# KATO

**FULLY HYDRAULIC EXCAVATORS** 



HD308us-6
HD512-6
HD513AAR-6
HD820-6
HD823AAR-6





### REGZM HD308us-6

#### **[SPECIFICATION]**

Model	HD308US-6	HD308US-6 Dozer		
Operating weight	7,300kg 7,800kg			
Bucket capacity	0.12m³ ~ 0.34m³ (Standard bucket 0.28m³)			
■Engine				
Model	ISUZU A	P-4LE2X		
Туре	4 cycle intercooler turbo	charged diesel engine		
Rated output	40.0kW (54PS	S) / 2,000min <sup>-1</sup>		
Maximum torque	204N·m (20.8kg	f•m) / 1,800min <sup>-1</sup>		
■General dimensions				
Overall length (in transport position)	5,820mm	6,300mm		
Overall height (in transport position)	2,60	0mm		
Overall width	2,30	0mm		
Minimum ground clearance	* 360	Omm .		
Tail swing radius	1,29	0mm		
Crawler overall length	2,85	0mm		
Crawler shoes width	450	mm		
■Travel & swing system				
Travel speed (High / Low)	5.0/3.			
Swing speed	10.0	min <sup>-1</sup>		
	70%			
Grade ability				
Grade ability Ground pressure	32kPa (0.33kgf/cm²)	34kPa (0.35kgf/cm²)		
· · · · · · · · · · · · · · · · · · ·				
Ground pressure	32kPa (0.33kgf/cm²)			
Ground pressure  ■Digging force	32kPa (0.33kgf/cm²)	34kPa (0.35kgf/cm²) (6.3tonf)		
Ground pressure  ■ Digging force  Bucket digging force	32kPa (0.33kgf/cm²) 61.4kN	34kPa (0.35kgf/cm²) (6.3tonf)		
■ Digging force  Bucket digging force  Arm digging force	32kPa (0.33kgf/cm²) 61.4kN	34kPa (0.35kgf/cm²)  (6.3tonf)  (4.3tonf)  Variable piston pump×2		
■ Digging force  Bucket digging force  Arm digging force  ■ Hydraulic system	32kPa (0.33kgf/cm²)  61.4kN  42.2kN  Variable piston pump×2  + gear pump	34kPa (0.35kgf/cm²)  (6.3tonf)  (4.3tonf)  Variable piston pump×2		
■ Digging force  Bucket digging force  Arm digging force  ■ Hydraulic system  Hydraulic pump	32kPa (0.33kgf/cm²)  61.4kN  42.2kN  Variable piston pump×2  + gear pump	34kPa (0.35kgf/cm²)  (6.3tonf)  (4.3tonf)  Variable piston pump×2 + gear pump + gear pump (dozer		
■ Digging force  Bucket digging force  Arm digging force  ■ Hydraulic system  Hydraulic pump  Swing motor	32kPa (0.33kgf/cm²)  61.4kN 42.2kN  Variable piston pump×2 + gear pump  Fixed displacem	34kPa (0.35kgf/cm²)  (6.3tonf)  (4.3tonf)  Variable piston pump×2 + gear pump + gear pump (dozer ent piston motor on motor×2		
■ Digging force  Bucket digging force  Arm digging force  ■ Hydraulic system  Hydraulic pump  Swing motor  Traveling motor	32kPa (0.33kgf/cm²)  61.4kN 42.2kN  Variable piston pump×2 + gear pump  Fixed displacem  Variable pist 5+4 section multiple control valves	34kPa (0.35kgf/cm²)  (6.3tonf)  (4.3tonf)  Variable piston pump × 2 + gear pump + gear pump (dozer ent piston motor on motor × 2  5+5 section multiple control valve (with one free service circuit)  29.4MPa (300kgf/cm²) [Travel : 31.4MPa (320kgf/cm²)]		
■ Digging force  Bucket digging force  Arm digging force  ■ Hydraulic system  Hydraulic pump  Swing motor  Traveling motor  Control valves	32kPa (0.33kgf/cm²)  61.4kN 42.2kN  Variable piston pump×2 + gear pump  Fixed displacem  Variable pist 5+4 section multiple control valves (with one free service circuit) 29.4MPa (300kgf/cm²)	34kPa (0.35kgf/cm²)  (6.3tonf)  (4.3tonf)  Variable piston pump×2 + gear pump + gear pump (dozer) ent piston motor on motor×2  5+5 section multiple control valve (with one free service circuit)		
■ Digging force  Bucket digging force  Arm digging force  ■ Hydraulic system  Hydraulic pump  Swing motor  Traveling motor  Control valves  Discharge pressure	32kPa (0.33kgf/cm²)  61.4kN 42.2kN  Variable piston pump×2 + gear pump  Fixed displacem  Variable pist 5+4 section multiple control valves (with one free service circuit) 29.4MPa (300kgf/cm²)	34kPa (0.35kgf/cm²)  (6.3tonf)  (4.3tonf)  Variable piston pump × 2 + gear pump + gear pump (dozer ent piston motor on motor × 2  5+5 section multiple control valve (with one free service circuit)  29.4MPa (300kgf/cm²) [Travel : 31.4MPa (320kgf/cm²)]		

<sup>\*</sup> Less grouser bar

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⊚Standard equipments 
●Option

