

S 20 Truck-mounted concrete pump







The S 20 from SCHWING

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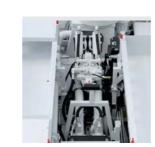
Advantages and benefits at a glance

Short boom elements, large boom opening angles and flexible ZR-fold: with its four-section boom, the S 20 from SCHWING is perfectly equipped for pump applications in warehouses or in confined city centre locations. Thanks to the low unfolding height of only 3.85 m, the S 20 has very good threading properties and can also be set-up in smaller industrial warehouses. The boom can either be fitted with a pipeline DN 125 (standard) or with DN 100 (option).



SCHWING

Pump kit With the P2023 pump battery, just 20 strokes per minute are required for a concrete output of 98 m³/h. Alternatively, a P2020 pump battery can be installed, which can be operated either on the rod or on the piston side. This enables the S 20 to achieve an output of up to 111 m³ per hour or a pressure on concrete of up to 108 bar. Therefore, even extreme distances can be pumped using additional delivery line.



Dual-circuit hydraulic system

The open SCHWING hydraulic system of the S 20 efficiently transforms the engine power into pumping power with low losses. And thanks to the standard dual-circuit hydraulics with MPS, the ROCK valve can be quickly and forcefully switched even at low stroke rates or with special types of concrete.



The front H-outrigger and the rear vertical outrigger provide the S 20 with its outstanding flexibility. Thanks to its extremely small set-up space, the S 20 can also be set up on construction sites which are inaccessible for other concrete pumps. The optional DN 100 pipeline means that the S 20 only needs to be supported vertically at the front, even when pumping concrete over the boom.



VECTOR control

The machine operator can inspect machine data, operating conditions and settings on S 20, changing various parameters, all through the intuitive VEC-TOR control. The integrated diagnostic system ensures safe operation and also reminds the operator when maintenance is necessary.



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 quarantee an operating time of at least 8 hours.



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.



machine uptime and lower maintenance costs.

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 20: shorter servicing times, higher

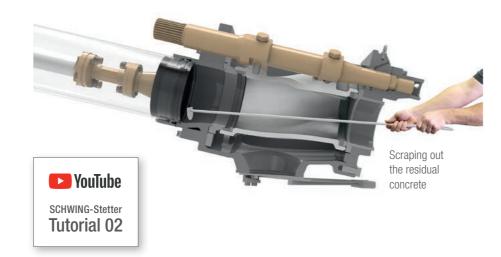


Advantages and benefits in detail

The ROCK

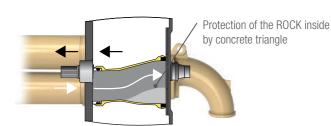
Faster clean with less water.

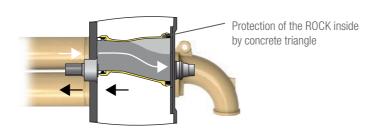
Due to its straight design, in comparison to other concrete valves, the ROCK valve is easier and quicker to clean. It also provides a direct view into the delivery cylinder and of the pumping pistons. The pump kit can therefore be cleaned easily and conveniently within just two strokes. This saves water 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. And the number of wearing parts at 15 with the ROCK valve is just half as high as with other concrete valves. The maintenance of the ROCK valve: simple, fast and safe.





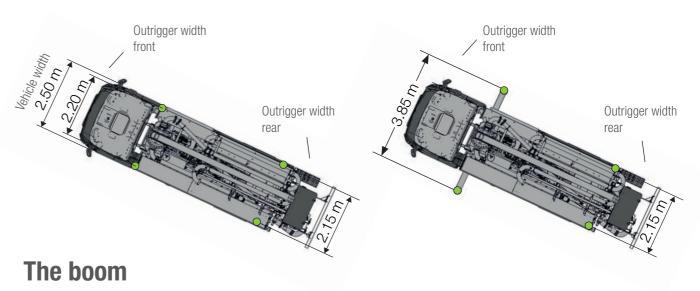
Pipeline variant DN 100

Reducing support width, expanding the application range.

