

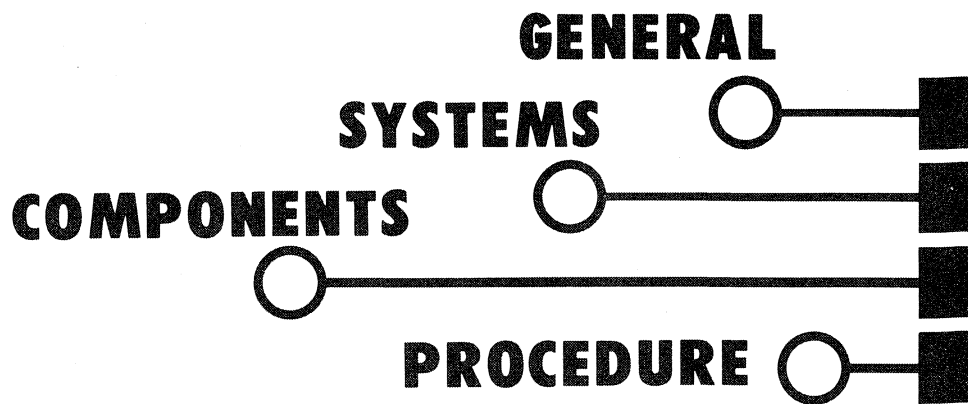
# HYDRAULIC EXCAVATOR

## **KW904**

**model**

## **KW904D**

# SHOP MANUAL



Book code No. S5YD0001E ①

Reprinted

# SHOP MANUAL

model

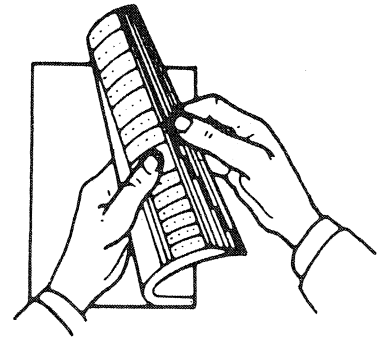
# KW904 KW904D

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○ How to Index each Shop Manual Section

The GENERAL of this shop manual consists of 8 headings as shown above. Each section can be easily referred to by indexes appended to the margin of the page as indicated on the right. Please use the indexes for speedy reference.



# KOBELCO

# GENERAL

**KW904** List of Shop Manual **GENERAL** Section  
**KW904D**

Name	Book Code No.		
	Distribution Year-Month		
SPECIFICATION	S5YD0101E 1985-04	←	
OPERATION	S5YD0201E 1985-04	←	
LOCATION AND WEIGHT OF COMPONENTS	S5YD0301E 1985-04	←	
MAINTENANCE STANDARDS AND TEST PROCEDURES	<del>S5YD0401E 1985-04</del>		S5YD0401E① 1985-09
TROUBLESHOOTING	S5YD0501E 1985-04	←	
PREVENTIVE MAINTENANCE	S5YD0601E 1984-04	←	
WORKING STANDARDS			
FLAT RATE			
Applicable Machines	YD-0101 ~ 0166 YD-0240 ~ YE-0228 ~	←	



Book code No.