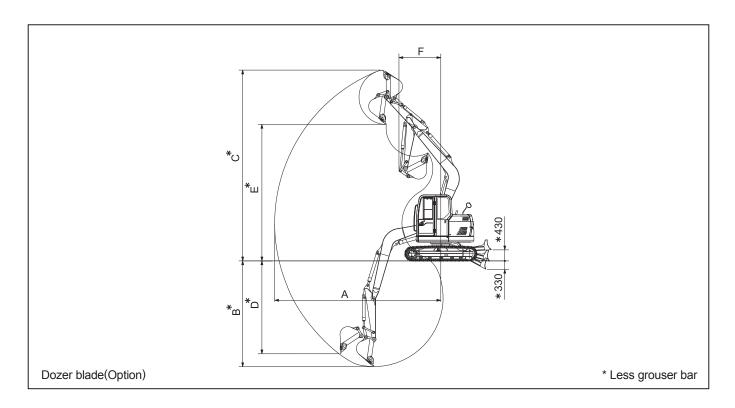
●Cab - Light - Mirror	STD	Dozer
Pull up front window	0	0
Color monitor display(APC300)	0	0
4 points viscous dumpling cab suspension	0	0
Slide and reclining seat	0	0
Seat suspension adjustable to operator's weight		•
Seat-belt Seat-belt	0	0
Automatic air conditioner (pressurized)	0	0
2 holes front window washer	0	0
Intermitted windshield wiper	0	0
Emergency escape hammer	0	0
FM/AM radio	0	0
Dual corn speaker x 2	0	0
Cabin light	0	0
2 STD Working lights (front right side, boom left side)	0	0
Optional working light (boom right side)	•	•
Optional working light (cab left side)		•
Rear view mirror (left side)	•	•
Tail view mirror	0	0
Magazine rack	0	0
Drink holder	0	0
Emergency switch to stop engine	0	0
Defroster	0	0
Floor mat	0	0
Foot rest	0	0
Arm rest	•	•
Ashtray cigar lighter	0	0
Tinted roof window	•	•
Openable roof window	0	0

●System • Piping • Others	STD	Dozer
Working mode selector (APC300)	0	0
Auto-slow, one touch slow	0	0
2 speed modes for traveling	0	0
Boom/arm anti-drift valve	0	0
Slewing anti-counter action	0	0
Automatic parking brake	0	0
Service port (1 spool)	0	0
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	0	0
Specification for cold region	•	•
Designated paint	•	•
Increased counter weight (+500kg)	•	•
Tool set	0	0
Rear view monitor	•	•
Hydraulic lock lever	0	0
Tool box	0	0
Grease gun	0	0

<sup>\*</sup>Means cannot equip in the same time

<ul><li>Wor</li></ul>	king equipments	STD	Dozer
	0.12m³ bucket	•	•
	0.16m³ bucket	•	•
	0.22m³ bucket	•	•
	0.28m³ bucket	0	0
Bucket	0.34m³ bucket	•	•
	Slope forming bucket	•	•
	Plate to close spaces between teeth of bucket $(0.12 \sim 0.34 \text{m}^3)$	•	•
	Bucket reinforcement (selection of part)	•	•
	Standard arm (1.62m)	0	0
Arm	Long arm (2.07m)		
	Various type of reinforced arm		•

<ul><li>Traveling equipments</li></ul>		STD	Dozer
Crouper shee	450mm	0	0
Grouser shoe	600mm		•
Flat shoe	450mm	•	•
Triangle chao	600mm	•	•
Triangle shoe	700mm	•	•
Rubber pad	450mm	•	•
Pad crawler	450mm		•
Rubber crawler	450mm		•
Dozer blade	450mm shoe		0
Dozei biade	600mm shoe	•	•
Cover on the bottom face o	Cover on the bottom face of center frame		0
Track quard	1 pc each side		
Track guard	2 pcs each side	•	



		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

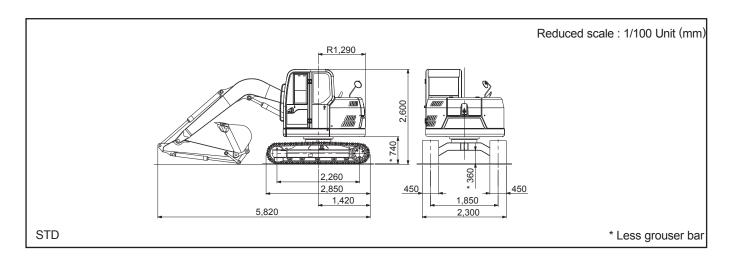
#### **■**BUCKET

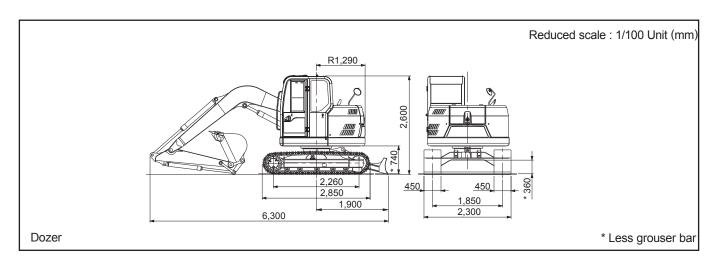
				Backhoe	oucket		Slope forming bucket
Bucket capacity	m³, ISO	0.12	0.16	0.22	0.28	0.34	_
Bucket	Without side cutters	370	440	555	650	770	1,400
width(mm)	With side cutters	480	555	670	770	890	800
Number of bucke	et teeth	3	3	3	4	4	_
Shape of bucket							
Ctandard beam	Standard arm	•	•	•	•	<b>A</b>	•
Standard boom	Long arm	•	•	•	<b>A</b>	×	<b>A</b>

●General purpose ▲Light work ×No setting

#### ■TRACK SHOES =

			Grouse	er shoe	Pad crawler	Flat shoe	Triangl	e shoe
	Type of shoes							
	Shoe width	(mm)	450	600	450	450	600	700
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
r main	Ground clearance	(mm)	* 360	* 360	410	390	* 360	* 360
is for	Crawler overall length	(mm)	2,850	2,850	2,900	2,860	2,910	2,910
ation	Distance between shoe ed	lge of both side (mm)	2,300	2,450	2,300	2,300	2,450	2,550
9	Ground pressure	STD	32 (0.33)	25 (0.25)	32 (0.33)	34 (0.34)	25 (0.25)	22 (0.22)
	[kPa(kgf/cm²)]	Dozer	34 (0.35)	27 (0.27)	35 (0.35)	37 (0.38)	27 (0.28)	_







