

**DEVELON**

Construction Equipment

# Special Application

Material Handler / Super Long Reach /  
High Reach Demolition / Amphibious /  
Amphibious C-series / Front Shovel / Giant Ripper



# Product Line-Up by Tonnage

Emerging (T2,T3)	PRODUCT	14ton	18ton	21ton wheel	22ton	30ton	36ton	45ton	53ton	80ton	100ton
	Demolition (DM)						DX360 DM	DX450 DM	DX530 DM	DX800 DM	DX1000 DM
	Front Shovel (FS)						DX360 FS	DX450 FS	DX530 FS	DX800 FS	DX1000 FS
	Material Handler (MH)		DX180 MH	DX210W MH	DX225 MH	DX300 MH	DX360 MH	DX450 MH	DX530 MH	DX800 MH	DX1000 MH
	Giant Ripper (RP)								DX530 RP	DX800 RP	DX1000 RP
	Super Long Reach (SLR)	DX140 SLR			DX225 SLR	DX300 SLR	DX360 SLR	DX450 SLR	DX530 SLR		
	Amphibious Standard (AM)	DX140 AM			DX225 AM	DX300 AM					
	Amphibious Compact (AMc)	DX140 AMc			DX225 AMc	DX300 AMc					

## Introduction

This Catalogue has been created and developed in order to introduce the wide ranging Develon Special Application line-up and support the Develon dealers.

This catalogue gives you all the General Information, Technical Specifications and Carrier Compatibilities that dealers and customers would need to select right special applications.

\*Information is valid till further notice. Develon reserves the right to modify special applications without prior notification. Please contact your district sales manager for any inquiries and suggestions.

## Material handling & Recycling

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### Material handler



## Demolition

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### HR Demolition



## Quarry & Mining

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### Front Shovel



### Giant Ripper



## Maintenance

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### Amphibious



### SLR



# Recycling Industry

# MATERIAL HANDLER

**DX 210 WMH**

**DX 180 MH**

**DX 225 MH**

**DX 300 MH**

**DX 360 MH**

**DX 450 MH**

**DX 530 MH**

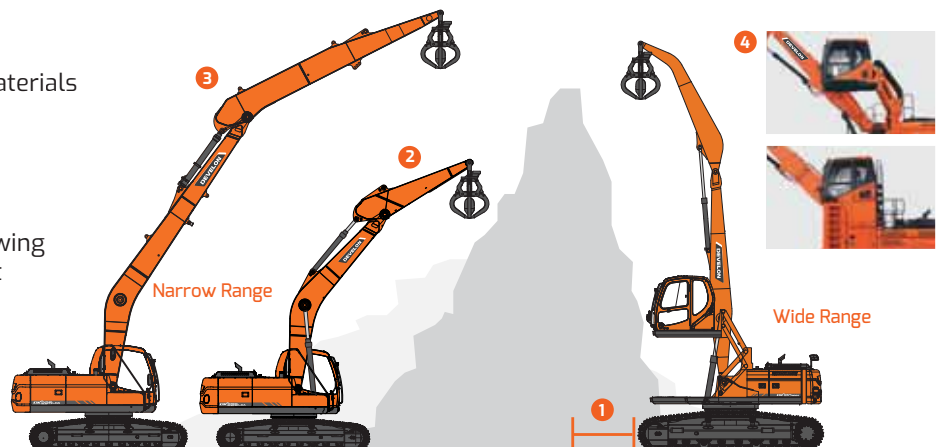
**DX 800 MH**

**DX 1000 MH**



## Benefit of Using Material Handler

- 1 Shorter Horizontal distance from materials
- 2 More height from ground level
- 3 More Handling capacity than SLR (Super Long Reach Front)
- 4 Wider Operator's viewing angle allowing delicate maneuvering of attachment



Standard or super long reach excavator

Material handler

## CUSTOMIZED FEATURES

Material Handler is commonly designed for handling metal scrap, industrial waste and garbage in recycling yards or landfill sites. Sometime it also used in loading and unloading materials alongside barges.

