



# EXCAVATOR

## TX210 LC/NLC



Operating Weight	22.0-23.3 t
Engine Power	128 kW
Bucket Capacity	0,65-1,25 m <sup>3</sup>
Digging Depth	5,8-7,3 m

EQUIPMENT FOR YOUR SUCCESS

TX 210 excavator is designed to handle large scopes of work in the road building and maintenance applications, industrial, oil and gas, and utility infrastructure construction projects. The machine feels at home on soils up to class IV inclusive.

Spacious and comfortable cab with climate control reduces the operator fatigue boosting performance and efficiency.

Smart computerized control system synchronizes the engine and hydraulic system optimizing power consumption and energy efficiency.

Hydraulic circuit to connect active work tools.

Electronically controlled fuel efficient engine meets Tier 3 emission standard.

Ample opportunities to adapt working equipment to various operating conditions.



X-shaped crawler frame is available in two versions (LC and NLC).

Serviceability – maintenance points are grouped for ground level access.



## NEW STANDARD OF RUSSIAN CONSTRUCTION EQUIPMENT

RM-Terex brings state-of-the-art construction equipment by leveraging its R&D and production capabilities.

We strive to create the best-in-class assistants to your business offering unmatched reliability and trouble free operation leading to the new levels of efficiency and profitability.

- ▶ Spacious and safe cab offers increased level of comfort
- ▶ Excellent riding characteristics – exceptional off-road performance
- ▶ Comfortable and precise excavator controls with the workflow optimization system onboard
- ▶ State-of-the-art fuel-efficient YaMZ-534 engine with electronic control
- ▶ Wide range of standard equipment
- ▶ Easy access for maintenance
- ▶ Long warranty period – 3 years



## OPERATOR COMFORT

The cab and operator station are designed with the best international practices in mind taking into account all the requirements and preferences of the customers. The cab is equally well suited for various weather conditions.

- ▶ Maximized operator space. One of the most spacious excavator cabs.
- ▶ Double-sided sliding window on the cab door latching at intermediate points.
- ▶ Pre-installed mounting points for protective grilles (grilles are optional).
- ▶ Easily operated up-and-over windshield.
- ▶ Windshield wiper with pantograph mechanism ensuring a large cleaning area (over 70% coverage).
- ▶ 2 roof-mounted working lights (2 extra lights are optional).
- ▶ Advanced cab mounting system on viscous dampers (shock absorbers) significantly reducing the local and overall vibrations in the operator cab from the main part of the machine.

**Cab interior and equipment** keep the operator comfortable during the course of a shift.

**Workstation** offers a wide range of adjustments and can be easily personalized to the operator's requirements.

Premium class seat includes a high back, headrest, armrests, and all required adjustments (standard).

Climate control system in the standard version features a heater, air conditioner, and air filter, and creates a positive air pressure in the cab protecting the operator from the environment. Filters keep the air in the cab clean.





CAB FEATURES



**Opening rear window** ensures convenient airing, can serve as an emergency exit in case of an accident and helps with maintenance and repairs.



**Skylight** with protective grille ensures the working equipment visibility.



**Slotted and rotating deflectors** provide efficient window blowing and prevent windows from freezing and fogging.

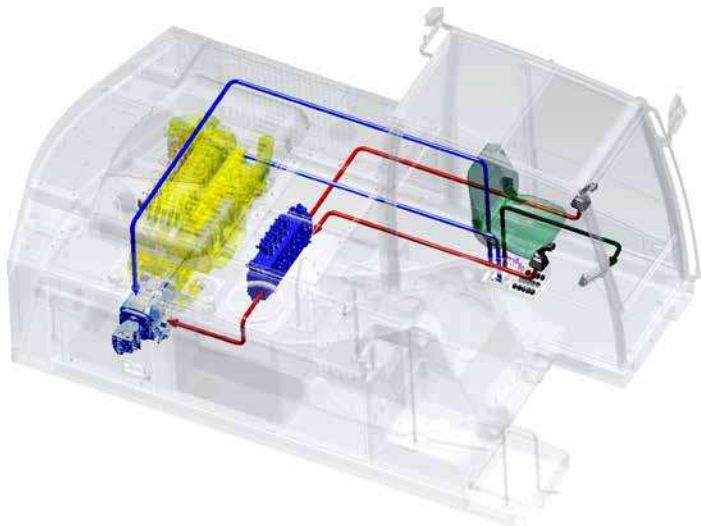


Adjustable **roller blinds** on the upper and front windows protect the operator from bright sunlight (standard).