S5 YD0101E

# SHOP MANUAL

# KW904 KW904D

## — SPECIFICATION —

### TABLE OF CONTENTS

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**Applicable Machines**

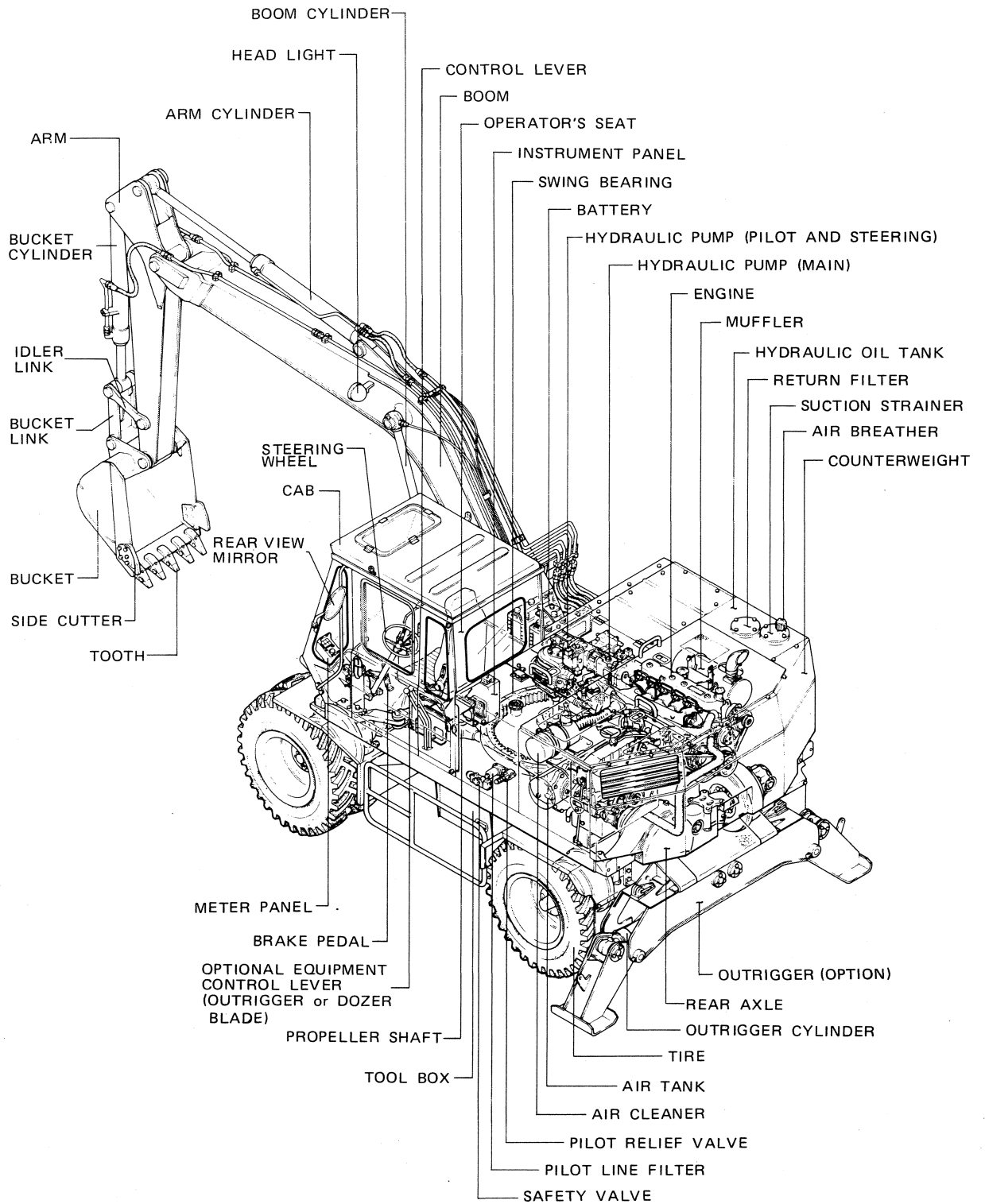
**YD-0101 ~ 0166**

**YD-0240 ~**

**YE-0228 ~**

Revision	Date of Issue	Remarks
First edition	April, 1985	100B

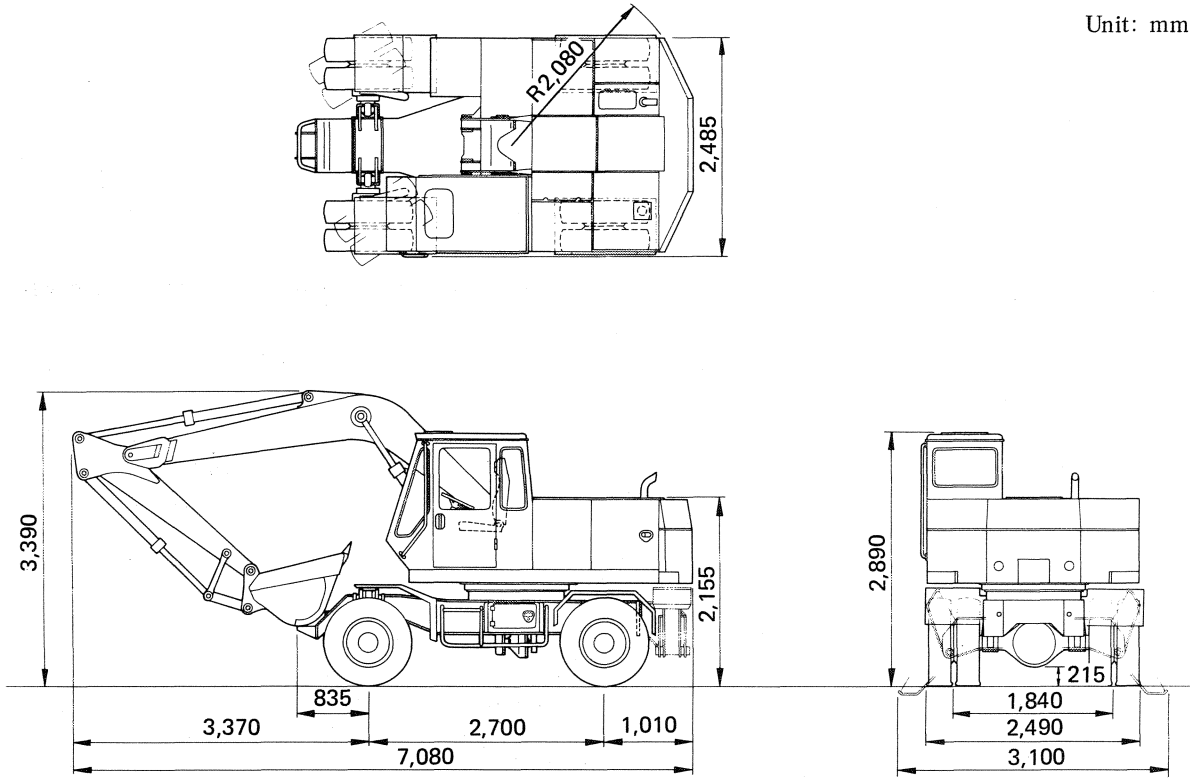
# 1. NAME OF COMPONENTS



## 2. GENERAL DIMENSIONS

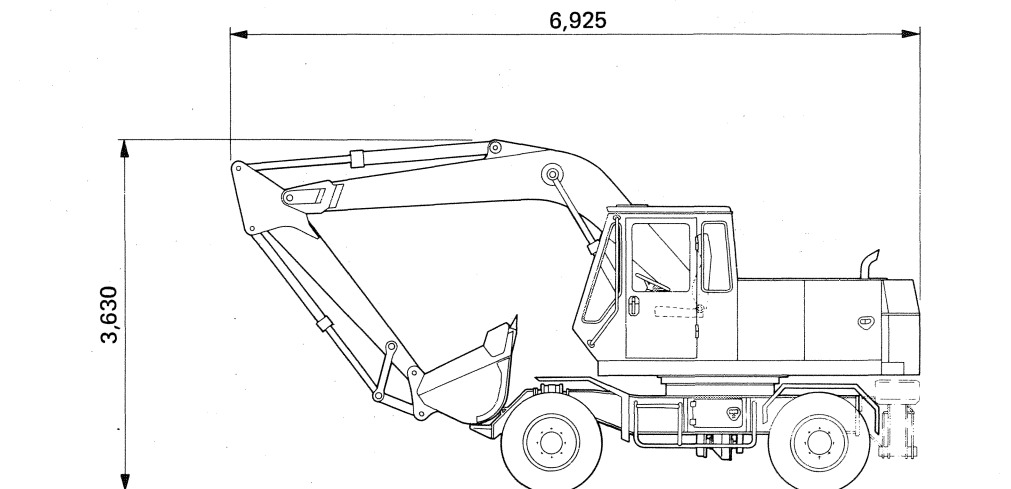
### KW904, KW904D WITH 1.9 m ARM (STD.)

