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Compaction Machinery



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Full Hydraulic Single Drum Vibratory Rollers

XG-KXSM216/KXSM218/KXSM220 Single-Drum Vibratory Roller



Introduction

XG-KXSM216/KXSM218/KXSM220 vibratory roller is one kind of heavy self-propelled vibratory roller. It is mainly used for the compacting work of infrastructure, sub-base and backfilling, which combined of sorts of material. It is the ideal compacting machine for the building of high level highway, airport, and dam and industry construction.

XG-KXSM216/KXSM218/KXSM220 vibratory roller adopts articulated chassis, power shift transmission, driving axle produced by Sino-foreign joint venture, F/R three speed electronically controlled shifting, enclosed hydraulic vibrating system, 3 stage shock-absorption, hydraulic articulated steering, Rops framework etc.

Main technical specification



Min. working mass(Kg)	18000	20000
Module mass on front drum(Kg)	8700	9700
Module mass on rear wheels(Kg)	9300	10300
Static liner load(N/cm)	390	445
Speed range		
I Sp(Km/h)	2.6	2.6
II Sp(Km/h)	5.1	5.1
III Sp(Km/h)	8.4	8.4
Grade ability (%)	30	30
Min. turning outer radiu (mm)	6500	6500
Min. clearance(mm)	385	385
Max. shell protuberating(mm)	120	120
Steering angle	±34°	±34°
Swing angle	±11°	±11°
Vibration frequency(Hz)	28	28
Nominal amplitude(high/low)(mm)	2.1/1.0	2.1/1.0
Centrifugal force @ high/low amplitude (kN)	330/190	350/200
Vibrating drum diameter(mm)	1523	1523
Vibrating drum width(mm)	2178	2178
Engine model	D6114ZG	
Type	Water cooled, turbo-charged	
Max.power2000r/min(kW)	115	128
Rated speed(r/min)	2000	2000
Power gearbox	BD132	BD132
Pressure(Map)	1.6	1.6
Total length(mm)	6346	6346
Total width(mm)	2423	2423
Total height(mm)	3218	3218

XG-KYZ16JC、XG-KYZ18JC、XG-KYZ20JC Single-Drum Vibratory Roller



Introduction

XG-KYZ16JC、XG-KYZ18JC、XG-KYZ20JC roller is of multi-function vibratory roller, which can efficiently compact various soil surface and gravel back-filling and is suitably applied to projects construction, such as highway, airport, embankment back-filling, seaport, dam, railway, mine, etc. that need various compacting depth and high efficiency.

This type of roller is featured with its hydraulic vibrating, mechanical driving, as well as articulated fully hydraulic steering.

The vibrating drum has the characteristics of heavy vibrating weighting, single-frequency with dual amplitudes so as to compact various paving layer with different depths. Hydraulic system, which adopts the enclosed system consisting of imported piston pump and motor, ensures every performance required by vibrating parameters. Mechanical driving system is consisted of three-gear shifting mechanism, forward/reverse mechanism and differential mechanism; foot brake adopts two double-clip disc-type brakes and parking brake uses belt type braking faction. The fully hydraulic steering system eases the steering operation. The clutch and foot braking of the machine adopts pneumatic (air-compensation) control, which greatly reduces the operative force and improve the machine flexibility. The vibrating bearing being of imported component improves the machine's reliability. The power system, which is of D6114 water cooling diesel engine with world-wide advanced technology, greatly better the machine's reliability.

The machine adopts the articulated beam-frame so as to make easy maintenance. The operation cab with 3-level shock absorber and sealed noise-proof provides the operator with comfortable and safe working condition.