### SPECIALIZED CABIN / GUARD / FRONT OPTION

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#### Cabin riser system

Provides a stable position to offer wide viewing range.

#### Elevating cabin system

Provides excellent visibility and high flexibility.



#### Falling Operator Guard System (FOGS)

Operator protective guard (OPG) on the cabin to protect operator from falling objective from the top.



#### Lowering cab in emergency

When problem occurred during tilting position, it help the cab to change back into original position.

#### Straight Linkage Arm Front

Arm for material handler optimized for linkage type attachments.



#### Gooseneck Arm Front

Arm for material handler optimized for pendulum type attachments.



# Recycling Industry

# MATERIAL HANDLER

## ATTACHMENTS

### VARIOUS SELECTABLE ATTACHMENT



#### Orange Grapple

is commonly designed for handling scrap iron in wrecking yards or recycling plants and waste in landfill sites. Sometime it also used in building sites for transferring stones.



#### Clamshell Bucket

is commonly used in dredging, excavation or material handling however, each application has its unique characteristics and has to be designed optimally for maximum efficiency.



#### Log Grapple

is specially designed for sorting, loading, unloading and laying timber, log and wood with Develon Log loader in forestry.

Attachment		Orange Grapple						Clamshell Bucket								
Model		OG18	OG22	OG30	OG34	OG42	OG50	CB14	CB18	CB22	CB25	CB30	CB34	CB42	CB50	CB80
Operating Weight	kg	1,100	1,300	1,700	2,000	2,080	2,500	900	1,200	1,440	1,560	1,920	2,040	2,220	2,280	2,410
Jaw/Bucket Opened Length	mm	1,650	1,840	1,980	2,100	2,100	2,200	1,868	1,868	2,080	2,080	2,135	2,135	2,385	2,385	2,500
Jaw/Bucket Closed Length	mm	1,800	2,090	2,200	2,300	2,350	2,460	1,455	1,455	1,725	1,725	1,985	1,985	2,385	2,385	2,400
Jaw Bucket Width	mm	-	-	-	-	-	-	600	1,100	900	1,100	1,300	1,400	1,100	1,200	1,500
Capacit	m³	0.40	0.50	0.60	0.72	0.80	0.97	0.40	0.70	0.80	1.00	1.40	1.50	1.60	1.70	2.00

Applicable Carrier	DX210W MH															
	DX180 MH															
	DX225 MH															
	DX300 MH															
	DX360 MH															
	DX450 MH															
	DX530 MH															
	DX800 MH															
	DX1000 MH															

\* Attachment Recommendation Indicator

-Blue range :

-Transition range :

-Red range :

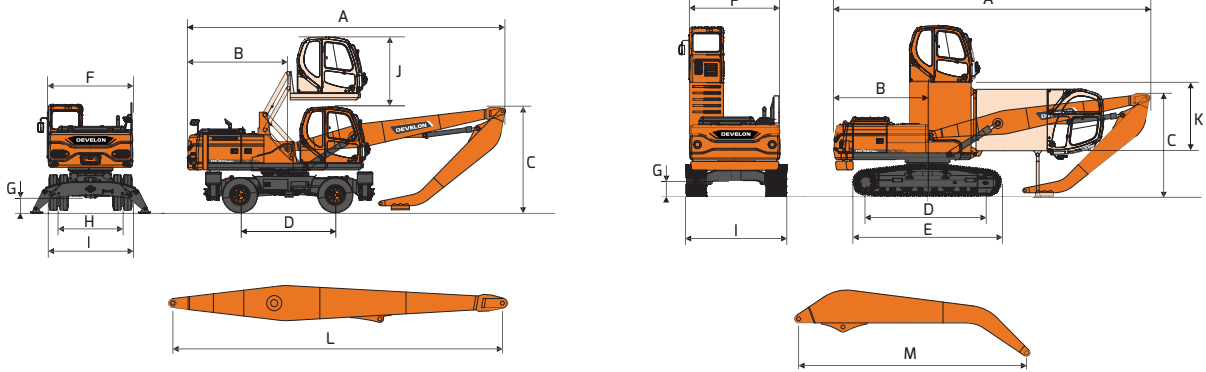
Attachment in this range could be used for material density about 1,800kg/m<sup>3</sup>

