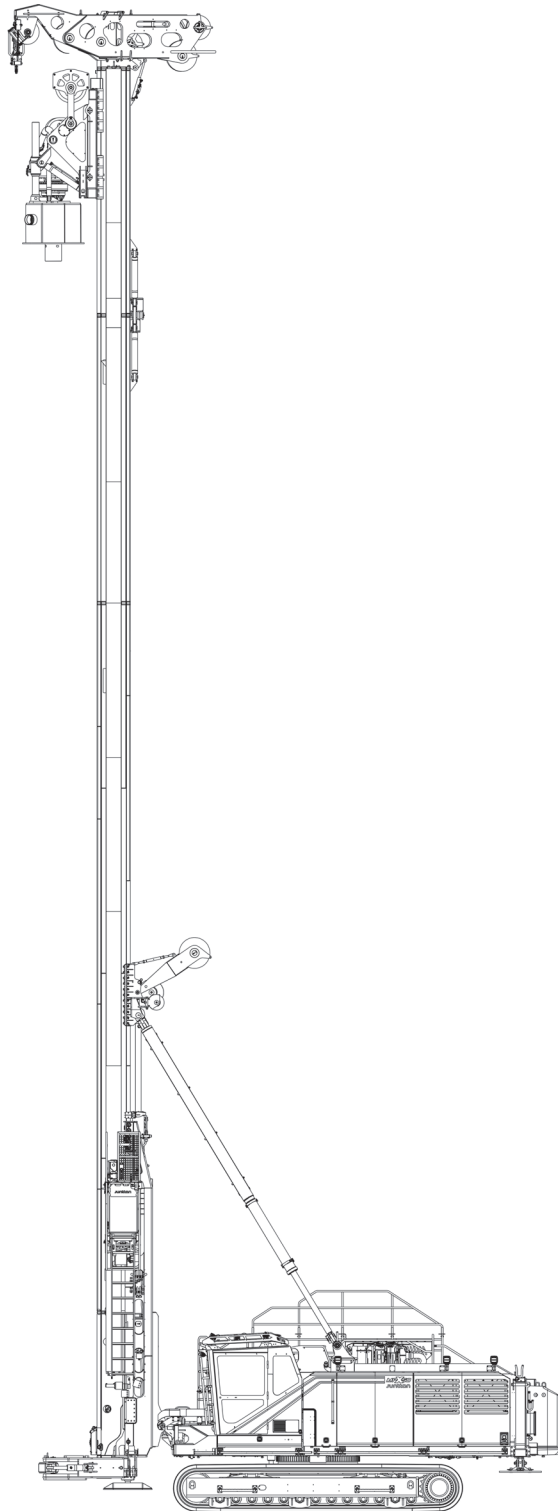


**Junttan**

# Multipurpose Piling Rig

## MPx50

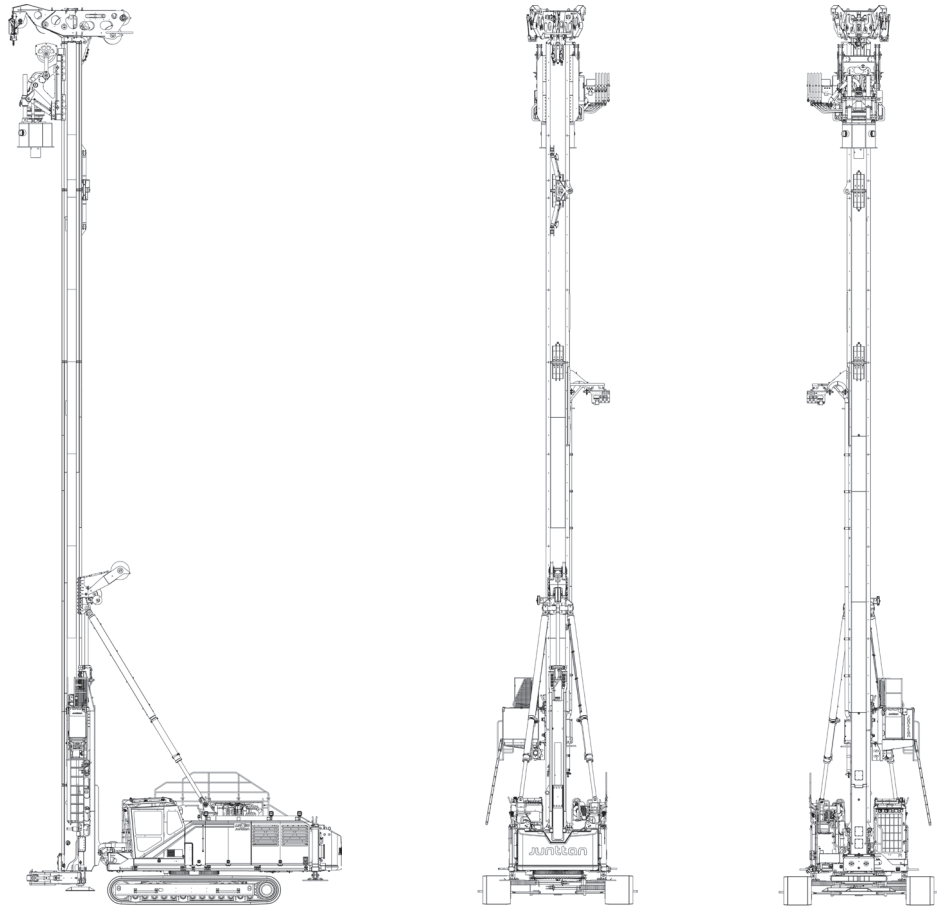


Original  
Junttan  
product

**DATA SHEET**

# General Information

**Junttan MPx50**, the new Junttan multipurpose drilling and piling rig. This multifunctional piling rig is designed for different work methods including DTH, displacement, CFA, driven cast-in situ (DCIS), and driven pile work done with a Junttan hydraulic hammer. The maximum torque is 200 kNm. The Junttan-designed, purpose-built piling rig undercarriage ensures utmost stability for the rig. Special attention has been paid to the mobilization and easiness of transportation of the MPx50. The rig can be transported with a leader, which can be folded to shorten the transport length. The specially designed undercarriage comes with tracks that are easy to dismantle for restricted transportation conditions.



## Multipurpose Piling Rig

Model MPx50	DTH	Displacement	CFA	DCIS	Driven Pile
Average working weight	86 000 kg (189 600 lb)	86 000 kg (189 600 lb)	86 000 kg (189 600 lb)	86 000 kg (189 600 lb)	86 000 kg (189 600 lb)
Max drilling diameter	1 000 mm (39 in)	508 mm (20 in)	800 mm (32 in)	610 mm (24 in)	1 000 mm (39 in)
Telescope leader					4 m (157 in)
