KOMATSU

Utility

PC
95R-2

PC95R-2

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MIDI EXCAVATOR

NET HORSEPOWER
SAE J1349
61,5 kW - 82,5 HP

OPERATING WEIGHT
From 8.750 kg
to 9.360 kg

THE ALTERNATIVE DIMENSION

Especially designed for applications that require compact machines with high digging force and excellent stability, highlighted by the front blade as standard, the PC95R-2 offers the features of a traditional excavator with extremely compact dimensions.
The undercarriage of the PC95R-2 is superior in terms of sturdiness and dimensions, with a structure that is capable of absorbing stress in any application, while at the same time providing the machine excellent stability.

Engine

The KOMATSU engine delivers net power of 61.5 kW / 82.5 HP, providing high reserve torque and above all reliability. The innovative combustion system guarantees emissions in accordance with the strictest standards.

Hydraulic System

The **CLSS** *(**C**losed **L**oad **S**ensing **S**ystem)* hydraulic system fitted on the PC95R-2 ensures excellent control and unbeatable productivity, even with less experienced operators. Two different hydraulic power modes can be selected, *"Power"* and *"Economy"*, for operation at maximum power when required, or alternatively at reduced power to save on fuel for more general work or finishing operations.

"PPC" Proportional Servocontrols

The PPC servocontrols require very little effort and ensure extremely precise control. Each movement has its own dedicated control, and can be used at the same time as the others, thus simplifying and speeding up all working cycles.

Total Comfort

The cab, mounted on special elastic supports, is spacious and designed with care to the minimum details, so as to ensure a silent and comfortable working environment. Special attention has been paid to the internal layout: easy-to-read instruments, a large console located in front of the operator, and an efficient heating and ventilation system, with partial fresh air intake. The new air-conditioning system, available upon request, ensures the ideal temperature in all climatic conditions, so as to guarantee maximum comfort for the operator. The large glazed surface, the sun roof and the special design of the panels offer maximum 360° visibility.

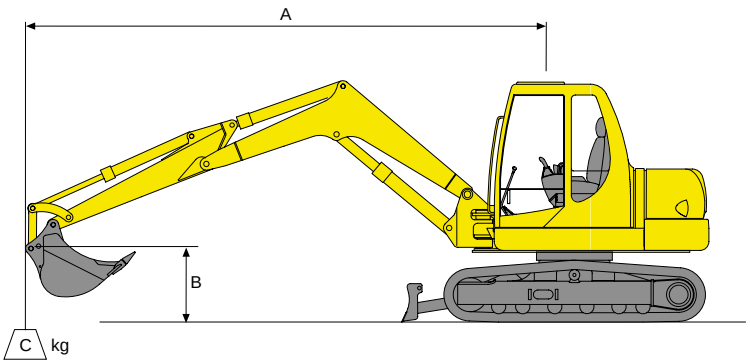
Versatility

The PC95R-2 can be customised to satisfy all requirements: monoboom or two-piece boom, short or long digging arm, 450, 500 or 600 mm steel tracks or 450 mm rubber tracks. In addition, the possibility to adjust the flow-rate and the pressure of the auxiliary lines allows numerous attachments with different specifications to be used.

Maintenance

All the service points on the PC95R-2 have been grouped under the two fully-opening panels, making them easy to reach from the ground; in addition, all the hydraulic hoses are fitted with ORFS couplings, which ensure better seal and easy replacement if required.

LIFTING CAPACITY



MONOBOOM

DATAS AND SPECIFICATIONS ARE REFERRING TO 89/392/CE AND EN 474-5 DIRECTIVES

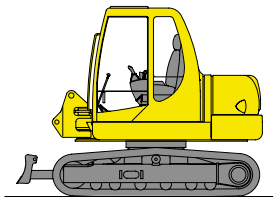
When the bucket, the levers or the bucket cylinder are disassembled, the lifting capacity can be increased by their respective weights.