## REGZM HD512-6

#### **[SPECIFICATION]**

Model	HD512-6 (STD)	HD512LC-6 (LC)			
Operating weight	12,500kg	12,900kg			
Bucket capacity	$0.25\text{m}^3 \sim 0.60\text{m}^3$ (Standard bucket $0.50\text{m}^3$ )				
■Engine					
Model	ISUZU	4JJ1X			
Туре	4 cycle intercooler turbo charged diesel engine				
Rated output	75kW (102PS	s) / 2,000min <sup>-1</sup>			
Maximum torque	378N∙m (38.5kg	f•m) / 1,600min <sup>-1</sup>			
■General dimensions					
Overall length (in transport position)	7,650	)mm			
Overall height (in transport position)	2,800				
Overall width	2,490				
Minimum ground clearance	* 440mm	* 430mm			
Tail swing radius	2,120	Omm			
Crawler overall length	3,570mm	70mm 3,740mm			
Crawler shoes width	500	mm			
Travel & swing system  Travel speed (High / Low)	5.8/3.3 13.0				
Swing speed					
Grade ability Ground pressure	70 39kPa (0.40kgf/cm²)	38kPa (0.39kgf/cm²)			
Ground pressure	Jaki a (U.40kgi/Gili )	Joki a (0.Jakgi/ciii )			
■ 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 pun	np×2 + gear pump			
Swing motor	Fixed displacem	ent piston motor			
Traveling motor	Variable pist	on motor×2			
Control valves	3+4 section multiple control valv	ves (with one free service circuit)			
Discharge pressure	31.4MPa (320kgf/cm²) [High-p	oower 32.9MPa (335kgf/cm²)]			
■Tanks (volume)					
Hydraulic oil tank	15	 5L			
Fuel tank	27				
* Less grouser bar					

<sup>\*</sup> Less grouser bar

Och Light Minner	35,	8 / Sq.	D
Cab - Light - Mirror			
Pull up front window	0	0	0
Transparent roof hatch with sun visor		•	
Color monitor display (APC300)	0	0	0
6 points viscous dumpling cab suspension	0	0	0
Double slide operator seat	0	0	0
Seat suspension adjustable to operator's weight			
Seat-belt	0	0	0
Automatic air conditioner (pressurized)	0	0	0
Hot & cool box	0	0	0
2 holes front window washer	0	0	0
Intermitted windshield wiper	0	0	0
Emergency exit rear window	0	0	0
AM/FM radio	0	0	0
12 volt power supply			
13 cm dual corn speaker x2	0	0	0
Cabin light	0	0	0
Working light (slewing table right side,boom left side)	0	0	0
Optional working light (boom right side)			
Optional working light (cab left and right side)			
Rear view mirror (right & left side)	0	0	0
Tail view mirror	0	0	0
Cab for crusher			
Step on side of cab	•		

#### Working equipments

	0.25m³ bucket			
	0.35m³ bucket	•	•	•
	0.40m³ bucket	•	•	•
	0.45m³ bucket	•	•	•
Bucket	0.50m³ bucket	0	0	0
	0.55m³ bucket	•	•	•
	0.60m³ bucket	•	•	•
	Plate to close spaces between teeth of bucket	•	•	•
	Standard arm (2.50m)	0	0	0
Arm	Long arm (3.00m)	•	•	
	Various type of reinforced arm	•	•	
Boom	Standard boom (4.65m)	0	0	0
	Bracket on boom for small swing radius (4.65m)	•	•	•

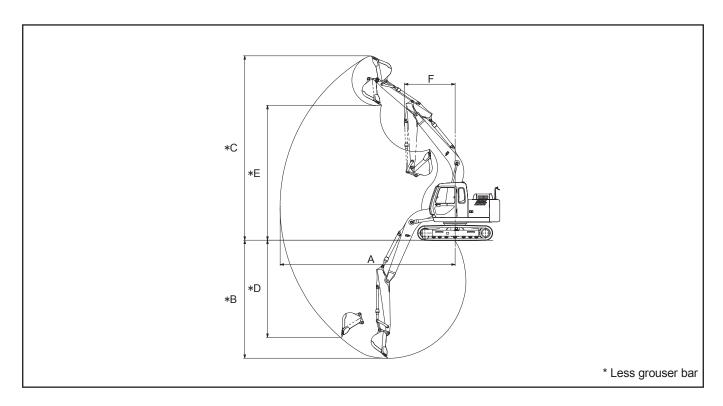
#### ●System • Piping • Others

• Cyclon I iping Canore	•	•	~
Working mode selector (APC300)	0	0	0
Auto-slow, one touch slow	0	0	0
Automatic transmission for traveling	0	0	0
2 speed modes for traveling	0	0	0
Boom/arm anti-drift valve	0	0	0
Slewing anti-counter action	0	0	0
Automatic parking brake (slewing table)	0	0	0
Automatic parking brake (traveling)	0	0	0
Service port (1 spool)	0	0	0
Hose rupture valve	•	•	•
Fire wall	0	0	0
Under cover slewing table (thicker)	•		•
2 ways option piping (for breaker & crusher)	•	•	
Piping for breaker and crusher with testing circuit *	•		•
Piping for breaker and crusher without testing circuit *	•	•	
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	0	0	0
Pre-cleaner Pre-cleaner	•	•	
Specification for cold region			•
Designated paint	•	•	
Tool set	0	0	0
Rear view monitor			
Battery disconnect switch	•	•	•
*Means cannot equip in the same time			

#### Traveling equipments

	500mm	0	_	0
Grouser shoe	500mm (thicker)		0	
Glousel slide	600mm		_	
	700mm		_	_
Triangle shoe	700mm	•	_	_
	500mm		_	
Rubber pad	600mm		_	
	700mm		_	_
Dozer blade	500mm shoe	_	_	0
Dozer blade	600mm shoe	_	_	
Cover on the bottom face of	traveling frame			
Traveling motor cover (thick	er)	•	•	
	1 pc each side		_	
Track guard	2 pcs each side		_	
	3 pcs each side		0	•
·				