As standard the boom of the S 20 is fitted with a DN 125 pipeline. An interesting equipment variant is the boom with a DN 100 pipeline, because due to its lower weight this option provides another key advantage: when placing concrete via the boom, the S 20 must only be supported vertically, even at the front. The machine is thus fully supported and is only 2.45 m wide. Which means that it can be used in locations where other concrete pumps cannot be set up in.

Pipeline DN 100

Pipeline DN 125



Master of flexibility

With its ZR-fold, the short boom elements and the large opening angle, the boom of the S 20 is the optimum tool for diverse uses in this machinery class. Through its ease of handling, the low unfolding height of only 3.85 m and the high level of mobility, demanding applications can also be tackled reliably, safely and swiftly.



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Flexible loadmaster

For the safe transportation and easy handling of the comprehensive equipment, the S 20 can be fitted with a range of different storage options. Thanks to the numerous combination options, each S 20 can be customised to its specific usage profile. Three levels have been defined for a simplified machine configuration. This enables the appropriate equipment to be selected for each level and for each machine side from the range of options available.

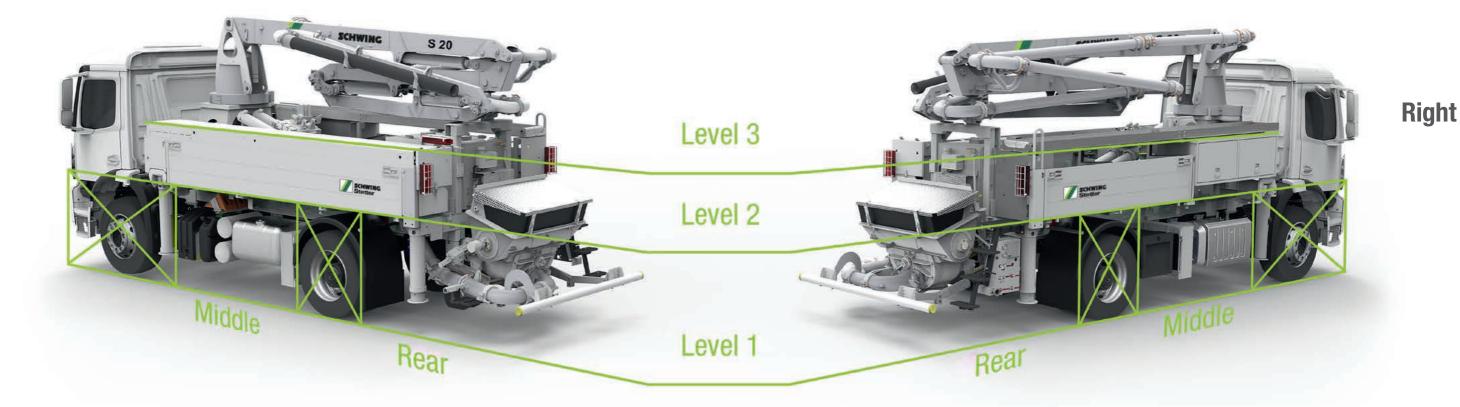






S 20 on MAN TGM 18.290

Left



Level 3				
Stowing box, 3.10 m detachable	Stowing box, 4.10 m detachable	Stowing box, 4.10 m detachable with 14 x 125-type sleeves or 8 x 160-type sleeves	Stowing trough, 4.10 m - cannot be combined with detachable stowing boxes - combinable with the railing	Stowing trough, 5.10 m - cannot be combined with detachable stowing boxes - not combinable with the railing
Level 2				
Loading area, 5.00 m with hinged sidewall	Stowing box, 5.00 m - with 20 x 125-type sleeves - or 12 x 160-type sleeves - combinable with the stowing trough at Level 3	Stowing box, 4.00 m - with tool cabinet - with 20 x 125-type sleeves - or 12 x 160-type sleeves		
Level 1 (Equipment options of	of level 1 depending on the chassis)			
Central lubrication system, rear	Throw box, rear - with drain holes	Storage box, rear - 350 mm wide		

- not combinable with the

storage box at Level 2

for cleaning and transporting

of couplings, etc.