Attachment in this range could be used for material density about 1,500kg/m<sup>3</sup>

Attachment in this range should be used for material density about 1,200kg/m<sup>3</sup>

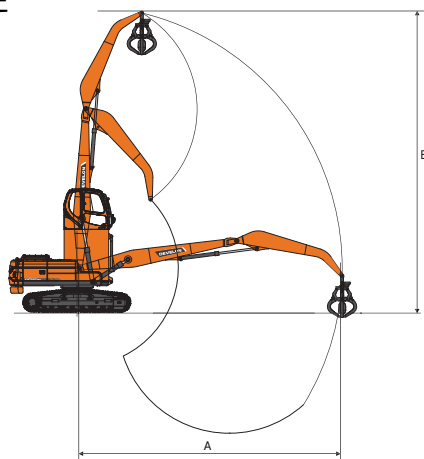
# TECHNICAL SPECIFICATION

## DIMENSIONS



	Unit	DX210W MH	DX180 MH	DX225 MH	DX300 MH	DX360 MH	DX450 MH	DX530 MH	DX800 MH	DX1000 MH
- Engine Rated Power	kW	121	88	125	151	238	257	257	354	470
- Engine Max. Torque	N.m	706	451	686	902	1,400	1,550	1,550	2,177	2,769
A Swing Length	mm	9,626	9,500	9,809	11,210	12,130	13,370	13,700	14,810	22,820
B Tail Swing Radius	mm	2,850	2,450	2,750	3,230	3,530	3,760	3,800	4,010	4,565
C Shipping Height	mm	3,550	3,400	3,500	4,450	5,600	6,050	6,350	7,710	4,840
D Tumbler Distance (Wheel base)	mm	2,850	3,180	3,650	4,040	4,040	4,250	4,470	4,730	5,100
E Track Length	mm	-	3,968	4,445	4,950	4,960	5,200	5,480	5,960	6,341
F House Width	mm	2,530	2,540	2,710	3,072	3,103	3,103	3,352	3,410	3,410
G Ground Clearance	mm	350	455	451	470	475	585	725	850	860
H Tread Width	mm	1,914	-	-	-	-	-	-	-	-
I Shipping Width	mm	2,500	2,800	2,990	3,200	3,280	3,350	3,580	3,560	3,440
J Elevating Stroke	mm	2,000/2,500	-	-	-	-	-	-	-	-
K Riser Height	mm	-	1,200 1,500 1,800	1,200 1,500 1,800	1,200 1,500 1,800	1,200 1,500 1,800	1,200 1,500 1,800	1,200 1,500 1,800	1,200 1,500 1,800	1,200 1,500 1,800
L Boom Length	mm	6,500	6,100	6,500	7,800	8,600	9,600	10,000	11,000	10,900
M Arm Length	mm	4,500	4,200	4,500	5,400	6,050	6,600	7,100	7,500	8,000

## WORKING RANGE



	Unit	DX210W MH	DX180 MH	DX225 MH	DX300 MH	DX360 MH	DX450 MH	DX530 MH	DX800 MH	DX1000 MH
A Max Pin Reach	mm	10,895	10,000	10,835	12,960	14,385	15,845	16,720	18,240	18,230
B Max. Pin Height	mm	12,140	11,000	12,125	14,130	15,665	16,880	18,135	19,850	19,680

