

TATA HITACHI



EXTENSIVE RANGE OF APPLICATION SOLUTIONS

CONTENTS

Application	Products	Products	Page No.
Infrastructure Development	- Rock Breakers	Alicon & New Alicon Super+	4
	- Super Long Reach	Intelligence Series Rock Breaker	6
	- Rotating Crushers	Quick Coupler	7
	- Plate Compactor	Auger	8
	- Sorting Grapple / Rake	Super Long Reach	9
Demolition / Crushing	- High Reach	Clamshell Bucket	10
	- Demolition Attachment	Material Handler	11
	- Rock Breakers	Orange Peel Grab	12
	- Rotating Crushers	Rotating Crusher	13
	- Sorting Grapple / Rake	Sorting Grapple/Rake	14
	- Magnet Attachment	Magnet	15
Mining	- Shear	Shear	16
	- Mining Rock Breakers	Wood Grapple	17
Urban Development	- Plate Compactor	Plate Compactor	17
	- Rock Breakers		
	- Super Long Reach		
	- Rotating Crushers		
	- Sorting Grapple / Rake		
	- Orange Peel Grab		
Inland Waterway Developments	- Plate Compactor		
	- Clamshell Bucket		
Irrigation - Canal Excavation	- Shear		
	- Rock Breakers		
	- Super Long Reach		
Metal Recycling / Material Handling	- Plate Compactor		
	- Magnet Attachment		
	- Orange Peel Grab		
	- Clamshell Bucket		
Forestry	- Sorting Grapple / Rake		
	- Wood Grapple		
Tunnelling	- Rock Breakers		
Others	- Quick Coupler		

TATA HITACHI ATTACHMENTS OF ALL APPLICATIONS

An extensive range of customized attachments that meet the demands of specific industry applications. These include Urban Development, Inland Waterways, Irrigation, Demolition/ Crushing, Material Handling, Metal Recycling, Mining, Tunnelling and many more.



INTELLIGENCE SERIES ROCK BREAKER

FEATURES

- Operates entirely on the latest Hydraulic Technology.
- Excellent power-to-weight ratio.
- High-impact & constant blow leads to increased productivity.
- Rotational type bushes increase life up to 50%.
- Auto-Lubrication system as a standard feature across medium & large range.
- VIDAT Tie Rods - Absorbs vibration and prevents premature failures.
- In-Built Hydraulic protection system.
- MyFleet - Live geo-tracking and breaker performance data.



MyFleet - Live Geo-Tracking



Auto-Lubrication System

SPECIFICATIONS

CONSTRUCTION SEGMENT

MINING SEGMENT

Breaker Model	Unit	BR777i	BR1655i	BR2577i	BR3288i	BR4099i	BR5011i	BR9033i
Excavator Weight Class	Ton	4.3~9.5	12 ~20	21~32	26~42	34~55	43~80	65~120
Operating Weight	Kg	390	1100	1670	2400	3380	4750	7400
Oil Flow	Lpm	40~120	90~130	140~200	160~250	250~350	280~380	360~460
Operating Pressure	Bar	90~140	135~145	135~145	150~160	150~160	160~170	170~180
Impact Blow Rate	Bpm	500~1700	500~920	450~750	370 ~ 630 (L)* 460 ~ 740 (S)*	400 ~ 560 (L)* 520 ~ 700 (S)*	370 ~ 530 (L)* 450 ~ 620 (S)*	300 ~ 520 (L)* 355 ~ 645 (S)*
Chisel Diameter	mm	80	115	135	142	166	190	215
Tata Hitachi Suitable Excavator	Model	SHINRAI, EX 70	EX 130, ZAXIS 140H	EX 200LC, EX 210LC ZAXIS 220LC ZAXIS 220LC-M	ZAXIS 370LCH, ZAXIS 400MTH	ZAXIS 470H	ZAXIS 650H	ZX870H-5G EX1200V

* L- Long Stroke and S- Short Stroke

CHOICE OF OPTIONS

Auto Greasing	•
Anit-Blank Firing	•
Hydraulic Protection System	•
Low-Noise HD Housing	•
Under water Application	•
Tunnel Application	•

- 1) Standard weight of carrier.
- 2) Standard weight hydraulic breaker with adaptor and tool.

