Handling and special-purpose equipment. Self-propelled jib-type cranes. Railway jib-type cranes.

Self-propelled railway jib-type crane 7Ж72

Railway cranes are designed for loading, unloading, construction, erection, repair and restoration works on railways, railside space of the mainline and industrial railway transport.

The telescopic jib allows cranes to work under overhead contact wires, in tunnels, on bridges and under bridges and to have only one covering platform.

The jib design allows its telescoping with the load on the hook.

Cranes can be used as a rail layer.

Crane supports can be installed for a different outreach, which allows the cranes to be operated in constrained conditions.

The loading characteristics of the cranes are automatically adjusted by the electronic load-carrying limiter.

The high degree of crane mechanisms automation makes them very mobile. The time of the cranes getting into working position on the prepared site is 25-30 minutes.

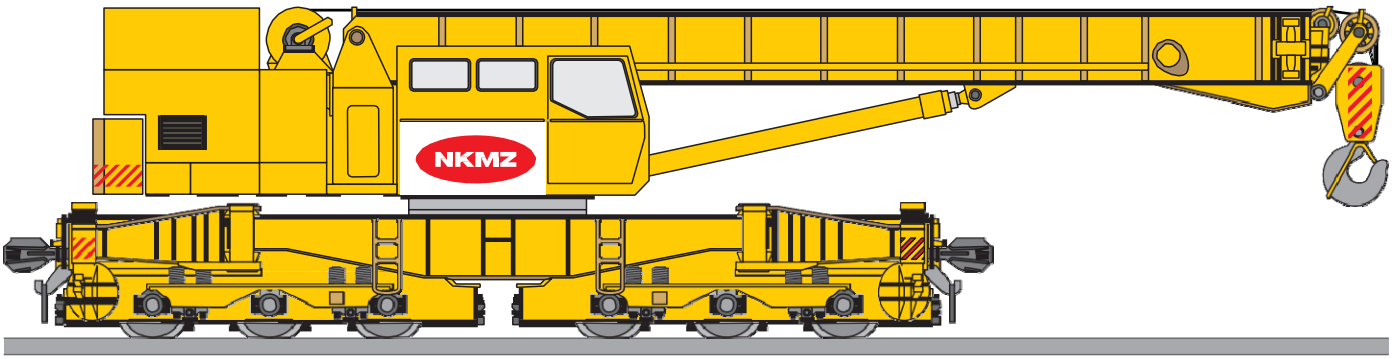
The presence of two autonomous power plants (diesel and electric) expands the crane operational capabilities.

Cranes, like locomotives, can transfer several rail cars.

As the 7Ж71 crane undercarriage its own platform is used, in the 7Ж72 crane - the platform of the “Kirov” EDK-1000 crane.

Handling and special-purpose equipment.
Self-propelled jib-type cranes. Railway jib-type cranes.

