



Kirow 1200 crane

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Our rail crane fleet is the biggest in the UK and includes two 125-tonne capacity Kirow 1200s - one VolkerRail owned and Network Rail's Kirow crane, that is maintained and operated by our team.

Kirow 1200 cranes are versatile, which makes them great for track, bridge and lineside infrastructure installations, and breakdown and recovery.

Our team is on hand to offer an array of services, including:

- Expert advice in all lifting and handling operations.
- Track renewals and panel lifts - solo or in tandem.
- Lifting support for S&C renewals and construction.
- Bridge and gantry installation.
- Rapid and flexible client response.



Operation information

Minimum negotiable curve	70m
Maximum towing speed	60mph
Maximum wheel set load	135kn
Total weight	108t
Weight per feet	7.7t/m
Height in transport position	3,900mm
Width in transport position	2,800mm
Propping base one	6m
Propping base two	4.5m
Propping base three	3m
Prop cylinder stroke	580mm
Base free on wheels	1.5 x 9m
Maximum wheel load	250kn
Rope diameter	24mm
Rope speed	0 - 50m/min
Hoisting speed	0 - 25m/min
Hook block	50 - 125t
Slewing gears	Two 2 – stage planet gears, spring – loaded disk brake and two roller bearing slewing mechanism.
Boom	Single telescope
Telescoping length	10m
Working radius total	9.5 - 24m
Working radius horizontal	14 - 24m
Telescoping speed	3 - 6m/min
External noise level	72db maximum
In cab noise level	68db maximum

Lifting capacities

OPERATING MODE		REAR PART FOLLOWS CRANE ROTATION		SUPERSTRUCTURE REAR REMAINS IN TRACK LINE						
PROPPING BASE		6,0 m	4,5 m		FREE ON WHEELS (WHEEL LOAD Q ≤ 250 / 230 kN)					
SLEWING ANGLE		360,0 °		20,0 °	3,0 ° ^{260 kN} 2,0 ° ^{230 kN}	5,0 ° ^{250 kN 230 kN}	10,0 ° ^{250 kN 230 kN}	15,0 ° ^{< 230 kN}	20,0 ° ^{< 230 kN}	30,0 ° ^{< 230 kN}
RADIUS	OUTREACH BEYOND BUFFER	LIFTING CAPACITIES								
9,5 m	2,5 m	82,0 t	58,0 t	125,0 t	89,0 t	79,0 t ^{71,5 t}	61,0 t ^{55,0 t}	36,0 t	24,5 t	14,0 t
10,0 m	3,0 m	76,0 t	53,5 t	118,5 t	85,5 t	76,0 t ^{68,5 t}	58,5 t ^{52,0 t}	35,5 t	24,0 t	13,5 t
11,0 m	4,0 m	69,0 t	47,0 t	107,0 t	79,0 t	70,0 t ^{63,0 t}	53,5 t ^{48,0 t}	34,0 t	21,5 t	11,5 t
12,0 m	5,0 m	61,0 t	44,0 t	95,0 t	73,5 t	64,0 t ^{58,0 t}	49,0 t ^{44,0 t}	29,5 t	19,0 t	9,5 t
13,0 m	6,0 m	56,5 t	39,5 t	86,0 t	68,5 t	60,0 t ^{54,0 t}	45,0 t ^{40,5 t}	26,0 t	16,5 t	8,5 t
14,0 m	7,0 m	51,0 t	35,5 t	74,5 t	64,0 t	56,0 t ^{50,5 t}	41,5 t ^{37,5 t}	23,0 t	14,5 t	7,0 t
15,0 m	8,0 m	46,5 t	34,5 t	69,0 t	60,0 t	52,5 t ^{47,0 t}	38,0 t ^{35,0 t}	20,5 t	13,0 t	6,0 t
16,0 m	9,0 m	44,0 t	31,5 t	63,0 t	56,5 t	49,0 t ^{44,0 t}	35,0 t ^{32,5 t}	18,5 t	11,5 t	5,5 t
17,0 m	10,0 m	41,0 t	29,0 t	57,5 t	53,5 t	46,5 t ^{41,5 t}	32,0 t ^{30,5 t}	17,0 t	10,5 t	4,5 t
18,0 m	11,0 m	38,0 t	27,0 t	53,0 t	50,5 t	46,5 t ^{39,0 t}	29,0 t ^{28,5 t}	15,5 t	9,5 t	4,0 t
19,0 m	12,0 m	36,5 t	26,5 t	50,0 t	48,0 t	41,0 t ^{37,0 t}	27,0 t ^{26,5 t}	14,0 t	8,5 t	3,5 t
20,0 m	13,0 m	34,0 t	24,5 t	46,0 t	45,5 t	38,5 t ^{35,0 t}	25,0 t ^{25,0 t}	13,0 t	7,5 t	3,0 t
21,0 m	14,0 m	32,0 t	23,0 t	44,0 t	43,0 t	36,0 t ^{33,0 t}	23,0 t ^{23,0 t}	11,5 t	7,0 t	2,5 t
22,0 m	15,0 m	30,0 t	22,0 t	41,5 t	41,0 t	34,0 t ^{31,5 t}	21,0 t ^{21,0 t}	11,0 t	6,0 t	2,0 t
23,0 m	16,0 m	29,0 t	21,5 t	39,0 t	38,5 t	32,0 t ^{30,0 t}	20,0 t ^{20,0 t}	10,0 t	5,5 t	-
24,0 m	17,0 m	28,0 t	20,0 t	36,5 t	36,5 t	30,5 t ^{28,5 t}	18,5 t ^{18,5 t}	9,0 t	5,0 t	-

The above table is given as guidance only, actual lifting capabilities are dependent on site restrictions and conditions.

Please contact Kirow.crane@volkerrail.co.uk for more information.

Working range