# DEVELON

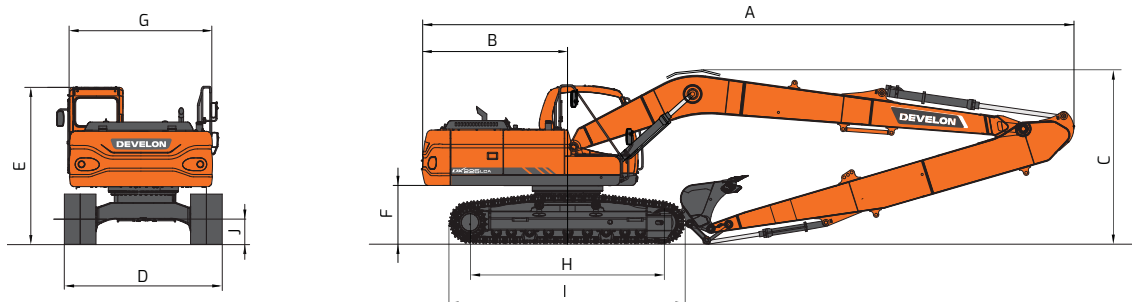
Special Applications

## SUPER LONG REACH

***DX140 SLR***  
***DX225 SLR***  
***DX300 SLR***  
***DX360 SLR***  
***DX450 SLR***  
***DX530 SLR***



## TECHNICAL SPECIFICATIONS



### DIMENSIONS

		Unit	DX140 SLR	DX225 SLR		DX300 SLR		DX360 SLR			DX450 SLR	DX530 SLR
			12M	15M	17M	18M	19M	16M	19M	20M	20M	20M
-	Boom Length	mm	7,000	8,500	9,700	10,000	10,500	9,200	10,500	11,200	11,300	11,000
-	Arm Length	mm	5,000	6,200	6,700	7,000	7,300	6,000	7,500	8,100	8,500	8,000
-	Bucket Capacity	m³	0.28	0.40	0.40	0.61	0.56	1.09	0.81	0.66	0.81	1.25
A	Shipping Length	mm	10,100	12,549	13,689	14,370	14,940	14,010	15,340	16,090	16,470	16,170
B	Tail Swing Radius	mm	2,200	2,909	2,909	3,230	3,230	3,530	3,530	3,530	3,760	3,800
C	Shipping Height	mm	3,100	3,400	3,620	3,430	3,630	3,290	3,660	3,680	3,880	4,130
D	Shipping Width	mm	2,590	2,990	2,990	3,200	3,200	3,280	3,280	3,280	3,350	3,540/4,100 *
E	Height over Cabin	mm	2,773	2,980	2,980	3,050	3,050	3,100	3,100	3,100	3,210	3,210
F	C/Weight Clearance	mm	894	1,066	1,066	1,120	1,120	1,160	1,160	1,160	1,270	1,273
G	House Width **	mm	2,540	2,710	2,710	2,960	2,960	2,990	2,990	2,990	2,990	2,990
H	Tumbler Distance	mm	3,034	3,650	3,650	4,040	4,040	4,040	4,040	4,040	4,250	4,475
I	Track Length	mm	3,755	4,445	4,445	4,950	4,950	4,960	4,960	4,960	5,200	5,480
J	Ground Clearance	mm	410	451	451	470	470	475	475	475	585	530

