

# KATO

FULLY HYDRAULIC EXCAVATORS

## **REGZM-6** SERIES

**HD 308 US-6**

**HD 512-6**

**HD 513<sub>MR</sub>-6**

**HD 820-6**

**HD 823<sub>MR</sub>-6**



# REGZM HD 308US-6

## 【SPECIFICATION】

Model	HD308US-6	HD308US-6 Dozer
Operating weight	7,300kg	7,800kg
Bucket capacity	0.12m <sup>3</sup> ~ 0.34m <sup>3</sup> (Standard bucket 0.28m <sup>3</sup> )	

### ■ Engine

Model	ISUZU AP-4LE2X
Type	4 cycle intercooler turbo charged diesel engine
Rated output	40.0kW (54PS) / 2,000min <sup>-1</sup>
Maximum torque	204N·m (20.8kgf·m) / 1,800min <sup>-1</sup>

### ■ General dimensions

Overall length (in transport position)	5,820mm	6,300mm
Overall height (in transport position)	2,600mm	
Overall width	2,300mm	
Minimum ground clearance	* 360mm	
Tail swing radius	1,290mm	
Crawler overall length	2,850mm	
Crawler shoes width	450mm	

### ■ Travel & swing system

Travel speed (High / Low)	5.0/3.2km/h	
Swing speed	10.0min <sup>-1</sup>	
Grade ability	70%	
Ground pressure	32kPa (0.33kgf/cm <sup>2</sup> )	34kPa (0.35kgf/cm <sup>2</sup> )

### ■ Digging force

Bucket digging force	61.4kN (6.3tonf)
Arm digging force	42.2kN (4.3tonf)

### ■ Hydraulic system

Hydraulic pump	Variable piston pump × 2 + gear pump	Variable piston pump × 2 + gear pump + gear pump (dozer)
Swing motor	Fixed displacement piston motor	
Traveling motor	Variable piston motor × 2	
Control valves	5+4 section multiple control valves (with one free service circuit)	5+5 section multiple control valves (with one free service circuit)
Discharge pressure	29.4MPa (300kgf/cm <sup>2</sup> ) [Travel : 31.4MPa (320kgf/cm <sup>2</sup> )]	29.4MPa (300kgf/cm <sup>2</sup> ) [Travel : 31.4MPa (320kgf/cm <sup>2</sup> )] [Dozer : 21.6MPa (220kgf/cm <sup>2</sup> )]

### ■ Tanks (volume)

Hydraulic oil tank	98L	103L
Fuel tank	120L	

\* Less grouser bar

# STANDARD EQUIPMENTS

◎Standard equipments ●Option

●Cab · Light · Mirror	STD	Dozer
Pull up front window	◎	◎
Color monitor display(APC300)	◎	◎
4 points viscous dumping cab suspension	◎	◎
Slide and reclining seat	◎	◎
Seat suspension adjustable to operator's weight	●	●
Seat-belt	◎	◎
Automatic air conditioner (pressurized)	◎	◎
2 holes front window washer	◎	◎
Intermitted windshield wiper	◎	◎
Emergency escape hammer	◎	◎
FM/AM radio	◎	◎
Dual corn speaker x 2	◎	◎
Cabin light	◎	◎
2 STD Working lights (front right side, boom left side)	◎	◎
Optional working light (boom right side)	●	●
Optional working light (cab left side)	●	●
Rear view mirror (left side)	●	●
Tail view mirror	◎	◎
Magazine rack	◎	◎
Drink holder	◎	◎
Emergency switch to stop engine	◎	◎
Defroster	◎	◎
Floor mat	◎	◎
Foot rest	◎	◎
Arm rest	●	●
Ashtray cigar lighter	◎	◎
Tinted roof window	●	●
Openable roof window	◎	◎

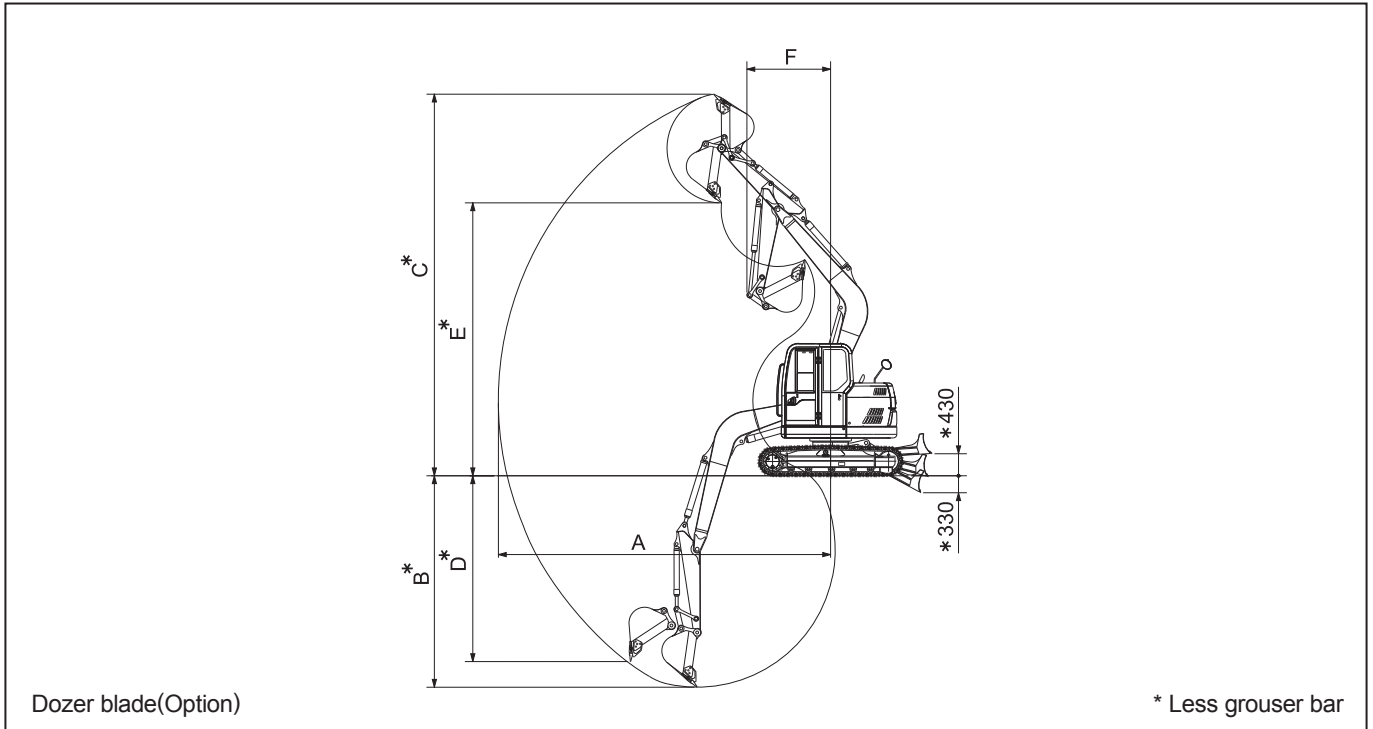
●System · Piping · Others	STD	Dozer
Working mode selector (APC300)	◎	◎
Auto-slow, one touch slow	◎	◎
2 speed modes for traveling	◎	◎
Boom/arm anti-drift valve	◎	◎
Slewing anti-counter action	◎	◎
Automatic parking brake	◎	◎
Service port (1 spool)	◎	◎
Under cover slewing table (thicker)	●	●
2 ways option piping (for breaker & crusher)	●	●
Relief valve for breaker	●	●
Boosting circuit for crusher	●	●
Multi-lever	●	●
Windshield half size guard *	●	●
Windshield full size guard *	●	●
Additional electric horn	●	●
Swing interlocking warning lamp	●	●
Buzzer traveling	●	●
Electric refueling pump	●	●
Fire extinguisher	●	●
Air cleaner double element	◎	◎
Specification for cold region	●	●
Designated paint	●	●
Increased counter weight (+500kg)	●	●
Tool set	◎	◎
Rear view monitor	●	●
Hydraulic lock lever	◎	◎
Tool box	◎	◎
Grease gun	◎	◎

\*Means cannot equip in the same time

●Working equipments	STD	Dozer	
Bucket	0.12m <sup>3</sup> bucket	●	●
	0.16m <sup>3</sup> bucket	●	●
	0.22m <sup>3</sup> bucket	●	●
	0.28m <sup>3</sup> bucket	◎	◎
	0.34m <sup>3</sup> bucket	●	●
	Slope forming bucket	●	●
	Plate to close spaces between teeth of bucket (0.12 ~ 0.34m <sup>3</sup> )	●	●
	Bucket reinforcement (selection of part)	●	●
Arm	Standard arm (1.62m)	◎	◎
	Long arm (2.07m)	●	●
	Various type of reinforced arm	●	●

●Traveling equipments		STD	Dozer
Grouser shoe	450mm	◎	◎
	600mm	●	●
Flat shoe	450mm	●	●
	600mm	●	●
Triangle shoe	700mm	●	●
Rubber pad	450mm	●	●
Pad crawler	450mm	●	●
Rubber crawler	450mm	●	●
Dozer blade	450mm shoe	●	◎
	600mm shoe	●	●
Cover on the bottom face of center frame		●	◎
Track guard	1 pc each side	●	●
	2 pcs each side	●	●

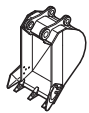
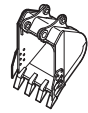
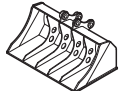
## WORKING RANGE



Unit : mm

	Standard arm (1.62m)	Long arm (2.07m)
A : Maximum digging radius	6,470	6,910
*B : Maximum digging depth	4,120	4,570
*C : Maximum digging height	7,430	7,800
*D : Maximum vertical wall	3,620	4,140
*E : Maximum dumping height	5,320	5,680
F : Minimum swing radius	1,630	2,010