APPLICATION



MINING & QUARRYING

- Primary Breaking
- Secondary Breaking



DEMOLITION & RENOVATION

- Masonry Structures
- Concrete Structures
- Composite Steel
- Pavements –Asphalt, Concrete



METALLURGICAL INDUSTRY

- Slag Recycling
- Cleaning & Debricking



CONSTRUCTION

- Earthwork
- Trenching
- Ground excavation
- Tunneling
- Foundation work
- Building construction

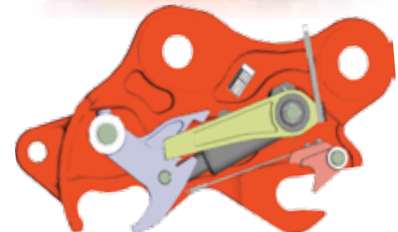
• Standard • Option □ N/A

QUICK COUPLER

TWIN LOCK POWER LATCH QUICK COUPLER

FEATURES

- Quick Couplers facilitates rapid change of bucket and attachments increasing the equipment utilization and productivity.
- Fully Automatic hydraulic coupler with unique Automatic Blocking System (ABS) eliminating the need for a manually inserted safety pin.
- Strong, durable, high-tensile precision single piece cast steel frame.
- Twin-locking feature enables front and rear attachment pins mechanically locked, in the event of any hydraulic power loss.
- Attachments can only be removed in a safe, fully crowd-in position.
- Short Payback period of less than six months.



SPECIFICATIONS

COUPLER RANGE / MACHINE TONNAGE

Description	Unit	Range 4	Range 6	Range 8	Range 9	Range 11	Range 13
Excavator Weight Class	Ton	11-15	19-23	30-39	40-49	65 ~ 70	100 ~ 120
Operating Weight	Kg	180	310	560	850	1350	2120
Front and Rear Pin diameter	mm	60 & 65	80 & 80	90 & 100	100 & 110	120 & 130	120 & 130
Attachments pick up range	mm	345 ~ 415	430 ~ 520	482 ~ 602	572 ~ 603	640 ~ 645	640 ~ 645
Tata Hitachi Suitable Excavator	Model	Ex130 Super+/ Zx140H	EX200LC Super+/ EX210LC Super+/ ZX220LC	ZX370LCH	ZX470H	ZX650H	EX1200V

MECHANICAL QUICK COUPLER

FEATURES

- Structural integrity & life is increased for main Attachment component.
- Simplified and Cost-effective system.
- Hardox steel for high durability.

SPECIFICATIONS

Description	Unit	Range 3
Excavator Weight Class	ton	4-8
Operating Weight	kg	87
Front and Rear Pin diameter	mm	50&55
Attachments pick up range	mm	
Tata Hitachi Suitable Excavator Models		Shinrai



AUGER

FEATURES

- Manufactured from high grade materials & precision engineered products.
- Designed to withstand extreme working conditions.
- Unique Design of single piece drive shaft to prevent shaft dislodgement.
- Interchangeable wear parts & pilot extensions for improved flexibility and accuracy.
- Amplified torque & High efficiency due to planetary gearbox.
- Best in class warranty policy



SPECIFICATIONS

Description	Unit	3000 Max	3500 Max	8000 Max	15000 Max	25000 Max	42000 Max
Torque Range	Nm	959-2877	1,205-3,614	2,717-8,152	5,024-15,071	16,503-24,755	24,612-42,387
Oil Pressure Range	Bar	80-240	80-240	80-240	80-240	160-240	180-310
Oil flow Range	Lpm	27-75	40-85	70-150	80-170	80-170	80-225
Unit Weight	Kg	71	73	116	173	269	442
Auger Diameter Range	mm	100-600	100-750	150-1.2	150-1.2	150-1.5	300-1.8
Auger Depth Range	M	1.4-3	1.4-3	2.4-6	3.7-7.5	4.1-9	4.9-11.5
Output Shaft Std.	mm	65	65	75	75	75	110
Suitable Machine Class	Ton	2-4	2.5-4.5	6-8	10-15	15-22	20-45

APPLICATION



ELECTRICAL
POLE



PLANTATION,
FOUNDATION/ CASING
INSTALLATION



SOLAR PANEL
INSTALLATION



DEWATERING
APPLICATION



LANDSCAPING,
FENCING,
BORING ETC.

SUPER LONG REACH

APPLICATIONS

- Desilting operations in ports, canals & lakes.
- Agriculture well rejuvenation.
- Inland waterways development.
- Urban construction work.
- Road construction & bridges.
- Miscellaneous applications such as salt pans & fly ash handling.
- Seawall construction & Dredging.