7-inch **LCD** displays all key excavator parameters and a rear camera view.

SMART CONTROL SYSTEM



The hydraulic system ensures flow distribution between the actuators regardless of the applied loads.

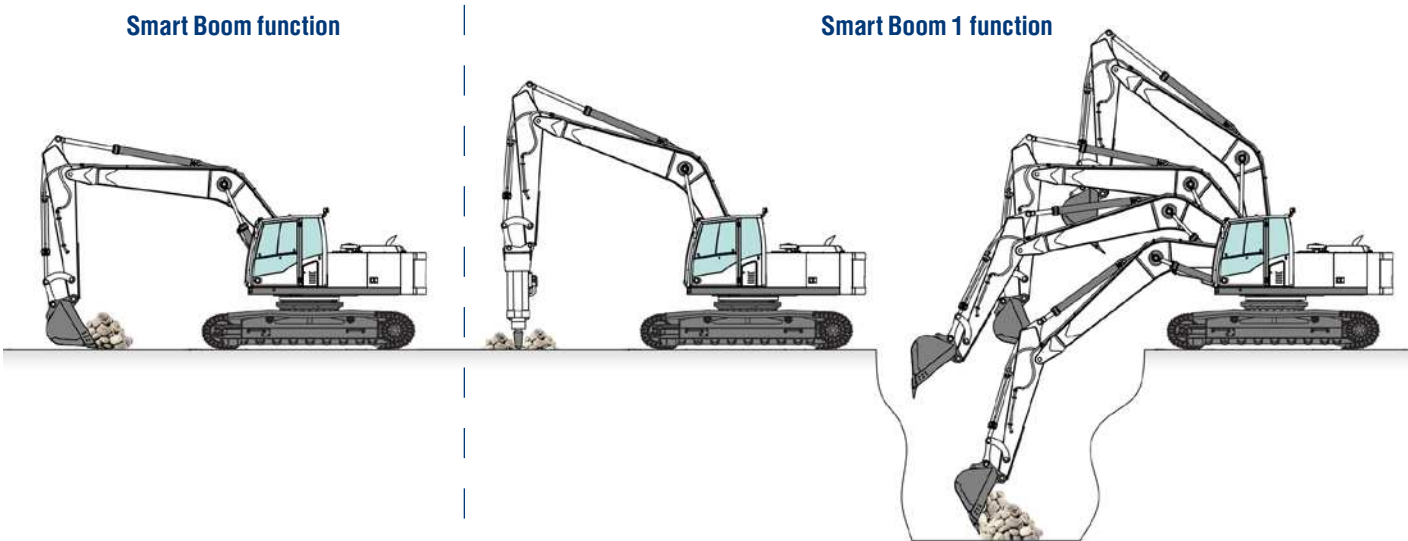
Proportional flow distribution is at the operator fingertips (joystick controls). The feature guarantees high excavator performance allowing to combine an unlimited number of operations within one cycle.

The speed of movement of all mechanisms is independent of the changing work tool loads. This allows the operator to achieve optimal trajectories and minimum cycle times.

Mode		Note
S	Maximum speed	Maximum operating speed – Maximum performance
P	Maximum force	Maximum force and speed
N	Standard	Medium duty for general work
E	Economy	Minimum fuel consumption
L	Light	50% force
D	For delicate work	Reduced maximum speed for higher precision
U	User	Selection of engine rpm at the operator’s discretion

**Automated Throttle function** allows saving fuel during downtime. It puts the engine to idle after 5 seconds of the hydraulic drive no-load and returns it to preset rpm when resuming operation.

**Enhanced Digging Force function** boosts performance by 10% for a short period. Active hydraulic pressure goes up from 330 to 360 bar.



The function assists in land planning works to obtain a level ground surface. The operation is performed using only the dipper stick and the bucket. The boom moves freely up and down under its own weight.

The function ensures a comfortable operation of a hydraulic rock breaker, vibratory pile driver, and vibratory plate. The boom moves down freely and loads the work tool with its own weight.

This function allows the operator to increase performance and helps save fuel during the soil excavation from the pit. The bucket returns to the pit more quickly. The boom goes down without taking power from the pump.