Level 3				
Stowing box, 3.10 m detachable	Stowing trough, 4.10 m - cannot be combined with detachable stowing boxes - combinable with the railing	Stowing trough, 5.10 m - cannot be combined with detachable stowing boxes - not combinable with the railing		
Level 2				
Storage box under control cabinet	Loading area, 3.20 m with hinged sidewall	Storage shelf, 1.60 m behind hinged sidewall	Stowing box, 3.00 m - with 20 x 125-type sleeves - or 12 x 160-type sleeves	Tube rack, 3.20 m inc. alu-trough 5.10 m

Level

Level 1 (Equipment options of level 1 depending on the chassis)					
Throw box, rear - with drain holes - for cleaning and transporting of couplings, etc hinged	Water hose reel - not combinable with throw box	Storage box, in the middle - 350, 650 or 820 (alternati- vely 2 x 350) mm wide - lockable	Tray on storage box, in the middle - only for storage boxes with 650 and 820 mm width		

Equipment options

Left

Level 3



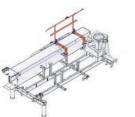
Stowing box, 3.10 m detachable



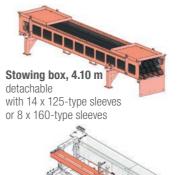
Stowing trough, 4.10 m / 5.10 m

- cannot be combined with detachable
- can be combined with the railing (only with 4.10 m)

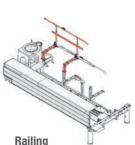




- not combinable with detachable stowing boxes
- combinable with stowing through

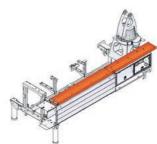


Stowing trough, 4.10 m combined with the railing



- not combinable with detachable stowing boxes

- combinable with stowing through



Stowing trough, 4.10 m / 5.10 m

- cannot be combined with detachable
- can be combined with the railing (only with 4.10 m)

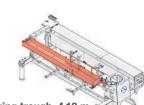


Right

Level 2

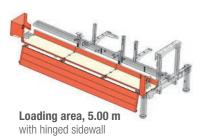
Level 1

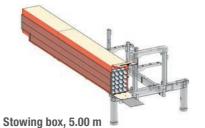
Stowing box, 3.10 m detachable



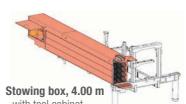
Stowing trough, 4.10 m combined with the railing

Level 2

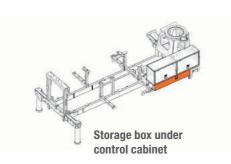


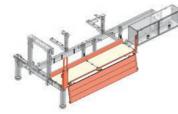


- with 20 x 125-type sleeves
- or 12 x 160-type sleeves
- can be combined with the stowing trough at Level 3

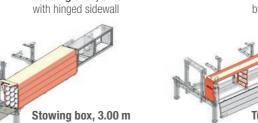


- with tool cabinet
- with 20 x 125-type sleeves or 12 x 160-type sleeves





Loading area, 3.20 m



- with 20 x 125-type sleeves or 12 x 160-type sleeves



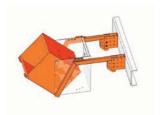
Tube rack, 3.20 m inc. alu-trough 5.10 m

Level 1

(Equipment options of level 1 depending on the chassis)



