

FR40/50 Modular Rotary Drilling Rig

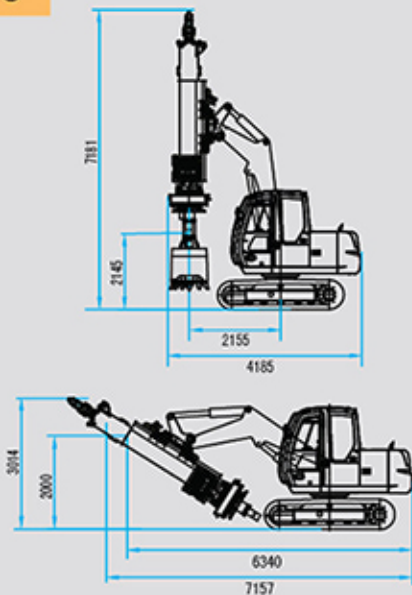
Technical specification

Rotary Drilling Rig Model	FR40	FR50			
Excavator Size (t)	8t-13	14-16	20-23	24+	
Max. torque (kN.m)	32/42	50	50	50	
Max. drilling diameter (mm)	1200	1200	1200	1200	
Max. drilling depth (m)	10	16	20	24	
Max. cylinder thrust (kN)	70	70	75	75	
Max. cylinder trip (mm)	600/900	1100	1100	1100	
Main winch pull force (kN)	45	65	65	65	
Main winch speed (m/min)	30	48	48	48	
*Auxiliary winch pull force (Matching) (kN)	10	10	10	10	
Mast inclination(Lateral) (°)	±6	±6	±6	±6	
Mast inclination(Forward) (°)	+60 ~-30	+90 ~-30	+90 ~-30	+90 ~-30	
Working speed (r/min)	7-40	7-40	7-40	7-40	
Min. radius of gyration (mm)	2750	2800	2950	5360	
Max. pilot pressure (MPa)	31.5	31.5	31.5	31.5	
Operating height (mm)	7181	8868	9926	11421	
Operating width (mm)	2300	2600	2800	3300	
Transport height (mm)	3014	2731	3150	3311	
Operating width (mm)	2300	2600	2800	3300	
Transport length (mm)	7157	10390	11492	12825	
Transport weight (t)	5.4	6.1	6.5	7	
Remark	Restructuring big arm	Restructuring big arm	Restructuring big arm	Original arm	

It is just reference dimension of excavator, and will be difference according to the excavator model.

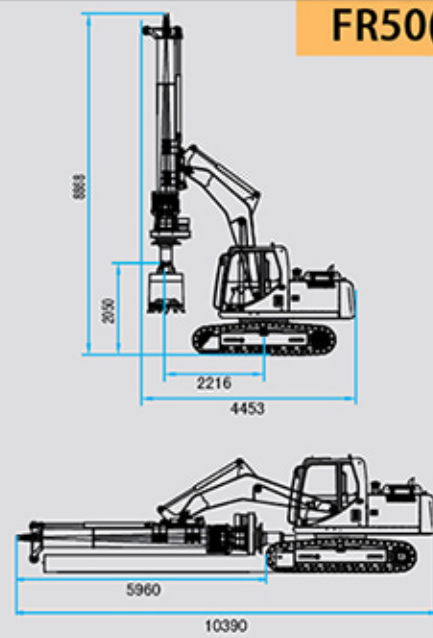
Overall dimensions

FR40



Reference model: Komatsu PC 85

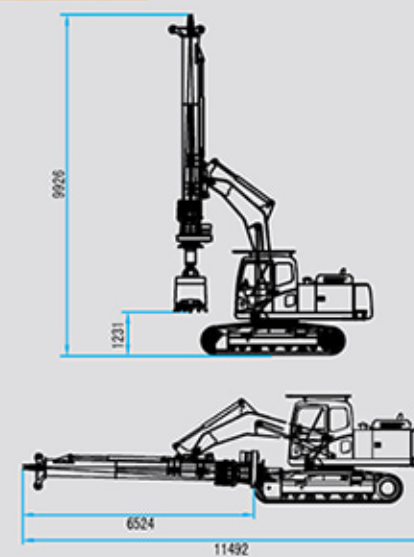
FR50(16t)



Reference model: Komatsu PC150

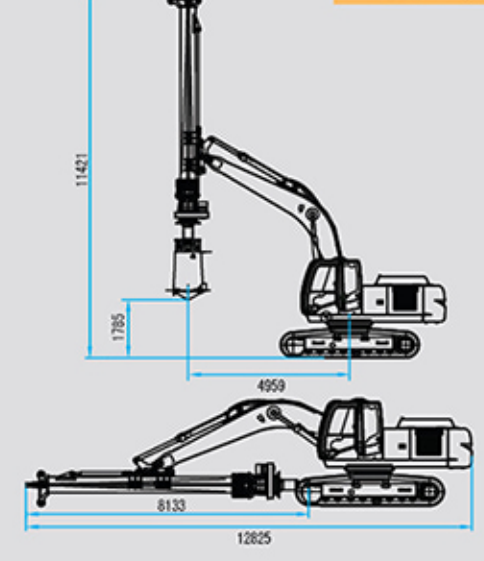
FR40/50 Modular Rotary Drilling Rig

FR50(21t)



Reference model: Komatsu PC 200

FR50(30t)



Reference model: Komatsu PC 300

Professional services-International quality



Foundation Equipment Supplies (China) Limited

Quick Transition

The leading overall transport modular rotary drilling rig, can change transport state into working state rapidly.

High Efficiency

Construction high-performance hydraulic system and control system in cooperation with Tianjin University CNC Hydraulic Institute of Technology, which can realize the machine's construction efficiently.

High Security

Designed in strict accordance with European Union safety standards EN791. Meet the requirements of dynamic and static stability.

Monitor Timely

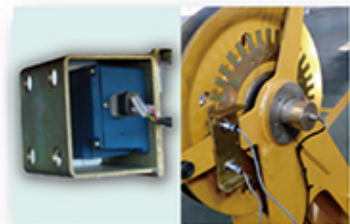
Independently developed special control system for rotary drilling rig, monitor depth timely.

Professional technology

mature design technology is applied in small rotary drilling rig, ensure higher performance.

High Universality

According to the excavator hydraulic system to modify, easy operation and maintenance after modification.



Professional rotary drilling rig electronic control system can show the rig's depth and mast's inclination accurately with easy operation. Additional bottom protection can avoid rope disorder and extend the service life to the rope.



Exclusive adjust / lock device, mature patent technology of centering device, imported lock valve for installing cylinder can ensure the verticality and safety.



All structure parts are supplied from professional construction and engineering companies, with material from the original steel factory and excellent welding technology, which can ensure all parts quality.



The whole machine uses original imported hydraulic hoses to ensure the stability of hydraulic system.



Exclusive crowd pressure structure can transmit crowd pressure reliably.

Max. working pressure of the working device cylinder is 40MPa. Using original imported cylinder seal can ensure the quality and service life of the cylinder.



Optional auxiliary winch.

The integration mast with super strong rigidity is more durable.

Exclusive patent design of cable drum and rope clamp can ensure the rope in order; equipped with professional winch drive system of rotary drilling rig, it can ensure high efficiency construction.

Supplied by professional factory, the rotary head of the rotary drilling rig can supply the stable 50kN.m torque and has the throwing soil function of 40rpm.

Professional interlocking Kelly bar of rotary drilling rig can fully transfer about 7 ton pressure, which can be used in hard soil ground.

Enhanced bucket / auger can be applied in many kinds of complex stratum with durable and long service life.



Product Series