



**CCMG**  
山东常林

Certified by ISO 9001-2000

- LOADER
- ROLLER
- GRADER
- EXCAVATOR



**SHANDONG CHANGLIN  
MACHINERY GROUP CO., LTD.**

— HIGH QUALITY MAKES BRIGHT FUTURE —

# BRIEF INTRODUCTION

- A professional manufacturer of Wheel Loader, Roller, Grader, Excavator, Agricultural Machinery and Diesel Engine for more than 30 years.
- Located in Shandong Province, Central east of China. The factory complex covers an area of 2,000,000 square meters with more than 5000 employees.
- Consists of 10 business units with sale revenues of RMB 3 Billion in 2010.
- Certified by ISO 9001-2000 in quality control system.
- Applying lean production system in cooperate level.
- ERP system improves operation efficiency and quality.
- Rewarded the title of “National Advanced quality-control Enterprise” in 2000.
- Won the national award of “Superior Industry Quality Management” in 2004.
- CCMG wheel loaders, road rollers, excavators, walking tractors and diesel engines are already exported to Asia, Oceania, America, Africa and Europe etc. more than 40 countries and regions.





MODEL/SPECIFICATION	Power (kw)	Capacity (m <sup>3</sup> )	Load (ton)
• <b>CL966-3</b> (SDEC C6121,ZF)	175	3.5	6
• <b>CL956-3</b> (SDEC C6121, ZF)	162	3.0	5
<b>CL956-2</b> (SDEC C6121, HC180)	162	3.0	5
<b>CL956-1</b> (SDEC C6121, HC YXD10B)	162	3.0	5
<b>CL955</b> (Weichai Styer, HC YXD10B)	162	3.0	5
• <b>CL936-3</b> (Cummins 6BT, HC YD130)	97	1.7	3
<b>CL936-2</b> (Cummins 6BT, HC YXD10A)	97	1.7	3
<b>CL936-1</b> (YC6108G, HC YXD10A)	92	1.7	3
<b>CL935</b> (YC6108G, ZL30 II)	92	1.7	3
• <b>CL920</b> (XC B490,Hydrostatic)	56	1.0	2
<b>CL910</b> (Lovol, Hydrostatic)	32	0.5	1



MODEL/SPECIFICATION	Power(kw)	OP. Weight (kg)	B. L × C.H(mm)
• <b>CMG220</b> (Cummins 6CTA8.3, HC180)	160	17000	4270/610
<b>CMG200</b> (SDEC D6114ZG, HC180)	147	16200	3965/610
<b>CMG185</b> (Cummins 6BTA5.9, HC180)	132	15500	3965/610
<b>CMG165</b> (Cummins 6BTA5.9, HCYD130)	125	15000	3965/610
<b>CMG135</b> (Cummins 6BT5.9, HCYD130)	110	11000	3965/610



MODEL/SPECIFICATION	Power(kw)	OP. Weight (kg)	CEN. Force(KN)
• <b>RM186</b> (SDEC D6114ZG)	132	18000	340/200
<b>RM166</b> (Yuchai YC6108ZG)	110	16000	320/180
<b>RM146</b> (Yuchai YC6108G)	88	14000	290/160
• <b>RH140</b> (Cummins 6BT5.9)	110	14000	290/160
<b>RH120</b> (Cummins 6BT5.9)	110	12000	260/160
• <b>RD140</b> (Cummins 6BT5.9)	110	14000	160x2/90x2
<b>RD120</b> (Cummins 6BT5.9)	110	12000	160x2/90x2



MODEL/SPECIFICATION	Power(kw)	OP. Weight(kg)	B. Capacity (m <sup>3</sup> )
• <b>SC 80</b>	45	7.5	0.2/0.37
• <b>SC 130</b>	86	13	0.45/0.65
<b>SC 160</b>	86	15.8	0.53/0.65
• <b>SC 200</b>	112	20.6	0.8/0.93
<b>SC 220</b>	133	22	0.8/1.2
<b>SC 230</b>	133	22.6	0.8/1.2
<b>SC 270</b>	133	26.8	1.1/1.3
• <b>SC 330</b>	198	31.6	1.4/1.6
<b>SC 360</b>	198	33.6	1.6/1.8
• <b>SC 450</b>	254	45.8	1.8/2.1