SELF-PROPELLED RAILWAY JIB-TYPE CRANE 7Ж71

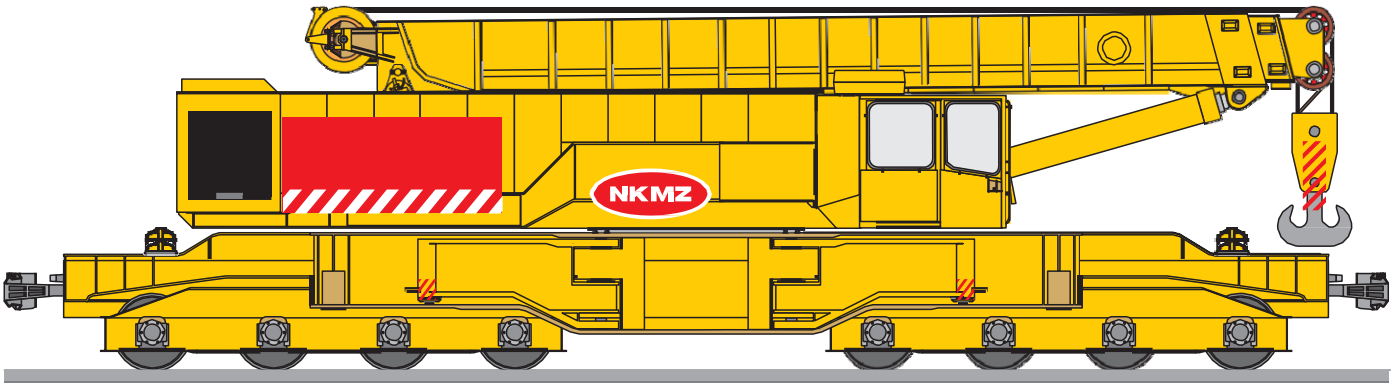


Technical characteristics

Parameter name	Value
Load-lifting capacity, t: - with outriggers - without outriggers along the railway track - without outriggers across the railway track	 80 50 12
Outreach from the crane rotation axis, m: - minimum - maximum	 6,25 20
Maximum load moment, tf/m	500
Telescopic jib length, m	13...22
Hook lifting height, m: - with retracted jib - with extended jib	 12 22
Speed of load lifting-lowering, m/min: - nominal load - load with weight of 20 t	 3 12
Rotation frequency, rpm	0,8
Outreach changing time, sec	200
Travel speed, km/h: - self-propelled with load - self-propelled without load - travelling as a part of train	 6 10 80
Overall dimensions, mm: - length - width - height	 18157 3120 4310
Crane weight in operating condition, t	121

Handling and special-purpose equipment.
Self-propelled jib-type cranes. Railway jib-type cranes.

