

Power 305 kW (410 hp)
Bucket 6 m³ to 11 m³
Operating weight 47,250 kg

wheel loader **385-II**



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wheel loader **385-II**



The 385-II wheel loader combines
all the state-of-the-art
performance criteria which firms
in
the mineral industry can expect.

This machine is designed for
operations
which require high output.

The Z-bar linkage of the wheel
loader boosts
the breakout and lifting forces
needed
for face excavation of blasted
rocks.

Its adherence and penetration
capacities
make it an exceptional machine
for materials load
and carry applications.



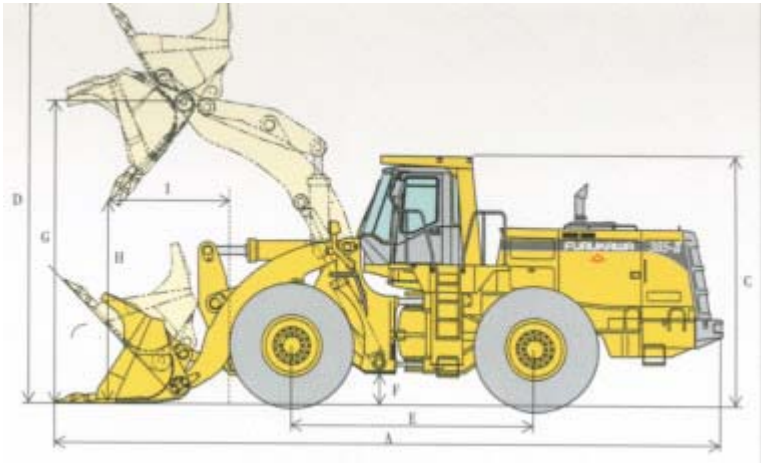
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wheel loader **385-II**

Dimensions with rock bucket - 6m³

A - Length (bucket on ground)	11,070 mm
B - Maximum external width	3,570 mm
C -.ROPS cab height	4,195 mm
D - Bucket completely lifted	7,035 mm
E - Wheelbase	4,050 mm
F - Minimum ground clearance (lowest central point)	575 mm
G - Shovel pin height	5,065 mm
Depth of excavation	85 mm
Minimum turn radius (external tyre measurement)	6,890 mm
Turn radius over bucket	8,275 mm
Lock angle	40 °

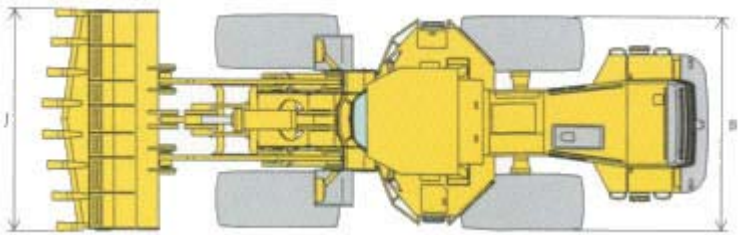


Weight

Operating weight - rock bucket	47,250 kg
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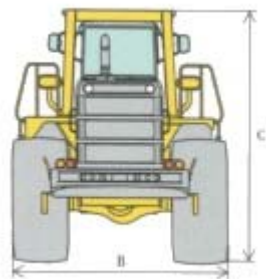
Performances

	Rock bucket V-shaped blade	Bucket straight blade with teeth
Capacity	6.0 m³	5.8 m³
Lift time (full load)	8.4 sec	8.4 sec
Lowering time	4.7 sec	4.7 sec
Dump time	2.1 sec	2.1 sec
H - Dump height (dumping at 45°)	3,390 mm	3,555 mm
I - Dump reach (dumping at 45°)	2,020 mm	1,855 mm
Rollback on ground	41°	41°
Bucket dump angle (High lift)	50 °	50 °
J - Exterior with at bucket	3,770 mm	3,770 mm
Static tipping load:		
Straight	32,260	32,530
Full turn	27,590	27,830
Breakout force	38,500 kg	

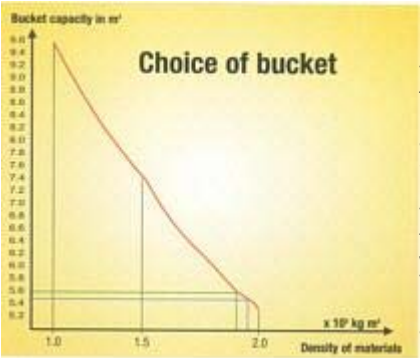


Approximate Density

	kg/m³
Beetroot	530
Loose coal	570
Lignite	680
Bituminous coal	765



Fertilizer	1030
Anthracite	1046
Dry earth	1150
Nitrates	1250
Sodium chloride	1300
Cement	1440
Crushed limestone	1530
Dry sand	1550
Asphalt	1600
Dry gravel	1650
Wet clay	1680
Wet sand	1890
Potter's clay	2080
Gypsum	2200
Iron ore	2800
Magnetite	3204