A - Outreach starting from the rotation centre
B - Height at bucket pin
C - Lifting capacity - with bucket 800 mm (236 kg),standard shoes, levers and cylinder

Capacity over front

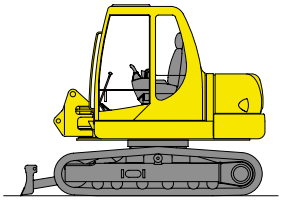
Lateral capacity or capacity over 360°

WITH BLADE UP



B			A: 3,0 m		4,5 m		6,0 m		Max. outreach	
1.600 mm	4,5 m	kg	-	-	-	-	-	-	1.750*	1.750*
	3,0 m	kg	-	-	2.050*	1.400	-	-	1.550	1.150
	1,5 m	kg	3.550*	2.750	2.200*	1.400	-	-	1.300	1.000
	0,0 m	kg	3.500*	2.500	2.500*	1.350	-	-	1.250	975
	-1,5 m	kg	3.350*	2.350	2.250*	1.300	-	-	1.400	950
	-3,0 m	kg	-	-	-	-	-	-	2.100	1.200
1.850 mm	4,5 m	kg	-	-	-	-	-	-	1.650*	1.650*
	3,0 m	kg	-	-	2.000*	1.350	-	-	1.500	1.075
	1,5 m	kg	3.400*	2.750	2.100*	1.350	1.300	1.000	1.250	950
	0,0 m	kg	3.500*	2.500	2.350*	1.300	-	-	1.200	900
	-1,5 m	kg	3.350*	2.350	2.100*	1.250	-	-	1.350	900
	-3,0 m	kg	3.350*	2.400	-	-	-	-	2.000	1.350
2.300 mm	4,5 m	kg	-	-	-	-	-	-	1.550*	1.550*
	3,0 m	kg	-	-	1.900*	1.250	1.500	900	1.400	1.000
	1,5 m	kg	2.900*	2.500	2.000*	1.200	1.200	800	1.100	900
	0,0 m	kg	3.350*	2.200	2.100*	1.100	1.200	775	1.050	850
	-1,5 m	kg	3.100*	2.000	2.000*	1.000	-	-	1.100	800
	-3,0 m	kg	2.900*	2.000	-	-	-	-	1.750	1.250*

WITH BLADE AT GROUND LEVEL



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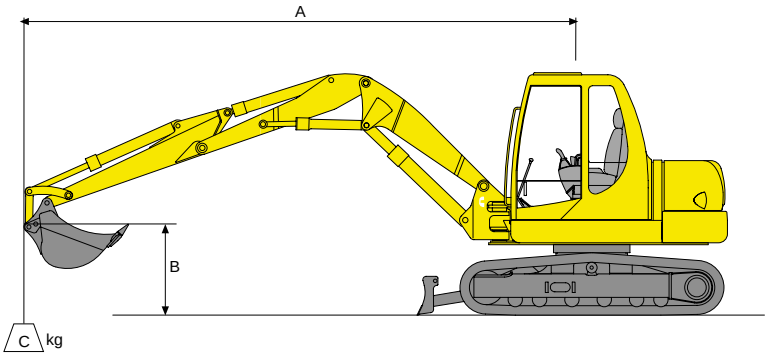
	3,0 m	kg	-	-	2.050*	1.400	-	-	1.800*	1.150
	1,5 m	kg	3.550*	2.750	2.200*	1.400	-	-	1.875*	1.000
	0,0 m	kg	5.300*	2.500	2.600*	1.350	-	-	2.100*	975
	-1,5 m	kg	5.500*	2.350	3.000*	1.300	-	-	2.300*	950
	-3,0 m	kg	-	-	-	-	-	-	2.550*	1.200
1.850 mm	4,5 m	kg	-	-	-	-	-	-	1.650*	1.650*
	3,0 m	kg	-	-	2.000*	1.350	-	-	1.700*	1.075
	1,5 m	kg	3.400*	2.600	2.100*	1.350	1.850*	1.000	1.800*	950
	0,0 m	kg	5.300*	2.400	2.600*	1.300	-	-	2.000*	900
	-1,5 m	kg	5.500*	2.300	3.000*	1.250	-	-	2.250*	900
	-3,0 m	kg	4.200*	2.300	-	-	-	-	2.500*	1.350
2.300 mm	4,5 m	kg	-	-	-	-	-	-	1.550*	1.550*
	3,0 m	kg	-	-	1.900*	1.250	1.750*	1.100	1.600*	1.000
	1,5 m	kg	2.900*	2.500	2.000*	1.200	1.850*	1.050	1.725*	900
	0,0 m	kg	5.000*	2.200	2.500*	1.100	2.000*	1.000	1.850*	850
	-1,5 m	kg	5.200*	2.000	2.750*	1.000	-	-	2.000*	800
	-3,0 m	kg	4.000*	2.000	-	-	-	-	1.250*	1.250*