Main technical specification



	XG-KYZ16JC	XG-KYZ18JC	XG-KYZ20JC
Working mass(Kg)	16000	18000	20000
Module mass on front drum(Kg)	7700	8700	9500
Module mass on rear drum(Kg)	8300	9300	10500
Static liner load(N/cm)	348	390	427
Driving speed(Km/h)			
1st sp	2.86	2.86	2.86
2nd sp	5.3	5.3	5.3
3rd sp	9.7	9.7	9.7
Gradeability(%)	30	30	30
Min. turning radius(mm)	6500	6500	6500
Min.clearance(mm)	385	385	365
Max. shell protuberating(mm)	120	120	120
Steering angle	±32°	±32°	±32°
Swinging angle	±11°	±11°	±11°
Vibrating frequency(Hz)	28	28	28
Norminal amplitude(high/low)(mm)	2.0/1.0	2.1/1.1	2.0/1.1
Centrifugal force@high/low amp(kN)	300/150	330/190	350/200
Vibrating drum diameter(mm)	1523	1523	1523
Vibrating drum width(mm)	2179	2179	2179
Engine			
Model	Shanghai diesel D6114	D6114	D6114
Type	Water cooling, pressurized		
Max.power@1800r/min(kW)	115	115	125
Contour size			
Total length(mm)	5720	5720	5783
Total width(mm)	2410	2410	2410
Total height(mm)	3160	3160	3160

XG-KYZ16JC,XG-KYZ18JC,XG-KYZ20JC Vibratory roller can be equipped with the following in case of need:

- * Plateau type engine
- * XG-KYZK16J、XG-KYZK18J, padfoot drum can be selected.

XG-KXS190、XG-KXS200、XG-KXS220 Single-Drum Vibratory Roller



Brief Introduction

XG-KXS190, XG-KXS200 and XG-KXS220 vibratory roller is a super heavy self-propelled single-drum vibratory roller, which is mainly suited for compaction during the engineering construction of high-class highways, airports, harbors, dams and industrial yards, also lends itself to be used on the large-scale base course, sub-base and embankment fill compaction. The machine has original imported high-power engine and special hydraulic driving system, which can make the machine fit with construction work better in areas of plateau and desert.

XG-KXS190, XG-KXS200 and XG-KXS220 series of vibratory roller takes its main components and system according to international style. It has following described advantages in its structure and performance: four-level infinitely speeding of closed hydraulic driving system, double frequency and double amplitude, on-line density inspecting system, wholly closed air-conditioned driving cab, ROPS system, the operating system which fulfills the principle of human engineering, suspensional seat, hydraulic articulated steering and the configuration of stream line.



Main Technical Specification

Model	XG-KXS190	XG-KXS200	XG-KXS220
Working mass(Kg)	18900	20100	22500
Mass distributed on front drum(Kg)	12800	13350	15100
Mass distributed on rear drum(Kg)	6100	6750	7400
Static linear load(N/cm)	589	627	695
Speed range(Km/h)	0-12		
Theoretical gradeability (%)	55	50	50
Min.outer turning radius(mm)	6870	6870	6870
Min. ground clearance(mm)	450	450	450
Max.shell protuberating(mm)	150	150	150
Steering angle	±30°	±30°	±30°
Swinging angle	±9°	±9°	±9°
Vibrating frequency (low/high)(Hz)	28/35	28/35	28/35
Nominal amplitude @ low/high fre.(mm)	1.80/0.78	1.90/0.83	2.0/0.96
Centrifugal force @ low fre. high amp./high fre. low amp.(kN)	358/260	395/270	415/280
Vibrating drum diameter(mm)	1600	1600	1600
Vibrating drum width(mm)	2130	2130	2130
Engine			
Model	Deutz BF6L913C	CUMMINS 6CTA8.3	
Type	Air-cooling supercharged		Water-cooling
Max. power @ 2500r/min(kW)	141	141	179
Total length(mm)	6295	6295	6295
Total width(mm)	2430	2430	2430
Total height(mm)	3188	3188	3188

Options for XG-KXS190,XG-KS200 and XG-KXS220 could be available at request of the customers:

- * Imported compactionmeter
- * PD drum

Tandem Vibratory Roller

XG-KXD120、KXD130 Tandem vibratory roller



Introduction

XG-KXD120、XG-KXD130 Vibratory roller is of heavy-duty, self-propelled double-drum vibratory roller, mainly applied to compaction for the asphalt concrete and cement concrete road surface of the high grade motorway, airport, parking lots and industrial yard, and also being used for the large-scale base, sub-base and embankment fill compaction.