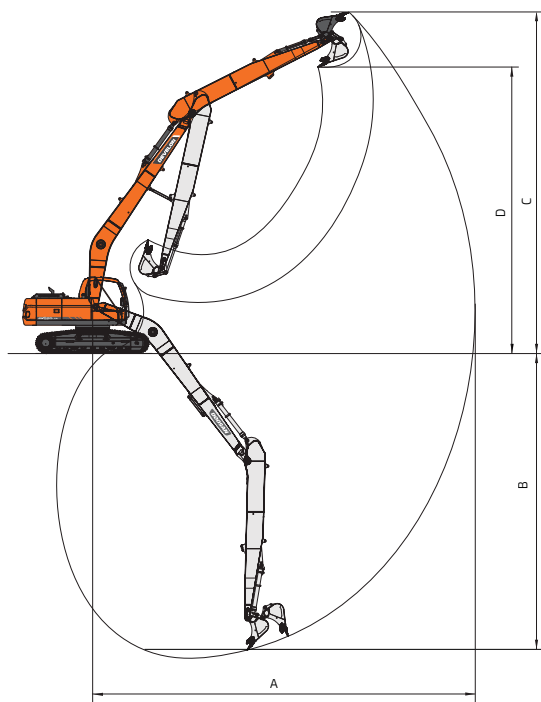
\* Retracted / Extended

\*\* Frame Only

### WORKING RANGES

		Unit	DX140 SLR	DX225 SLR		DX300 SLR	
			12M	15M	17M	18M	19M
A	Max. Digging Reach	mm	12,340	15,220	16,960	17,500	18,210
B	Max. Digging Depth	mm	9,620	11,660	12,860	13,340	14,110
C	Max. Digging Height	mm	11,590	12,780	14,640	15,100	15,340
D	Max. Loading Height	mm	9,570	10,470	12,300	12,760	13,020

		Unit	DX360 SLR			DX450 SLR	DX530 SLR
			16M	19M	20M	20M	20M
A	Max. Digging Reach	mm	16,010	18,560	19,800	20,240	19,610
B	Max. Digging Depth	mm	11,440	14,560	15,110	15,690	15,120
C	Max. Digging Height	mm	14,160	14,410	16,260	16,710	14,550
D	Max. Loading Height	mm	11,380	11,860	13,650	14,100	11,890



# Demolition

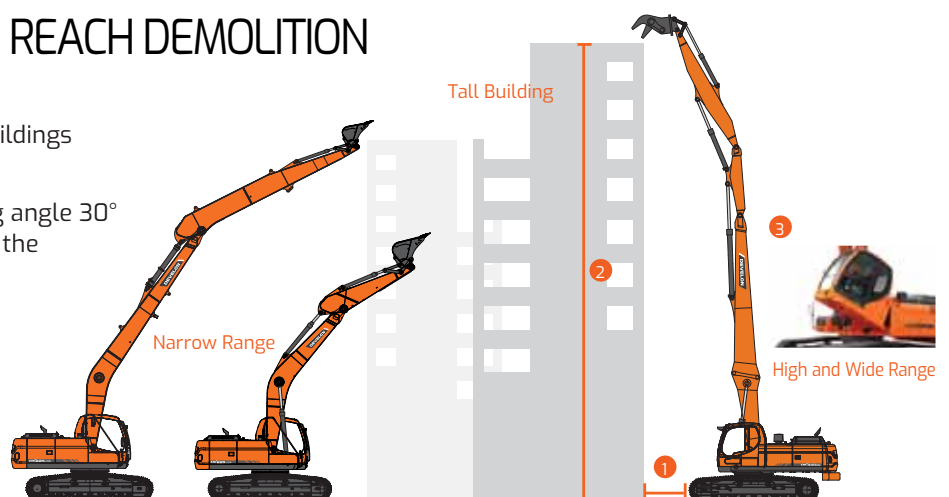
## HIGH REACH DEMOLITION



**DX 360 DM**  
**DX 450 DM**  
**DX 530 DM**  
**DX 800 DM**  
**DX 1000 DM**

### BENEFIT OF USING HIGH REACH DEMOLITION

- ❶ Shorter Horizontal distance from buildings
- ❷ More height from ground level
- ❸ Higher and Wider Operator's viewing angle 30° allowing operators to see the top of the building and control ATT delicately



Standard or super long reach excavator

High Reach Demolition

## CUSTOMIZED FEATURES

High Reach demolition is mainly designed for more productive, cost-effective and safe tearing-down of buildings and other structures.