EC Certification
 This data refers to a machine fitted with a rock bucket, V-shaped blade with teeth, and is measured according to the SAE J7 32C Standard

The Company reserves the right to modify the characteristics given, without prior notice.
 The standard fittings of the machine may vary from one country to another depending on the legal disposition in force.

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SPECIFICATIONS

Engine

Make	Cummins
Model	QSK19-C
Fuel	diesel
Type	four stroke, water cooled, direct injection turbocharged
Engine power	305 kW (410HP) / 2000rpm
Maximum torque	1335 Nm at 1300 rpm
Cylinder bore and stroke	159 mm x 159 mm x 6
Cubic capacity	18900 cm³
Compression ratio	17.0
Alternator	24 V AC 1,8 kW
Startifig motor	24 V 8,9 kW
Battery	12 V - 200 AH, twin
Speed regulator	All speeds electronic

Torque converter and transmission

Torque converter	3 elements, 1stage, single-phase
Torque stall ratio	2.95 : 1
Flywheel clutch	hydraulic, multi-disc immersed
Cooling	forced circulation
Transmission	automatic, 4 forward and 3 reverse gears

Axles

Drive system	4 wheel drive
Tyres	35/65 R 33* tubeless type L5
Tyre tread standard front and rear tyres	2650 mm
Final drive	planetary gear system
Oscillation angle	+/- 13°

Transmission

Forward (reverse)	0-6.4 (0-6.9) km/h 0-11.9 (0-12.9) km/h 0-19.6 (0-20.9) km/h 0-30.7 (.....) km/h
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2 steering cylinders	110 x 720 mm
Hydraulic steering pump	gearing 391 l/min 21 Mpa @ 2000 rpm
Hydraulic loading pump	gearing 172 l/min 21 Mpa @ 2000 rpm
Control valve	multi-valve, pressure 20.6 Mpa
Decompression	20.6 Mpa
Lifting capacity	167.8 kN
Cycle times:	
• Lift time (full load)	8.4 seconds
• Descent time (empty)	4.7 seconds
• Dump time	2.1 seconds
• Total cycle time	15.2 seconds

Tank capacities

Location	Type	Capacity
Engine	cooling liquid	128 l
Fuel tank	diesel	620 l
Engine	engine oil	67 l
Front axle	drive oil	180 l
Rear axle	drive oil	180 l
Gearbox and torque converter	engine oil	85 l
Hydraulic system	hydraulic oil	470 l

Standard equipment

2 elements air cleaner
Air-conditioning
Articular locking for transport
Backup alarm
Bucker leveller
Rock bucket, 6.0 m³, vedged rock purposes

- Engine oil pressure
 - Air filter
 - Rear working light
 - High beam
 - Automatic brakes
 - Parking brake
 - Brake oil level
 - Clutch cut-out
 - Transmission controller fault
 - Oil filter
 - Battery charge
 - Main alarm
- Main alarm
- Hydraulic control lever
- Gear shift-down switch
- ROPS/FOPS cab
- Air suspension seat and belt
- Emergency brake
- Standard tools
- Switches:
- Windscreen wiper
 - Lighting
 - Parking brake
 - Starter
- Clutch cut-out
- Vandalism protection

Max. gradeability 30°
Drawbar pull 305.8 kN

Braking system

Service brake Brakes immersed, entirely hydraulically controlled

Parking brake and emergency brake Oil pressure, spring-mounted, situated on front drive shaft

Hydraulics and steering

Type articulated control

Steering hydraulic

Angle full turn 40° on each side

2 lifting cylinders boom 225 x 1132 mm

1 discharging cylinder (bucket) 280 x 680 mm

- bucket with teeth, bolt on wear plate
- Bucket lift kick-out
- Cold start
- CA automatic transmission
- Draw bar
- FLS anti-pitching
- Emergency steering
- Fan protection
- Filtering (changeable part)
- Front and rear fenders
- Indicators:
- Converter oil temperature
 - Coolant temperature
 - Fuel tank level
 - Hour meter
 - Speedometer
- Electric horn
- Ladder
- Lights:
- Front headlamp
 - Rear lights and stop lights
 - Reversing lights
 - Front/rear working lights
- Luminous indicators (visual warnings)
- Forward / reverse steering indicator
 - Neutral start safety indicator
 - Converter oil temperature
 - Coolant temperature
 - Brake pressure

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FOR SIMPLIFIED MAINTENANCE

The daily checks are made easier by the wide side openings.

