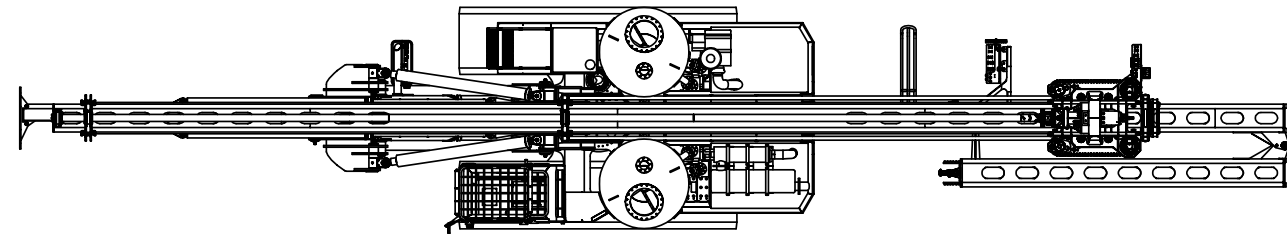
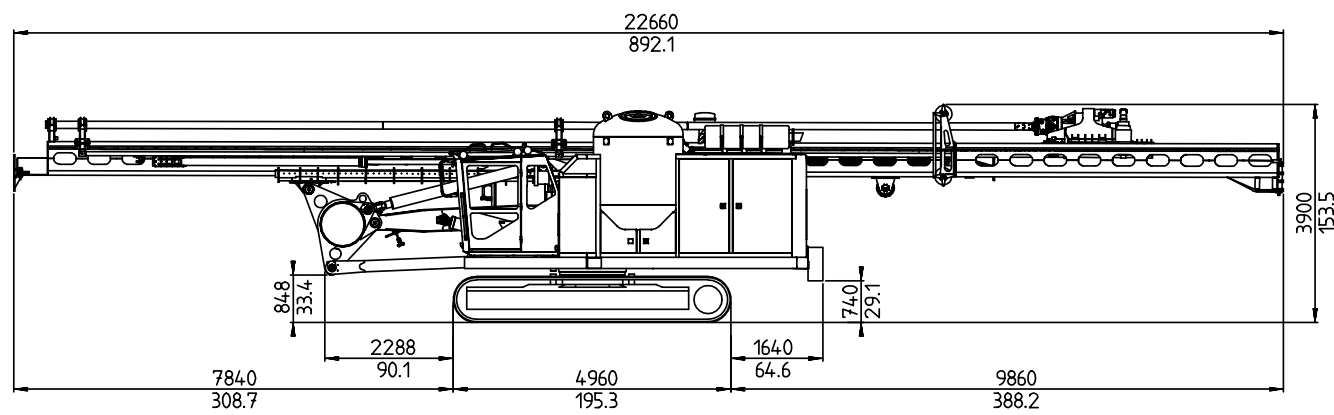
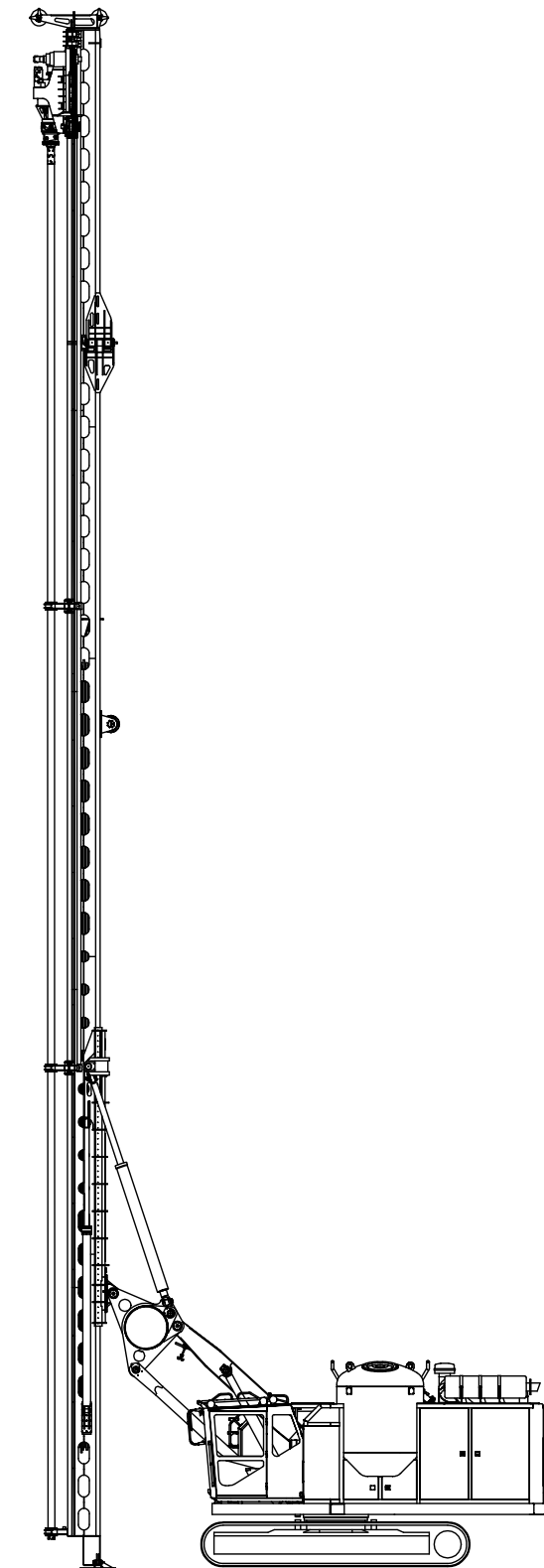