- Minimalized damage to surrounded building
- Secured operator's safety
- Maximized work efficiency though easy access to building by 3 pieces front parts.

### OPTIMIZED FRONT LINKAGE PART

#### Durable front linkage

Designed highly reinforced box section and used high strength steel for enhancing strength

#### Digging front (Optional)

Digging front package available Boom can be divided for the machine to use standard excavation purpose.



#### Water Spray System (Optional)

For controlling dust from demolishing, optional water spray system is available.



#### Intermediates boom

can be inserted between base boom and extension boom for more working height.



#### CCTV Camera on end arm & Monitor inside cabin (Optional)

Optional Camera located on end-arm support to secure visibility over 20m height.



### SPECIALIZED CABIN & GUARD OPTION

#### Titling Cabin system

The cabin tilted to about 30° degrees upward by hydraulic cylinder offer to observe the top of the building and to control the attachment delicately.



#### Fall Objective Protection Structure (FOPS)

Operator protective guard (OPG) on the cabin to protect operator from falling objective from the top.



#### Lowering cab in emergency

When problem occurred during tilting position, it help the cab to change back into original position.



### OPTIMIZED FRONT LINKAGE PART

During the demolishing, if front angle drop down to certain angle could be occurred safety issue, it warns to operator to adjust working front angle.



# Demolition

# HIGH REACH DEMOLITION

## ATTACHMENTS

### SUPER LONG REACH KIT (OPTIONAL)



#### Fixed Pulverizer

is designed for both primary demolition work and secondary concrete reduction. For secondary demolition, it is ideal for breaking out concrete from fixed structure, pulverizing concrete, separating different materials for recycling, and cutting reinforced rods and small steel profile.



#### Rotating Crusher

is designed for both primary demolition work and secondary concrete reduction. Especially for secondary demolition, it is ideal for breaking out concrete from fixed structure, pulverizing concrete, separating different materials for recycling, cutting reinforced rods and small steel profile, and working with high reach boom.



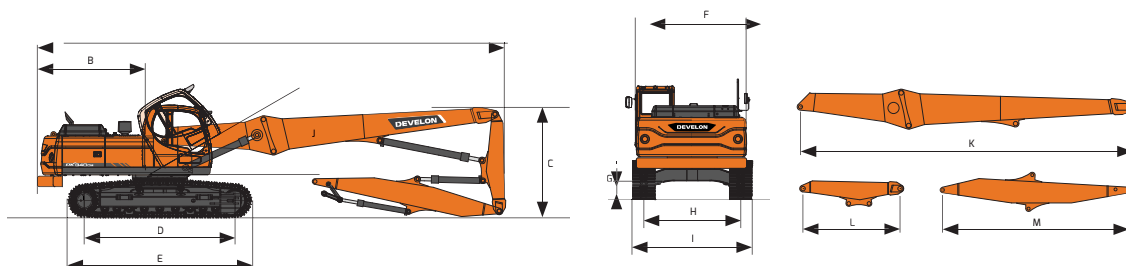
#### Multi-Processor

is designed for all demolition sites by interchanging jaw sets mounted on a single base unit.

Attachment		Fixed Pulverizer			Rotating Crusher			Multi Processor							
Model		FP22	FP25	FP34	RC22	RC25	RC34	MP22-C	MP22-D	MP22-P	MP22-S	MP34-C	MP34-D	MP34-P	MP34-S
Operating Weight	kg	1,375	1,890	2,745	1,780	2,300	2,950	2,040	2,050	2,210	1,880	3,030	3,001	3,130	2,990
Overall Length	mm	1,985	2,206	2,388	2,078	2,474	2,686	2,326	2,291	2,342	2,175	2,533	2,565	2,563	2,553
Jaw Width	mm	438/350	470/346	532/370	438/350	470/346	532/370	130	130	320	62	130	130	380	62
Max. Jaw Opening	mm	732	889	1,061	732	925	1,056	903	797	89	503	1,119	983	1,008	573
Max. Operating Pressure	bar	350	350	350	350	350	350	350	350	350	350	350	350	350	350
Crushing /Closing Force	ton	54	64	78	56	67	78	68	70	64	80	240	461	240	563
Cutter Blade Length	mm	240	360	360	240	360	360	237	355	237	348	240	461	2400	563
Required Oil Flow	lpm	150~250	150~250	200~300	150~250	150~250	200~300	150~250	150~250	150~250	150~250	200~300	200~300	200~300	200~300
Applicable Carrier	DX360DM	●	●		●			●	●	●	●				
	DX450DM	●	●		●	●		●	●	●	●				
	DX530DM	●	●	●	●	●		●	●	●	●				
	DX800DM		●	●		●	●	●	●	●	●				
	DX1000DM		●	●		●	●					●	●	●	●