Unit: mm



YD-0027

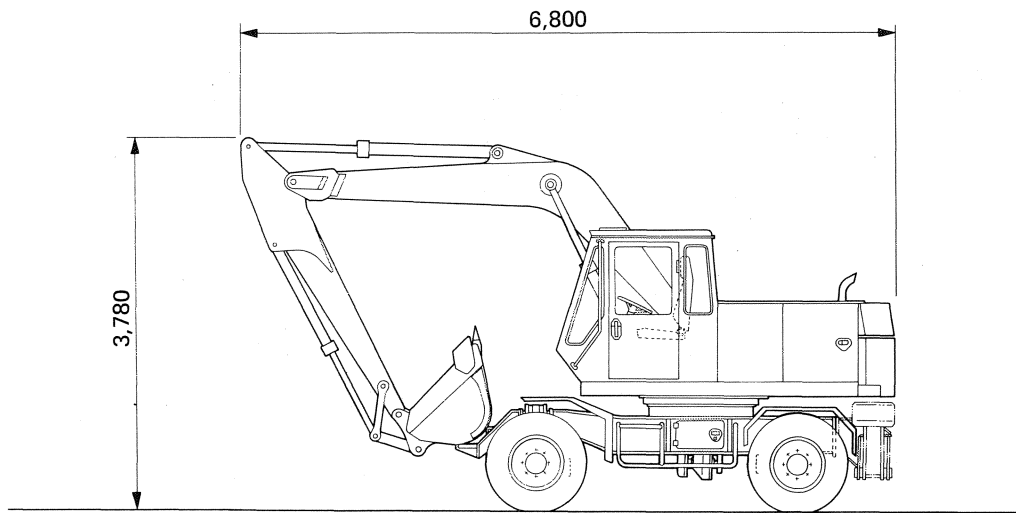
### KW904, KW904D WITH 2.15 m ARM (SEMI-LONG ARM)



YD-0028

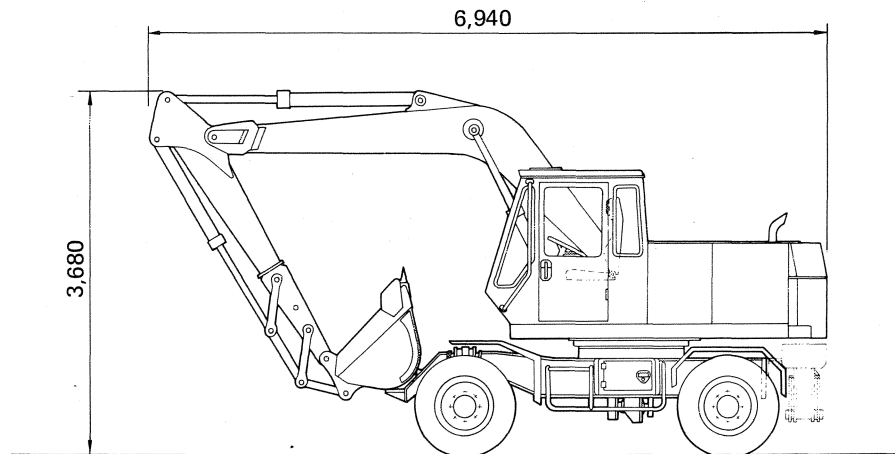
**KW904, KW904D  
WITH 2.65 m ARM (LONG ARM)**

