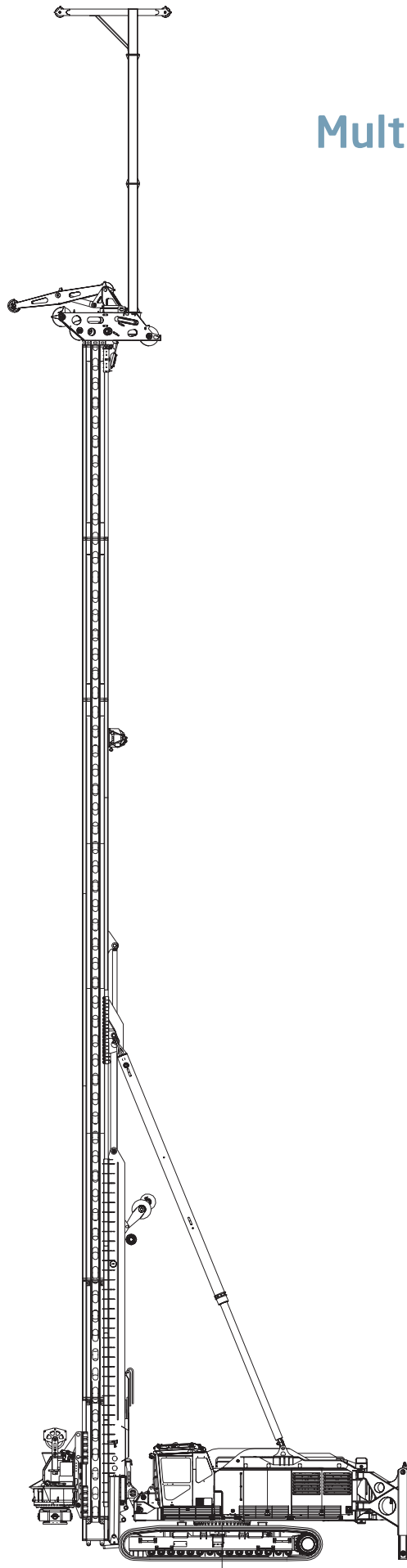


Junttan

Multipurpose Piling Rig

MPx90



Original
Junttan
product

DATA SHEET

General Information

Junttan MPx90 is a multipurpose pile rig for heavy-duty working. The rig can be equipped with CFA, displacement, driven pile or large diameter piling equipment. The maximum torque is 450 kNm. The rig has a proven productivity due to top piling performance with Junttan rotary heads. With optional Junttan equipment, optimised working set-up of the rig can be easily achieved.



Multipurpose Piling Rig

Model MPx90	Displacement	CFA	Kelly	DCIS	Driven Pile
Average working weight	125 000 kg (275 578 lb)	125 000 kg (275 578 lb)	120 000 kg (264 555 lb)		
Max boring diameter without oscillator				2 000 (79 in)	
Max auger diameter	1 200 mm (47 in)				
Max boring tube diameter	610 mm (24 in)				
Crowd cylinder stroke				7 650 mm (25 ft)	
Max drilling depth				70 m (230 ft)	
Max pile length without / with clamp	32 m (105 ft) / 42.7 m (140 ft)				
Max pile length without / with cross joint	32 m (105 ft) / 40 m (131 ft)				
Max extraction	1 000 kN (224 800 lbf)	1 000 kN (224 800 lbf)		1 000 kN (224 800 lbf)	
Max pull down	600 kN (134 800 lbf)	600 kN (134 800 lbf)			
Hammer winch (single rope)				25 000 kg (55 115 lb)	
Pile winch				18 000 kg (39 683 lb)	

Technical Data

Leader

Type	Fixed MPx90		
Length	Leader sections:	0.6 + 3.75 + 3.75 + 18 + 5 + 6 m	2 + 12.3 + 12.3 + 59 + 16.4 + 19.7 ft
	Total length:	37,2 m	122 ft
Maximum capacity	40 000 kg		88 185 lb
Movements	Vertical:	7 650 mm	301 in
	Horizontal	1 500 mm	59 in
Inclinations	According separate capacity tables		
Others	Hydraulic pile arms on leader	Front outriggers / Leader foot plate	Electronic leader inclinometer

Rotary head

Type	JD 45		
	Torque:	450 kNm	331 900 ft-lb
	Rotation speed	70 rpm	

Jib hoist

	Capacity		
Single rope	80 kN	17 985 lbf	
Double rope	125 kN	28 101 lbf	
Lifting boom capacity	125 kN	28 101 lbf	
Turning radius	270 °		
Working radius	2,6 m	8.53 ft	

Uppercarriage

Winches	Single line pull, 1. layer		
	Main winch 1:	250 kN	56 200 lbf
	Main winch 2:	200 kN	44 900 lbf
	3rd winch	80 kN	17 985 lbf
	4th winch	50 kN	11 240 lbf
Engine	Type:	Cummins QSX15, StageIV	Tier 4F
	Max power:	503 kW	675 hp
	Fuel tank:	1 250 liters	330 gal
Hydraulic system	Max flow:	2 x 598 l/min @ 2 300 rpm	2 x 158 gpm @ 2 300 rpm
	Max pressure:	350 bar	5 076 psi
	Oil tank:	1 200 liters	317 gal
Counterweight	Extendable:	12 000 kg	26 455 lb