XG-KXD120、XG-KXD130 Vibratory roller adopts fully hydraulic transmission and fully electric-hydraulic control. All the main system and components are purchased from international manufacturers, which feature with advantages like: infinitely variable speeds drive, infinitely variable frequency vibration, double amplitude, crab-walking mechanism, flow-variable water spraying system, spring clamping scraper.

Main technical specification

Description	XG-KXD120	XG-KXD130
Working mass(Kg)	12300	13000
Module mass on front drum(Kg)	6100	6400
Module mass on rear drum(Kg)	6200	6600
Liner load on front drum(N/cm)	281	3000
Liner load on rear drum(N/cm)	285	309
Speed range(Km/h)	0—10	0—10
Gradeability(%)	30	30
Min.outer turning radius(mm)	6000	6110
Min.clearance(mm)	420	495
Steering angle	±(23°+23°)	±(23°+23°)
Crab-walking angle	±23°	±23°
Swing angle	±12°	±12°
Max. crab-walking distance(mm)	±200	±200
Vibrating frequency(Hz)	30—45	30—45
Norminal amplitude(high/low)(mm)	0.80/0.40	0.75/0.39
Centrifugal force@48Hz high/low amplitude(kN)	140/70	150/80
Vibrating drum diameter(mm)	1250	1250
Vibrating drum width(mm)	2130	2130
Engine		
Model	Deutz F6L912	Cummins B3.9-C
Type	Air-cooling	Water cooling
Max.power@2500r/min(kW)	80	97
Overall length(mm)	6000	6000
Overall width(mm)	2270	2270
Overall height(mm)	3430	3430
Fuel tank capacity(L)	220	220
Water tank capacity(L)	2×500	2×500

XG-KXD120、XG-KXD130 rollers can be equipped with the following in case of need:

- * Vibrating drum with 10 amplitudes。
- * Fops and Rops frame (150mm higher for cab) 。
- * Cab+Fops and Rops frame (150mm higher for overall height)

XG-KYZC7/KYZC10 Tandem Vibratory Roller



Introduction

XG-KYZC7/KYZC10 tandem vibratory roller is of middle-heavy, self-propelled double drum vibratory roller, mainly applied to compaction for the asphalt concrete road surface of the high-grade motorway, airport, parking area and industrial yard, and also being used for the large-scale base, sub-base and embankment fill compaction.

XG-KYZC7/KYZC10 vibratory roller adopts the fully hydraulic transmission and fully electrical-hydraulic control, with main components purchased from international manufacturer. This type of machine is featured in variable infinite speed for driving, Infinite frequency-adjusting vibrating, dual amplitude, crab-walking, adjustable water sprinkling, spring-tensioned scrapper, etc.

Main Technical Specification

	XG-KYZC7	XG-KYZC10
Working mass(Kg)	7160	10000
Mass on front drum(Kg)	3630	5000
Mass on rear drum(Kg)	3530	5000
Static linear load on front drum (N/cm)	247	292
Static linear load on rear drum(N/cm)	240	292
Speed range(Km/h)	0—10.5	0—10
Theoretic gradeability(%)	33	30
Min. outer turning radius(mm)	4800	6000
Min. ground clearance(mm)	260	330
Max. shell protuberating(mm)	75	75
Steering angle	±38°	±40°
Swinging angle	±11°	±12°
Vibrating frequency(Hz)	48	48
Nominal amplitude (high/low)(mm)	0.71/0.35	0.8/0.4
Centrifugal force@48Hz high/low amp.(kN)	71/35	120/60
Vibrating drum diameter(mm)	1040	1220
Vibrating drum width(mm)	1450	1680
/Engine		
Model	Deutz F4I912	Deutz F6I912
Type	Air-cooling, aspiration automatically	
Max. power@2400r/min(kW)	51	80
Total length(mm)	4545	5330
Total width(mm)	1600	1830
Total height(mm)	2930	3030
Fuel tank capacity(L)	140	260
Water tank capacity(L)	2x325	2x500

Following options for the XG-KYZC10 could be available at the request of customers:

- * Cummins B5.9-C water-cooling, supercharged; power 113kW@2500r/min.