NOTES: data are based on ISO 10567 standard - The above indicated lifting capacities include a 25% safety margin and don't exceed the 87% of the actual capacity - The values marked with asterisk (*) are limited by the hydraulic capacities - For these lifting capacities it is taken for granted that the machine rests on a uniform and firm surface - The lifting point is a hypothetical hook placed behind the bucket.



TWO PIECE BOOM

DATAS AND SPECIFICATIONS ARE REFERRING TO 89/392/CE AND EN 474-5 DIRECTIVES

When the bucket, the levers or the bucket cylinder are disassembled, the lifting capacity can be increased by their respective weights.

A - Outreach starting from the rotation centre
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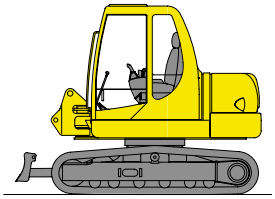
Capacity over front

Lateral capacity or capacity over 360°

WITH BLADE UP



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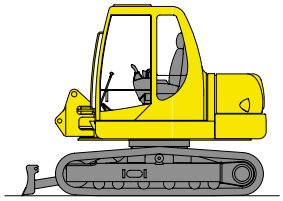
	1,5 m	kg	3.300*	2.400	1.700*	1.200	1.100	825	950	750
	0,0 m	kg	3.500*	2.300	1.725*	1.200	1.000	800	900	700
	-1,5 m	kg	3.000*	2.100	1.700	1.100	1.000	900	1.000	850
	-3,0 m	kg	3.000*	2.000	1.600*	1.100	-	-	1.350*	1.000
1.850 mm	4,5 m	kg	-	-	1.650*	1.200	-	-	1.500	950
	3,0 m	kg	2.500*	2.250	1.700*	1.200	1.100	800	1.000	750
	1,5 m	kg	3.000*	2.300	1;625*	1.100	1.000	750	900	650
	0,0 m	kg	4.000*	2.100	1.650*	1.100	950	750	850	600
	-1,5 m	kg	4.750*	2.000	1.600*	1.000	950	800	900	700
	-3,0 m	kg	3.000*	1.800	1.550*	1.000	-	-	1.000	900
2.300 mm	4,5 m	kg	-	-	1.550*	1.100	-	-	1.200	900
	3,0 m	kg	2.400*	2.100	1.600*	1.050	1.000	750	900	700
	1,5 m	kg	3.000*	2.000	1.550*	1.000	900	700	800	600
	0,0 m	kg	4.000*	1.800	1.600*	1.000	850	700	750	550
	-1,5 m	kg	4.750*	1.750	1.500*	900	900	700	800	600
	-3,0 m	kg	3.000*	1.600	1.400*	900	-	-	1.000	800

WITH BLADE AT GROUND LEVEL



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	0,0 m	kg	4.300*	2.300	2.750*	1.200	1.750*	800	1.600*	700
	-1,5 m	kg	5.000*	2.100	2.500*	1.100	1.750*	900	1.500*	850
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	1,5 m	kg	3.000*	2.300	2.200*	1.100	1.700*	750	1.600*	650
	0,0 m	kg	4.000*	2.100	2.600*	1.100	1.600*	750	1.500*	600
	-1,5 m	kg	4.750*	2.000	2.400*	1.000	1.600*	800	1.400*	700
	-3,0 m	kg	3.000*	1.800	1.900*	1.000	-	-	1.250*	900
2.300 mm	4,5 m	kg	-	-	1.550*	1.100	-	-	1.500*	900
	3,0 m	kg	2.400*	2.100	1.850*	1.050	1.500*	750	1.400*	700
	1,5 m	kg	2.800*	2.000	2.000*	1.000	1.400*	700	1.300*	600
	0,0 m	kg	3.750*	1.800	2.500*	1.000	1.350*	700	1.250*	550
	-1,5 m	kg	4.500*	1.750	2.200*	900	1.250*	700	1.100*	600
	-3,0 m	kg	2.750*	1.600	1.750*	900	-	-	1.000*	800