## BUCKET

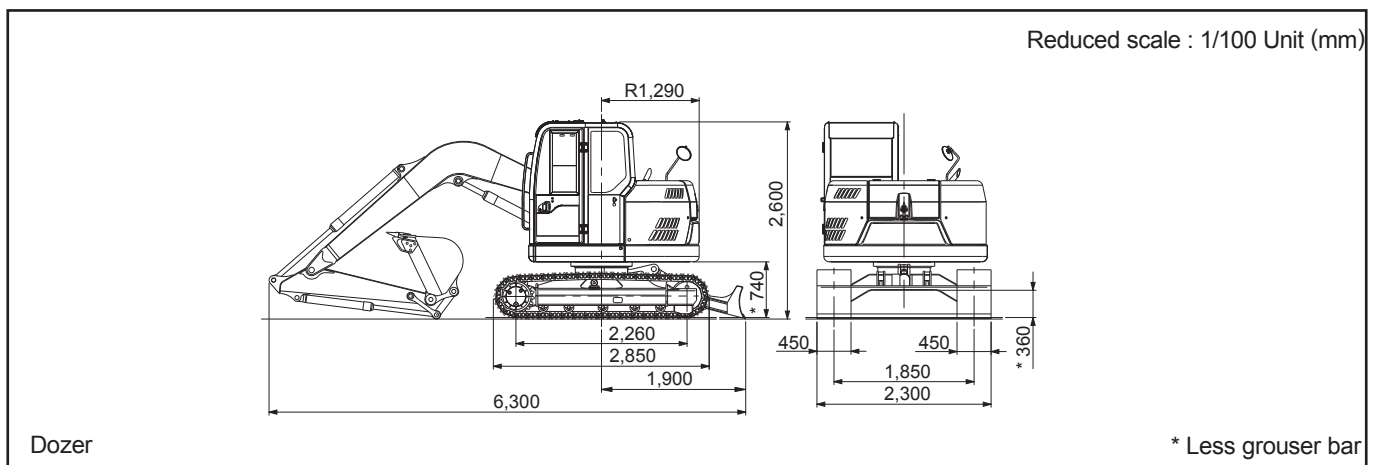
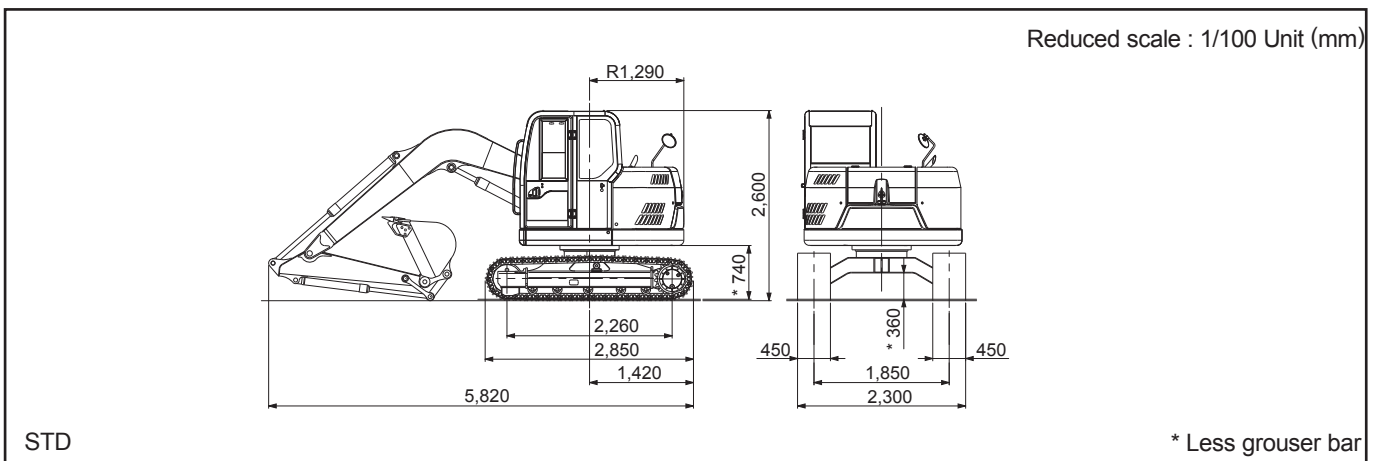
		Backhoe bucket					Slope forming bucket
Bucket capacity	m <sup>3</sup> , ISO	0.12	0.16	0.22	0.28	0.34	—
Bucket width(mm)	Without side cutters	370	440	555	650	770	1,400
	With side cutters	480	555	670	770	890	× 800
Number of bucket teeth		3	3	3	4	4	—
Shape of bucket							
Standard boom	Standard arm	●	●	●	●	▲	●
	Long arm	●	●	●	▲	×	▲

●General purpose ▲Light work ×No setting

## TRACK SHOES

		Grouser shoe		Pad crawler	Flat shoe	Triangle shoe	
Type of shoes							
Shoe width (mm)		450	600	450	450	600	700
Specifications for main body	Operating weight (kg)	7,300	7,400	7,300	7,600	7,600	7,700
	Overall height (mm)	2,600	2,600	2,630	2,610	2,640	2,640
	Ground clearance (mm)	* 360	* 360	410	390	* 360	* 360
	Crawler overall length (mm)	2,850	2,850	2,900	2,860	2,910	2,910
	Distance between shoe edge of both side (mm)	2,300	2,450	2,300	2,300	2,450	2,550
	Ground pressure [kPa(kgf/cm <sup>2</sup> )]	STD	32 (0.33)	25 (0.25)	32 (0.33)	34 (0.34)	25 (0.25)
	Dozer	34 (0.35)	27 (0.27)	35 (0.35)	37 (0.38)	27 (0.28)	—

## OVERALL VIEW



# REGZM HD512-6

## 【SPECIFICATION】

Model	HD512-6 (STD)	HD512LC-6 (LC)
Operating weight	12,500kg	12,900kg
Bucket capacity	0.25m <sup>3</sup> ~ 0.60m <sup>3</sup> (Standard bucket 0.50m <sup>3</sup> )	

### ■ Engine

Model	ISUZU 4JJ1X	
Type	4 cycle intercooler turbo charged diesel engine	
Rated output	75kW (102PS) / 2,000min <sup>-1</sup>	
Maximum torque	378N·m (38.5kgf·m) / 1,600min <sup>-1</sup>	

### ■ General dimensions

Overall length (in transport position)	7,650mm	
Overall height (in transport position)	2,800mm	
Overall width	2,490mm	
Minimum ground clearance	* 440mm	* 430mm
Tail swing radius	2,120mm	
Crawler overall length	3,570mm	3,740mm
Crawler shoes width	500mm	

### ■ Travel & swing system

Travel speed (High / Low)	5.8/3.3km/h	
Swing speed	13.0min <sup>-1</sup>	
Grade ability	70%	
Ground pressure	39kPa (0.40kgf/cm <sup>2</sup> )	38kPa (0.39kgf/cm <sup>2</sup> )

### ■ Digging force

Bucket digging force	94kN (9.6tonf) [98kN (10tonf) High power]
Arm digging force	68kN (6.9tonf) [71kN (7.2tonf) High power]

### ■ Hydraulic system

Hydraulic pump	Variable piston pump × 2 + gear pump
Swing motor	Fixed displacement piston motor
Traveling motor	Variable piston motor × 2
Control valves	3+4 section multiple control valves (with one free service circuit)
Discharge pressure	31.4MPa (320kgf/cm <sup>2</sup> ) [High-power 32.9MPa (335kgf/cm <sup>2</sup> )]

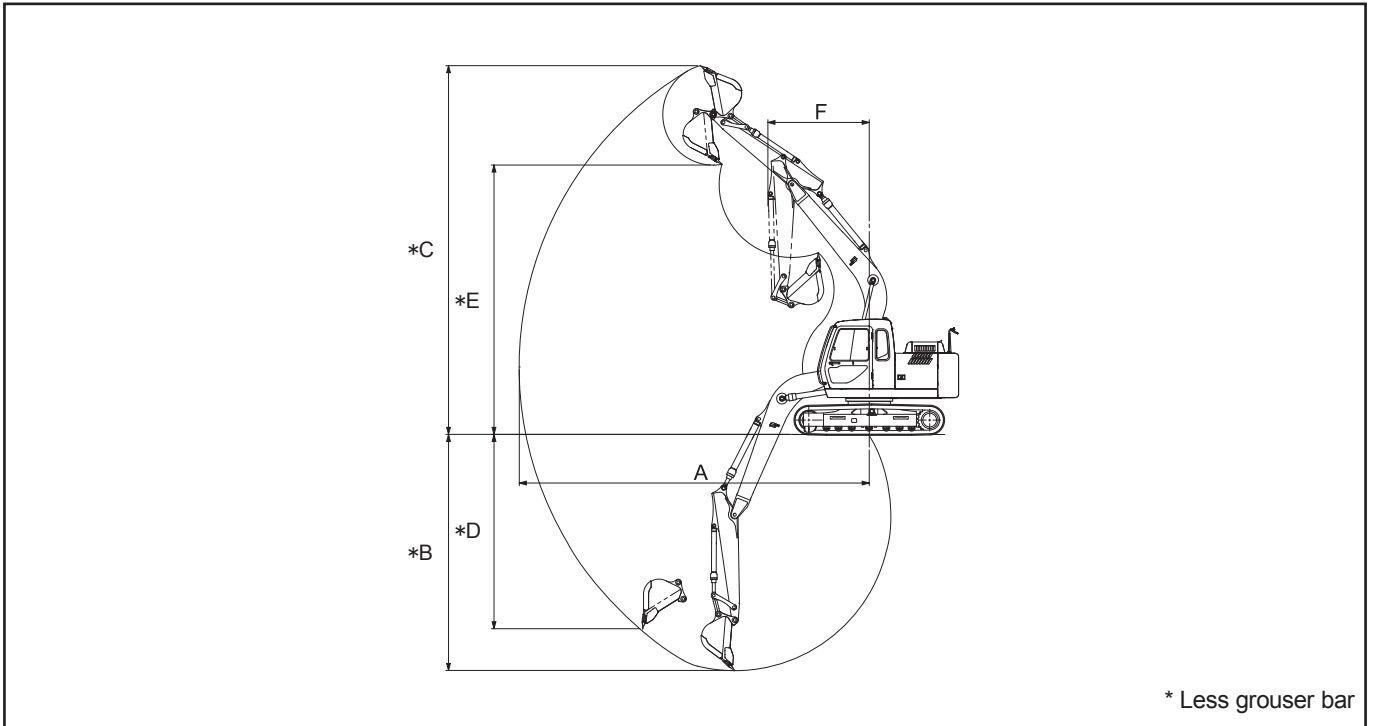
### ■ Tanks (volume)