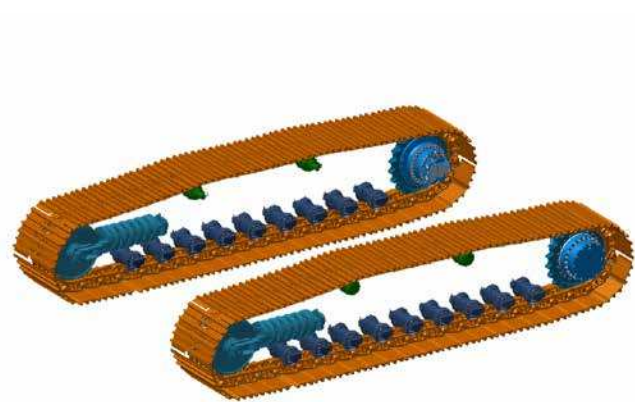
## EASE OF MAINTENANCE



- ▶ Combined radiator block of the engine cooling system and the hydraulic system.
- ▶ FanDrive proportional automatic control ensures optimum temperature of the engine and the hydraulic system.
- ▶ Key maintenance and control points are grouped on the left side, behind the engine compartment panels.
- ▶ Independent engine and cab preheater.
- ▶ Fuel and hydraulic tanks are located on the right side, one after another. All the filling is from one side.
- ▶ Battery box and tool box covers are comfortable steps with anti-slip coating. Together with large handrails and fences they provide easy access to the platform.
- ▶ Fuel filter separator is easily accessible for maintenance.
- ▶ Ground-level access ensures the ease of maintenance, including inspections and filter replacements.

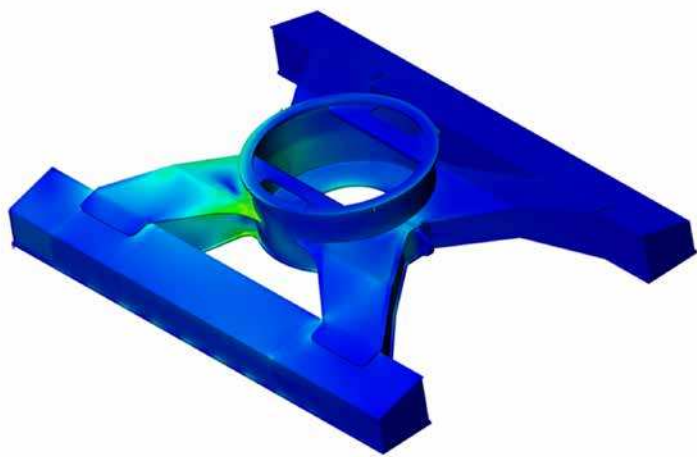


## SUPERIOR RELIABILITY



Box-section **X-shaped welded crawler** frame is made using alloy structural steels. The frame boasts high strength and rigidity which is the basis of the excavator reliability. It demonstrates excellent resistance to high torsional and bending loads resulting from heavy use. Advanced engineering solutions and modern software tools have been widely used in the design of steel structures for the analysis of all structural elements to create a reliable machine for all kinds of jobs.

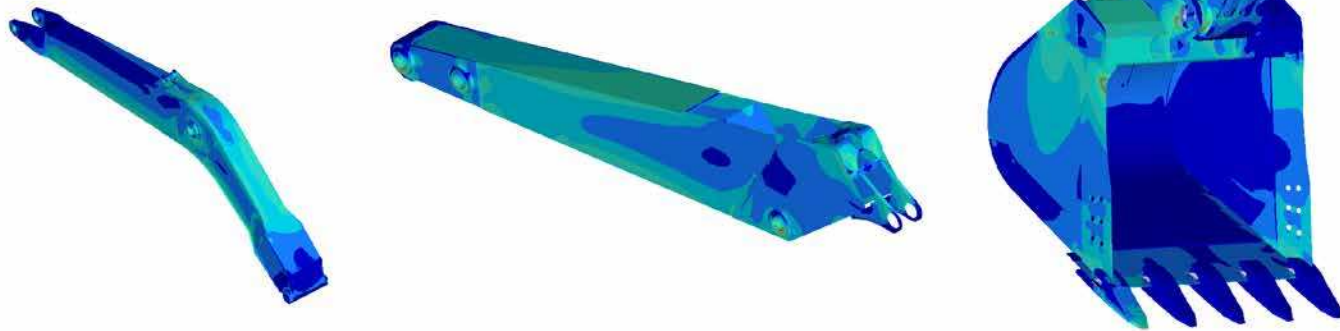
**Track tension device** including a tension hydraulic cylinder and a spring damper ensures efficient absorption of shock loads on rough terrain. Lubrication and tension mechanism adjustment points are conveniently situated and environment-proofed.