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SPECIFICATIONS

ENGINE

Make ..... Komatsu 4D106-1FB
Type ..... low emissions, direct injection
N° of cylinders 4
Rated power:
(SAE J 1349) ..... 61,5 kW / 82,5 HP - 2.200 rpm
(DIN 6270) ..... 61,9 kW / 84 PS - 2.200 rpm
(80/1269/EC) ..... 61 kW / 82 HP - 2.200 rpm
Max. torque (80/1269/EC) ..... 310 Nm - 1.500 rpm
Displacement ..... 4.412 cm^3

WEIGHT

Operating weight, including 1.850 mm arm, bucket with 0,298 m^3 ISO 7451 capacity, blade, operator, liquids, filled tank and standard equipment (ISO 6016):

Shoes width (mm)	Tread width (mm)	Operating weight with monoboom (kg)	Operating weight with two piece boom (kg)
Steel			
450	2.200	8.800	9.150
500	2.200	8.930	9.280
600	2.400	9.075	9.425
Rubber			
450	2.400	8.610	8.960

HYDRAULIC SYSTEM

Type ..... Komatsu CLSS
Power modes ..... 2 (Power/Economy)

Main pumps:
Pump for ..... boom, arm, bucket and travelling
Type ..... variable displacement, axial piston
Maximum flow ..... 175 //min
Pump for ..... blade and swing
Type ..... fixed displacement gear pump
Maximum flow ..... 67 //min

Valve rating:
Swing ..... 21,5 MPa (215 bar)
Digging equipment ..... 27,5 MPa (275 bar)
Bucket breakout force (ISO 6015) ..... 7.060 daN (7.200 kg)
Digging arm breakout force (1600 mm)
(ISO 6015) ..... 4.220 daN (4.300 kg)

SWING SYSTEM

Driven by ..... hydraulic motor
Swing reduction gear ..... with double epicyclic reduction
Swing circle lubrication ..... permanent grease bath
Swing brakes ..... automatic, with oil immersed discs
Swing speed ..... 9 rpm

TRANSMISSION

Controls ..... two levers with pedals
Operation ..... completely hydrostatic
Hydraulic motors ..... variable displacement, axial piston motors integrated in the profile of the tracks
Reduction system ..... epicyclic double reduction gears
Max traction force ..... 7.800 daN (7.960 kg)
Max speed (high) ..... 5,0 km/h
Max speed (low) ..... 3,0 km/h
Gradeability ..... 60% limited by the engine inclination
Working and parking brakes ..... oil immersed multiple discs with negative control

BLADE

Width x height ..... 2.200 x 430 mm
Max lifting above ground level ..... 400 mm
Max depth below ground level ..... 470 mm

UNDERCARRIAGE

Undercarriage with single-unit electrowelded structure. Heavy duty type. Track frames with boxed section, rounded in its upper part in order to avoid accumulation of material.

Adjustment of track tension ..... hydraulic
Number of shoes (for each side) 44
Number of carrier rollers (for each side) 1
Number of track rollers (for each side) 6

ELECTRIC SYSTEM

Operating voltage ..... 12 V
Battery ..... 1 Ah
Alternator ..... 60 A
Starter ..... 3,0 kW

