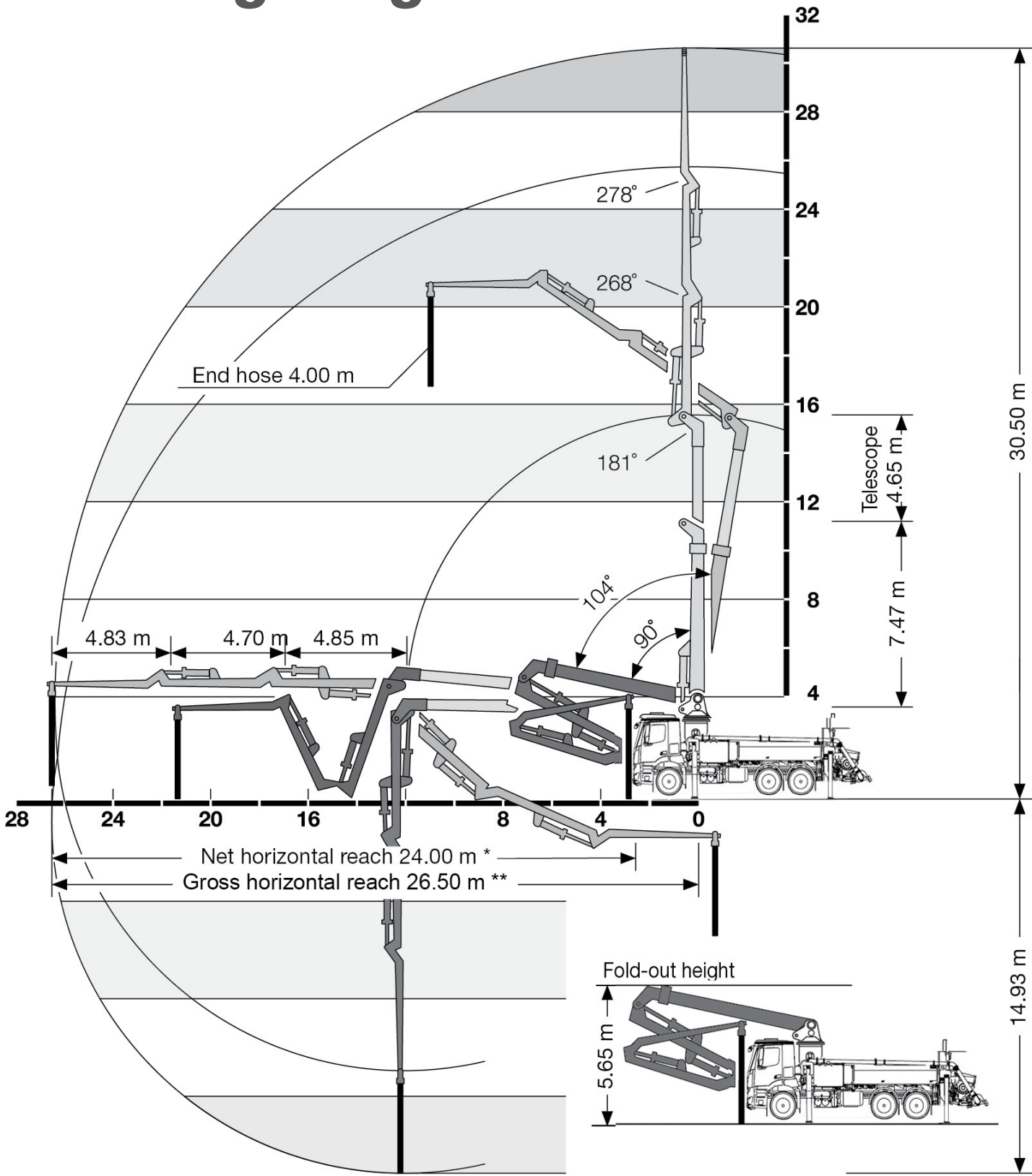
The outrigger systems EASy and EASyflex extend the range of applications of the S 31 XT. With EASy, the concrete pump can be safely supported on one side, if required, thereby covering a working range of 138°. EASyflex provides further outrigger combinations and as such, more flexibility on the jobsite. In this way, pump applications can be achieved with the maximum working safety even in difficult, restricted spaces. More flexibility for more safety.



The outrigger spreads as specified are measured from the centre of the outrigger leg. Any cribbing or underlay timbers must be taken into account when determining the required set-up area.

S 31 XT Truck-mounted concrete pump

Working range

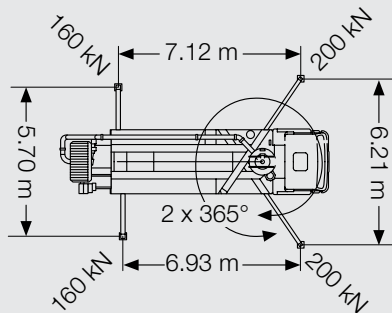


* from front bumper
** from centre of turret

S 31 XT Truck-mounted concrete pump

Technical data

Performance					
Pump kit		P2023-110/75	P2023-110/75	P2023-110/75	P2025-120/80
Drive	l/min	380	535	636	535
Delivery cylinders	mm	230 x 2,000	230 x 2,000	230 x 2,000	250 x 2,000
Concrete output max.	m³/h	98	136	161	136
Pressure on concrete max.	bar	85	85	85	85
Stroke rate max.	1/min.	20	27	32	23
Concrete valve		M-ROCK (Option: B-ROCK)	M-ROCK (Option: B-ROCK)	M-ROCK (Option: B-ROCK)	B-ROCK
Hydraulic system					
Design		open system			
Hydraulic tank	l	370			
Boom		31 ZRT			
Delivery line		DN 125			
Length of end hose	m	4.00 (Option: 1.00 + 3.00)			
Vertical reach	m	30.50			
Reach depth	m	14.90			
Gross horizontal reach	m	26.50 (from centre of turret)			
Net horizontal reach	m	24.00 (from front bumper)			
Number of boom sections		4 (Boom section 1 with 4.65 m telescoping action)			
Height of the inflexion points	m	4.00 / 16.10 / 20.90 / 25.60			
Slewing range		2 x 365°			
Folding height	m	5.65			
Support					
Outrigger width, front	m	6.21			
Outrigger width, rear	m	5.70			
Outrigger load, front	kN	200			
Outrigger load, rear	kN	160			
Chassis (examples*)		Mercedes-Benz Arocs 2840	MAN TGS 28.400		
Axles configuration		6x4	6x4		
Wheelbase		4,200	4,200		
Length		10,310 / 10,270	10,200 / 10,160	(with / without underride guard)	
Miscellaneous					
Water tank	l	420 (Option: 610 l water tank rear)			



*depending on the chassis **other chassis possible



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S 31 XT



SCHWING concrete pumps. Efficiency as standard.



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