# CL966-3

## WHEEL LOADER

### STRUCTURE

- Reinforced Engine End Frame(EEF) provides a strong, rigid structure that resists twisting and impact loads.
- Z-bar linkage, enables large breakout force.



### ENGINE

- Equipped with SDEC C6121 engine, under Caterpillar 3306B license (1988-2008).
- The six-cylinder, direct injection, turbocharged engine is built for power, low maintenance, fuel economy and low emission.



### CAB

- Improved operator comfort and visibility.
- Rubber vibration-absorbing device reduces the vibration.
- Easy-to-read gauges display and ergonomically design.
- One hand shifting for speed and direction change.
- Kick-down switch lever offers high efficiency and easy operation.
- ROPS is optional.

### TRANSMISSION

- ZF (German brand) 4WG200 power shift transmission is reliable and durable.
- Electrical hydraulic system ensures smooth shift and control.
- Pressure cut-off switch for reasonable power distribution and working characteristic.



### HYDRAULICS

- World class brand hydraulics deliver precise, low-effort control.
- Pilot controls make operate easy and comfortable.
- Twin pump-merging flow increases fuel economy.

### AXLE

- Large module gears, tuned for heavy duty applications.
- Long service life and easy maintenance.





# CL966-3 WHEEL LOADER SPECIFICATION

## Technical specs

Operating weight:	19700kg
Bucket capacity:	3.5m <sup>3</sup>
Rated load:	6000kg
Breakout force:	204KN
Max.rim-pull:	163KN

## Engine

Model:	CAT C6121ZG10R
Type:	In line,water cooled,4stroke,direct injection,turbocharged
Rated power:	175kw
Rated speed:	2200rpm
Cylinder-bore x stroke:	6-126x130mm
Max torque:	912Nm
Displacement:	10.5L

## Transmission system

Torque converter	
Model:	ZFD340
Type:	3-elements,single stage
Gear Box	
Model:	ZF 4WG200
Type:	power shift, spur gear constantly in mesh

## Axle

Fourwheel drive front axle fixed rear axle oscillating,oscillating angle of rear axle: $\pm 12^{\circ}$	
Made by Graziano, full sealed, wet multi-disk brake(optional)	
Type of main reducer:	spiral bevel gear,single stage
Gear ratio of main reducer:	4.22

## Steering system

Type:	Middle articulated frame. Full hydraulic power
Dimension of steering cylinder:	$\Phi 100 \times 45 \text{mm}$
Pivot angle frame:	$37 \pm 1^{\circ}$

## Working hydraulic system

Working pressure:	18Mpa
Boom lifting time:	6.15s
Bucket dumping time:	1.5s
Boom lowering time:	3.0s
Pilot controlling:	standard

## Brake system

Service System:	Air assisted oil, disc type four wheel brake
Parking brake:	Spring applied air released inner expands hoof type

## Tyres

Size:	23.5-25-20PR(L-3)
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## Capacity of holding tanks

Fuel tank:	300L
Engine oil:	27L
Oil for converter and gear box:	30L
Hydraulic tank:	300L
Oil for front driving axle:	40L
Oil for rear driving axle:	40L

## Traveling speed

Forward 1st:	0-6km/h
Forward 2nd:	0-10.5km/h
Forward 3rd:	0-21km/h
Forward 4th:	0-36km/h
Reverse 1st:	0-6km/h
Reverse 2nd:	0-10.5m/h
Reverse 3rd:	0-21km/h