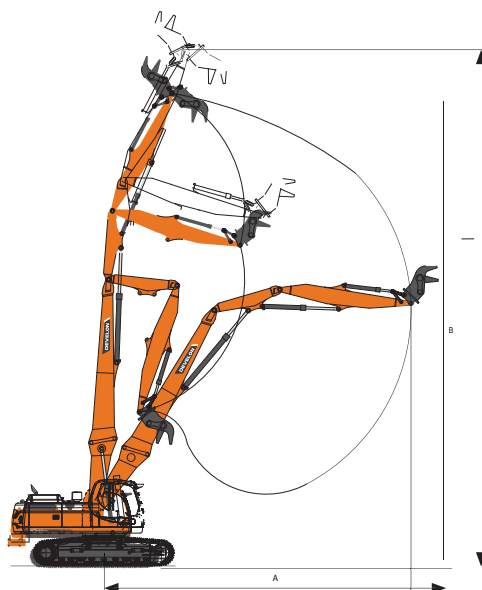
# TECHNICAL SPECIFICATION

## DIMENSIONS



		Unit	DX360 DM	DX450 DM	DX530 DM		DX800 DM	DX1000 DM
A	Sipping Length	mm	14,680	15,930	18,200	19,000	22,210	18,875
B	Tail Swing Radius	mm	3,530	3,760	3,800	3,800	4,010	4,565
C	Shipping Height	mm	3,450	3,450	3,720	3,720	3,850	3,845
D	Tumbler Distance	mm	4,040	4,250	4,470	4,470	4,730	5,100
E	Track Length	mm	4,960	5,200	5,480	5,480	5,960	6,341
F	House Width	ton	3,103	3,103	3,352	3,352	3,410	3,410
G	Ground Clearance	mm	475	585	725	725	850	860
I	Shipping Width	mm	3,280	3,350	3,580	3,580	3,560	3,440
J	Cabin Tilting Angle	degree	40°	40°	40°	40°	40°	40°
K	Boom Length	mm	10,500	11,700	13,700	14,500	17,400	18,390
L	Middle Arm Length	mm	2,600	2,600	2,700	2,700	2,700	2,800
M	End Arm Length	mm	6,500	7,000	8,000	9,000	10,600	12,200

## WORKING RANGE



		Unit	DX360 DM	DX450 DM	DX530 DM		DX800 DM	DX1000 DM
A	Max Pin Reach	mm	12,065	13,435	13,840	15,000	18,000	22,000
B	Max. Pin Height	mm	21,215	22,890	26,180	28,000	32,900	36,015

# Special Application **AMPHIBIOUS**

**DX140 AM**  
**DX225 AM**  
**DX300 AM**



## **BENEFIT OF USING AMPHIBIOUS**

DEVELON Amphibious is designed to enhance mobility in marshes, swampy area and soft terrain with floating pontoons. DEVELON also offer Super Long Reach front kit for more deep and far digging. Using Pontoon Undercarriage kit and SLR kit together, it maximizes versatility of DEVELON excavator.