SPECIFICATIONS

Excavator Operating Weight	Length		Max. Reach		Max. Depth		Max. Height		Boom Height		Approximate Bucket Capacity
	m	ft	m	ft	m	ft	m	ft	m	ft	
11-14 ton	12	40'	11.9	39'10"	7.9	25'11"	12.35	40'6"	2.3	7'6"	0.35
20-22 ton	14.5	47'5"	14.5	47'5"	11.05	36'2"	12.11	39'7"	2.3	7'5"	0.5
	15.5	50'8"	15.5	50'8"	11.62	38'1"	13.5	44'2"	2.5	8'2"	0.4
33-38 ton	18.5	60'	18.5	60'	13.9	54'7"	16.15	52'11"	3.15	10'4"	0.7
40-45 ton	21	69'	21	69'	13.95	45'9"	15.4	50'6"	3.7	12'1"	0.8
60-68 ton	23.5	77'	23.5	77'	17	55'9"	19.95	65'5"	3.95	12'11"	1.5
80-95 ton	23.5	77'	23.5	77'	17.35	56'11"	19.95	65'5"	4.25	13'11"	1.6
	25	82'	25	82'	18.65	61'2"	20.95	68'8"	4.35	14'3"	1.5
100-125 ton	25	82'	25	82'	17.6	57'8"	21	68'10"	5.35	17'6"	2
	27	88'	27	88'	20.4	66'11"	18.8	61'8"	5.35	17'6"	1.8

Note- Long reach length & bucket capacity will vary upon application, hence consult with relevant team before offering to customer.

APPLICATION



DREDGING



EROSION CONTROL
AND PREVENTION



MAINTENANCE &
CLEANING OF RIVERS,
LAKES, SHORELINES,
PONDS, ETC



DRAINAGE /
LAND RECLAMATION
WORK IN CITIES

CLAMSHELL BUCKET

LIGHT WEIGHT APPLICATIONS

FEATURES

- Pendulum-type clam shell bucket which helps ease of operation during materials loading & unloading.
- Less operation cycle compared to normal operation.
- Rotating option: Hydraulic rotating type.
- Dual Cylinder: Dual hydraulic cylinder for excellent digging force.
- Optimal bowl radius for highest fill factor.
- Choice of option: Tooth points.



SPECIFICATIONS

Description	Unit	DMCB1000
Operating Weight	kg	1250
Capacity	m3	1
Recommended Carrier	Ton	18-25

HEAVY DUTY APPLICATIONS

SPECIFICATIONS

Hydraulic Clamshell Grabs - Pile Density upto 1.0 T/m3

Type and size	Excavator Operating Weight (Ton)(**)	Grab capacity	Dead weight	Max. lifting capacity
HiCG	Ton	m3	Kg	Ton
600	18-30	0.6	1040	3
700	18-30	0.7	1100	3
800	18-30	0.8	1125	3
1250	18-30	1.25	1295	3
1500	18-30	1.5	1380	5
1600	18-30	1.6	1400	5
1750	18-50	1.75	1465	5
2000	18-50	2	1665	5
3000	18-50	3	2065	7
3500	18-50	3.5	2465	7

SPECIFICATIONS

Hydraulic Clamshell Grabs - Pile Density upto 2.0 T/m3.

Type and size	Excavator Operating Weight (Ton)(**)	Grab capacity	Dead weight	Max. lifting capacity
HiDG	Ton	m3	Kg	Ton
600.27	12-20	0.6	915	4.0
700/800.28-S	18-30	0.8	1290	6.0
1000.28-S	18-30	1	1470	6.0
1200.28-S	18-30	1.2	1520	6.0
1600.28-S	18-50	1.6	1715	6.0
2000.28-S	18-50	2	1990	6.0
3000.28-S	18-50	3	2040	-

Remarks: *** As per Excavator Arm width & Arm pin diameter. ** Excavator Operating weight will change depending upon material application

MATERIAL HANDLER

FEATURES

- Customized design for superior lifting capacity & better stability.
- Reinforced structure to meet tough operating conditions.
- Boosts production and widens working ranges with long term cost saving.



SPECIFICATIONS

Excavator Model	Reach (meter)
ZX370LCH	12m
Zx470H	14m
Zx650H	16m

APPLICATION



HIGH VOLUME
BULK MATERIAL
HANDLING



IDEAL FOR LOADING &
UNLOADING BULK
CARGO AT DOCKS



REPLACES CABLE
OPERATED MATERIAL
HANDLING MACHINES.