## Dimensions(Drawing & Measurements are approximate)

A Overall length(with bucket on ground):	8250mm
B Wheel base(front/rear):	3350mm
C Overall height(to the top of the cab):	3400mm
D Overall width (outside of wheel):	2850mm
E Width of bucket:	3074mm
F Wheel track:	2250mm
G Min. ground clearance:	450mm

## OPTIONAL WORK TOOL

Rock Bucket

Light material bucket(5.0m<sup>3</sup>)

Quick coupler

Log gripper

Pallet Fork



# CL955,956-1,CL956-2,CL956-3

## WHEEL LOADER

### STRUCTURE

- Reinforced Engine End Frame(EEF) provides a strong, rigid structure that resists twisting and impact loads.
- Z-bar linkage, enables large breakout force.



### ENGINE

- Weichai WD 615 engine — 955.
- Cummins 6CT engine — 956-2, 956-3 is optional.
- SDEC C6121 engine, under Caterpillar 3306B license (1988-2008) — 956-1, 956-2, 956-3.
- The six-cylinder, direct injection, turbo-charged engine is built for power, low maintenance, fuel economy and low emission.

### TRANSMISSION

- Planetary type, simple design, durable for heavy duty applications — 955, 956-1.
- HC 180 transmission with ZF technology (under ZF license 1990-2000) — 956-2.
- ZF (German brand) 4WG200 transmission with electrical-hydraulic shift system — 956-3.



### AXLE

- Large module gears, tuned for heavy duty applications.
- The main reducer and axle case redesigned to fit tough working conditions.



### CAB

- Improved operator comfort and visibility.
- Rubber vibration-absorbing device reduces the vibration.
- Easy-to-read gauges display and ergonomically design.
- Kick-down switch lever offers high efficiency and easy operation.
- Joystick control and ROPS is optional.



### HYDRAULICS

- Well-balanced hydraulic delivers precise, low-effort control and trouble free operation.
- Pilot hydraulic implement controls make operate easy and comfortable.
- Single joystick control lever.



## WHEEL LOADER SPECIFICATION

Model	CL955	CL956-1	CL956-2	CL956-3
Engine Model	WD STEYR WD61567G3-36	SDEC C6121	SDEC C6121	SDEC C6121
Rated power	162kw	162kw	162kw	162kw
Rated speed	2200r/min	2200r/min	2200r/min	2200r/min
Bucket capacity	3.0m <sup>3</sup>	3.0m <sup>3</sup>	3.0m <sup>3</sup>	3.0m <sup>3</sup>
Rated load	5000kg	5000kg	5000kg	5000kg
<b>Travling speed</b>				
Forward I	0-13km/h	0-12km/h	0-7km/h	0-7km/h
Forward II	0-38km/h	0-36km/h	0-12km/h	0-12km/h
Forward III			0-23km/h	0-23km/h
Forward IV			0-38km/h	0-38km/h
Reverse I	0-17km/h	0-16km/h	0-7km/h	0-7km/h
Reverse II			0-12km/h	0-12km/h
Reverse III			0-23km/h	0-23km/h
Min.Turning Radius(outside of tyres)	6178mm	6044mm	6044mm	6044mm
Level Passing Radius(outside of bucket)	6888mm	6707mm	6707mm	6707mm
Max.breakout force	≥ 160 ± 5kN	≥ 160 ± 5kN	≥ 160 ± 5kN	≥ 160 ± 5kN
Max.drawig force	≥ 150 ± 5kN	≥ 150 ± 5kN	≥ 150 ± 5kN	≥ 150 ± 5kN
Max.climbing gradient	28°	30°	30°	30°
Rasing time(full load)	≤ 5.7s	≤ 6.5s	≤ 6.5s	≤ 6.5s
Lowering time(empty bucket)	≤ 3.5s	≤ 3.5s	≤ 3.5s	≤ 3.5s
The sum of three items	≤ 10.2s	≤ 11.5s	≤ 11.5s	≤ 11.5s
Overall length	7717mm	8020mm	8020mm	8020mm
Overall height	3378mm	3382mm	3382mm	3382mm
Overall width(Outside of wheel)	2785mm	2800mm	2800mm	2800mm
Max.dumping height@45°	3090mm	3120mm	3120mm	3120mm
Dumping reach@45°	1105mm	1120mm	1120mm	1120mm
Bucket width	3030mm	2988mm	2988mm	2988mm
Wheel track	2190mm	2248mm	2248mm	2248mm
Axle base(Front/Rear)		3200(1600/1600)mm	3200(1600/1600)mm	3200(1600/1600)mm
Operating weight	16500kg	16800kg	16800kg	16800kg
Axle No.	2	2	2	2