Central lubrication system,



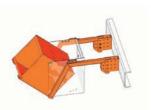
Throw box, rear

- with drain holes
- for cleaning and transporting of
- couplings, etc. - hinged



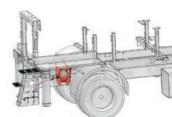
Storage box, rear

- 350 mm wide
- can not be combined with the storage box at Level 2



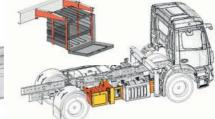
Throw box, rear

- with drain holes
- for cleaning and transporting of couplings, etc.
- hinged



Water hose reel

- not combinable with throw box



Storage box,

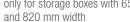
in the middle

- 350, 650 or 820 (alternatively
- 2 x 350) mm wide
- lockable



Tray on storage box,

in the middle - only for storage boxes with 650

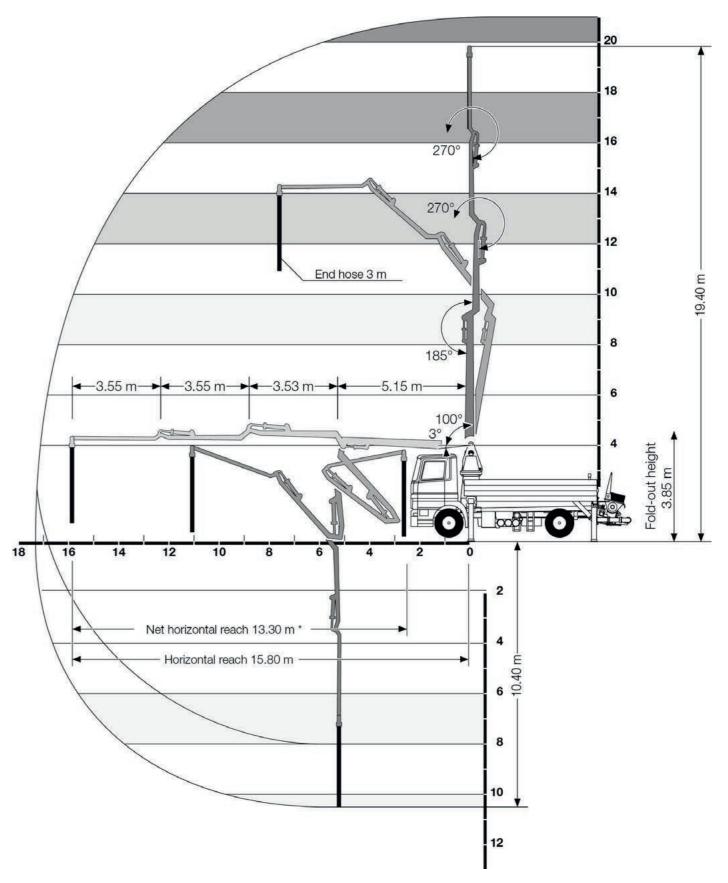


\$ 20 Truck-mounted concrete pump

Technical data

Performance	•••••	rod-sided piston-sided		
Pump kit		P 2020-120/80	P 2023-110/75	
Drive	I/min	380	380	
Delivery cylinders	mm	200 x 2,000	230 x 2,000	
Concrete output max.	m³/h	111 62	98	
Pressure on concrete max.	bar	60 108	85	
Stroke rate max.	1/min.	29 17	20	
Concrete valve		M-ROCK	M-ROCK (Option: B-ROCK)	
Hydraulic system	•			
Design	•	open system		
Hydraulic tank		400		
Boom		20 ZR		
Delivery line		DN 125 (Option: DN 100)		
Length of end hose	m	3.00		
Vertical reach	m	19.40	Pipeline DN 125	
Reach depth	m	10.40	Pipeline DN 125	
Horizontal reach	m	15.80	~	365° E
Net horizontal reach	m	13.30* (from front bumper)	£ 51.	3.85
Number of boom sections		4	10kg	
Height of the inflexion points	m	3.70 / 8.80 / 12.30 / 15.90	4.68 m → 1/0/4	,
Slewing range		2 x 365°		
Folding height	m	3.85	Pipeline DN 100	
Support			125 E 2x	
Outrigger width, front	m	2.20 with DN 100 / 3.85 with DN		0059
Outrigger width, rear	m	2.15	125	365° ± ≡ 02:2-
Outrigger load, front	kN	110	468 m 770 m	
Outrigger load, rear	kN	70	4.68 m →	,
Chassis (examples**)	•••••	Mercedes-Benz Arocs 1833	Mercedes-Benz Arocs 1830 MAN TGM 1	8.340
Axles configuration		4x2	4x2 4x2	
Wheelbase	mm	4,500	4,200 4,125	
Length	mm	8,700	8,540 8,350	
Miscellaneous				
Water tank	1	400 (Option: 2 x 400 l)		

Working range









SCHWING concrete pumps. Efficiency as standard.