#### ■WORKING RANGE —



Unit : mm

		0
	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

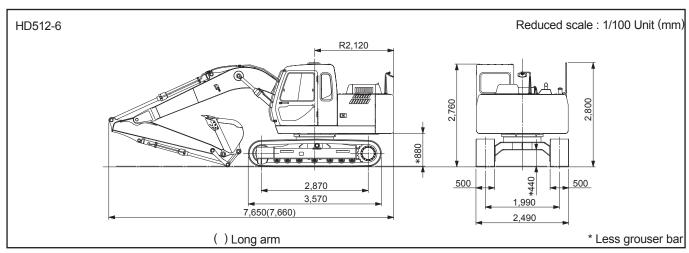
#### **■**BUCKET

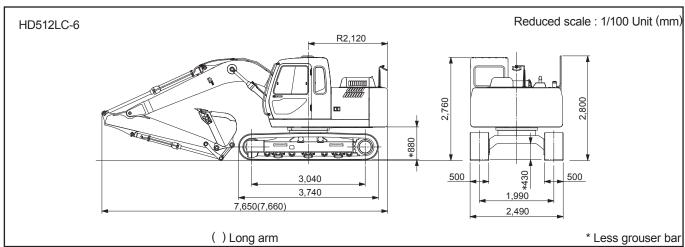
				Ва	ackhoe buck	et		
Bucket capacity	m³, ISO	0.25	0.35	0.40	0.45	0.50	0.55	0.60
Dualest width(mm)	Without side cutters	540	695	785	875	910	1,000	1,090
Bucket width(mm)	With side cutters	630	785	875	965	1,000	1,090	1,180
Number of bucket teeth		3	4	4	4	5	5	5
Shape of bucket								
Standard boom	Standard arm (2.50m)	•	•	•	•	•	<b>A</b>	
	Long arm (3.00m)	•	•	•	<b>A</b>	<b>A</b>	×	×

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

					Grouser shoe		Triangle shoe
	Type of shoes						
	Shoe width		(mm)	500 [500 thicker]	600	700	700
body	Operating weight		(kg)	12,500 [12,900]	12,700	13,000	12,900
ii P	Overall height		(mm)	2,800	2,800	2,800	2,850
r main	Ground clearance		(mm)	* 440 [* 430]	* 440	* 440	* 430
is for	Crawler overall leng	gth	(mm)	3,570 [3,740]	3,570	3,570	3,670
atior	Distance between sho	oe edge of both side	(mm)	2,490	2,590	2,690	2,690
Specifications	Cround propouro	kPa		39 [38]	33	29	29
Spe	Ground pressure	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







### REGZVM

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

#### **[SPECIFICATION]**

Model	HD513MR-6 (STD)	HD513MRLC-6 (LC)				
Operating weight	13,700kg	14,100kg				
Bucket capacity	0.25m³ ~ 0.60m³ (Standard bucket 0.50m³)					
■Engine						
Model	ISUZU	4JJ1X				
Туре	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)	2,800	· · · · · · · · · · · · · · · · · · ·				
Overall width	2,490	)mm				
Minimum ground clearance	* 440mm	* 430mm				
Tail swing radius	1,700	mm				
Crawler overall length	3,570mm	3,740mm				
Crawler shoes width	500r	nm				
Travel speed (High / Low) Swing speed	5.8/3.3 13.0r					
Grade ability	70					
Ground pressure	43kPa (0.44kgf/cm²)	42kPa (0.43kgf/cm²)				
■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 pum	p×2 + gear pump				
Swing motor	Fixed displacement					
Traveling motor	Variable pisto	on motor×2				
Control valves	3+4 section multiple control valv					
Discharge pressure	31.4MPa (320kgf/cm²) [High-p	ower 32.9MPa (335kgf/cm²)]				
■Tanks (volume)						
Hydraulic oil tank	155	 5L				
Fuel tank	220					

<sup>\*</sup> Less grouser bar

#### ■STANDARD EQUIPMENTS

#### ■Cab • Light • Mirror

Cab - Light - Militor	~~	~~	\ <u>\</u>
Pull up front window	0	0	0
Transparent roof hatch with sun visor			
Color monitor display (APC300)	0	0	0
6 points viscous dumpling cab suspension	0	0	0
Double slide operator seat	0	0	0
Seat suspension adjustable to operator's weight			
Seat-belt	0	0	0
Automatic air conditioner (pressurized)	0	0	0
Hot & cool box	0	0	0
2 holes front window washer	0	0	0
Intermitted windshield wiper	0	0	0
Emergency exit rear window	0	0	0
AM/FM radio	0	0	0
12 volt power supply			
13 cm dual corn speaker x2	0	0	0
Cabin light	0	0	0
Working light (slewing table right side,boom left side)	0	0	0
Optional working light (boom right side)		•	
Optional working light (cab left and right side)			
Rear view mirror (right & left side)	0	0	0
Tail view mirror	0	0	0
Cab for crusher			
Step on side of cab			

#### Working equipments

	0.25m³ bucket				٠.
D .1.1	0.35m³ bucket				
	0.40m³ bucket				
	0.45m³ bucket				
Bucket	0.50m³ bucket	0	0	0	
	0.55m³ bucket				
	0.60m³ bucket				
	Plate to close spaces between teeth of bucket				
	Standard arm (2.50m)	0	0	0	
Arm	Long arm (3.00m)				
	Various type of reinforced arm				
	Standard boom (4.65m)	0	0	0	
Boom	Bracket on boom for small swing radius (4.65m)	•	•	•	