Sloping surfaces of the crawler side beams prevent dirt accumulation and facilitate cleaning.

The lower surface of the frame features a solid removable cover that reliably shields the central well protecting the manifold and hydraulic circuit against dirt and damage.

The crawler is equipped with robust two-speed drives. You can select the desired driving mode depending on the road conditions. The drives provide high tractive effort when the excavator travels on heavy soil and off-road. The built-in disc parking brakes help to securely hold the excavators on sloping ground.



Reinforced **working equipment** is designed for high-stress operation. Alloy steels ensure durability. All structural components are created using 3D design tools and tested for strength by FEM analysis.

Improved bucket design:

- ▶ Reinforced edge, bottom and sides.
- ▶ Wear-resistant teeth and side cutters.
- ▶ Additional lifting eyes to fit a lifting beam or hook.

CRAWLER EXCAVATOR TX210

ENGINE

Model	YaMZ 534
Type	Four-cylinder in-line four-cycle diesel engine with water cooling, direct injection, turbocharging, charge air cooling, and electronic control
Rated flywheel power (SAE, net)	128 kW at 2000 rpm
Max. torque, Nm, at least	750Nm at 1600 rpm
Displacement	4.43 l
Batteries	2x6CT-190
Starter	24V, 4 kW
Alternator	28V, 100A

SWING SYSTEM

Slewing gear	Planetary reduction gear with brake and axial piston hydraulic motor
Swing brake	Spring-loaded automatic, built into the swing motor
Swing speed	10.5 rpm

CRAWLER

Hydrostatic drive		
Maximum drawbar pull	kgf (kN)	20000 (200)
Maximum travel speed	1st gear:	2.7 km/h
	2nd gear:	5.5 km/h
Gradeability	deg. (%)	35 (70)
Track tension device	Spring-type with a cylinder filled with lithium grease and located inside the spring	
Parking brake	Disc-type, normally applied, located inside the housing	

HYDRAULIC SYSTEM

Main pump, type	Adjustable axial piston pump with a swash plate	
Rated pump unit capacity	420+37.5 l/min	
Control circuit pump	Gear pump	
Hydraulic drive motor	Axial piston hydraulic motor, built into the crawler drive	
Hydraulic cylinders. Piston rod diameter x bore x stroke, mm	Boom:	80x125x1325
	Stick:	100x140x1595
	Bucket:	80x125x1070

REFILL CAPACITIES

Fuel tank	350 l
Engine cooling system	40 l
Engine lubrication system	20 l
Platform slewing gear	4.6 l
Crawler drives	3.2*2 l
Hydraulic system	400 l
Hydraulic tank	290 l

OPERATING WEIGHT

		LC		NLC	
Operating weight		22.0-23.3 t			
Excavator operating weight is calculated for standard configuration: one-piece boom, stick and bucket, all capacities filled with lubricants, cooling and hydraulic fluid, full fuel tank, 75 kg operator, full set of equipment for standard configuration.					
Turntable with mechanisms, unfuelled	Weight	9770 kg			
One-piece boom, including the stick hydraulic cylinder	Length	5700 mm			
	Weight	1800 kg			
Stick with the bucket hydraulic cylinder and bucket mechanism	Length	2000 mm	2400 mm	2920 mm	3500 mm
	Weight	1010/1100/1240/1405 kg		1000/1100/1240/1330 kg	
Bucket with mounting pins	Capacity, SAE	0.65 m³	0.9 m³	1.0 m³	1.25 m³
	Weight	723 kg	890 kg	906 kg	940 kg
Crawler undercarriage	Weight	7533/7941/8348/8621 kg		7150/7443 kg	
Crawler track width		600/750/900/1000 mm		500/600 mm	
Specific ground pressure		0.48/0.384/0.32/0.29 kg/cm²		0.57/0.48 kg/cm²	