Unit: mm



YD-0145

**KW904, KW904D  
WITH 1.9 m ARM + 0.6 m EXT. ARM**

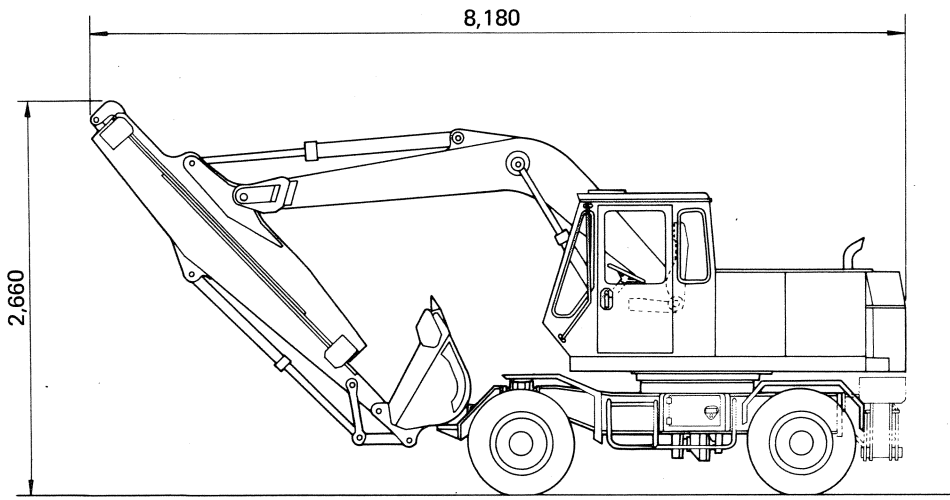


YD-0146



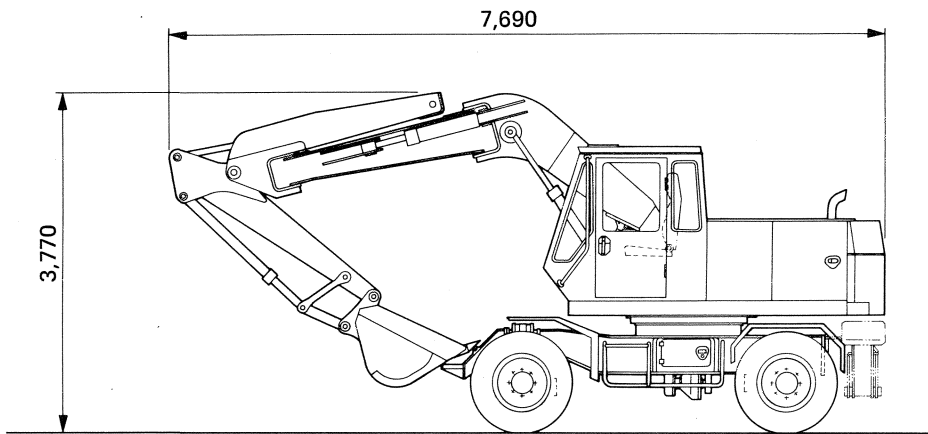
**KW904, KW904D  
WITH TELESCOPIC ARM**

Unit: mm



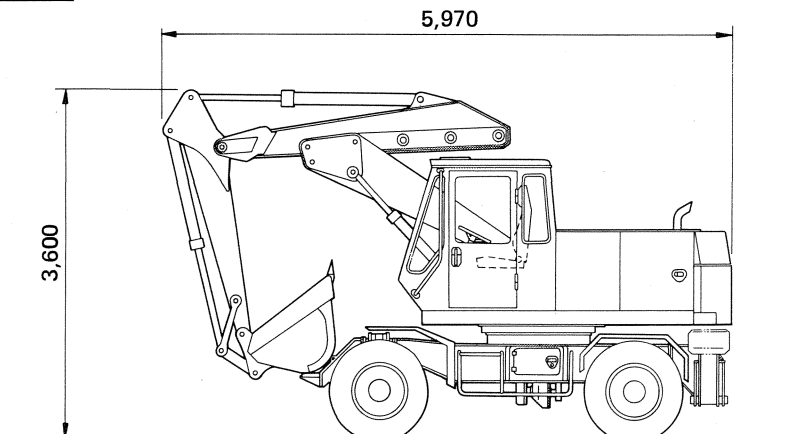
YD-0029

**KW904, KW904D  
WITH GUTTER ATTACHMENT (GUTTER DIGGING BOOM)**



YD-0030

**KW904, KW904D  
WITH 2-PIECES BOOM**



YD-0148

### 3. SPECIFICATIONS AND PERFORMANCE

#### SPEED AND GRADEABILITY

Model of Machine		KW904D	KW904
Swing Speed		12 r.p.m.	←
Travelling Speed	Forward 1st	4.2 km/hr	←
	Forward 2nd	7.4 km/hr	←
	Forward 3rd	13.6 km/hr	←
	Forward 4th	26.8 km/hr	←
	Forward 5th	34 km/hr	←
	Reverse 1st	4.6 km/hr	←
Gradeability		29° (55%)	←

#### ENGINE

Model of Machine		KW904D	KW904
Model		Isuzu 6BB1	←
Type		4 cycle, water-cooled, direct injection type	←
No. of cylinders – Bore x Stroke		6–102 mm x 110 mm	←
Total Displacement		5,393 cc	←
Rated Output/Revolution		85 PS/2,050 r.p.m.	←
Max. Torque/Revolution		32.8 kg-m/1,400 r.p.m.	←

#### HYDRAULIC COMPONENTS

Model of Machine		KW904D	KW904
Hydraulic pump	Main pump	Double variable displacement axial piston pump	←
	For steering	Gear pump	←
	For pilot	Gear pump	←
Hydraulic Motor (For Swing)		Axial piston pump	←
Control valve		2 section + 3 section multiple control valve	←