### ● Standard equipments ● Option — No setting Piping • Others ●System • Piping • Others

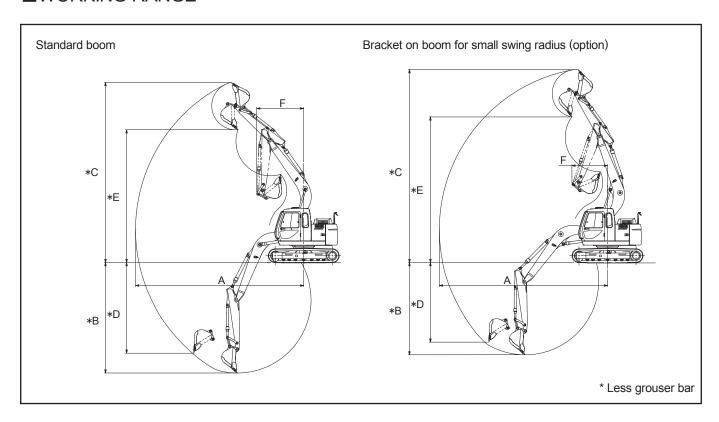
System - Piping - Others	⟨.	<u>~</u>	Q-
Working mode selector (APC300)	0	0	0
Auto-slow, one touch slow	0	0	0
Automatic transmission for traveling	0	0	0
2 speed modes for traveling	0	0	0
Boom/arm anti-drift valve	0	0	0
Slewing anti-counter action	0	0	0
Automatic parking brake (slewing table)	0	0	0
Automatic parking brake (traveling)	0	0	0
Service port (1 spool)	0	0	0
Hose rupture valve	•		
Fire wall	0	0	0
Under cover slewing table (thicker)	•	•	•
2 ways option piping (for breaker & crusher)	•	•	•
Piping for breaker and crusher with testing circuit *	•	•	•
Piping for breaker and crusher without testing circuit *	•		•
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	0	0	0
Pre-cleaner	•		
Specification for cold region			
Designated paint	•		
Tool set	0	0	0
Rear view monitor			
Battery disconnect switch			•
* Magna connet equip in the come time			

<sup>\*</sup> Means cannot equip in the same time.

#### Traveling equipments

		_	$\overline{}$	_
	500mm	0	_	0
Grouser shoe	500mm (thicker )		0	
Grouser since	600mm		_	
	700mm		_	_
Triangle shoe	700mm		_	_
	500mm		_	
Rubber pad	600mm		_	
	700mm		_	_
Dozer blade	500mm shoe	_	_	0
Dozei biade	600mm shoe	_	_	
Cover on the bottom face of	traveling frame			
Traveling motor cover (thicker)				
	1 pc each side		_	
Track guard	2 pcs each side		_	
	3 pcs each side	•	0	

#### ■WORKING RANGE —



Unit : mm

	Standa	rd 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

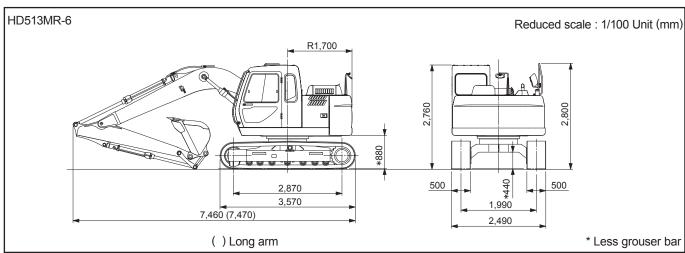
		Backhoe bucket						
Bucket capacity	m³, ISO	0.25	0.35	0.40	0.45	0.50	0.55	0.60
Bucket width(mm)	Without side cutters	540	695	785	875	910	1,000	1,090
bucket width(min)	With side cutters	630	785	875	965	1,000	1,090	1,180
Number of bucket teeth		3	4	4	4	5	5	5
Shape of bucket				THE PROPERTY OF THE PROPERTY O				
Standard boom	Standard arm (2.50m)	•	•	•	•	•	<b>A</b>	
	Long arm (3.00m)	•	•	•	<b>A</b>	<b>A</b>	×	×

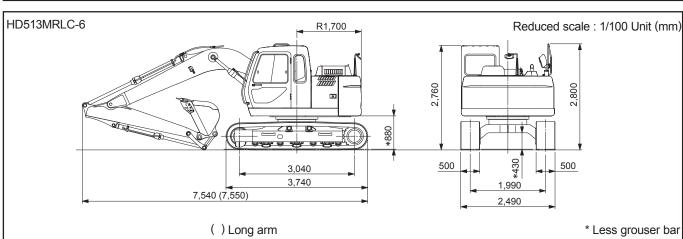
●General purpose ▲Light work □Loading OUsable ×Unusable —No setting

#### ■TRACK SHOES =

					Grouser shoe				
	Type of shoes								
	Shoe width		(mm)	500 [500 thicker]	600	700	700		
body	Operating weight		(kg)	13,700 [14,100]	13,900	14,200	14,200		
ăi P	Overall height		(mm)	2,800	2,800	2,800	2,850		
r main	Ground clearance		(mm)	* 440 [* 430]	* 440	* 440	* 430		
is for	Crawler overall leng	gth	(mm)	3,570 [3,740]	3,570	3,570	3,670		
atior	Distance between she	oe edge of both side	(mm)	2,490	2,590	2,690	2,690		
Specifications	Crowned managemen	kPa		43 [42]	36	32	31		
Spe	Ground pressure	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







### **REGZMHD820-6**

#### **[SPECIFICATION]**

Model	HD820-6 (STD)	HD820LC-6 (LC)					
Operating weight	20,200kg	20,700kg					
Bucket capacity	0.45m³ ~ 1.1m³ (Sta	andard bucket 0.8m³)					
■Engine							
Model	MITSUBISHI	4M50-TLE3BA					
Туре	4 cycle intercooler turb	o charged diesel engine					
Rated output	112.5kW (153l	PS) / 2,000min <sup>-1</sup>					
Maximum torque	564N∙m (57.5kg	gf·m) / 1,600min <sup>-1</sup>					
■General dimensions							
Overall length (in transport position)	9,45	i0mm					
Overall height (in transport position)	2,96	60mm					
Overall width	2,820mm	2,990mm					
Minimum ground clearance	* 465mm						
Tail swing radius	2,75	i0mm					
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	13.5	imin <sup>-1</sup>					
Grade ability	70	0%					
Ground pressure	45kPa (0.46kgf/cm²) 43kPa (0.4						
■Digging force							
Bucket digging force	150kN (15.2tonf) [159k	N (16.2tonf) High power]					
Arm digging force	109kN (11.1tonf) [115kl	N (11.7tonf) High power]					
■Hydraulic system							
Hydraulic pump	Variable piston pui	mp×2 + gear pump					
Swing motor	Fixed displacement piston motor						
Traveling motor	Variable piston motor×2						
	5+4 section multiple control valves(with one free service circuit)						
Control valves	o i i coccion manipio control va	34.3MPa (350kgf/cm²) [High power 36.3MPa (370kgf/cm²)]					