LC BUCKETS

All buckets are all-welded					
Boom, mm	5700				
Capacity, SAE, m³	0,65	0,9	1	1,25	
Width, mm	872	1084	1372	1572	
Weight, kg	683	850	866	900	
Sticks, mm	2000	●	●	●	●
	2400	●	●	●	○
	2920	●	●	●	□
	3500	●	●	□	▲

NLC BUCKETS

All buckets are all-welded					
Boom, mm	5700				
Capacity, SAE, m³	0,65	0,9	1	1,25	
Width, mm	850	920	1239	1350	
Weight, kg	500	810	865	1050	
Sticks, mm	2000	●	●	●	□
	2400	●	●	○	▲
	2920	●	○	□	▲
	3500	●	▲	▲	

DIGGING FORCE

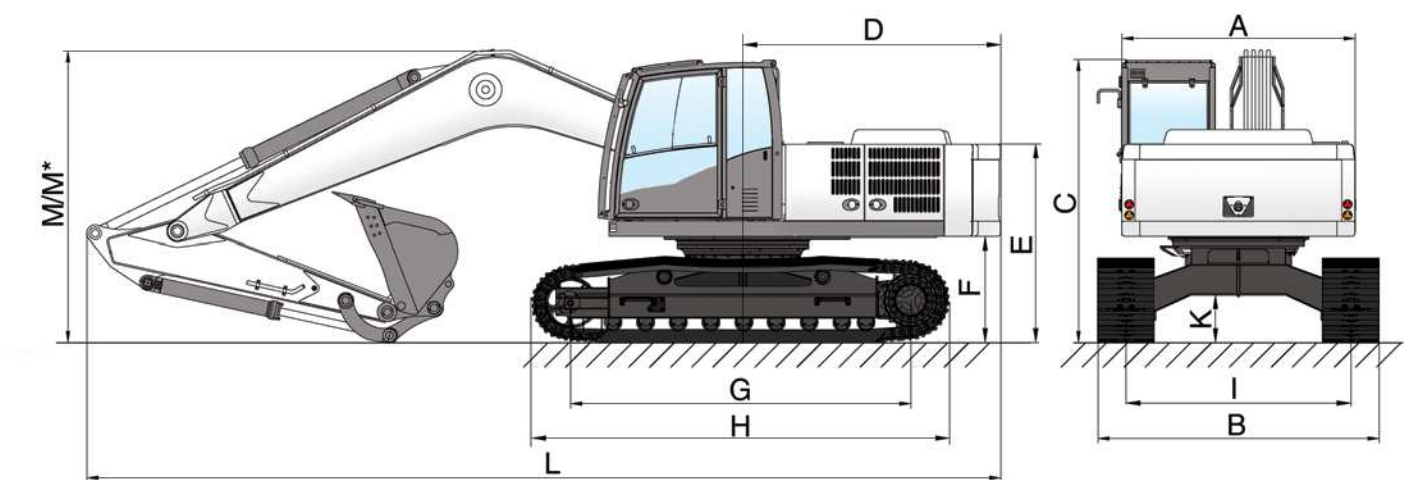
Boom	Length, mm	5700			
	Weight, kg	1800			
Stick	Length, mm	2000	2400	2920	3500
	Weight, kg	1010	1110	1240	1405
Bucket digging force, kN		151			
Stick digging force, kN		140	120	108	88

**Note:**  
The boom weight includes the stick hydraulic cylinder, pipelines and a pin. The stick weight includes the bucket hydraulic cylinder, linkage mechanism with a pin, and pipelines.

- can be used for materials with up to 2000 kg/m³ density
- can be used for materials with up to 1800 kg/m³ density
- can be used for materials with up to 1600 kg/m³ density
- ▲ can be used for materials with up to 1100 kg/m³ density