Return Filter		Filter paper with safety valve	←
Oil Cooler		Air-cooled type	←
Steering Control		Full-hydraulic type	←

#### NOTE

The number of control valve sections varies with what type of attachment is used and whether or not auxiliary equipment are equipped.

**WEIGHT**

Unit: kg

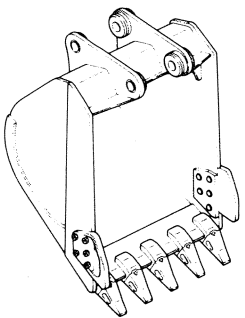
Model of Machine		KW904D			KW904		
Fully Equipped Weight (Shovel loader)	Auxiliary Spec. Equipment	None	Outrigger	Dozer blade	None	Outrigger	Dozer blade
	Standard backhoe	11,135	12,055	11,815	10,895	11,820	11,575
	Long arm	11,155	12,075	11,835	10,920	11,840	11,595
	Gutter attach.	12,050	12,970	12,725	11,810	12,735	12,480
	Telescopic arm	11,720	12,640	12,395	11,480	12,405	12,150

**TIRES**

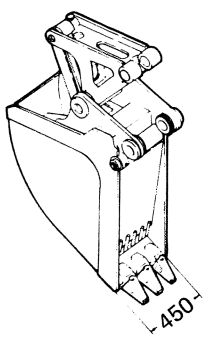
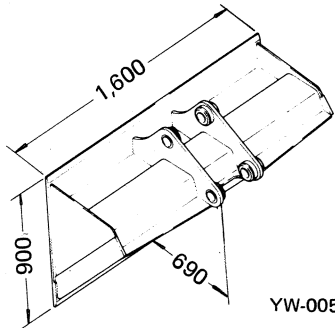
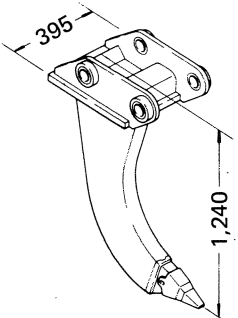
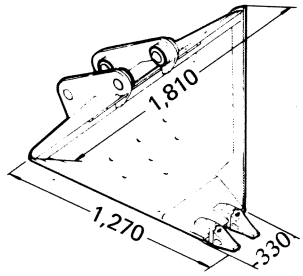
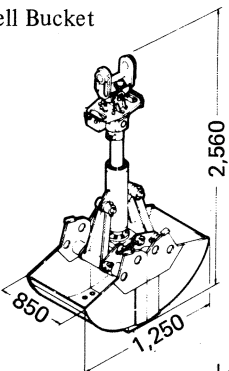
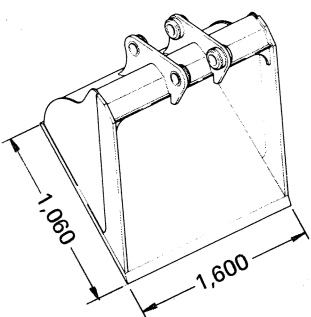
Model of Machine	KW904D	KW904
Tire Size (Front & Rear)	9.00-20-12PR (OR) Option 9.00-20-14PR (OR)	9.00-20-12PR (OR) Option 9.00-20-14PR (OR)
Wheel Base	2,700 mm	2,700 mm
Tread (Both Front & Rear)	1,840 mm	1,840 mm
Drive Shaft	Front shaft and rear shaft (4-wheel drive)	Rear shaft (2-wheel drive)