### OPTIONAL WORK TOOL

- Rock Bucket
- Light material bucket(4.0m<sup>3</sup>)
- Quick coupler
- Log gripper
- Pallet Fork



# CL935,936-1,CL936-2,CL936-3

## WHEEL LOADER

### STRUCTURE

- Reinforced Engine End Frame(EEF) provides a strong, rigid structure that resists twisting and impact loads.
- Z-bar linkage enables large breakout force.



### ENGINE

- Yuchai YC 6108—935, 936-1.
- DUETZ TD226B—936-2,936-3.
- Cummins 6BT engine—936-2, 936-3.
- The engine features advanced capability and large power reserve.



### CAB

- Improved operator comfort and visibility.
- Rubber vibration-absorbing device reduces the vibration.
- Easy-to-read gauges display and ergonomically design.
- One hand shifting for speed and direction change.
- Kick-down switch lever offers high efficiency and easy operation.
- ROPS is optional.

### TRANSMISSION

- Counter shaft type, torque converter is separated from gear box—for 935.
- Hangchi YXD10B planetary type, integrated transmission —936-1,936-2.
- Hangchi YXD 130 transmission with electrical and hydraulic control (ZF tech)-936-3.



### HYDRAULICS

- Well-balanced hydraulic delivers precise, low-effort control and trouble free operation.
- Pilot hydraulic implement controls make operate easy and comfortable.
- Single joystick control lever.

### AXLE

- Large module gears, tuned for heavy duty applications.
- The main reducer and axle case redesigned to fit tough working conditions.







## WHEEL LOADER SPECIFICATION

Model	CL935	CL936-1	CL936-2	CL936-3
Engine Model	YUCHAI(DEUTZ) YC6108G	YUCHAI YC6108G	DEUTZ TD226B-6	CUMMINS 6BT5.9-C125
Rated power	92kw	92kw	92kw	97kw
Rated speed	2200r/min	2200r/min	2200r/min	2200r/min
Bucket capacity	1.7m <sup>3</sup>	1.7m <sup>3</sup>	1.7m <sup>3</sup>	1.7m <sup>3</sup>
Rated load	3000kg	3000kg	3000kg	3000kg
<b>Travling speed</b>				
Forward I	0-8km/h	0-13km/h	0-13km/h	0-13km/h
Forward II	0-15.5km/h	0-40km/h	0-40km/h	0-40km/h
Forward III	0-25km/h			
Forward IV	0-36km/h			
Reverse I	0-10km/h	0-17km/h	0-17km/h	0-17km/h
Reverse II	0-27km/h			
Min.Turning Radius(outside of tyres)	6195mm	6195mm	6195mm	6195mm
Level Passing Radius(outside of bucket)	6630mm	6630mm	6630mm	6630mm
Max.breakout force	≥ 115kN	≥ 98	≥ 98	≥ 98
Max.drawig force	≥ 90kN	≥ 111	≥ 111	≥ 111
Max.climbing gradient	30°	30°	30°	30°
Rasing time(full load)	≤ 5.4s	≤ 6.3s	≤ 6.3s	≤ 6.3s
The sum of three items	≤ 9.7s	≤ 11.4s	≤ 11.4s	≤ 11.4s
Overall length	6875mm	6770mm	6770mm	6770mm
Overall height	3010mm	3280mm	3280mm	3280mm
Overall width(Outside of wheel)	2260mm	2310mm	2310mm	2310mm
Max.dumping height@45°	2850mm	2850mm	2850mm	2850mm
Dumping reach@45°	1040mm	1040mm	1040mm	1040mm
Bucket width	2440mm	2510mm	2510mm	2510mm
Wheel track	1800mm	1830mm	1830mm	1830mm
Axle base(Front/Rear)	2600mm	2850mm	2850mm	2850mm
Operating weight	9800kg	10500kg	10500kg	10500kg