Width and height.



DS 18 transport dimensions.

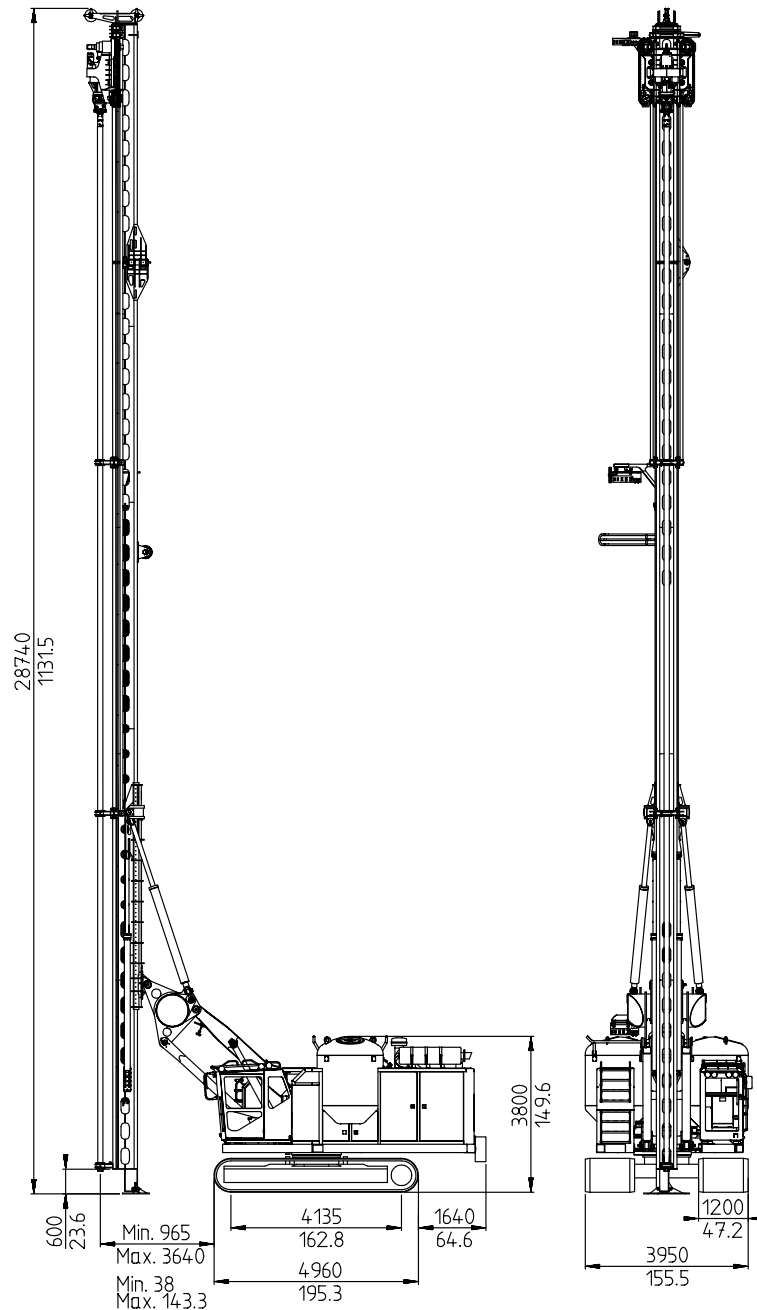


DS 18
Deep Stabilisation Rig

Junttan Oy reserves the right to amend the specification without prior notice. Error and misprints reserved. 17 May 2005 - version S180001.

Junttan DS 18 is the newest member of the deep stabilization machines in the Junttan product range. It has been designed for dry mixing applications where stabilized column lengths are long (up to 25 meters).

The dry mixture method requires injection of the binding agent at low pressure into the soil followed by mixing to form the stabilized column. The deep stabilization method is used for consolidating soft ground. Columns, groups of columns, or walls are formed at the desired depth by mixing in-situ material with one or several binding agents and fillers. Lime, fly ash, gypsum and cement are all used as binding agents, their selection depending on the soil type and application method. The objective is always to produce a highly stable ground mass from the previously unstable material.



- Compact to transport, despite its large capacity. All necessary equipment, including a drilling tube of up to 18 meters, can be transported as a single package.
- Self-erecting leader and many advanced technical features ensure that the rig is ready to work in just a few minutes.
- New leader support system guarantees that the rig has a long reach.
- New generation measuring system enables the rig to produce homogeneous, high-quality columns.