Following options for XG-KYZC7/KYZC10 could be available at the request of customers:

- * ROPS and FOPS (180mm increased for total height).
- * Cab + ROPD and FOPS (180 increased for total height).

Mechanical Drive Single Drum Vibratory Rollers

XG-KYZ16JC/XG-KYZ18JC/XG-KYZ20JC Single drum vibratory roller



Introduction

Road roller model XG-KYZ16JC、XG-KYZ18JC、XG-KYZ20JC is of multi-function vibratory roller, which can efficiently compact various soil surface and gravel back-filling and is suitably applied to projects construction, such as: highway, airport, embankment back-filling, seaport, dam, railway, mine, etc. that need various compacting, depth and high efficiency.

This type of road roller is featured in its hydraulic vibrating, mechanical driving, as well as articulated fully hydraulic steering.

The vibrating drum has the characteristics of heavy vibrating weighting, single-frequency with dual amplitudes so as to compact various paving layer with different depths. Hydraulic system, which adopts the enclosed system consisting of imported piston pump and motor, ensures every performance required by vibrating parameters. Mechanical driving system is consisted of three-gear shifting mechanism, forward/reverse mechanism and differential mechanism; foot brake adopts two double-clip discs -type brake; and belt type parking functions ensures high flexibility, gredeability and stable braking performance. The fully hydraulic steering system eases the steering operation. The clutch and foot braking of the machine adopt pneumatic (air-compensation) control, which greatly reduces the operative force and improve the machine flexibility. The vibrating bearing being of imported component improves the machine's reliability. The power system, which is of D6114 water cooling diesel engine with world-wide advanced technology, greatly better the machine's reliability.

The machine adopts the articulated beam-frame so as to make easy maintenance. The operation cab with 3-level shock absorber and sealed noise-proof provides the operator with comfortable and safe working condition.

Main technical specification

	XG-KYZ16JC	XG-KYZ18JC	XG-KYZ20JC
working mass(Kg)	16000	18000	20000
Module mass on front drum(Kg)	7700	8700	9500
Module mass on rear drum(Kg)	8300	9300	10500
Static liner load(N/cm)	348	390	427
Driving speed(Km/h)			
1st	2.86	2.86	2.86
2nd	5.3	5.3	5.3
3rd	9.7	9.7	9.7
Theoretical gradeability(%)	30	30	30
Min. turning radius(mm)	6500	6500	6500
Min.ground clearance(mm)	385	385	365
Max.shell protuberating(mm)	120	120	120
Steering angle	±32°	±32°	±32°
Swing angle	±11°	±11°	±11°
Vibrating frequency(Hz)	28	28	28
Norminal amplitude(High/low(mm))	2.0/1.0	2.1/1.1	2.0/1.1
Centrifugal force@high/low Amp(kN)	300/150	330/190	350/200
Vibrating drum dia.(mm)	1523	1523	1523
Vibrating drum width(mm)	2179	2179	2179
Engine			
Type	Shanghai diesel D6114	D6114	D6114
type	Water cooled,		
Max.Power@1800r/min(kW)	115	115	125
Contour size			
Total length(mm)	5720	5720	5783
Total width(mm)	2410	2410	2410
Total height(mm)	3160	3160	3160

XG-KXS140、XG-KXS160、XG-KXS180 can be equipped with:

- * Platau type。
- * XG-KYZK16J、XG-KYZK18J, padfoot drum

Pneumatic Roller Series

XG-KXP261、XG-KXP301 Pneumatic Roller



Brief Introduction

XG-KXP261 and XG-KXP301 pneumatic roller is of super-heavy self-propelled pneumatic roller, which is mainly applied to compaction work for base, sub-base, fill and asphalt surface. It is the ideal compacting equipment for constructing high-grade express way, airport, seaport, and embankment and industry buildings.

XG-KXP260 and XG-KXP301 is featured in its 2-gear infinitely various speed, dynamic-hydraulic transmission, pneumatic-hydraulic braking, easy operation, comfortable seat, water suction and sprinkling system with big power, compressed sprinkling structure for tire surface and hydraulic steering mechanism, etc.