CAB

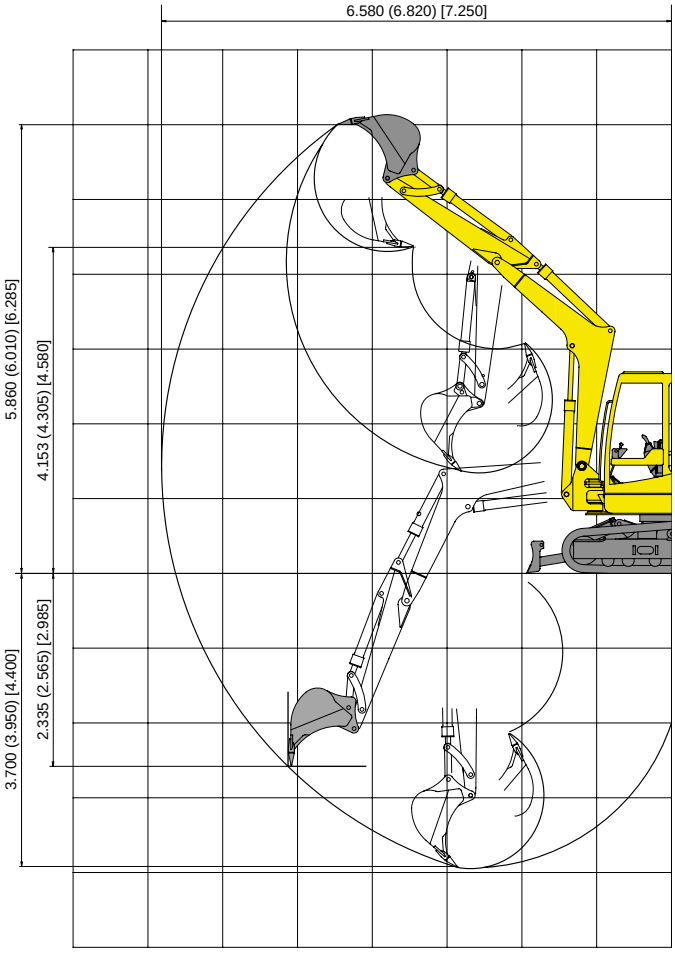
Sound-proof cab, provided with safety glasses, liftable windscreen, “manhole” roof, door with safety lock, adjustable joysticks, windscreen-wiper, electric horn, adjustable seat, control system and instrumentation. Outside air inlet.

REFILLS

Fuel tank ..... 125 l
Cooling system ..... 18 l
Engine oil ..... 12,5 l
Hydraulic oil tank ..... 74 l

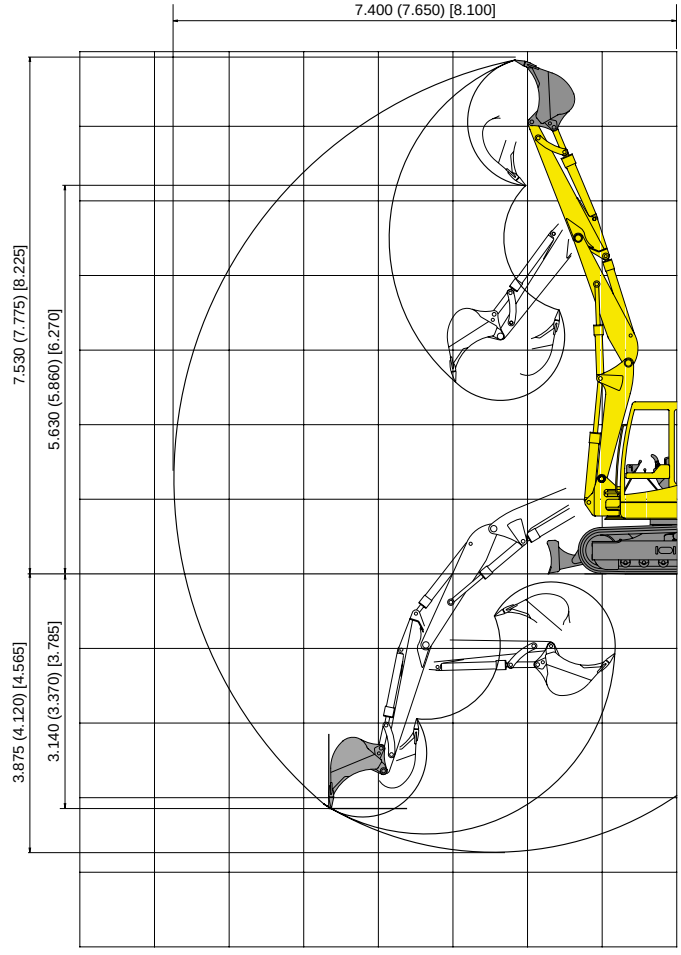
DIGGING DIAGRAM

MONOBOOM



arm 1.600 (1.850) [2.300]