### OPTIONAL WORK TOOL

- Rock Bucket
  - Log gripper
- Light material bucket(2.5m<sup>3</sup>)
  - Pallet Fork
- Quick coupler
  - Super high boom(4130mm)



# CL910, CL920

## WHEEL LOADER



### ENGINE

- Four stroke, Direct Injection, water-cooled, Inline style.



### TRANSMISSION

- Full hydraulic transmission technology, compact structure, high reliability.



### CAB

- Integral, luxury dashboard, new, luxury cabin.



### BUCKET

- Bucket articulated positions take sealed, lubricated, dust-proof layers, which owns good durability.

## WHEEL LOADER SPECIFICATION

	CL910	CL920
Rated load(kg)	1000	2000
Bucket capacity(m <sup>3</sup> )	0.5	1.0
Max.excavating force of the bucket(KN)	36	46
Max.Dumpig clearance(mm)	2420	2600
Dumping Reach(mm)	900	910
Bucket teeth lifting time(s)	4	4.5
The sum of three items(s)	8	9
Max speed (km/h)	16	23
Articulated angle( °)	35	35
Wheel track(mm)	1400	1480
Wheel base(mm)	1820	2150
Engine	Chinese XinchangB490BG-6	Lovol(Perkins Tech)1004-4L06
Rated power(km/rpm)	32/2300	56/2400
Transmission	Hydrostatic transmission (constant displancemet motor)	Hydrostatic transmission (variable displacemet motor)
Steering system	Load sensing system,Steering prior	Load sensing system,Steering prior
Demention(mm)	4960 × 1620 × 2430	5520 × 1950 × 2670
Operation weight(kg)	2990	5000

### OPTIONAL WORK TOOL

- Quick coupler
- Pallet Fork

# CMG135,CMG165,CMG185,CMG200,CMG220



CHANGLIN GROUP

## MOTOR GRADER



### ENGINE

- Dongfeng commins engine(optional SDEC engine) all have a reliable performance and steadily big power output in various working condition.



### CAB

- The luxury cab is completely sealed and of broad vision.



### AXLE

- Special front and rear axles for grader are adopted to ensure reliable.



## MOTOR GRADER SPECIFICATION

Model		CMG135	CMG165	CMG185	CMG200	CMG220
Rated engine power	kw/hp	125/170	125/170	132/180	147/200	160/215
Rated rotating speed	r/min	2300	2300	2200	2200	2200
Blade length × chord height	mm	3965 × 610	3965 × 610	3965 × 610	3965 × 610	4270 × 610
Swing angle	°	360	360	360	360	360
Sloping angle for blade	°	90	90	90	90	90
Forward speed 1	km/h	5	5	5	5	5
Forward speed 2	km/h	8	8	8	8	8
Forward speed 3	km/h	11	11	11	11	11
Forward speed 4	km/h	19	19	19	19	19
Forward speed 5	km/h	23	23	23	23	23
Forward speed 6	km/h	38	38	38	38	38
Reverse speed 1	km/h	5	5	5	5	5
Reverse speed 2	km/h	11	11	11	11	11
Reverse speed 3	km/h	23	23	23	23	23
Min.turning radius	m	7.8	7.8	7.8	7.8	7.8
Gradeability	°	20	20	20	20	20
Distance between wheels	mm	2160	2160	2160	2160	2160
Tyre size		17.5~25	17.5~25	17.5~25	17.5~25	17.5~25
Inclined angle for front axle	°	±17	±17	±17	±17	±17
Steering angle for front wheels	°	±45	±45	±45	±45	±45
Swing angle for front axle	°	±15	±15	±15	±15	±15
Min.Clearance	mm	430	630	630	630	630
Chassis steering angle		Left and right each25°				
Driving mode		Hydraulic pressure				
Operating weight	Kg	15000	15000	15500	16200	17000
Max.Tractive force	KN	82	82	90	93	98
Overall dimensions	mm	9132 × 2601 × 3440	9450 × 2601 × 3440	9450 × 2601 × 3440	9450 × 2601 × 3440	9450 × 2601 × 3440