Hydraulic oil tank	155L
Fuel tank	275L

\* Less grouser bar



## WORKING RANGE



Unit : mm

	Standard arm (2.50m)	Long arm (3.00m)
A : Maximum digging radius	8,310	8,780
* B : Maximum digging depth	5,600	6,100
* C : Maximum digging height	8,750	9,080
* D : Maximum vertical wall	4,610	5,360
* E : Maximum dumping height	6,390	6,720
F : Minimum swing radius	2,410	2,480

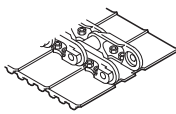
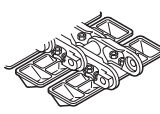
## BUCKET

		Backhoe bucket						
Bucket capacity	m <sup>3</sup> , ISO	0.25	0.35	0.40	0.45	0.50	0.55	0.60
Bucket width(mm)	Without side cutters	540	695	785	875	910	1,000	1,090
	With side cutters	630	785	875	965	1,000	1,090	1,180
Number of bucket teeth		3	4	4	4	5	5	5
Shape of bucket								
Standard boom	Standard arm (2.50m)	●	●	●	●	●	▲	□
	Long arm (3.00m)	●	●	●	▲	▲	×	×

●General purpose ▲Light work □Loading ○Usable ×Unusable —No setting

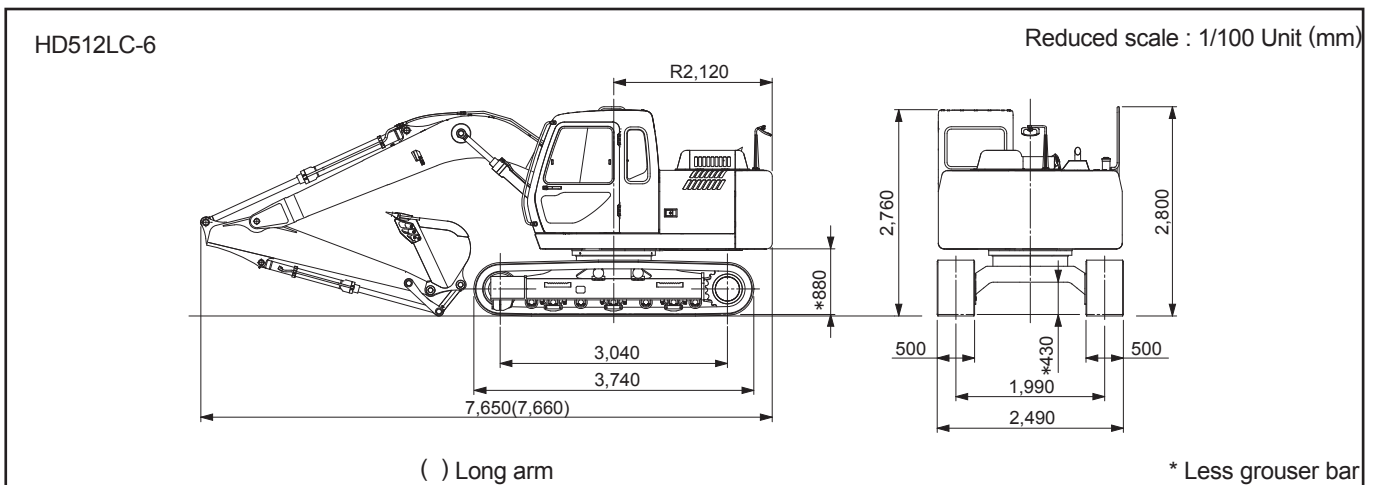
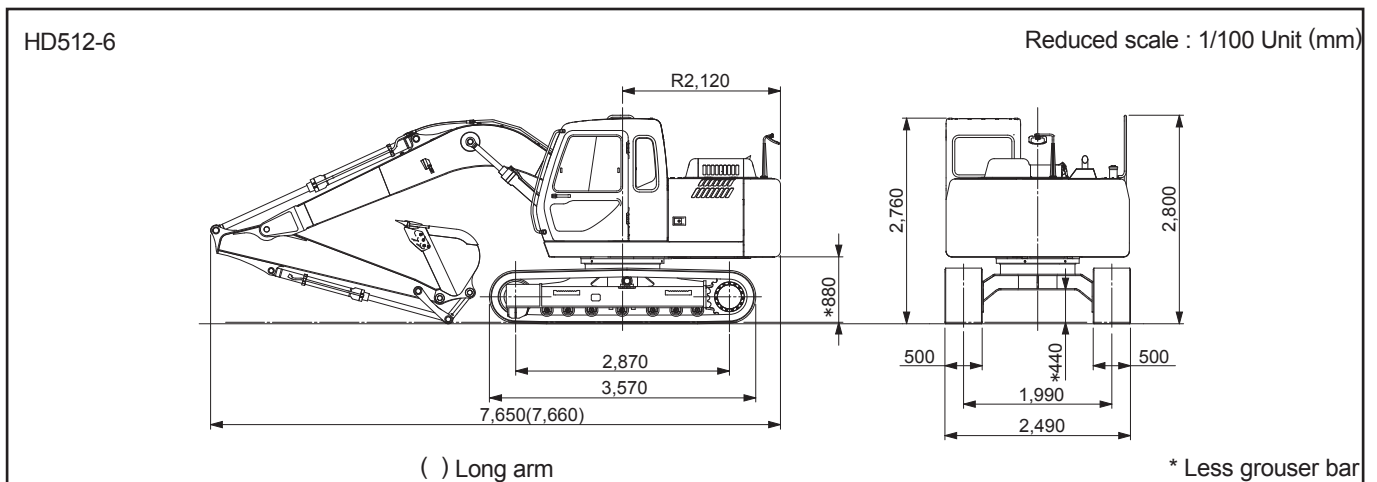


# TRACK SHOES

Type of shoes		Grouser shoe			Triangle shoe	
						
Shoe width	(mm)	500 [500 thicker]	600	700	700	
Specifications for main body	Operating weight	(kg)	12,500 [12,900]	12,700	13,000	12,900
	Overall height	(mm)	2,800	2,800	2,800	2,850
	Ground clearance	(mm)	* 440 [* 430]	* 440	* 440	* 430
	Crawler overall length	(mm)	3,570 [3,740]	3,570	3,570	3,670
	Distance between shoe edge of both side	(mm)	2,490	2,590	2,690	2,690
	Ground pressure	kPa	39 [38]	33	29	29
kgf/cm <sup>2</sup>		0.40 [0.39]	0.34	0.30	0.29	

Ground pressure when equip standard bucket and arm [ ] HD512LC-6  
 \* Less grouser bar

## OVERALL VIEW



**【SPECIFICATION】**

Model	HD513MR-6 (STD)	HD513MRLC-6 (LC)
Operating weight	13,700kg	14,100kg
Bucket capacity	0.25m <sup>3</sup> ~ 0.60m <sup>3</sup> (Standard bucket 0.50m <sup>3</sup> )	

**■Engine**

Model	ISUZU 4JJ1X	
Type	4 cycle intercooler turbo charged diesel engine	
Rated output	75kW (102PS) / 2,000min <sup>-1</sup>	
Maximum torque	378N·m (38.5kgf·m) / 1,600min <sup>-1</sup>	

**■General dimensions**

Overall length (in transport position)	7,460mm	7,540mm
Overall height (in transport position)	2,800mm	
Overall width	2,490mm	
Minimum ground clearance	* 440mm	* 430mm
Tail swing radius	1,700mm	
Crawler overall length	3,570mm	3,740mm
Crawler shoes width	500mm	

**■Travel & swing system**

Travel speed (High / Low)	5.8/3.3km/h	
Swing speed	13.0min <sup>-1</sup>	
Grade ability	70%	
Ground pressure	43kPa (0.44kgf/cm <sup>2</sup> )	42kPa (0.43kgf/cm <sup>2</sup> )

**■Digging force**

Bucket digging force	94kN (9.6tonf) [98kN (10tonf) High power]
Arm digging force	68kN (6.9tonf) [71kN (7.2tonf) High power]

**■Hydraulic system**

Hydraulic pump	Variable piston pump × 2 + gear pump
Swing motor	Fixed displacement piston motor
Traveling motor	Variable piston motor × 2
Control valves	3+4 section multiple control valves(with one free service circuit)
Discharge pressure	31.4MPa (320kgf/cm <sup>2</sup> ) [High-power 32.9MPa (335kgf/cm <sup>2</sup> )]