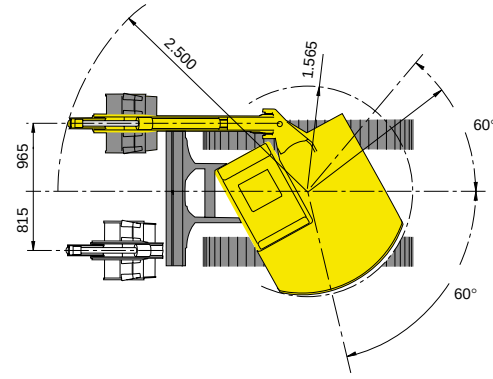
TWO PIECE BOOM

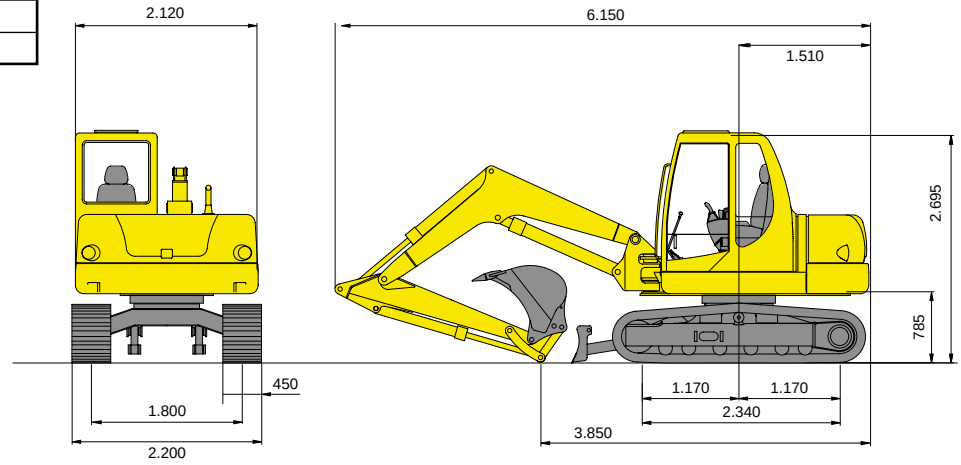


arm 1.600 (1.850) [2.300]

DIMENSIONS

BUCKET RANGE			
Width mm	Capacity m^3 (ISO7451)	Weight kg	Teeth N.
300	0,086	128	2
400	0,128	160	3
500	0,171	184	3
600	0,213	200	4
700	0,255	218	4
800	0,298	236	4
900	0,34	256	5





STANDARD EQUIPMENT

- Monoboom
- 1.850 mm arm
- 450 mm steel shoes
- 2.200 mm Blade
- Cab with heating
- Adjustable seat with safety belt
- Instrumentation including:
  - hour meter
  - fuel level LCD display
  - engine water temperature LCD display
  - Indicators: air filter clogging, engine oil pressure, generator, hydraulic oil filter, engine pre-heating, selected speed, working light.
- Horn
- 12 V electric plug
- 2 travelling speeds
- 2 front working lights
- Automatic parking brake
- Swing lock
- Hose burst valve on boom cylinder and blade
- Adjustable element for attachment
- Two elements air filter
- Overload warning device

OPTIONAL EQUIPMENT

- Air conditioning
- 2-piece boom
- Hose burst valves (arm and bucket)
- 1.600/2.300 mm digging arm
- 500/600 mm steel shoes
- 450 mm rubber shoes
- 2.400 mm blade
- Auxiliary hydraulic circuit for hammer/clamshell bucket
- Hydraulic hammer
- FOPS protection (on top and on front)
- Bucket range (300 ÷ 900 mm)
- Ditch cleaning bucket (1.500 mm)
- Ditch digging bucket (1.650 mm 52°)
- Mechanical or hydraulic quick coupler
- Additional counterweight (150 kg)
- Boom cylinder protection
- Working light on boom
- 2 rear view mirrors
- Biodegradable oil
- Fuel filling pump
- Radio
- Rotating beacon
- Travel acoustic alarm

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CE

COMPANY WITH ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFIED BY DNV
ISO 14001

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