SELF-PROPELLED RAILWAY JIB-TYPE CRANE 7Ж72



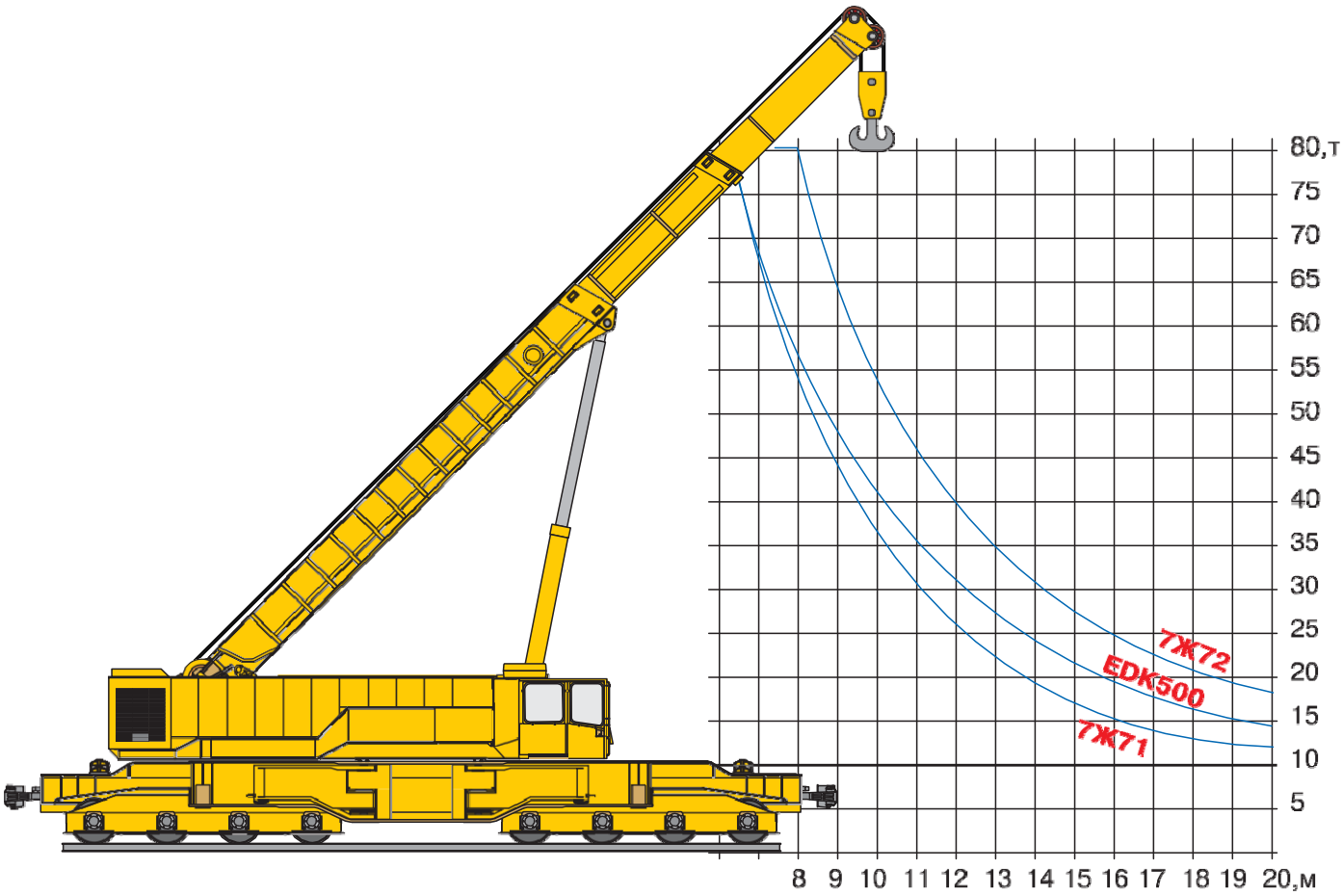
Technical characteristics

Parameter name	Value
Load-lfting capacity, t - with outreach up to 11 m - with outreach 20 m in any direction	 80 21
Maximum outreach, m	20
Maximum load moment, tf/m	900
Maximum load lifting height over the rail head, m	20
Maximum load lowering height from the rail head, m	10
Speed, m/min: - load lifting-lowering - load putting down	 3...12 0,2
Rotation frequency of load platform, min'1	0,7
Time of jib lifting for the maximum angle, min	4
Jib full telescoping time, min	5
Crane travel speed, km/h: - self-propelled without load - as a part of train	 6 80
Radius of passed curves, m	80
Diesel-generator capacity, kW	150
Railway clearance according to GOST 9232-83	02-BM
Overall dimensions, mm: - length - width - height	 17745 3140 4600
Crane weight in operating condition, t	145

Handling and special-purpose equipment.
Self-propelled jib-type cranes. Railway jib-type cranes.

COMPARATIVE LOADING CHARACTERISTICS OF
THE RAILWAY CRANES 7Ж71, 7Ж72, EDK500

(on supports, 360^0-degree turn)



Handling and special-purpose equipment.
Self-propelled jib-type cranes. Railway jib-type cranes.

SELF-PROPELLED RAILWAY JIB-TYPE CRANES 6Ж71, 6Ж72, 8Ж71, 9Ж71

Cranes with lifting capacity of 45 tons are designed for loading, unloading, erection and other operations requiring loads lifting and moving. Cranes can be equipped with the lifting electromagnet.

Crane 6Ж71 is structurally designed so that the jib equipment fits into the crew dimensions. This allows to operate it without the rolling platform and use it as a locomotive.

Crane 6Ж72 has a shortened rear overhang of the rotating platform, which makes it possible to operate without interference during motion along the adjacent track.

Cranes 8Ж71 with lifting capacity of 90 t and 9Ж71 with lifting capacity of 120 t are intended for repair and restoration works on railways, for participation in emergency response, as well as for loading and unloading, erection and other operations requiring loads lifting and moving. Crane 8Ж71 can be used as a rail layer.

The lifting height of the hook for the crane 6Ж71 is 18m, 6Ж72 - 16 m, while the hook can be lowered below the level of the railway by 10 m.

Crane 8Ж71 with the jib outreach of 6,5 - 10 m lifts loads from the level 10 m below the level of the railway to the level 20 m above the level of the railway.

The lifting height of the hook for the crane 9Ж71 is 19 m, while the hook can be lowered 10 m below the level of the railway.