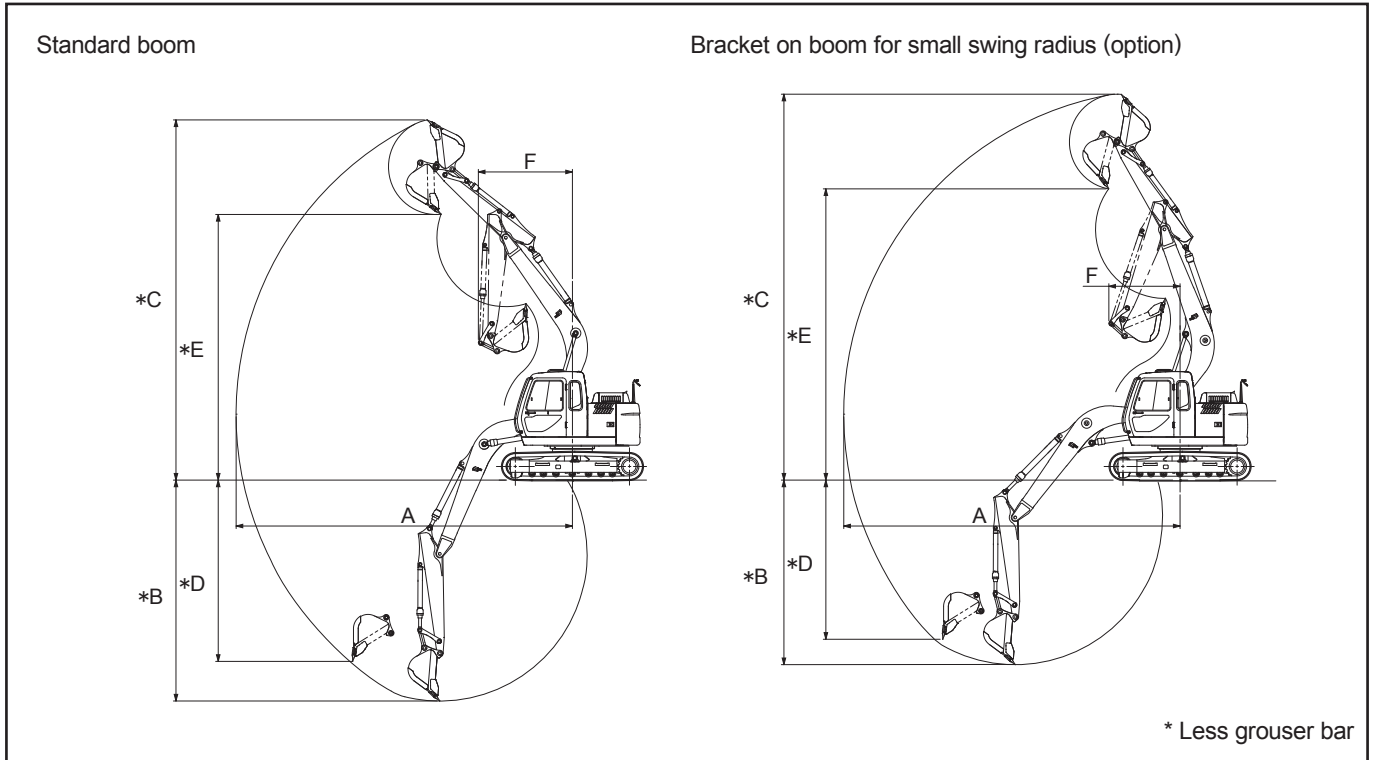
**■Tanks (volume)**

Hydraulic oil tank	155L
Fuel tank	220L

\* Less grouser bar



## WORKING RANGE



Unit : mm

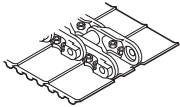
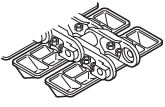
	Standard boom		Bracket on boom for small swing radius (option)	
	Standard arm (2.50m)	Long arm (3.00m)	Standard arm (2.50m)	Long arm (3.00m)
A : Maximum digging radius	8,460	8,930	8,460	8,930
* B : Maximum digging depth	5,560	6,060	4,640	5,140
* C : Maximum digging height	9,060	9,410	9,700	10,140
* D : Maximum vertical wall	4,560	5,300	4,000	4,570
* E : Maximum dumping height	6,680	7,030	7,320	7,760
F : Minimum swing radius	2,370	2,530	1,790	2,080

## BUCKET

		Backhoe bucket						
Bucket capacity	m <sup>3</sup> , ISO	0.25	0.35	0.40	0.45	0.50	0.55	0.60
Bucket width(mm)	Without side cutters	540	695	785	875	910	1,000	1,090
	With side cutters	630	785	875	965	1,000	1,090	1,180
Number of bucket teeth		3	4	4	4	5	5	5
Shape of bucket								
Standard boom	Standard arm (2.50m)	●	●	●	●	●	▲	□
	Long arm (3.00m)	●	●	●	▲	▲	×	×

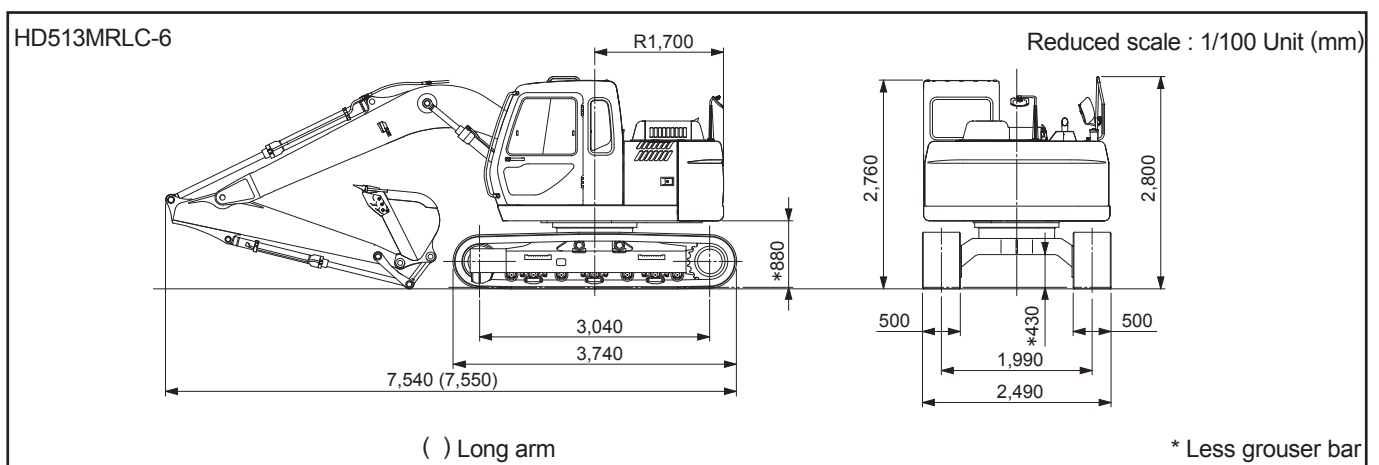
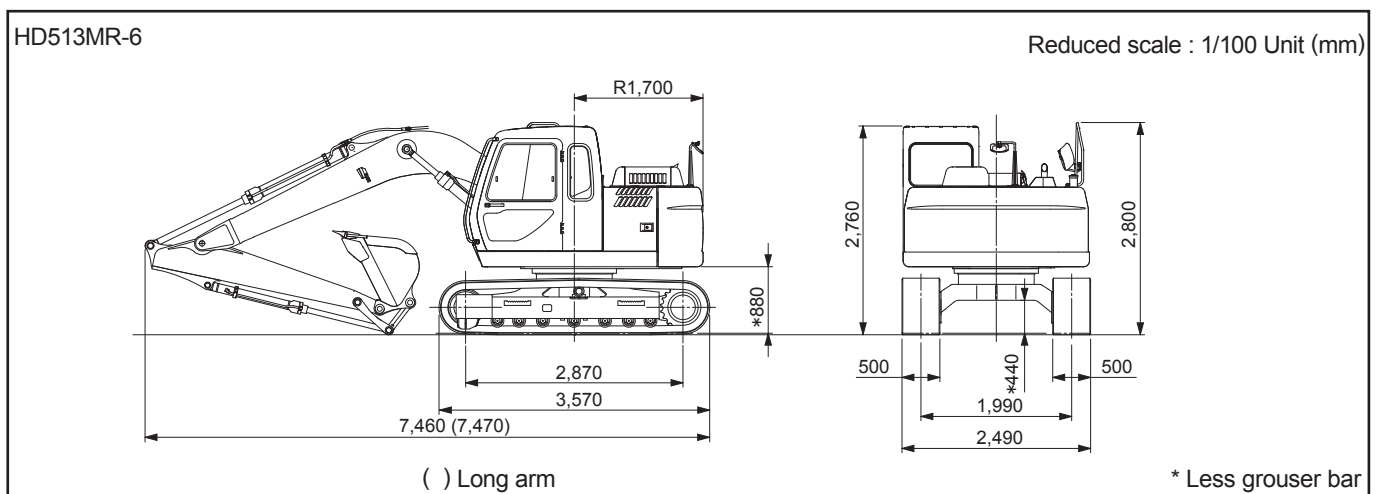
●General purpose    ▲Light work    □Loading    ○Usable    ×Unusable    —No setting

## TRACK SHOES

		Grouser shoe			Triangle shoe	
Type of shoes						
Shoe width	(mm)	500 [500 thicker]	600	700	700	
Specifications for main body	Operating weight	(kg)	13,700 [14,100]	13,900	14,200	14,200
	Overall height	(mm)	2,800	2,800	2,800	2,850
	Ground clearance	(mm)	* 440 [* 430]	* 440	* 440	* 430
	Crawler overall length	(mm)	3,570 [3,740]	3,570	3,570	3,670
	Distance between shoe edge of both side	(mm)	2,490	2,590	2,690	2,690
	Ground pressure	kPa	43 [42]	36	32	31
kgf/cm <sup>2</sup>		0.44 [0.43]	0.37	0.33	0.32	

Ground pressure when equip standard bucket and arm [ ] HD513MRLC-6  
 \* Less grouser bar

## OVERALL VIEW



# REGZM HD820-6

## 【SPECIFICATION】

Model	HD820-6 (STD)	HD820LC-6 (LC)
Operating weight	20,200kg	20,700kg
Bucket capacity	0.45m <sup>3</sup> ~ 1.1m <sup>3</sup> (Standard bucket 0.8m <sup>3</sup> )	

### ■ Engine

Model	MITSUBISHI 4M50-TLE3BA
Type	4 cycle intercooler turbo charged diesel engine
Rated output	112.5kW (153PS) / 2,000min <sup>-1</sup>
Maximum torque	564N·m (57.5kgf·m) / 1,600min <sup>-1</sup>

### ■ General dimensions

Overall length (in transport position)	9,450mm	
Overall height (in transport position)	2,960mm	
Overall width	2,820mm	2,990mm
Minimum ground clearance	* 465mm	
Tail swing radius	2,750mm	
Crawler overall length	4,170mm	4,460mm
Crawler shoes width	600mm	

### ■ Travel & swing system

Travel speed (High / Low)	5.5/3.6km/h	
Swing speed	13.5min <sup>-1</sup>	
Grade ability	70%	
Ground pressure	45kPa (0.46kgf/cm <sup>2</sup> )	43kPa (0.44kgf/cm <sup>2</sup> )

### ■ Digging force

Bucket digging force	150kN (15.2tonf) [159kN (16.2tonf) High power]
Arm digging force	109kN (11.1tonf) [115kN (11.7tonf) High power]