260L

420L

Hydraulic oil tank

Fuel tank

<sup>\*</sup> Less grouser bar

Only District Misses	YID ST	\$ 100°0
●Cab · Light · Mirror	Z	₹P°
Pull up front window	0	0
Transparent roof hatch with sun visor		
Color monitor display(APC300)	0	0
6 points viscous dumpling cab	0	0
Double slide operator seat	0	0
Seat suspension adjustable to operator's weight	0	0
Seat-belt Seat-belt	0	0
Automatic air conditioner (pressurized)	0	0
Hot & cool box	0	0
2 holes front window washer	0	0
Intermitted windshield wiper	0	0
Emergency exit rear window	0	0
AM/FM radio	0	0
12 volt power supply		
13 cm dual corn speaker x2	0	0
Cabin light	0	0
3 std working lights (slewing table, boom left side, cab left side)	0	0
Optional working light (boom right side)		
Optional working light (cab right side)		
Rear view mirror (right & left side)	0	0
Cab for crusher		
Step on side of cab		

■\\/orkina	aguinmant	_
VVOIKING	equipments	5

	0.45m³ Bucket		
	0.55m <sup>3</sup> Bucket		
	0.8m³ Bucket	0	0
	0.9m³ Bucket		
Ducket	1.0m³ Bucket		
Bucket	1.1m³ Bucket		
	0.8m <sup>3</sup> Reinforced bucket		
	0.9m <sup>3</sup> Reinforced bucket		
	Slope forming bucket		
	Exchangeable kit		
	Short Arm (2.43m)		
Arm	STD Arm (2.93m)	0	0
AIIII	Long Arm (3.92m)		
	Various type of reinforced arm		
	Standard boom (5.63m)	0	0
Boom	Reinforced boom (5.63m)		
DOOIII	Bracket on standard boom for small swing radius		
	Bracket on reinforced boom for small swing radius		
Link	Standard side link	0	0
LITIK	Reinforced side link	•	

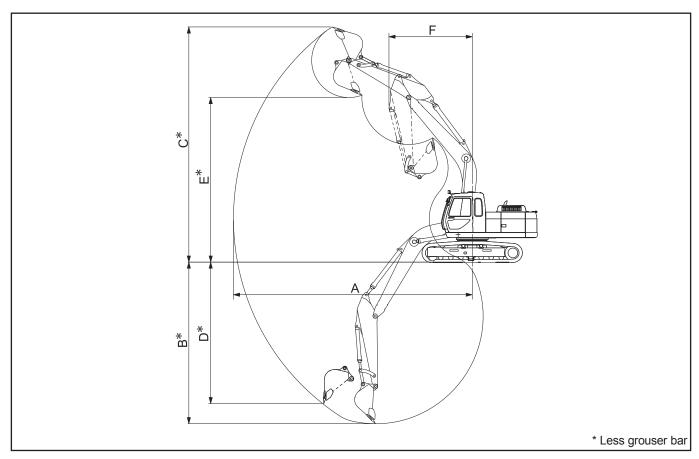
•••	200	300
●System • Piping • Others	Waga,	NO SOL
Working mode selector (APC300)	0	0
Auto-slow, one touch slow	0	0
Automatic transmission for traveling	0	0
2 speed modes for traveling	0	0
Boom/arm anti-drift valve	0	0
Slewing anti-counter action	0	0
Automatic parking brake (slewing)	0	0
Automatic parking brake (traveling)	0	0
Service port (1 spool)	0	0
Hose rupture valve		
Fire wall	0	0
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	0	
Pre-cleaner		•
Specification for cold region		
Designated paint		•
Tool set	0	0
Increased weight ( + 400kg)		
Increased weight ( + 800kg)	•	•
Slewing strengthen frame		•
Rear view monitor	0	0
Fall prevention guard	•	•
Battery disconnect switch		

<sup>\*</sup>Means cannot equip in the same time

#### Traveling equipments

	600mm	0	0
Grouser shoe	700mm		
Grouser snoe	800mm		
	900mm		•
Flat shoe	600mm		
Triangle shoe	800mm		
Dubbar and	600mm		
Rubber pad	800mm		
Cover on the bottom face	e of traveling		
Traveling motor cover (th	icker)		
Track guard	1 pc each side	0	0
Track guard	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

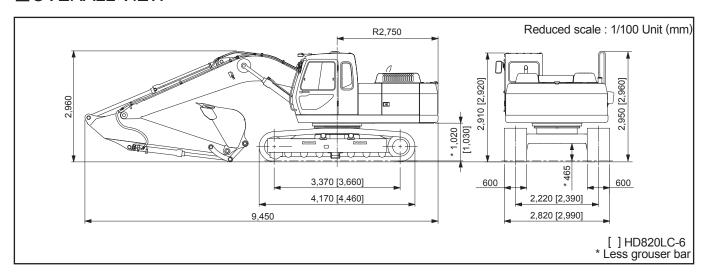
				Slope forming bucket				
Bucket capacity	m³, ISO	0.45	0.55	0.80	0.90	1.0	1.1	_
D	Without side cutters	650	800	1,020	1,190	1,270	1,400	2,000
Bucket width(mm)	With side cutters	760	910	1,130	1,300	1,380	_	1,250
Number of bucket teeth		4	4	5	5	6	6	_
Shape of bucket								
	Short arm	•	•	•	•	▲[●]		0
Standard boom	Standard arm	•	•	•	•	▲[●]		0
	Long arm	•	•	<b>A</b>	×[▲]	×	×	0

●General purpose ▲Light work □Loading OUsable ×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
	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]
ר body	Ground clearance (mm)		* 465	* 465	* 465	* 465	510	* 505
for main	Crawler overall leng	gth (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 she edge of both side	oe (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]
Specifications	Ground prossure	kPa	45 [43]	40 [38]	35 [33]	32 [30]	47 [45]	36 [34]
Spec	Ground pressure	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