- Vertical movement of the rotary head is effected by chain traction, which makes the operation of the rotary head fast and precise.

Leader				
Type	KE DS180501			
Total length	mm (inch)	28740	(1131.5)	
Horizontal movement max.	mm (inch)	2675	(105.3)	
Service winch (single line pull, 1. layer)	kg (lb)	2 000	(4 400)	
Others	Electronic leader inclinometer			
Rotary head				
Type	SD 3			
Max. torque	kNm (ft-lb)	34	(25 000)	
Max. rotation speed	rpm	200		
Max. column depth	mm (inch)	25000	(984.3)	
Uppercarriage				
Engine	Make and Model	Cummins QSX15		
Power	kW (hp)	403	(540)	
Fuel tank volume	l (gal)	950	(251)	
Hydraulics	Hydraulic oil tank volume	l (gal)	950 (251)	
	Max. oil flow	l/min (gpm)	2 x 200 + 2 x 360 + 250 at 2000 rpm (2 x 53 + 2 x 95 + 66 at 2000 rpm)	
	Max. pressure	bar (psi)	220/350 (3 190/5 080)	
Storage tanks	Capacity	m ³ (yd ³)	2x10 (2x13)	
Compressor	Max. pressure	bar (psi)	8 (116)	
	Max. capacity	m ³ (yd ³)/min	6.8 (8.9)	
Counterweight	Weight	kg (lb)	3 200 (7 055)	
Undercarriage				
Type	AV DS180501			
Crawler length	mm (inch)	4960	(195.3)	
Crawler width	mm (inch)	3950	(155.5)	
Triple grouser type track shoes	mm (inch)	1200	(47.2)	
Transport dimensions				
Length	mm (inch)	22 660	(892.1)	
Width	mm (inch)	3950	(155.5)	
Height	mm (inch)	3900	(153.5)	
Total weight	kg (lb)	50 000	(110 200)	
Including rotary head (2 000 kg/4 400 lb) and counterweight (3 200 kg/7 055 lb)				
Approvals				
Manufactured according to EN 791 standard				