### ■ Hydraulic system

Hydraulic pump	Variable piston pump × 2 + gear pump
Swing motor	Fixed displacement piston motor
Traveling motor	Variable piston motor × 2
Control valves	5+4 section multiple control valves(with one free service circuit)
Discharge pressure	34.3MPa (350kgf/cm <sup>2</sup> ) [High power 36.3MPa (370kgf/cm <sup>2</sup> )]

### ■ Tanks (volume)

Hydraulic oil tank	260L
Fuel tank	420L

\* Less grouser bar

# STANDARD EQUIPMENTS

◎Standard equipments ●Option —No setting

## ●Cab · Light · Mirror

	HD920-6	HD920L-C-6
Pull up front window	◎	◎
Transparent roof hatch with sun visor	●	●
Color monitor display(APC300)	◎	◎
6 points viscous dumping cab	◎	◎
Double slide operator seat	◎	◎
Seat suspension adjustable to operator's weight	◎	◎
Seat-belt	◎	◎
Automatic air conditioner (pressurized)	◎	◎
Hot & cool box	◎	◎
2 holes front window washer	◎	◎
Intermitted windshield wiper	◎	◎
Emergency exit rear window	◎	◎
AM/FM radio	◎	◎
12 volt power supply	●	●
13 cm dual corn speaker x2	◎	◎
Cabin light	◎	◎
3 std working lights (slewing table, boom left side, cab left side)	◎	◎
Optional working light (boom right side)	●	●
Optional working light (cab right side)	●	●
Rear view mirror (right & left side)	◎	◎
Cab for crusher	●	●
Step on side of cab	●	●

## ●Working equipments

Bucket	0.45m <sup>3</sup> Bucket	●	●
	0.55m <sup>3</sup> Bucket	●	●
	0.8m <sup>3</sup> Bucket	◎	◎
	0.9m <sup>3</sup> Bucket	●	●
	1.0m <sup>3</sup> Bucket	●	●
	1.1m <sup>3</sup> Bucket	●	●
	0.8m <sup>3</sup> Reinforced bucket	●	●
	0.9m <sup>3</sup> Reinforced bucket	●	●
	Slope forming bucket	●	●
Arm	Exchangeable kit	●	●
	Short Arm (2.43m)	●	●
	STD Arm (2.93m)	◎	◎
	Long Arm (3.92m)	●	●
Boom	Various type of reinforced arm	●	●
	Standard boom (5.63m)	◎	◎
	Reinforced boom (5.63m)	●	●
	Bracket on standard boom for small swing radius	●	●
Link	Bracket on reinforced boom for small swing radius	●	●
	Standard side link	◎	◎
	Reinforced side link	●	●

## ●System · Piping · Others

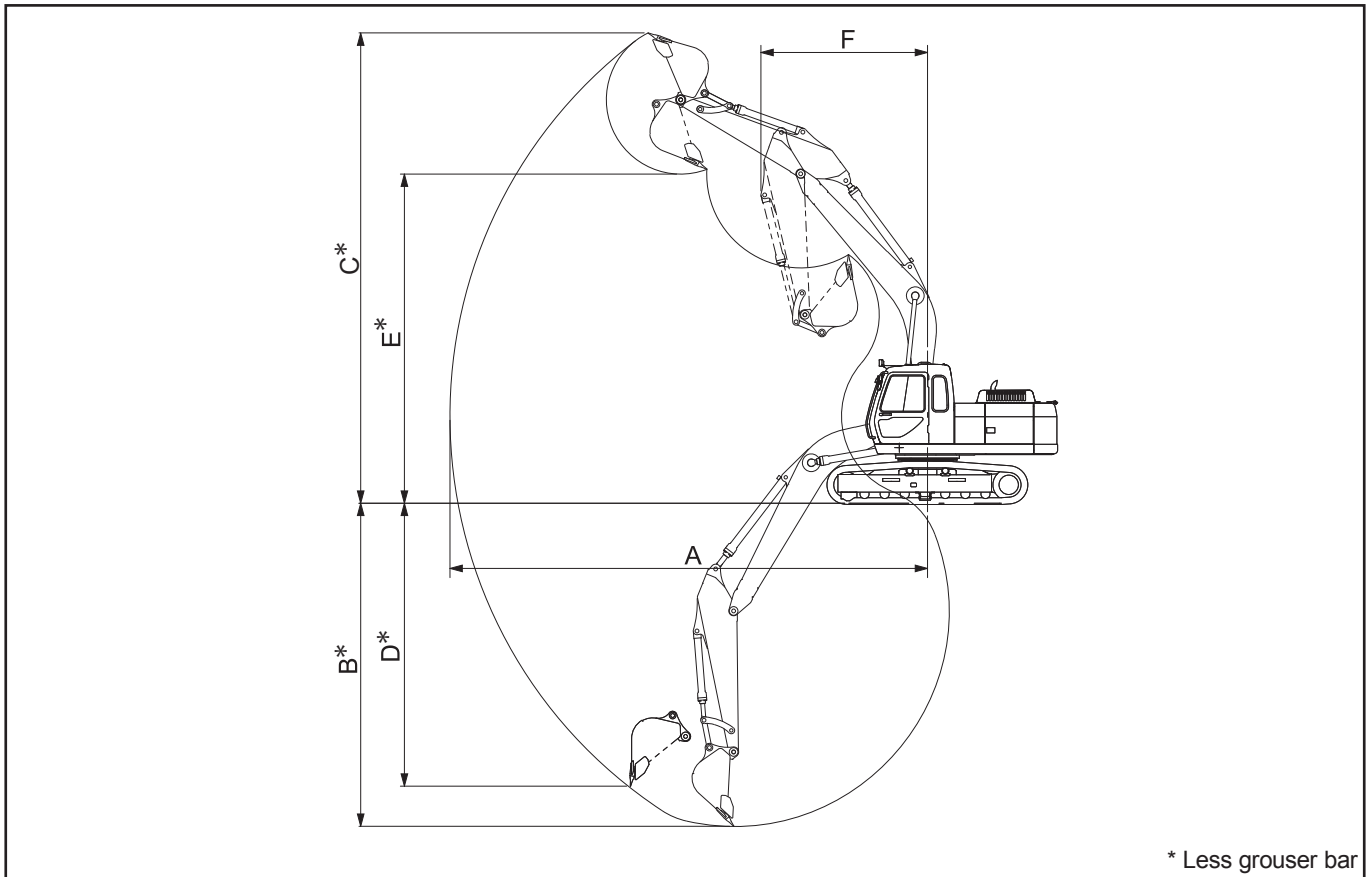
	HD920-6	HD920L-C-6
Working mode selector (APC300)	◎	◎
Auto-slow, one touch slow	◎	◎
Automatic transmission for traveling	◎	◎
2 speed modes for traveling	◎	◎
Boom/arm anti-drift valve	◎	◎
Slewing anti-counter action	◎	◎
Automatic parking brake (slewing)	◎	◎
Automatic parking brake (traveling)	◎	◎
Service port (1 spool)	◎	◎
Hose rupture valve	●	●
Fire wall	◎	◎
Under cover slewing table (thicker)	●	●
2 ways option piping (for breaker & crusher)	●	●
Boosting circuit for crusher	●	●
Additional piping (for rotator)	●	●
Multi-lever	●	●
Windshield half size guard *	●	●
Windshield full size guard *	●	●
Cabin head guard	●	●
Additional electric horn	●	●
Swing interlocking warning lamp	●	●
Buzzer traveling	●	●
Electric refueling pump	●	●
Fire extinguisher	●	●
Loud speaker	●	●
Air cleaner double element	◎	◎
Pre-cleaner	●	●
Specification for cold region	●	●
Designated paint	●	●
Tool set	◎	◎
Increased weight ( + 400kg)	●	●
Increased weight ( + 800kg)	●	●
Slewing strengthen frame	●	●
Rear view monitor	◎	◎
Fall prevention guard	●	●
Battery disconnect switch	●	●

\*Means cannot equip in the same time

## ●Traveling equipments

Grouser shoe	600mm	◎	◎
	700mm	●	●
	800mm	●	●
Flat shoe	800mm	●	●
	900mm	●	●
Triangle shoe	600mm	●	●
	800mm	●	●
Rubber pad	600mm	●	●
	800mm	●	●
Cover on the bottom face of traveling		●	●
Traveling motor cover (thicker)		●	●
Track guard	1 pc each side	◎	◎
	3 pcs each side	●	●

## WORKING RANGE



Unit : mm

	Short arm (2.43m)	Standard arm (2.93m)	Long arm (3.92m)
A : Maximum digging radius	9,470	9,910	10,840
* B : Maximum digging depth	6,210 [6,200]	6,700 [6,690]	7,700 [7,690]
* C : Maximum digging height	9,550 [9,560]	9,760 [9,770]	10,300 [10,310]
* D : Maximum vertical wall	5,350 [5,340]	5,870 [5,860]	7,060 [7,050]
* E : Maximum dumping height	6,620 [6,630]	6,830 [6,840]	7,340 [7,350]
F : Minimum swing radius	3,580	3,460	3,400

[ ] HD820LC-6

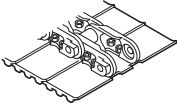
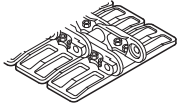
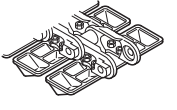
## BUCKET

		Backhoe bucket						Slope forming bucket
Bucket capacity	m <sup>3</sup> , ISO	0.45	0.55	0.80	0.90	1.0	1.1	—
Bucket width(mm)	Without side cutters	650	800	1,020	1,190	1,270	1,400	2,000 × 1,250
	With side cutters	760	910	1,130	1,300	1,380	—	
Number of bucket teeth		4	4	5	5	6	6	—
Shape of bucket								
Standard boom	Short arm	●	●	●	●	▲[●]	□	○
	Standard arm	●	●	●	●	▲[●]	□	○
	Long arm	●	●	▲	×[▲]	×	×	○

●General purpose ▲Light work □Loading ○Usable ×Unusable —No setting [ ] for HD820LC-6