# RM186, RM166, RM146, RH140, RH120

## ROAD ROLLER



### ENGINE

- Adopt cummins (styer) engine, have huge and stable power, reserving sufficiency.



### HYDRAULIC SYSTEM

- Full hydraulic technology, single drive, frequency and radiation conversion, articulated direction change, without limited speed changes.



### CAB

- Streamline outline, circular windshield glass and curvy hood form a unique style.



### COMPONENTS

- Optional pad foot shell vibrating rollers are especially suitable to compacting the stick soil as well as the broken stone, gravel build layers. At the same time it can contact with the ground surface and avoid surge.

## ROAD ROLLER SPECIFICATION

Technical Data	RM186	RM166	RM146	RH140	RH120
Operating Weight(kg)	18000	16000	14000	14000	12000
Static linear load(N/cm)	415	378	342	342	300
Vibrating amplitude(Mm)	2.0/1.0	2.0/1.0	1.8/0.9	1.8/0.9	1.7/0.8
Vibrating frequency(Hz)	30	30	30	29/35	28/35
Centrifugal force(KN)	340/200	320/180	290/160	290/160	260/160
Travel speed(Km/h)	2.0-10.5	2.0-10.5	2.0-10.5	0-12	0-11
Grade ability(%)	35	35	35	30	30
Truning radius(mm)	7000	7000	7000	6500	6500
Overall dimension(mm)	5930x2300x3020	5860x2280x3020	5860x2350x3100	5860x2280x3020	5820x2278x3050
Diesel power(kw)	132	110	88	110	110
Diesel model	SDEC D6114ZG6B	Yuchai YC6B150	Yuchai YC6B120	Cummins 6BT5.9	Cummins 6BT5.9

# RD140, RD120



## ROAD ROLLER



### ENGINE

- Adopt cummins engine, have huge and stable power, reserving sufficiency.



### HYDRAULIC SYSTEM

- Full hydraulic two wheel drive and vibration. Hydraulic center articulated steering, patented crab mechanism. Hydraulic pump and vibrating motors are of the products made by American manufacturer SAUER or Germany REXROTH.



### CAB

- The driver's cabin can be turned on one side as a whole, to facilitate maintenance. Cab with air conditioner, comfortable and spacious, the flexible steering seat facilitates the operation.

## ROAD ROLLER SPECIFICATION

Technical Data	RD140	RD120
Operating Weight(kg)	14000	12000
Static linear load(N/cm)	333	286
Vibrating amplitude(Mm)	0.8/0.4	0.8/0.4
Vibrating frequency(Hz)	40/46	40/46
Centrifugal force(KN)	160x2/90x2	160x2/90x2
Travel speed(Km/h)	0-12	0-12
Grade ability(%)	40	40
Turning radius(mm)	7000	7000
Overall dimension(mm)	5150x2350x3300	5150x2350x3300
Diesel power(kw)	110	110
Diesel model	Cummins 6BT5.9	Cummins 6BT5.9



# SC SERIES

## HYDRAULIC EXCAVATOR



### ENGINE

- Equipped with original imported CUMMIN or ISUZU engine.
- Environmental protection and economic engine. Meets EUR II or EUR III standard.