## 4. TYPE AND COMBINATION OF ATTACHMENTS

### TYPE OF BUCKETS

Hoe Bucket	Heaped Capacity (m <sup>3</sup> )	Outer Width (mm)		Number of Tooth	Side Cutters	Weight (kg)
		With Side Cutters	Without Side Cutters			
 YW-0050	0.45	1,010	920	5	Yes	430
	0.4	920	840	5	Yes	410
	0.35	840	756	4	Yes	390
	0.3	750	666	4	Yes	370
	0.25	656	580	3	No	300
	0.15	—	450	3	No	220

<p><b>Bucket with Ejector</b>      Capacity: 0.2 m<sup>3</sup> Weight: 410 kg</p> <div style="text-align: center;">                       L-1671                 </div>	<p><b>Side Slope Finishing Bucket</b>      Weight: 400 kg</p> <div style="text-align: center;">                       YW-0051                 </div>
<p><b>Ripper</b>      Weight: 250 kg</p> <div style="text-align: center;">                       YW-0052                 </div>	<p><b>V-shape Bucket</b>      Capacity: 0.38 m<sup>3</sup> Weight: 290 kg</p> <div style="text-align: center;">                       L-1674                 </div>
<p><b>Clamshell Bucket</b></p> <div style="text-align: center;">                       L-1675                 </div> <p>Capacity: 0.40 m<sup>3</sup> Opening Width: 1,570 mm Weight: 780 kg</p>	<p><b>Scraper Bucket</b></p> <div style="text-align: center;">                       YW-0148                 </div> <p>Capacity: 0.45 m<sup>3</sup> Weight: 375 kg</p>

**COMBINATION OF ATTACHMENTS**

Bucket		Applicable Arm					
Type	Heaped Capacity (m <sup>3</sup> )	1.9 m Arm	2.15 m Arm	2.65 m Arm	1.9m Arm + 0.6m Extension Arm	Gutter Attachment	Telescopic Arm
Hoe Bucket	0.45	△	×	×	×	×	×
	0.4	⊙	△	×	×	×	×
	0.35	○	⊙	△	△	△	×
	0.3	○	○	⊙	⊙	⊙	△
	0.25	○	○	○	○	○	⊙
	0.15	○	○	○	○	○	○
Bucket with Ejector	0.2	○	○	○	○	○	○
Side Slope Finishing Bucket	Width × Depth: 1.6 m × 0.62 m	△	△	△	△	×	×
Clamshell Bucket	0.4	○	○	×	×	×	×
Ripper	—	○	△	×	×	×	×
V-shape Bucket	0.38	△	△	△	△	×	×
Scraper Bucket	0.45	△	△	△	△	×	×

- ⊙ Standard Combination
  - Heavy Duty . . . . . Digging and loading of sand, gravel and clayey soil.
  - △ Light Duty . . . . . Mainly loading of loose gravel or clayey soil.
  - ×
- Not Usable . . . . . Not warranted.

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