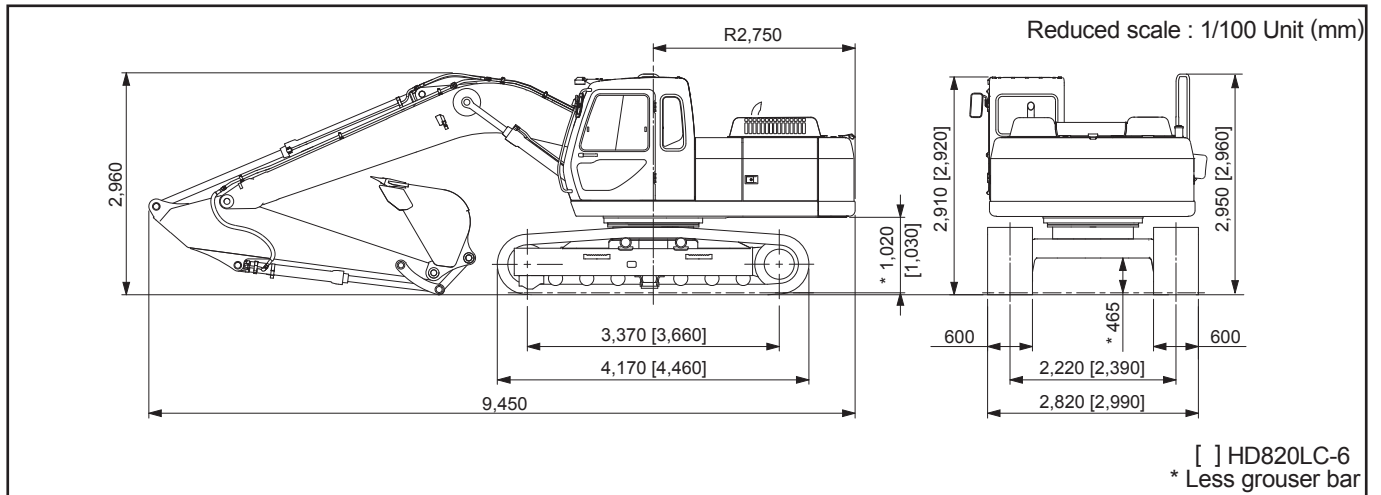


## TRACK SHOES

		Grouser shoe				Flat shoe	Triangle shoe
Type of shoes							
Shoe width (mm)		600	700	800	900	600	800
Specifications for main body	Operating weight (kg)	20,200[20,700]	20,700[21,200]	20,900[21,400]	21,200[21,700]	21,100[21,600]	21,700[22,300]
	Overall height (mm)	2,960	2,960	2,960	2,960	2,970[2,980]	3,020[3,030]
	Ground clearance (mm)	* 465	* 465	* 465	* 465	510	* 505
	Crawler overall length (mm)	4,170 [4,460]	4,170 [4,460]	4,170 [4,460]	4,170 [4,460]	4,200 [4,490]	4,280 [4,570]
	Distance between shoe edge of both side (mm)	2,820 [2,990]	2,920 [3,090]	3,020 [3,190]	3,120 [3,290]	2,820 [2,990]	3,020 [3,190]
	Ground pressure	kPa	45 [43]	40 [38]	35 [33]	32 [30]	47 [45]
kgf/cm <sup>2</sup>		0.46 [0.44]	0.40 [0.38]	0.36 [0.34]	0.32 [0.31]	0.48 [0.46]	0.37 [0.35]

Ground pressure when equip standard bucket and arm [ ] HD820LC-6  
\* Less grouser bar

## OVERALL VIEW



# REGZM HD823<sub>MR</sub>-6

## 【SPECIFICATION】

Model	HD823MR-6 (STD)	HD823MRLC-6 (LC)
Operating weight	22,400kg	23,100kg
Bucket capacity	0.45m <sup>3</sup> ~ 1.1m <sup>3</sup> (standard bucket 0.8m <sup>3</sup> )	

### ■ Engine

Model	MITSUBISHI 4M50-TLE3BA	
Type	4 cycle intercooler turbo charged diesel engine	
Rated output	112.5kW (153PS) / 2,000min <sup>-1</sup>	
Maximum torque	564N·m (57.5kgf·m) / 1,600min <sup>-1</sup>	

### ■ General dimensions

Overall length (in transport position)	8,830mm	8,970mm
Overall height (in transport position)	2,960mm	2,960mm
Overall width	2,820mm	2,990mm
Minimum ground clearance	* 465mm	
Tail swing radius	2,030mm	
Crawler overall length	4,170mm	4,460mm
Crawler shoes width	600mm	

### ■ Travel & swing system

Travel speed (High / Low)	5.5/3.6km/h	
Swing speed	13.5min <sup>-1</sup>	
Grade ability	70%	
Ground pressure	50kPa (0.51kgf/cm <sup>2</sup> )	48kPa (0.49kgf/cm <sup>2</sup> )

### ■ Digging force

Bucket digging force	150kN (15.2tonf) [159kN (16.2tonf) High power]
Arm digging force	109kN (11.1tonf) [115kN (11.7tonf) High power]

### ■ Hydraulic system

Hydraulic pump	Variable piston pump × 2 + gear pump
Swing motor	Fixed displacement piston motor
Traveling motor	Variable piston motor × 2
Control valves	5+4 section multiple control valves (with one free service circuit)
Discharge pressure	34.3MPa (350kgf/cm <sup>2</sup> ) [High power 36.3MPa (370kgf/cm <sup>2</sup> )]

### ■ Tanks (volume)

Hydraulic oil tank	270L
Fuel tank	330L

\* Less grouser bar

# STANDARD EQUIPMENTS

◎ Standard equipments ● Option – No setting

## ● Cab · Light · Mirror

	HD823MR-6	HD823MRLC-6
Pull up front window	◎	◎
Transparent roof hatch with sun visor	●	●
Color monitor display (APC300)	◎	◎
6 points viscous dumping cab	◎	◎
Double slide operator seat	◎	◎
Seat suspension adjustable to operator's weight	◎	◎
Seat-belt	◎	◎
Automatic air conditioner (pressurized)	◎	◎
Hot & cool box	◎	◎
2 holes front window washer	◎	◎
Intermitted windshield wiper	◎	◎
Emergency exit rear window	◎	◎
AM/FM radio	◎	◎
12 volt power supply	●	●
13 cm dual corn speaker x2	◎	◎
Cabin light	◎	◎
3 std working lights (slewing table, boom left side, cab left side)	◎	◎
Optional working light (boom right side)	●	●
Optional working light (cab right side)	●	●
Rear view mirror (right & left side)	◎	◎
Cab for crusher	●	●
Step on side of cab	●	●

## ● Working equipments

Bucket	0.45m <sup>3</sup> Bucket	●	●
	0.55m <sup>3</sup> Bucket	●	●
	0.8m <sup>3</sup> Bucket	◎	◎
	0.9m <sup>3</sup> Bucket	●	●
	1.0m <sup>3</sup> Bucket	●	●
	1.1m <sup>3</sup> Bucket	●	●
	0.8m <sup>3</sup> Reinforced bucket	●	●
	0.9m <sup>3</sup> Reinforced bucket	●	●
	Slope forming bucket	●	●
	Exchangeable kit	●	●
Arm	Short arm (2.43m)	●	●
	STD arm (2.93m)	◎	◎
	Long arm (3.92m)	●	●
	Various type of reinforced arm	●	●
Boom	Standard boom (5.63m)	◎	◎
	Reinforced boom (5.63m)	●	●
	Bracket on standard boom for small swing radius	●	●
	Bracket on reinforced boom for small swing radius	●	●
Link	Standard side link	◎	◎
	Reinforced side link	●	●

## ● System · Piping · Others

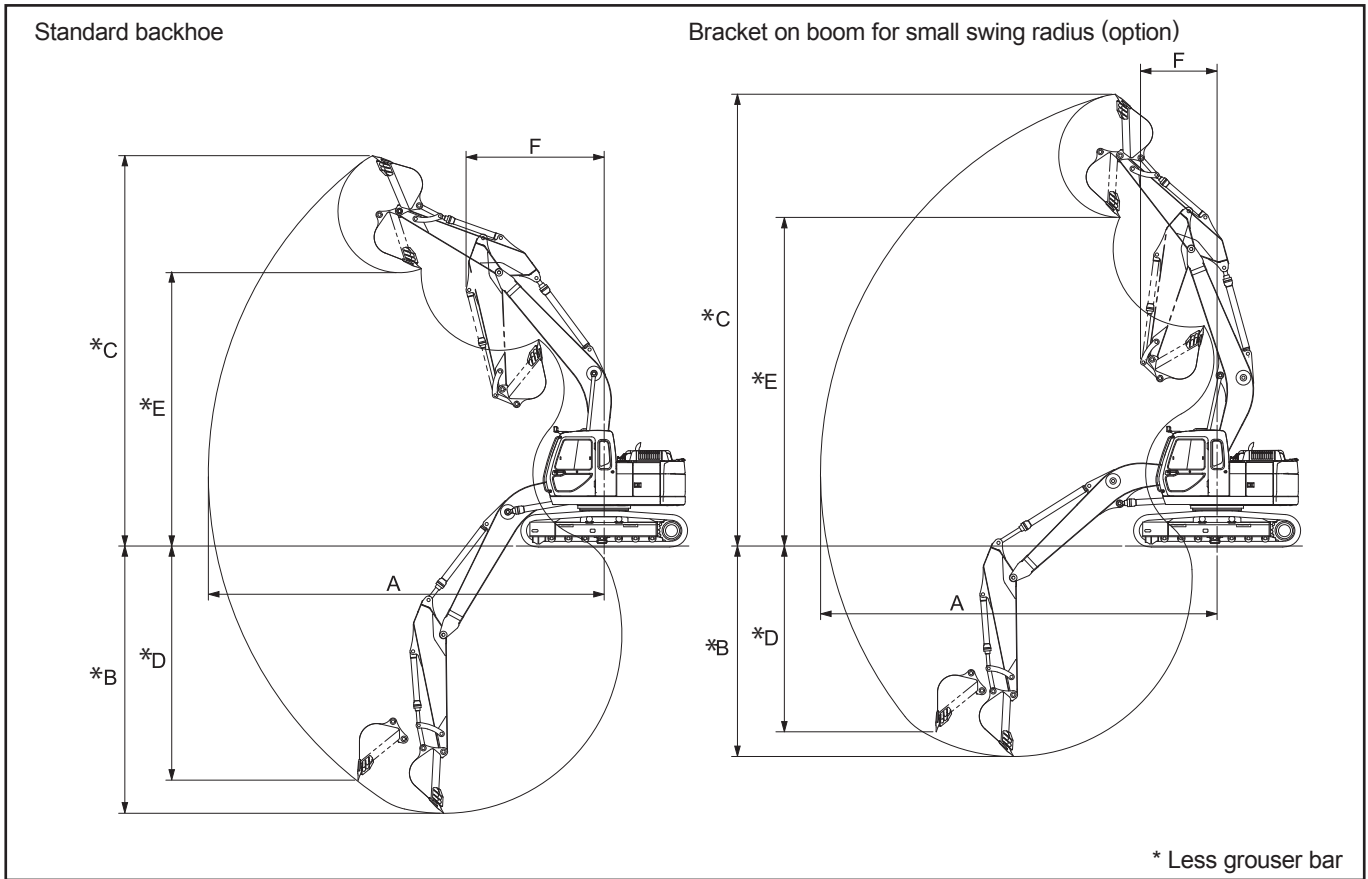
	HD823MR-6	HD823MRLC-6
Working mode selector (APC300)	◎	◎
Auto-slow, one touch slow	◎	◎
Automatic transmission for traveling	◎	◎
2 speed modes for traveling	◎	◎
Boom/arm anti-drift valve	◎	◎
Slewing anti-counter action	◎	◎
Automatic parking brake (slewing table)	◎	◎
Automatic parking brake (traveling)	◎	◎
Service port (1 spool)	◎	◎
Hose rupture valve	●	●
Fire wall	◎	◎
Under cover slewing table (thicker)	●	●
2 ways option piping (for crusher & breaker)	●	●
Boosting circuit for crusher	●	●
Multi-lever	●	●
Select lever	●	●
Windshield half size guard *	●	●
Windshield full size guard *	●	●
Cabin head guard	●	●
Additional electric horn	●	●
Buzzer traveling	●	●
Swing interlocking warning lamp	●	●
Electric refueling pump	●	●
Fire extinguisher	●	●
Loud speaker	●	●
Air cleaner double element	◎	◎
Pre-cleaner	●	●
Specification for cold region	●	●
Designated paint	●	●
Tool set	◎	◎
Rear view monitor	◎	◎
Fall prevention guard	●	●
Battery disconnect switch	●	●