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

#### **[SPECIFICATION]**

Model	HD823MR-6 (STD)	HD823MRLC-6 (LC)				
Operating weight	22,400kg	23,100kg				
Bucket capacity	<del>_</del>	tandard bucket 0.8m³)				
■Engine						
Model	MITSUBISHI	4M50-TLE3BA				
Type	4 cycle intercooler turbo charged diesel engine					
Rated output	<u> </u>	SPS) / 2,000min <sup>-1</sup>				
Maximum torque	· · · · · · · · · · · · · · · · · · ·	gf•m) / 1,600min <sup>-1</sup>				
■General dimensions		<u> </u>				
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	·	65mm				
Tail swing radius		30mm				
Crawler overall length	4,170mm	4,460mm				
Crawler shoes width	600mm					
Travel & swing system  Travel speed (High / Low)		3.6km/h				
Swing speed		5min <sup>-1</sup>				
Grade ability  Cround pressure		70%				
Ground pressure	50kPa (0.51kgf/cm²)	48kPa (0.49kgf/cm²)				
■Digging force						
Bucket digging force	150kN (15.2tonf) [159k	N (16.2tonf) High power]				
Arm digging force	109kN (11.1tonf) [115k	:N (11.7tonf) High power]				
■Hydraulic system						
Hydraulic pump	Variable piston pu	ımp×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/cm²) [High power 36.3MPa (370kgf/cm²)]					
■Tanks (volume)						
Hydraulic oil tank						
Fuel tank		30L				

<sup>\*</sup> Less grouser bar

Slope forming bucket

Exchangeable kit Short arm (2.43m)

STD arm (2.93m)

Long arm (3.92m)

Standard side link

Reinforced side link

Various type of reinforced arm

Bracket on standard boom for small swing radius Bracket on reinforced boom for small swing radius

Standard boom (5.63m)

Reinforced boom (5.63m)

Arm

Boom

Link

0 0

0 0 0

0 0

0 0

0 0

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0 0

0 0

0 0 0

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<ul><li>Ca</li></ul>	b · Light · Mirror	YID BL'S	AID BY	●System • Piping • Others
	front window	0	0	Working mode selector (APC300)
Transpa	arent roof hatch with sun visor	•	•	Auto-slow, one touch slow
Color m	nonitor display (APC300)	0	0	Automatic transmission for traveling
6 points	s viscous dumpling cab	0	0	2 speed modes for traveling
Double	slide operator seat	0	0	Boom/arm anti-drift valve
Seat su	spension adjustable to operator's weight	0	0	Slewing anti-counter action
Seat-be	elt	0	0	Automatic parking brake (slewing table)
Automa	atic air conditioner (pressurized)	0	0	Automatic parking brake (traveling)
Hot & c	ool box	0	0	Service port (1 spool)
2 holes	front window washer	0	0	Hose rupture valve
Intermit	ted windshield wiper	0	0	Fire wall
Emerge	ency exit rear window	0	0	Under cover slewing table (thicker)
AM/FM	radio	0	0	2 ways option piping (for crusher & breaker)
12 volt	power supply	•	•	Boosting circuit for crusher
13 cm (	dual corn speaker x2	0	0	Multi-lever
Cabin li	ght	0	0	Select lever
3 std wo	orking lights (slewing table, boom left side, cab left side)	0	0	Windshield half size guard *
Optiona	al working light (boom right side)	•	•	Windshield full size guard *
Optiona	al working light (cab right side)	•	•	Cabin head guard
Rear vi	ew mirror (right & left side)	0	0	Additional electric horn
Cab for	crusher	•	•	Buzzer traveling
Step or	n side of cab	•	•	Swing interlocking warning lamp
				Electric refueling pump
●Wo	rking equipments			Fire extinguisher
	0.45m³ Bucket	•	•	Loud speaker
	0.55m³ Bucket	•	•	Air cleaner double element
	0.8m³ Bucket	0	0	Pre-cleaner
	0.9m³ Bucket	•	•	Specification for cold region
	1.0m³ Bucket	•	•	Designated paint
Bucket	1.1m³ Bucket	•	•	Tool set
	0.8m³ Reinforced bucket	•	•	Rear view monitor
	0.9m³ Reinforced bucket		•	Fall prevention guard
			-	Detter discourse to disk

<sup>\*</sup>Means cannot equip in the same time

<b>●</b> ▼		
Iravelii	na eauir	ments

Battery disconnect switch

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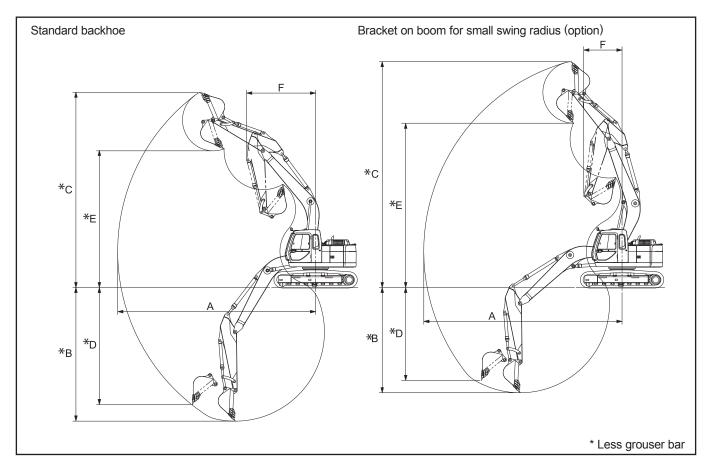
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0 0

• •

	600mm	0	0
Grouser shoe	700mm	•	•
	800mm	•	•
	900mm		•
Flat shoe	600mm	•	•
Triangle shoe	800mm	•	•
Dubbarnad	600mm		•
Rubber pad	800mm	•	•
Cover on the bottom face	•	•	
Traveling motor cover (th		•	
Trook guard	1 pc each side	0	0
Track guard	3 pcs each side	•	•
<u> </u>			