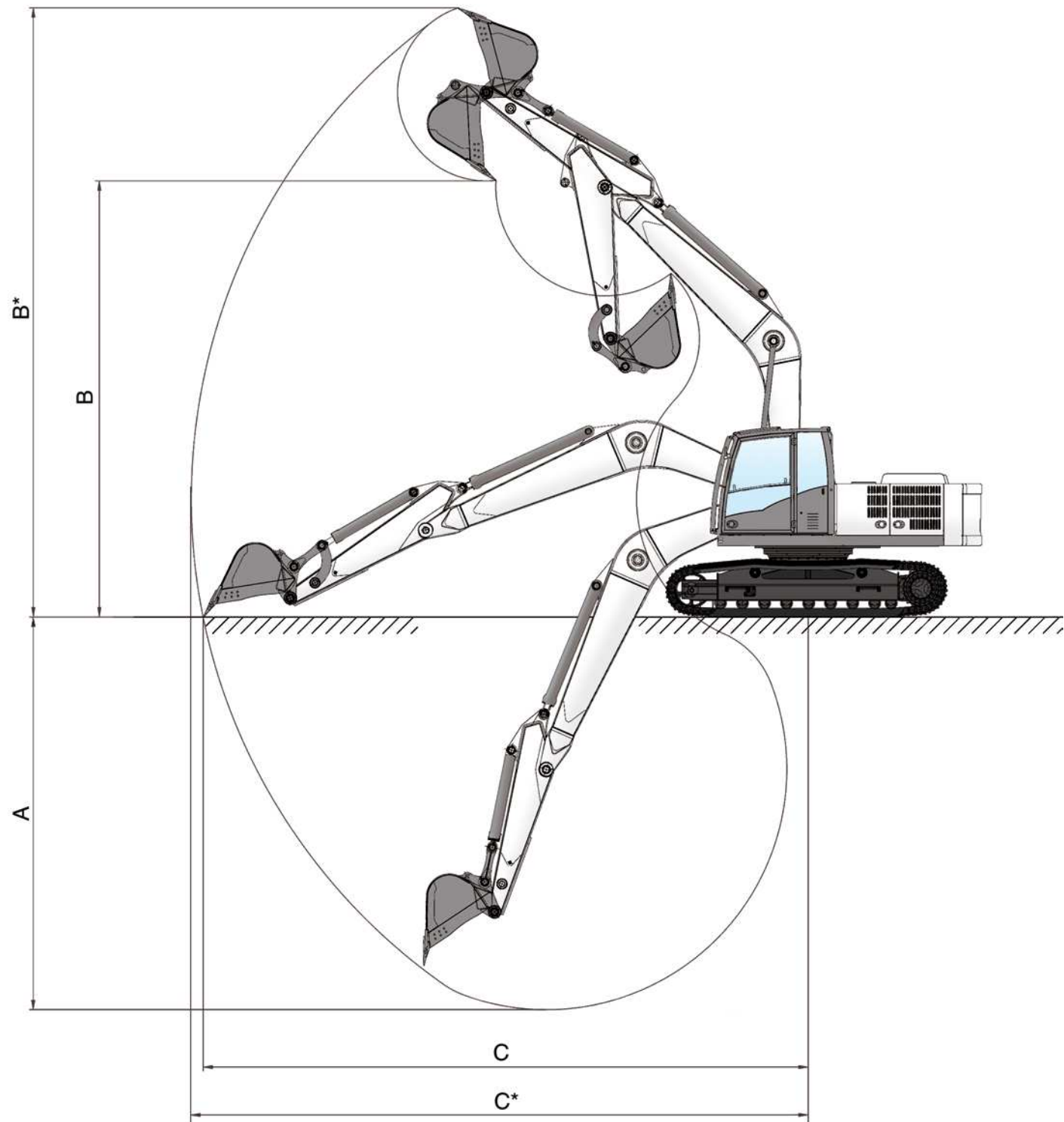


OVERALL DIMENSIONS



LC / NLC				
One-piece boom, mm		5700		
Sticks, mm		2000	2400	2920 3500
A	Overall turntable width, mm	2500		
B	Overall excavator width, mm	from 3000 to 3400 / from 2500 to 2600		
C	Height to top of cab, mm	3003		
D	Platform tail radius, mm	2750		
E	Height to top of hood, mm	2278		
F	Clearance under the counterweight, mm	1131		
G	Undercarriage base, mm	3650		
H	Undercarriage length, mm	4460		
I	Track gauge, mm	2400 / 2000		
K	Minimum ground clearance, mm	500		
L	Overall length, mm	9750	9570	9590 9765
M	Overall boom height, mm	3080	3080	3220 3380
M*	Overall boom height when driving (rise 200 mm), mm	3280	3280	3420 3580
Track width, mm		600/750/900/1000 / 500/600		
Track gauge, mm		3000/3150/3300/3400 / 2500/2600		