MATERIAL
HANDLING
• Industrial wastes,
grains, sands, etc.



LOADING AND
UNLOADING
• Coal, iron ore, gravel,
clinker from railway wagon
and barge.

ORANGE PEEL GRAB

FEATURES

- Loading/unloading metal scrap, wastes and garbage.
- Pendulum type.
- Rotating options: Hydraulic rotating type, free rotating type or fixed type.
- Number of tines: 4/5/6.
- Tines options: Close type, semi-close type, open type.

LIGHT WEIGHT APPLICATIONS

SPECIFICATIONS

Description	Unit	DMSG800
Operating Weight	kg	1,200
Capacity	m3	0.7
Recommended Carrier	ton	18~25
Standard Tines No.	ea	5



HEAVY DUTY APPLICATIONS

SPECIFICATIONS

Type and size	Excavator Operating Weight (Ton)(**)	Grab capacity	Dead weight in kg by Tines design			Number of Tines (**)	Max. lifting capacity
HiOG	Ton	m3	Open	Semi-open	Closed	No.	Ton
600.25	12-22	0.6	1245	1310	1395	5	3.5
800.25	12-22	0.8	1270	1330	1440	5	3.5
2000.28-S	20-40	2	2210	2380	2700	5	6

Remarks: * 5 no. Tines are standard. ** No. of tines can be changed depending upon the material size & shape.
*** As per Excavator Arm width & Arm pin diameter

APPLICATION



SORTING



WASTE HANDLING



CLEANING SITES

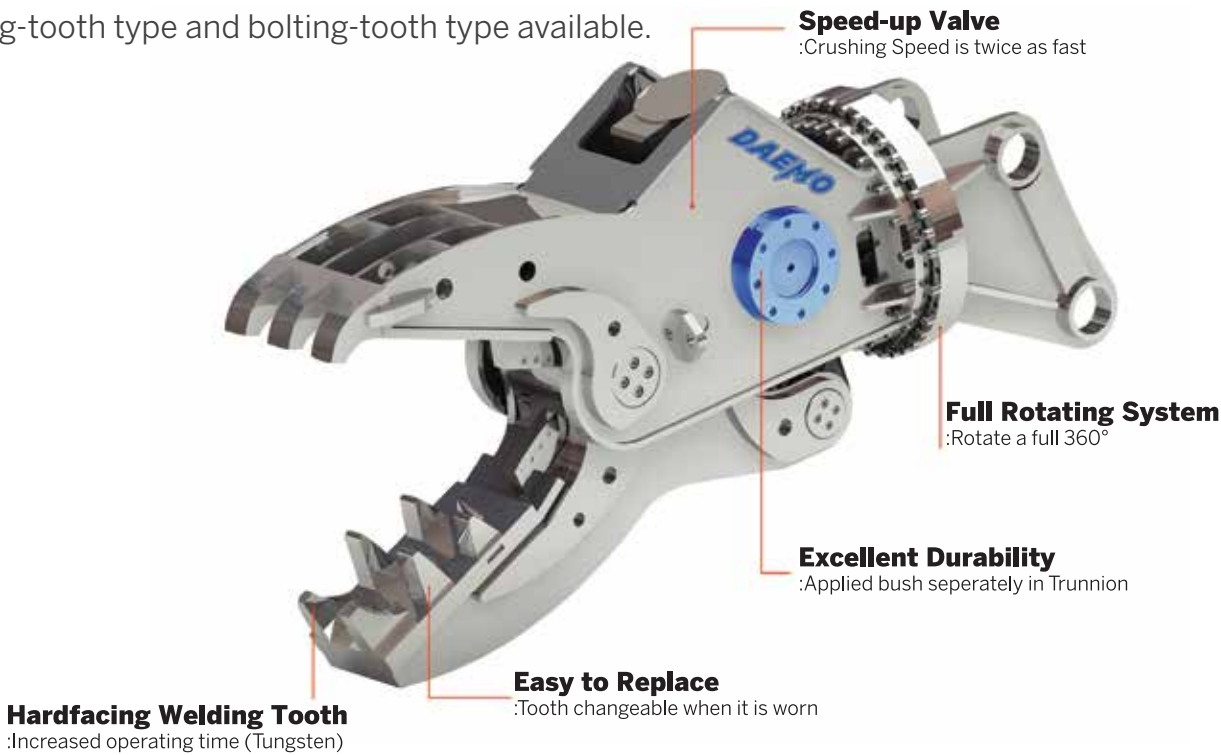


LOADING

ROTATING CRUSHER

FEATURES

- 360° workable direction.
- Workable on narrow building spaces or noise-regulated environment.
- Speed-up valve accelerates work speed. (Optional)
- Moving arm tooth replaceable as standard.
- Welding-tooth type and bolting-tooth type available.