Max drilling/piling length	24 m ( 79 lb)	24 m ( 79 lb)	24 m ( 79 lb)	24 m ( 79 lb)	24 m ( 79 lb)
Max extraction	800 kN (179 800 lbf)	800 kN (179 800 lbf)	800 kN (179 800 lbf)	800 kN (179 800 lbf)	800 kN (179 800 lbf)
Max pull down	390 kN (87 675 lbf)	390 kN (87 675 lbf)	390 kN (87 675 lbf)		
Hammer winch (single rope)				130 kN (29 225 lbf)	200 kN (44 960 lbf)
Pile winch					130 kN (29 225 lbf)
3rd winch	2 x 50 kN (11 240 lbf)	2 x 50 kN (11 240 lbf)	2 x 50 kN (11 240 lbf)	50 kN (11 240 lbf)	50 kN (11 240 lbf)

# Technical Data

## Leader

Type	Fixed MPx50		
Total length	24 - 29 m	79 - 95 ft	
Maximum capacity	23 000 kg	50 700 lb	
Movements	Vertical:	4 000 mm	157 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

DTH: Junttan RHP14	Torque:	140 kNm	103 259 ft-lb
CFA: Junttan RHP20	Torque:	200 kNm	147 512 ft-lb
FDP according to customer specification	Torque:	300 kNm	221 269 ft-lb

## Uppercarriage

Winches	Single line pull, 1. layer		
	Main winch 1:	200 kN	44 962 lbf
	2nd winch:	130 kN	29 225 lbf
	3rd winch:	50 kN	11 240 lbf
Engine	Type:	Cummins L9, Stage V	Tier 4F EPA
	Max power:	321 kW	430 hp
	Fuel tank:	810 liters	214 gal
Hydraulic system	Max flow:	2 x 280 l/min @ 2 000 rpm	2 x 74 gpm @ 2 000 rpm
	Max pressure:	350 bar	5 076 psi
	Oil tank:	750 liters	198 gal
Counterweight	Extendable:	12 000 kg	26 455 lb