XG-KXP260 and XG-KXP301 pneumatic roller is characterized of high working efficiency and compaction performance. By increasing or decreasing ballast and changing the pneumatic pressure in tires may adjust the rolling pressure of tires, which realizes the dense compaction on the layer material without leaving any false compaction, so as to ensure the road surface hardness and shearing strength.

Main Technical Specification



	XG-KXP261	XG-KXP301
Min. working mass(Kg)	14500	17000
Max.working mass(Kg)	26000	30000
Rolling pressure(kPa)	250—420	260—480
Driving speed		
I (Km/h)	0—8	0—8
II (Km/h)	0—20	0—16
Theoretical gradeability(%)	40	40
Min.outer turning radius(mm)	9000	9000
Min. ground clearance(mm)	290	290
Compacting width(mm)	2750	2750
Swinging distance of front tyre(mm)	±45	±45
Overlapping of front & rear tyre(mm)	50	50
Tyre specification	Smooth 11.00—20	
Tyre numbers	5-tyre front & 6-tyre rear	
Engine model	D6114ZG39A	
Type	water-cooling, supercharged	
Max. power@2000r/min(kW)	115	132
Total size(contour size)		
Length(mm)	4910	5060
Width(mm)	2845	2845
Height(mm)	3380	3380

Static Roller Series

XG-K3Y12/15A、 XG-K3Y18/21 Static Smooth-Drum Roller



Brief Introduction

XG-K3Y12/15A and XG-K3Y18/21 are of super heavy-duty self-propelled smooth-drum road roller, which are mainly used for compaction work of base course and surface layer of different materials. They are also the ideal equipment for the compaction job of highways, industrial yards and construction fields.

XG-K3Y12/15A and XG-K3Y18/21 are mainly featured in 3-gear mechanical driving, ballast increasing or decreasing and hydraulic steering, etc.

Main Technical Specification



Model	XG-K3Y12/15A	XG-K3Y18/21
Min. operating mass(Kg)	12000	18000
Max. operating mass(Kg)	15000	21000
Max. linear load of rear drum(N/cm)	960	1170
Driving speed		
I speed(Km/h)	2	2.3
II speed(Km/h)	4	4.4
III speed(Km/h)	7	7.9
Theoretical gradeability(%)	20	20
Min. outer turning radius(mm)	6500	6500
Min. ground clearance(mm)	320	420
Compacting width(mm)	2120	2320
Compaction overlapping(mm)	100	100
Engine		
Model	4135k-2b	4135Ak-2a、YC6108G
Type	Water-cooling, natural air	
Max. power @2400r/min(kW)	59	73.5
Contour dimension		
Total length(mm)	4910	5150
Total width(mm)	2120	2320
Total height(mm)	2800	3010

XG-K3Y12/15A and XG-K 3Y18/21 road roller can be equipped with the following item according to the customers' request:

* canopy

Vibratory Tampers

XG-KXG-HZR450、XG-KHZD450 Vibrating Plate Compactor



XG-KHZR450/KHZD450 vibrating plate compactor is a kind of self-propelled compacting machinery. Its new design comes the first among the same kind of machine in China with its main technical specification and performance being equal to international standards. With good compacting results, the machine could be infinitely adjustable in terms of driving forward/reverse speed and centrifugal force, and it can also realize vibrating compaction when being stationary.

This kind of vibrating plate compactor is widely used for compacting building foundation, fill foundation, sidewalk, highways, squares, lanes, yards, plumbing tunnels, and foundation for the areas around the bridge support pillars, etc. It is the necessary and ideal equipment for replacing the "Frog-type" vibrating tamper.



Operating mass	Without side plate	kg	450
	With side plate		470
Compacting plate dimension (length x width)	Without side plate	mm	570 x 570
	With side plate		570 x 530
HZR450 With diesel engine	Model		190F
	Power	kw	5.88
	Rotation speed	r/min	2200
HZD450 With electromotor	Model		Y132S2-2
	Power	kw	7.5
	Rotation speed	r/min	2900
Vibrating frequency		Hz	46
Amplitude		mm	2.58
Centrifugal force		kN	40
Working speed		m/min	0 - 22
Gradeability			$\geq 20\%$