SPECIFICATIONS

Description	Unit	DMC230R	DMC230RB	DMC330R	DMC330RB
Operating Weight	kg	2,250	2,300	3,050	3,100
Maximum Opening Width	mm	780	780	890	890
Overall Length	mm	2,500	2,480	2,660	2,685
Crushing Force (End)	ton	57	57	73	73
Operating Pressure	Bar	320	320	320	320
Oil Flow Rate	Lpm	200~250	200~250	250~300	250~300
Excavator Class	Ton	20~28	20~28	27~38	27~38

APPLICATION



STEEL STRUCTURES

- Cutting Steel Profiles
- Cutting Steel Girders/Beams
- Cutting Reinforcement



REINFORCED CONCRETE

- Primary Demolition
- Secondary Demolition



NON-REINFORCED CONCRETE

- Primary Demolition
- Wall Elements
- Secondary Demolition



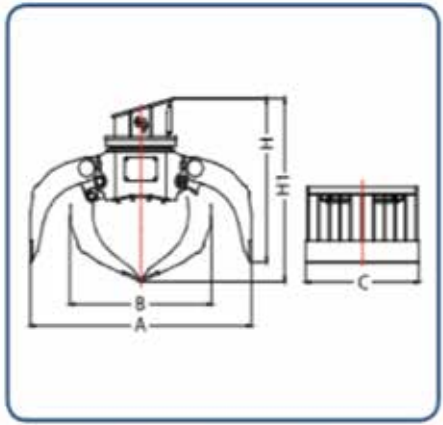
LIGHT DEMOLITION

- Light Structure
- Masonry
- Beams
- Inside Renovation

SORTING GRAPPLE/RAKE

FEATURES

- Link type/ Pendulum type mounting bracket depending upon site requirement.
- Rotation option type: fixed or hydraulic.
- Tooth replacement version.



SPECIFICATIONS

Description	Unit	DMR600	DMR800	DMR1000
Operating Weight	kg	970	1300	2200
Capacity	m3	0.36	0.6	0.93
Max Clamping Force	ton	3.7	5	7.4
A	mm	1790	2180	2445
B	mm	1210	1356	1485
C	mm	800	1000	1100
H	mm	1216	1437	1595
H1	mm	1379	1682	1900
Recommended Carrier	Ton	14~18	18~25	25~38

APPLICATION



SORTING



WASTE HANDLING



CLEANING SITES

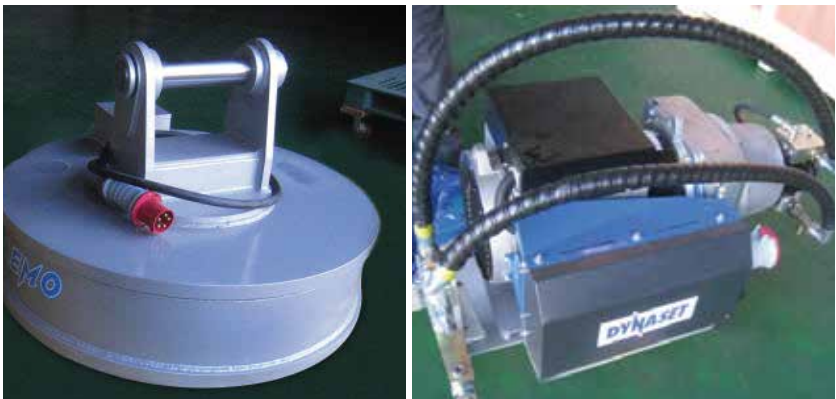


LOADING

MAGNET

FEATURES

- High efficiency for loading/unloading metal scrap.
- Reduced cost of follow-up maintenance.
- Extended operational area.
- Choice of options: fixed, link, knuckle and grapple.
- Supplied with Hydraulic Genset