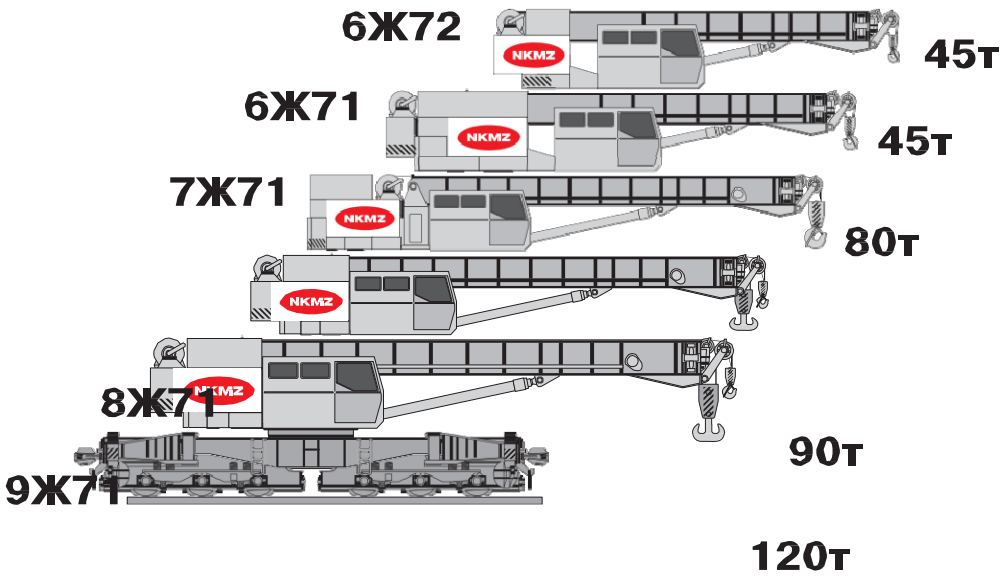
The jib design allows its telescoping with the load on the hook: for crane 6Ж71 - 15t; 6Ж72 - 7,5t; 8Ж71 - 15t; 9Ж71 - 15t.

Crane supports can be installed for a different outreach, which allows the cranes to be operated in constrained conditions. The load characteristics of the cranes are automatically adjusted by the electronic load-carrying limiter.

The load counter-balance weight of the 8Ж71 and 9Ж71 cranes is mobile, that improves the operational characteristics of the cranes, especially when working without supports.

Cranes are very mobile. The time to get them into working position on the prepared site is 25-30 minutes.

The mass of cranes is 110-125 tons, which provides them with the opportunity to work on significant outreaches with the large load, as well as move several rail cars like a locomotive.



Handling and special-purpose equipment. Self-propelled jib-type cranes. Railway jib-type cranes.

SELF-PROPELLED RAILWAY JIB-TYPE CRANES 6Ж71, 6Ж72, 8Ж71, 9Ж71

Technical characteristics

Parameter name	Value			
	6Ж71	6Ж72	8Ж71	9Ж71
Load-lifting capacity, t:				
main lifting:				
- with outriggers	45	45	90	120
- without outriggers along the railway track	45	40	50	50
- without outriggers across the railway track	16	7,5	16	18
supplementary lifting:				
- with outriggers	-	-	20	20
- without outriggers along the railway track	-	-	20	20
- without outriggers across the railway track	-	-	16	18
Outreach from the crane rotation axis, m::				
main lifting:				
- minimum	3	5	6,25	4,5
- maximum	18	18	20,465	20
supplementary lifting:				
- minimum	-	-	6,25	4,5
- maximum	-	-	20,845	20,5
Maximum load moment, tf/m	405	300	562	750
Lifting height, m:				
- main jib	9,5	8,5	12	10
- fully extended jib	18	17,5	24	19
Hook lowering below the level of the railway, m	10	10	10	10
Speed of load lifting-lowering, m/min				
main lifting:				
- maximum load	3	3	3	3
- load with weight of 20 t	12	12	12	12
- speed of load putting down	0,2	0,2	0,2	0,2
supplementary lifting:				
- minimum	-	-	9	9
- maximum	-	-	26	26
Jib outreach change time, sec	180	180	200	200
Crane weight in operating condition, t	110	120	120	125