\*Means cannot equip in the same time

## ● Traveling equipments

Grouser shoe	600mm	◎	◎
	700mm	●	●
	800mm	●	●
Flat shoe	600mm	●	●
	800mm	●	●
Triangle shoe	600mm	●	●
	800mm	●	●
Rubber pad	600mm	●	●
	800mm	●	●
Cover on the bottom face of traveling		●	●
Traveling motor cover (thicker)		●	●
Track guard	1 pc each side	◎	◎
	3 pcs each side	●	●

# WORKING RANGE



Unit : mm

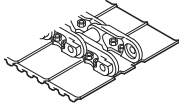
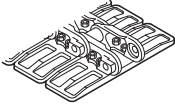
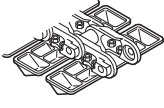
	Standard backhoe			Bracket on boom for small swing radius (option)		
	Short arm (2.43m)	Standard arm (2.93m)	Long arm (3.92m)	Long arm (2.43m)	Standard arm (2.93m)	Long arm (3.92m)
A : Maximum digging radius	9,470	9,910	10,840	9,470	9,910	10,480
* B : Maximum digging depth	6,200	6,690	7,690	4,760	5,260	6,260
* C : Maximum digging height	9,550	9,770	10,310	10,930	11,290	12,080
* D : Maximum vertical wall	5,340	5,860	7,050	4,150	4,640	5,650
* E : Maximum dumping height	6,700	6,840	7,350	7,850	8,210	9,010
F : Minimum swing radius	3,580	3,460	3,400	1,980	1,910	2,110

# BUCKET

		Backhoe bucket						Slope forming bucket
Bucket capacity	m <sup>3</sup> , ISO	0.45	0.55	0.80	0.90	1.0	1.1	—
Bucket width(mm)	Without side cutters	650	800	1,020	1,190	1,270	1,400	2,000
	With side cutters	760	910	1,130	1,300	1,380	—	× 1,250
Number of bucket teeth		4	4	5	5	6	6	—
Shape of bucket								
Standard boom	Short arm	●	●	●	●	▲[●]	□	○
	Standard arm	●	●	●	●	▲[●]	□	○
	Long arm	●	●	▲	▲	×	×	○
	Extension arm (1,500mm)	●	×	×	×	×	×	×

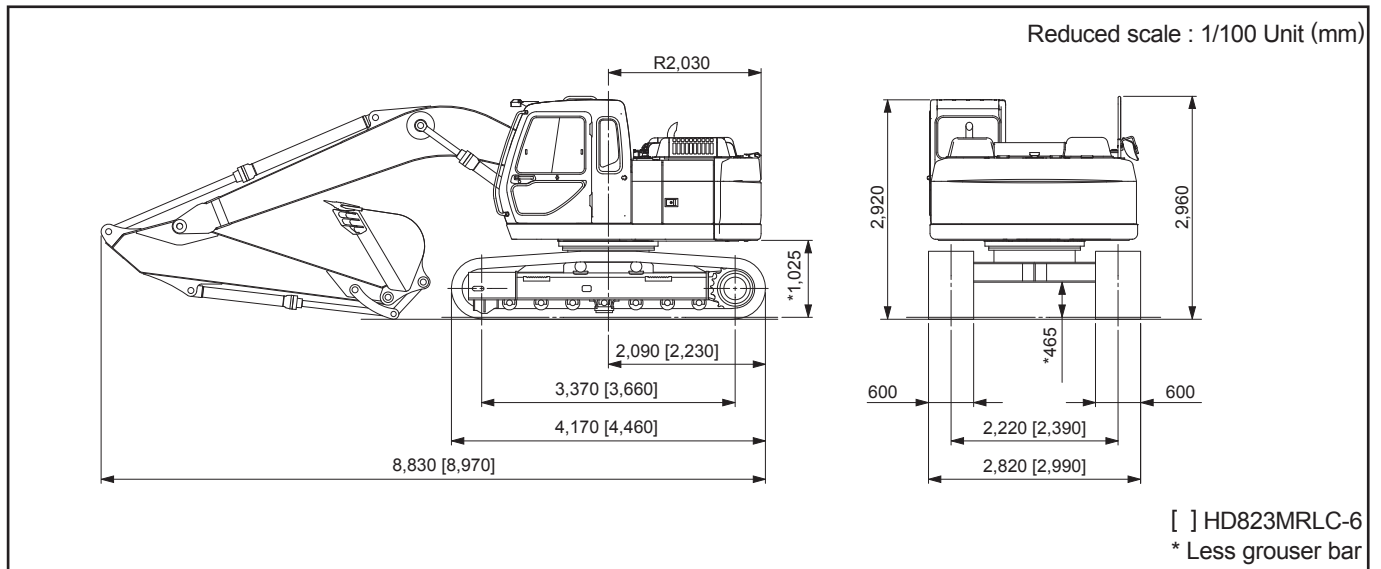
●General purpose ▲Light work □Loading ○Usable ×Unusable —No setting [ ] for HD823MRLC-6

## TRACK SHOES

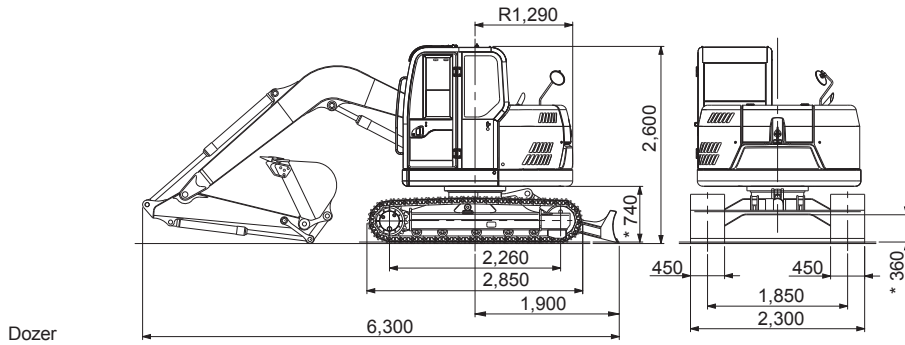
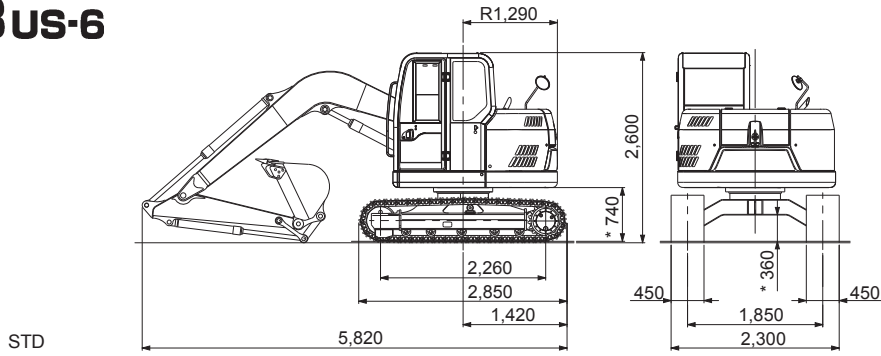
		Grouser shoe				Flat shoe	Triangle shoe
Type of shoes							
Shoe width (mm)		600	700	800	900	600	800
Specifications for main body	Operating weight (kg)	22.3 [23.0]	22.7 [23.3]	23.0 [23.6]	23.2 [23.9]	23.2 [23.8]	23.7 [24.4]
	Overall height (mm)	2,960	2,960	2,960	2,960	2,960	3,000
	Ground clearance (mm)	* 465	* 465	* 465	* 465	510	* 505
	Crawler overall length (mm)	4,170 [4,460]	4,170 [4,460]	4,170 [4,460]	4,170 [4,460]	4,200 [4,490]	4,280 [4,570]
	Distance between shoe edge of both side (mm)	2,820 [2,990]	2,920 [3,090]	3,020 [3,190]	3,120 [3,290]	2,820 [2,990]	3,020 [3,190]
	Ground pressure	kPa	50 [48]	44 [41]	39 [37]	35 [33]	52 [49]
kgf/cm <sup>2</sup>		0.51 [0.49]	0.44 [0.42]	0.39 [0.37]	0.35 [0.34]	0.53 [0.50]	0.41 [0.39]