SPECIFICATIONS

Description		Unit	DMSL920	DMSL1150	DMSL1350	DMSL1550	DMSL1850
Operating Weight		Kg	850	1,400	1,850	2,300	3,000
Excavator Class		Ton	10~15	18~25	25~32	32~45	47~50
Magnet Diameter		Φ	920	1,150	1,350	1,550	1,850
Capacity	Iron Plate	Kg	9,000	14,000	19,000	24,000	27,000
	Lump of Iron		200	600	1,200	1,600	2,000
	Scrap		200	400	800	1,000	1,200
Electric Current		A	26	43	60	78	95
HYDRAULIC MAGNET GENERATOR SPECIFICATION							
Hydraulic Generator (Max)		kW	10	15 (STD)/20 (OPTION)	20	30	
Magnetic Coil Power (Max)		kW	9	14.5/19.5	19.5	29.5	
Operating Voltage		VDC	220±5%				
Pressure Line		P	BSP 1/2"	BSP 3/4"	BSP 3/4"	BSP 3/4"	
Return Line		R	BSP 1/2"	BSP 1"	BSP 1"	BSP 3/4"	
Drain Line		D	06L-(M12X1,5 Male)	BSP 1/4"	BSP 1/4"	M22X1.5	
Flow Min		Lpm	50	68 / 94	94	122	
Flow Max		Lpm	68	95 / 110	110	140	
Pressure at Nominal Power Output		Bar	180	190	190	190	
Pressure Max		Bar	210	210	210	250	

APPLICATION



METAL RECYCLING



STEEL MILLS



INDUSTRIAL METAL HANDLING



METAL ITEMS
LOADING/
UNLOADING

SHEAR

FEATURES

- 360° workable direction.
- H-beam and I-beam can be cut in a single cut.
- Easier cutter replacement.
- Speed-up valve accelerates work speed.
- Speed-up valve as standard for DMS400, DMS550X, DMS700.



SPECIFICATIONS

Description		Unit	None Guide Block Type		Demolition	Guide Block Type			
			DMS250	DMS300		DMS360	DMS400	DMS550X	DMS700
Operating Weight		Kg	2,200	2,920	2,790	3,450	5,300	6,800	7,900
Max. Opening Width		mm	668	570	806	456	710	802	896
Overall Length		mm	2,353	2,410	2,588	2,690	4,625	5,050	5,480
Cutting Force (Max)		Ton	259	370	347	495	1,150	1,500	1,750
Operating Pressure		Bar	320	320	320	320	340	340	340
Oil Flow Rate		Lpm	200~250	250~300	250~300	290~320	200~320	250~320	320~
Excavator Class		Ton	22~27	27~33	27~33	33~45	25~ (2nd) 41~ (3rd)	36~ (2nd) 50~ (3rd)	42~ (2nd) 73~ (3rd)
Cutting Capability	H-Beam	mm	150×150	200×200	200×200	300×300	350×350	380×380	450×450
	I-Beam		200×125	300×150	300×150	350×150	400×175	600×190	600×190
	Solid Round		40	50	50	60	70	80	90
	Channel Plate		250×90×13	380×100×16	380×100×16	425×100×10	425×100×10	425×100×10	425×100×10
	Angle Plate		100×100×10	150×150×15	150×150×15	200×200×20	200×200×25	250×250×25	250×250×30

APPLICATION



WOOD GRAPPLE

FEATURES

- Link type/ Pendulum type mounting bracket depending upon site requirement.
- Rotating type.
- Loading/unloading timbers, logs and pipes.
- Wide jaws suitable for various work requirement.



SPECIFICATIONS

Model	Excavator Operating Weight (Ton) (**)	Area (tip to tip) (m^2)	Tongs Width (mm)
HHG.32	18~34	1.00~1.75	800/640
HHG.33	30~60	1.25~2.50	800/640
HHG.34-K	30~60	2.50~4.00	800

Remarks: ** Excavator Operating weight will change depending upon material application

APPLICATION



PLATE COMPACTOR

FEATURES

- High compaction efficiency for ground, trench and slope.
- Requires only Breaker piping Kit.
- Control block system for easy & safe setting.
- Robust design with bending structure & hub type damper.



SPECIFICATIONS

Description		Unit	DMV50	DMV140	DMV230	DMV300
Impulse Force		Ton	2.3	3.7	7.5	11
Weight		Kg	342	624	850	1282
Compact Area	Width	mm	450	650	750	900
	Length	mm	700	750	1000	1200
Oil Flow Required		lpm	30-55	90-110	130-170	180-250
Max Cycle Per Minute		rpm	2500	2500	2200	2200
Operating Pressure		Bar	100~140	120~160	130~180	140~180
Excavator Class		Ton	2-7	8~15	15~22	25~47

APPLICATION