### HYDRAULIC SYSTEM

- Equipped with Kawasaki pump and valve, imported from Japan. International topping grade hydraulic system is used.



### CAB

- Equipped with ROPS cab.
- Adopts high strength frame structure, improves overall rigidity greatly, owns wide inside operational environment, and has wide visual field. It uses damper, and reduced vibration and noise.



### ROTARY SPEED

- Equipped with Kayaba rotary motor.
- World brand rotary motor+speed reducer are used,integrate hydraulic motor,speed reducer,brake,buffer valve and anti-reverse rotary valve together,have compact structure,advanced performance and reliable quality,and make the whole machine have stable rotary,accurate control and high safety and reliability.



### MOVABLE ARM AND BUCKET ROD HOLDING SYSTEM

- Holding valve of the main control valve can control natural drop quantity of hydraulic oil cylinder at minimum, which is caused by leakage of control valve.



# HYDRAULIC EXCAVATOR SPECIFICATION

	SC80.7	SC130.7	SC200.8	SC220.7	SC230.8	SC360.7	SC450.8
<b>ENGINE</b>							
BRAND/MODEL	Cummins/B3.3	Cummins/4BTA3.9	Cummins/6BT5.9	Cummins/6BTA5.9	Cummins/6BTAA5.9	Cummins/6CTA8.3	Cummins/QSM11
NUMBER(CYLINDERS BOREXSTROKE) (mm)	4-95 × 115	4-102 × 120	6-102 × 120	6-102 × 120	6-102 × 120	6-114 × 135	6-125 × 147
PISTON DISPLACEMENT (L)	3.3	3.9	5.9	5.9	5.9	8.3	11
RATING POWER (kw/rpm)	45/2200	86/2200	112/1950	133/2000	133/2000	198/2000	254/1800
<b>WORKING RANGE</b>							
OPERATING WEIGHT (kg)	6800	13000	20600	22000	22600	33600	45800
STANDARD TYPE BUCKET (m³)	0.28	0.53	0.8	1	1	1.6	2.1
BUCKET DIGGING FORCE AT POWER MAX (KN)	52.7	78.4	112	159.7	159.7	227	252.7
SWING SPEED (rpm)	11.2	12.6	11.7	11.7	11.1	10.6	8.6
TRAVELE SPEED (km/h)	2.7~5.1	3.1~5.3	3.5~5.2	3.5~5.2	3.5~5.2	3.3~5.2	3.0~4.8
MAX CLIMBING DEGREE (°)	35	35	35	35	35	35	35
AVERAGE GROUP PRESS (kpa)	30	42.4	44.9	52.16	47.5	67.8	94
<b>UNDERCARRIAGE</b>							
STRUCTURE OF CHASSIS	Estrutura X	Estrutura X	Estrutura X	Estrutura X	Estrutura X	Estrutura X	Estrutura X
NUMBER OF SHOES	38	42	45	47	47	45	49
NUMBER OF CARRIERS	1	2	2	2	2	2	2
NUMBER OF TRACK ROLLERS	5	7	7	8	8	7	8
<b>HYDRAULICS</b>							
<b>HYDRAULIC PUMP</b>							
HYDRAULIC PUMP/TYPE	PVC90	K3V63DT	K3V112DT	K3V112DT	K3V112DT	K3V112DT	K5V200DT
MAXIMUM FLOW(L/M) (L/min)	154	128 × 2	200 × 2	226 × 2	226 × 2	265 × 2	360 × 2
SETTING PRESSURE (Mpa) (kg/cm²)	27.5(275)	34.3(350)	34.3(350)	34.3(350)	34.3(350)	34.3(350)	34.3(350)