Ground pressure when equip standard bucket and arm [ ] HD823MRLC-6  
\* Less grouser bar

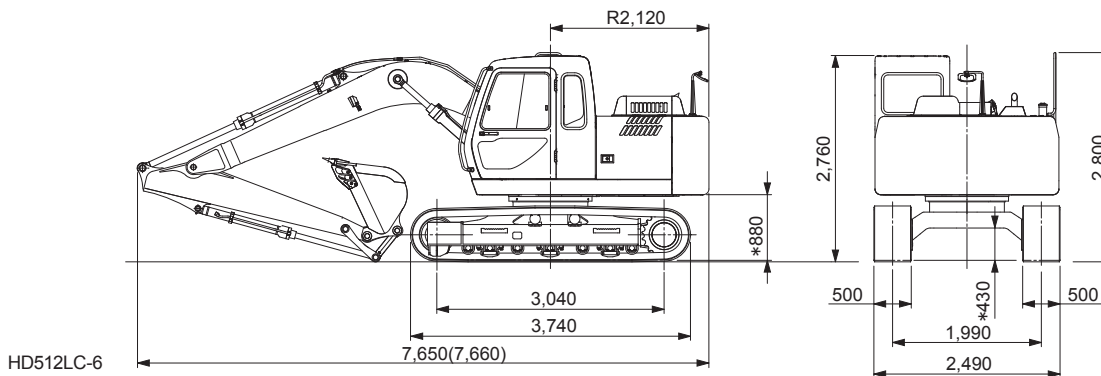
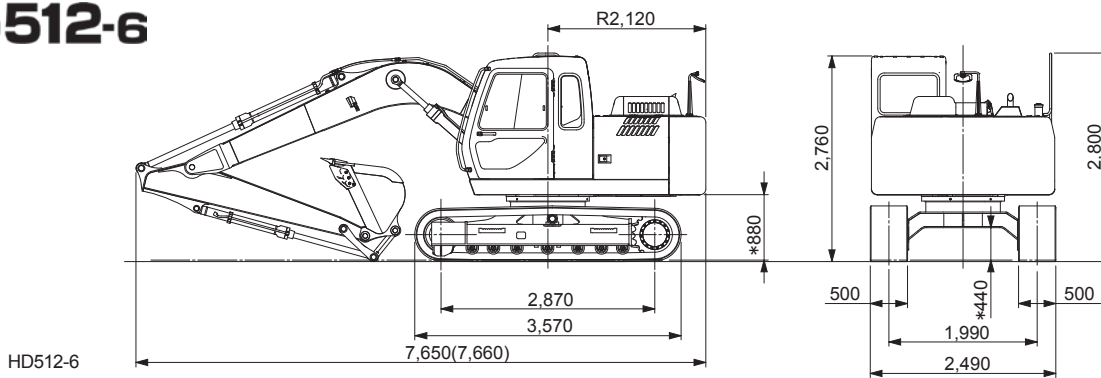
## OVERALL VIEW



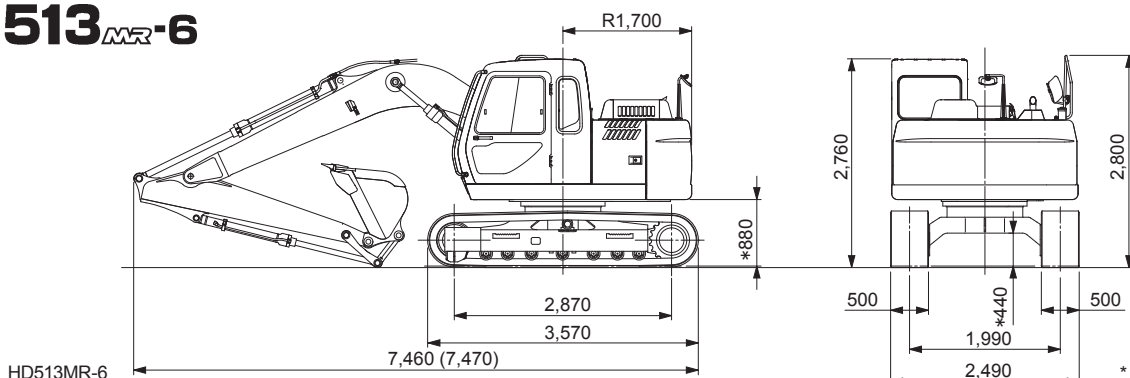
## HD308US-6



## HD512-6



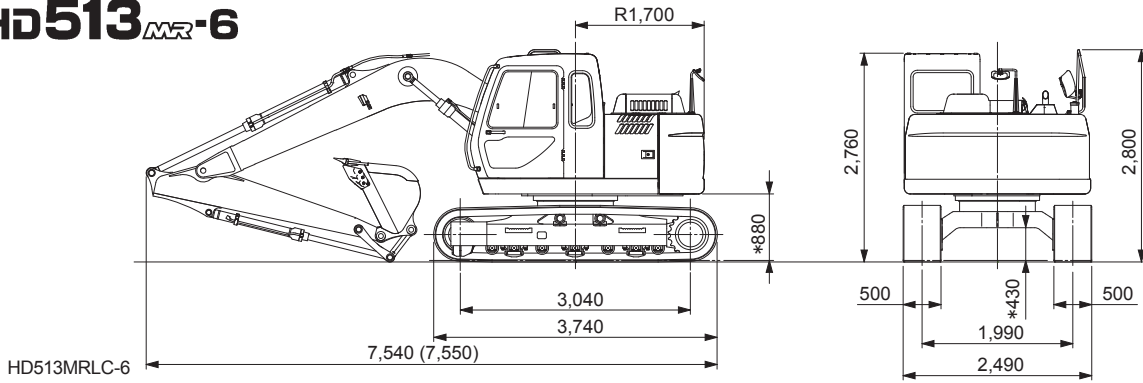
## HD513<sub>MR</sub>-6



( ) Long arm

\* Less grouser bar  
Reduced scale: 1/100 Unit (mm)

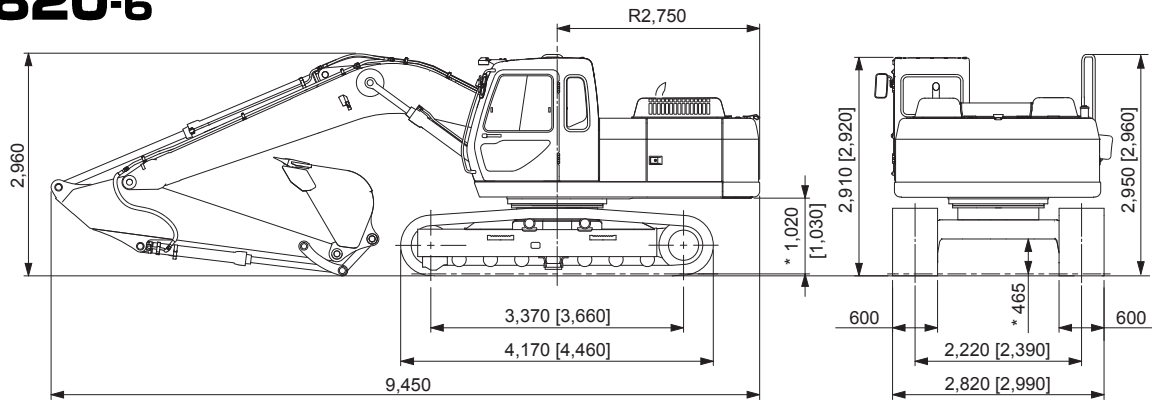
# HD513<sub>MR</sub>-6



HD513MRLC-6

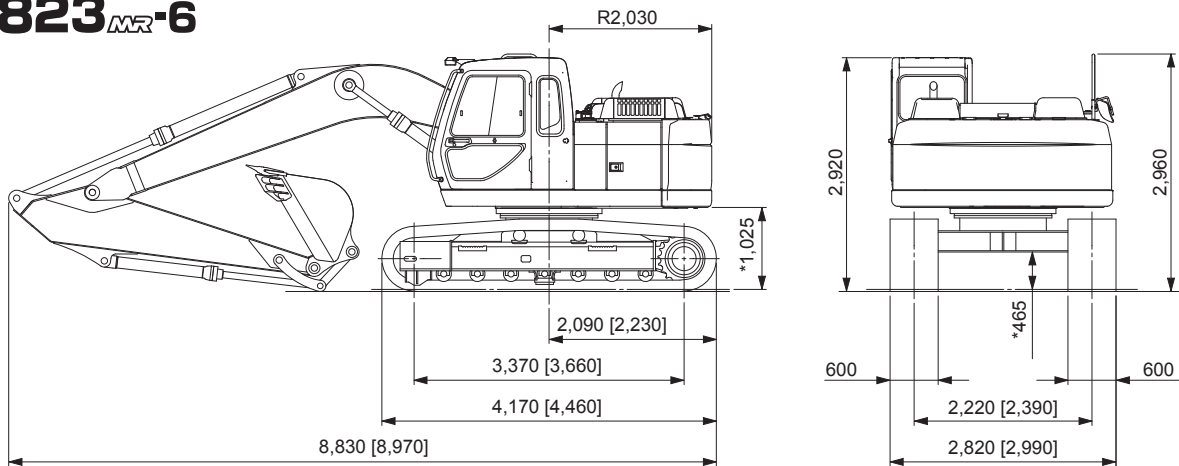
( ) Long arm

# HD820-6



[ ] HD820LC-6

# HD823<sub>MR</sub>-6



[ ] HD823MRLC-6

\* Less grouser bar  
Reduced scale: 1/100 Unit (mm)

\* KATO products and specifications are subject to improvements and changes without notice.

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We acquired the "ISO 9001" certification which is an international standard for quality assurance.