The two filtering elements ensure perfect fresh air supply to the engine. Accumulated dust is automatically evacuated when the engine stops.



All kinematic articulations have a lubrication system with leaktight reserve which means a longer time between services. A centralized lubrication system is offered as an option.

FURUKAWA CARES FOR THE ENVIROMENT



Exhaust and fume releases are in compliance with European directives.

The sound level outside the machine (new EC86/662 directive) of 107 LWa contributes to operator comfort, but also for those nearby.

The particularly well studied design with its rounded shapes and modern line promotes integration of the loader on commercial sites.



FIRST CLASS COMFORT

The ROPS and FOPS cab, very far forward on the machine, gives the driver an exceptional panoramic view all around his machine.

The low level of noise in the cab (77 Lpa according to EC 86/662 directive) provides the operator with ideal working conditions.

The cab is suspended by four rubber/oil shock absorbers. This state-of-the-art system is particularly effective against vibrations.



The seat and instrument panel are adjustable so that the operator is continually in optimum working conditions - visibility of equipment, user-friendly positioning of controls (Kick-down selection with control switch, steering column adjustment, choice of seat height, etc.).

Air-conditioning in the cab is standard, with choice of temperature.

The cab is also pressurized, and is fitted with an air filtration system which is absolutely essential for work in a dusty environment.



A great number of visual and audible indicators give permanent information on levels of the tanks and sound operation



of the machine (wheel loader speed, engine temperature, transmission oil temperature, clogging of air filter, selection of gears, etc.)

A wide panel of standard accessories inside the cab adds to the comfort of the operator (storage boxes, radio, bottle holder, etc.)





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POWER AND PERFORMANCE ON ALL FRONTS

The kinematics of the Furukawa 385 II wheel loader are designed on the quarry type:

- Dump height 3 390 mm
- Shovel pin height 5 065 mm
- Dump reach at full height 2 020 mm
- Rollback on ground 41°
- Breakout force 38,500 kg



The new Cummins QSK19-G engine, complying with new European pollution standards, produces 305 kW with a torque reserve which allows exploiting all the loader's capacities.

The 620 litre fuel tank provides sufficient autonomy for long working days.

For all excavation and scraping work, the front and rear axles give maximum adherence and traction haulage.



Braking is powerful and progressive on four wheels with oil-cooled discs.

FLEXIBILITY AND PRECISION

The Load Sensing steering gives working flexibility and accuracy on the 40° full turn on either side, even when idling.

The hydraulic system and its monitoring give highly accurate bucket control.



The Full Powershift Automatic drive can adapt displacement speed quickly without jerks. Hence manoeuvrability is increased. Selection of speeds, from 2nd to 4th gear is automatic.

The Furukawa 385-II can climb 300° gradients in order to carry out bad hauling on steep slopes.

The possibility of placing the transmission, which depends on the left brake pedal, out of service means that it is possible to stop and start up again without jerking on very steep slopes.

The Furukawa 385-II has the FLS (Furukawa Load Stabilizer) as standard fitting which limits pitching of the wheel loader in fast travel phases.

A ROBUST AND STURDY BUILD

The Z-bar linkage of the wheel loader is designed to produce a high breakout force and to resist the most strenuous applications.

The structures of the chassis and axles are designed to support static and dynamic loads several times higher than those encountered in normal use.

All the electric circuits are guaranteed for perfect operation in corrosive, dusty and humid environments.

The system of bucket mountings on the boom is adjustable and leaktight which allows longer time between lubrications and guarantees long life for the loader.





The FLS absorbs shocks, therefore limits
boss
of material and increases driver comfort.
Braking, steering and stability have
equally
been improved, hence greater safety.

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**EFFICIENT
AFTER-SALES
AT YOUR SERVICE**

**EXCELLENT RETURN
ON INVESTMENT**

wheel loader
385-II



The Furukawa wheel loaders after-sales service comprises a wide network of specialist distributors for earth-moving machines.

The Furukawa 385-II wheel loaders generally work at the forefront of the high capacity industrial or mining process. In this area, we understand the importance that you give to this purchase.

By choosing a 385-II you are banking on a design and technical back-up which will give you entire satisfaction, both return on investment as well as peace of mind.



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