#### ■WORKING RANGE -



Unit : mm

		Standard backhoe	e	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

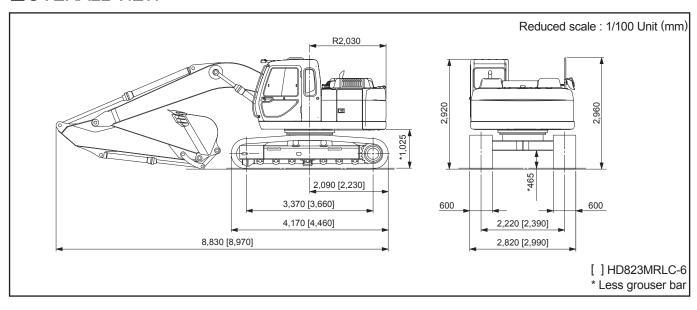
		Backhoe bucket						Slope forming bucket
Bucket capacity	0.45	0.55	0.80	0.90	1.0	1.1	_	
	Without side cutters	650	800	1,020	1,190	1,270	1,400	2,000
Bucket width(mm)	With side cutters	760	910	1,130	1,300	1,380	_	1,250
Number of bucket teeth		4	4	5	5	6	6	_
Shape of bucket		FIFTH TO THE PARTY OF THE PARTY						
	Short arm	•	•	•	•	▲[●]		0
	Standard arm	•	•	•	•	▲[●]		0
Standard boom	Long arm	•	•	<b>A</b>	<b>A</b>	×	×	0
	Extension arm (1,500mm)	•	×	×	×	×	×	×

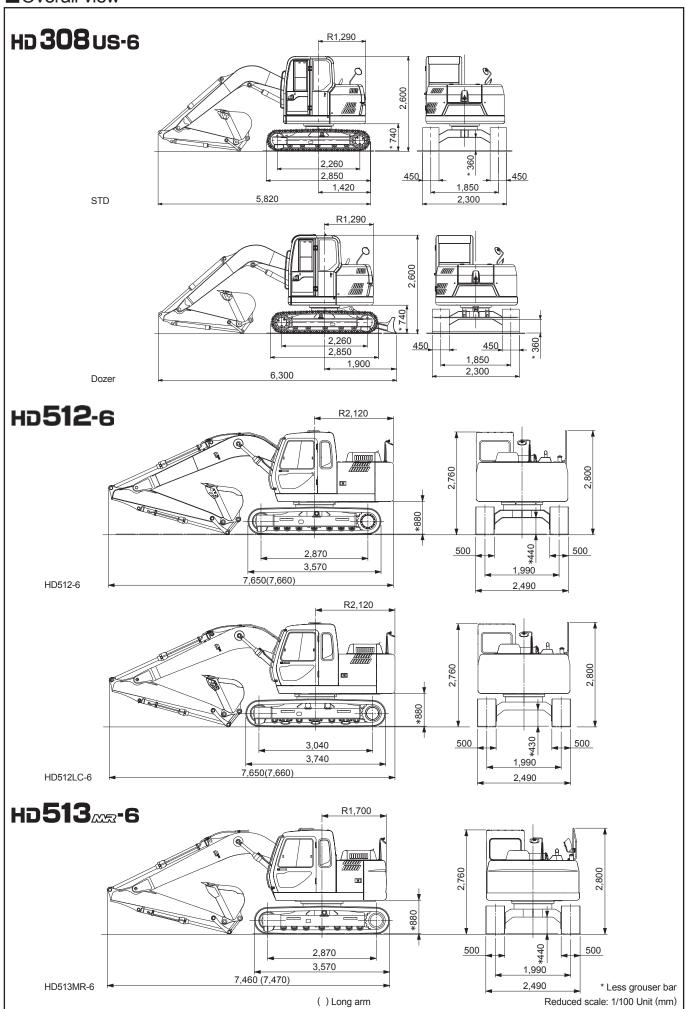
●General purpose ▲Light work □Loading OUsable ×Unusable −No setting [] for HD823MRLC-6

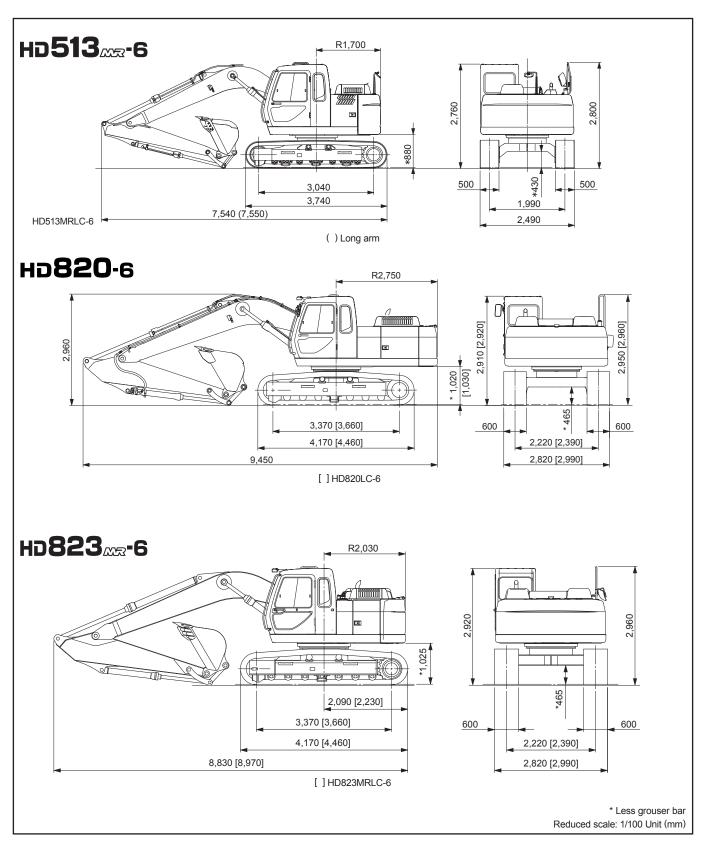
#### ■TRACK SHOES -

	Grouser shoe Flat shoe Triangle shoe							
				Grouse	Flat shoe	Triangle shoe		
	Type of shoes							
	Shoe width	(mm)	600	700	800	900	600	800
main body	Operating weight (		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
r mai	Crawler overall leng	gth (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]
Specifications for	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]	40 [38]
		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







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

Address inquiries to:



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