<b>VALVE</b>							
TIPO	Toshiba/IB18	Kayaba/KVMM160	Kawasaki/KMX15RA	Kawasaki/KMX15RA	Kawasaki/KMX15RA	Kawasaki/KMS15R	Kawasaki/KMX32N
<b>TRAVEL MOTOR</b>							
TRAVEL MOTOR/TYPE	MAG-85VP	MAG-85VP	MAG-170VP	MAG-170VP	MAG-170VP	MAG-170VP	SWE45H
<b>SWING MOTOR</b>							
SWING MOTOR/TYPE	M2 × 63 CHB SG025E	M2 × 63 CHB	M5 × 130 CHB	M5 × 130 CHB	M5 × 130 CHB	M5 × 130 CHB	M5 × 130 CHB
<b>NUMBER SYLINDERS</b>							
BOOM (mm)	1-110 × 65	2-105 × 70	2-120 × 85	2-130 × 90	2-130 × 90	2-140 × 100	2-170 × 115
ARM (mm)	1-100 × 60	1-115 × 80	1-140 × 95	1-140 × 100	1-140 × 100	1-170 × 120	1-190 × 130
BUCKET (mm)	1-85 × 55	1-95 × 65	1-120 × 80	1-130 × 90	1-130 × 90	1-140 × 100	1-170 × 120
BLADE (mm)	1-120 × 70	no	no	no	no	no	no
<b>DIMENSIONS</b>							
OVERALL LENGTH (mm)	6100	7580	9425	9740	9800	11080	12180
OVERALL WIDTH (mm)	2198	2490	2780	2980	2980	2995	3045
OVERALL HEIGHT(TO TOP OF BOOM) (mm)	2515	2780	3040	3190	3285	3180	3640
OVERALL HEIGHT(TO TOP OF CAB) (mm)	2630	2813	3120	3120	3120	3278	3280
COUNTERWEIGHT GROUD CLEARANCE(mm)	760	870	1065	1065	1065	1208	1300
Min.GROUND CLEARANCE (mm)	380	435	470	440	470	495	722
TAIL SWING RADIUS (mm)	1755	2015	2720	2810	2810	3420	3645
TRACK GROUNDING LENGTH (mm)	2130	2750	3260	3445	3445	3700	4020
TRACK LENGTH (mm)	2757	3486	4070	4256	4256	4622	5050
TRACK GAUGE (mm)	1700	1960	2180	2380	2380	2390	2890(2390)
TRACK WIDTH (mm)	2150	2460	2780	2980	2980	3190	3490(2990)
TRACK BOARD WIDTH (mm)	450	500	600	600	600	600	600
TURNTABLE WIDTH (mm)	2198	2490	2700	2700	2700	2995	3045
MAX.DIGGING HEIGHT (mm)	7165	8630	9275	9310	9010	10200	10910
MAX DUMPING HEIGHT (mm)	5065	6180	6560	6438	6180	7135	7550
MAX DIGGING DEPTH (mm)	4035	5500	6515	6875	6345	7370	7810
MAX VERTICAL WALL DIGGING DEPTH (mm)	3505	4940	5915	5860	5240	6380	6800
MAX DIGGING REACH (mm)	6330	8310	9865	10170	9655	11100	12025
MAX DIGGING REACH AT GROUND LEVEL (mm)	6180	8180	9680	9990	9465	10910	11815
MIN SWING RADIUS (mm)	1795	2495	3630	3975	4040	4265	4825
MAX HEIGHT AT MIN SWING RADIUS (mm)	5500	6435	7675	7775	7860	8500	9245
HEIGHT OF COUNTERWEIGHT (mm)	1270	1935	2120	2120	2120	2263	1160
GROUNDING LENGTH (IN TRANSPORTATION) (mm)	3696	4402	5105	5165	5935	5720	6650
BOOM LENGTH (mm)	3710	4600	5700	5850	5850	6470	7060
ARM LENGTH (mm)	1650	2500	2900	3050	2500	3185	3360



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Materials and specifications are subject to change without notice  
The machine in this book maybe contain optional parts