## Undercarriage

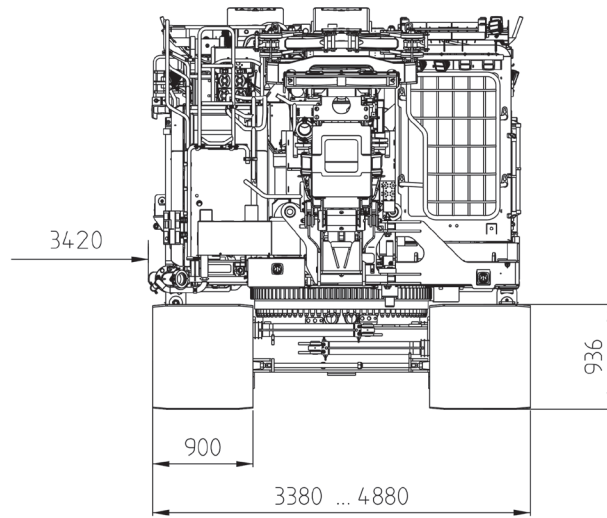
Crawler length	5 700 mm		225 in
Width (900 shoes)	Min:	3 380 mm	133 in
	Max:	4 880 mm	192 in
Track shoe options	Width:	800/900/1 000 mm	31½ / 35½ / 39½ in

## Optional equipment / Working method

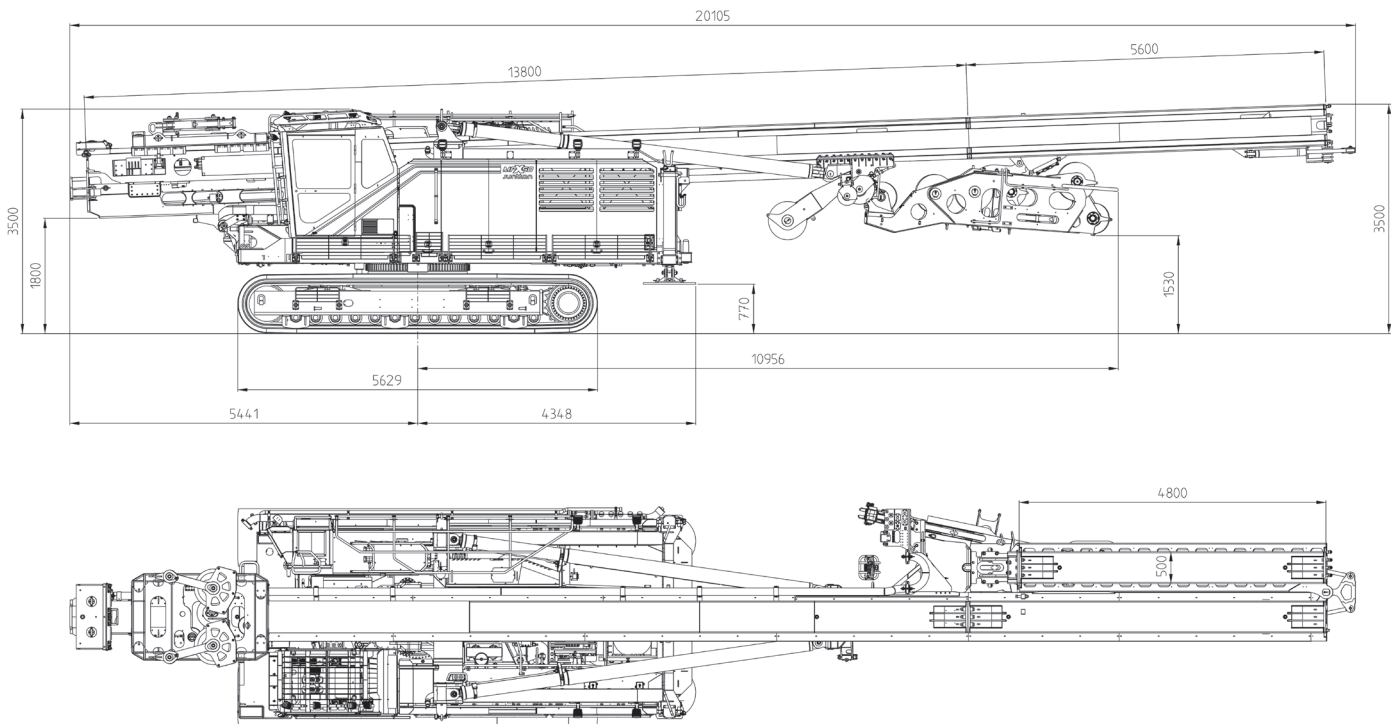
	DTH	Displacement	CFA	DCIS	Driven Pile
Hydraulic clamp		x	x		
Instrumentation Jean Lutz		x	x		
Extraction cathead	x	x	x	x	
Double side cathead					x
Secondary Aux. winch 5 000 kg (11 000 lb)	x	x	x	x	x
Flat track shoes		x	x	x	x
Personal lift	x	x	x	x	x
Instrumentation Junttan	x			x	x
Air feeding line	x				
Water pump	x				
Clamping device	x				
Remote control drilling	x				
Other accessories available on request	x	x	x	x	x

Manufactured according to EN 16228:2014 standard

# Transport Dimension



Minimum track width.



MPx50 transport dimensions.