Undercarriage

Crawler length	6 325 mm		249 in
Width (900 shoes)	Min:	3 470 mm	11.4 ft
	Max:	5 010 mm	16.4 ft
Triple grouser type track shoes	Width:	900 mm	2.9 ft
Traction force	800 kN		179 847 lbf
Drive gear moment	160 kNm		118 000 lb-ft

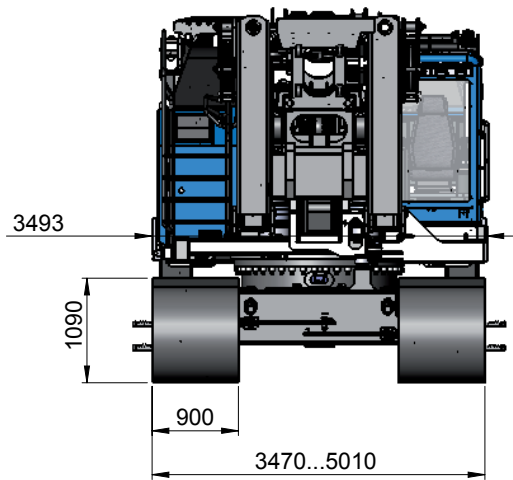
Optional equipment / Working method

	Displacement	CFA	Kelly	DCIS	Driven Pile
Hydraulic clamp	x	x			
Instrumentation Jean Lutz	x	x	x		
Extraction cathead	x	x		x	
Double side cathead					x
Kelly cathead			x		
Personnel working platform	x	x		x	
Secondary Aux. winch 8 000kg	x	x		x	x
Flat track shoes	x	x	x	x	x
Other accessories available on request	x	x	x	x	x
Instrumentation Junttan				x	x

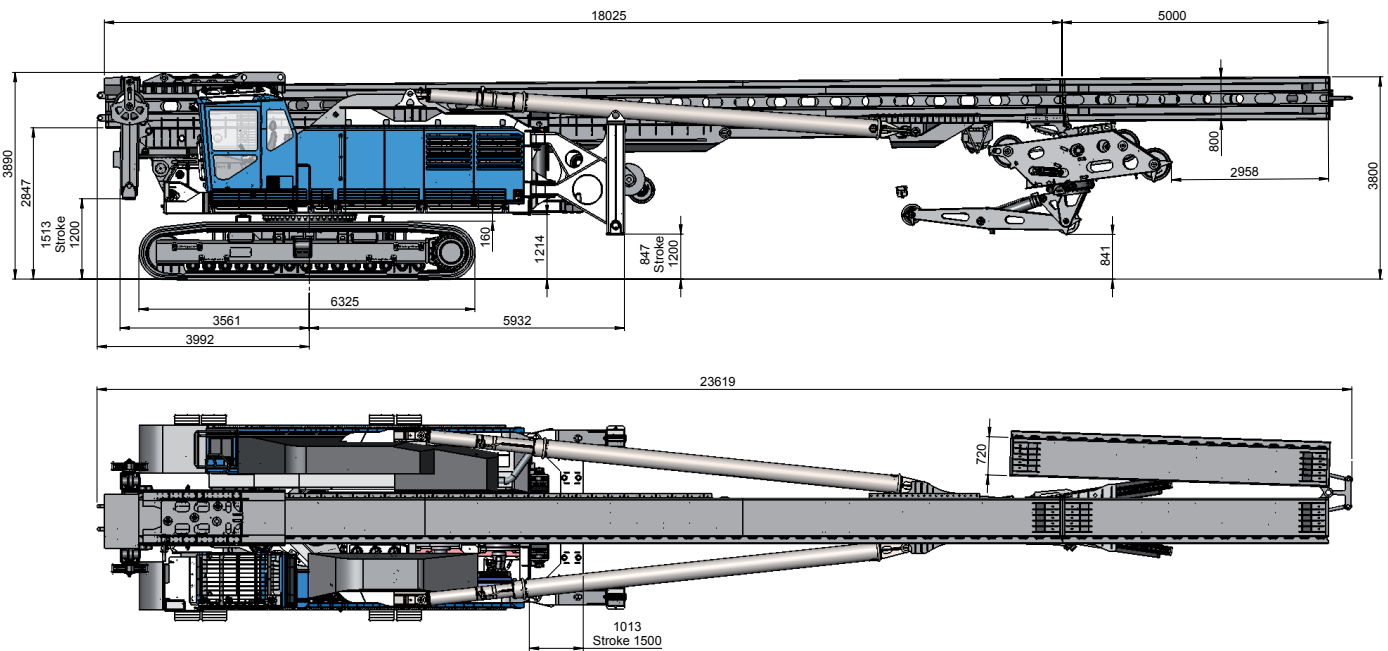
Approvals

Manufactured according to EN 16228:2014 standard

Transport Dimension



Minimum track width.



MPx90 transport dimensions.

Junttan

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