WORKING RANGES



LC / NLC				
One-piece boom, mm		5700		
Sticks, mm		2000	2400	2920 3500
A	Digging depth, mm	5824	6216	6736 7324
B	Dumping height, mm	6505	6900	7010 7322
B*	Digging height, mm	9332	9640	9705 10025
C	Digging reach at ground level, mm	9138	9577	10015 10587
C*	Maximum digging reach, mm	9333	9760	10194 10755

# STANDARD EQUIPMENT

## Cab

- ▶ Steel cab with tubular reinforced frame; glazing - 4 sides and top.
- ▶ Windshield: up-and-over upper part equipped with a lever mechanism and pneumatic springs; the lower part is removable.
- ▶ Windshield wiper.
- ▶ Double-sided sliding door window
- ▶ Sunroof
- ▶ Opening rear window
- ▶ Climate control system:
  - air conditioner and heater,
  - air distribution inside the cab,
  - adjustable defrosters providing air flow to the windows,
  - outside air intake control device,
  - replaceable filter element
- ▶ Operator seat with mechanical suspension, adjustable armrests, headrest, and lap safety belt.
- ▶ Control consoles with seat-independent longitudinal adjustment
- ▶ Roller blinds on the front and top windows
- ▶ FM/Mp3 sound system
- ▶ Fire extinguisher, first aid kit
- ▶ Cigarette lighter, dome light
- ▶ Compartment for personal belongings, coat hook, ashtray
- ▶ Hydraulic antivibration cabin mounts
- ▶ Electric horn
- ▶ Two rear-view mirrors (on the cab and right-side handrail)
- ▶ Molded rubber mat

## Performance monitoring

LCD readings:

- ▶ hydraulic system mode (7 preset and 4 additional modes)
- ▶ fuel level
- ▶ engine coolant temperature
- ▶ engine oil pressure
- ▶ hydraulic oil temperature
- ▶ hour meter
- ▶ electrical network voltage
- ▶ rear view camera

## Warning lights

- ▶ battery low
- ▶ clogged air filter

Remote performance monitoring (GPS, GLONASS)

## Electrical

- ▶ Battery (2 x 12V x 190 A/h)
- ▶ Remote battery switch
- ▶ 2 boom-mounted working lights (right and left)
- ▶ 3 roof-mounted lights
- ▶ Beacon

## Turntable

- ▶ Platform slewing gear with automatic brake
- ▶ Cooling system fan drive with proportional automatic control
- ▶ Independent liquid engine preheater
- ▶ Fuel water separator with electric heating
- ▶ Anti-slip plates at access points
- ▶ Handrails on the turntable right side
- ▶ Counterweight light
- ▶ Removable pads on the bottom of the frame

## Crawler undercarriage

- ▶ X-shaped rigid frame
- ▶ Crawler undercarriage versions
- ▶ LC: standard (600 mm crawler track, oversize load)
- ▶ NLC: narrow (500 mm crawler track, standard size load)

## Working equipment

- ▶ LC: One-piece boom with standard 2920 mm stick and 0.9 m³ bucket
- ▶ NLC: One-piece boom with standard 2400 mm stick and 0.9 m³ bucket
- ▶ NLC: Hydraulic circuit with quick-attach for the hydraulic rock breaker
- ▶ Working equipment hydraulic cylinders with flanged boxes and dampers
- ▶ Mechanical centralized lubrication of working equipment joints and slewing gear

## Spare parts, tools and accessories kit

# OPTIONS

- ▶ Safety valves for boom hydraulic cylinders
- ▶ Safety valve for the stick hydraulic cylinder
- ▶ Automatic centralized lubrication of working equipment joints and slewing gear
- ▶ 2D / 3D leveling system
- ▶ Cab protection: windshield grille
- ▶ Sun visor
- ▶ Cab roof lighting unit (4 spotlights )
- ▶ LC: Hydraulic circuit with quick-attach for the hydraulic rock breaker
- ▶ Hydraulic circuit to connect active work attachments with two operating movements (grab, log grapple, etc.)
- ▶ Quick-attach with mechanical drive
- ▶ Electric fuel pump
- ▶ Removable sticks: 2000 mm, 2400 mm, 2920 mm, 3500 mm
- ▶ Removable buckets: 0.65 m³, 0.9 m³, 1.0 m³, 1.25 m³





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The standard configuration and optionally installed equipment may vary. For more information, please contact the dealers. Contacts of dealerships are listed on the company's website. Equipment shown in the photographs and illustrations may differ from the available for ordering. Materials and specifications are subject to change without notice.

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