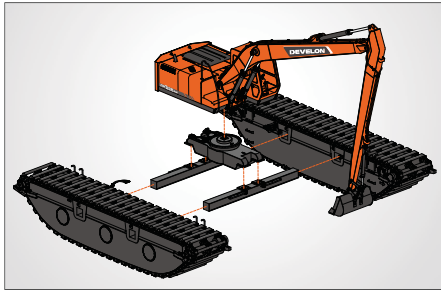
DEVELON Amphibious has proven itself and performed exceedingly well in the followings applications :

- Dredging
- Landscaping
- Erosion control and prevention
- Deepening of canal and river deltas
- Maintenance and cleaning of rivers, lakes, shorelines, ponds
- Swamps and soft terrain construction.

## CUSTOMIZED FEATURES

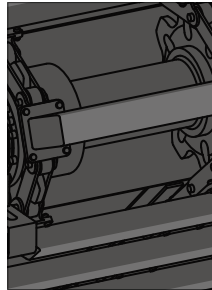
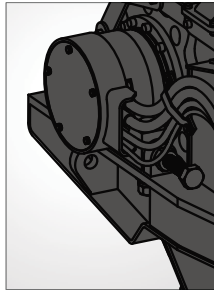
### AMPHIBIOUS MODULAR DESIGN

- Designed to be easily transported by low bed trailer.
- Both the assembly and disassembly processes can be achieved in under 3 hours if equipped with proper tools and crane.
- Easy to assemble



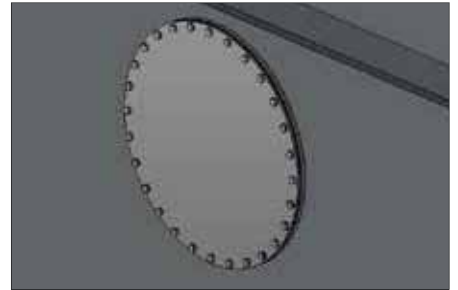
### MULTI-SYNCHRONOUS DRIVE SYSTEM

- Proprietary multi-synchronous drive motor design.
- Motors are mounted on front and rear of each pontoon.
- It offers superior tracking power as compared to a single motor design.
- A similar concept that is applied to a full time 4 x 4 gear system of a land vehicle



### AXLE DRUM AND SPROCKET

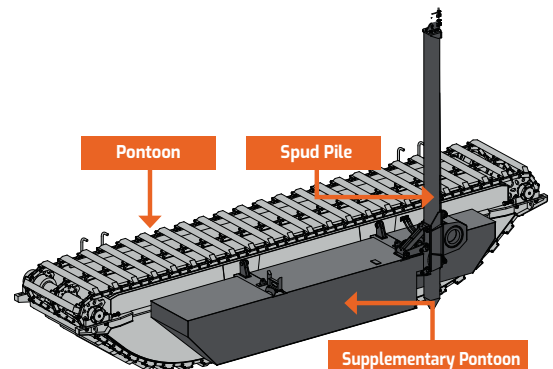
Non weld-on sprocket design which precisely machined and bolted onto axial ensures a perfect alignment of each sprocket across the axial, a critical criterion for the longevity of the track chain.



## AMPHIBIOUS OPTION

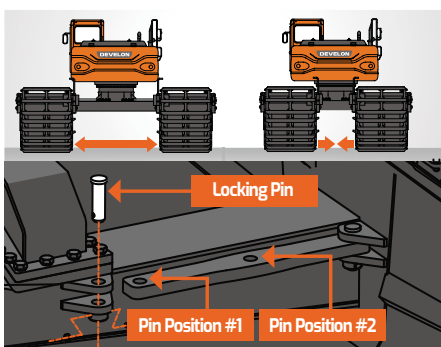
### SUPPLEMENTARY PONTOONS AND SPUDS(OPTIONAL)

- Supplementary pontoons can be added on each side to boost stability in deeper water operation.
- Spud piles attach to supplementary pontoons help to overcome buoyancy effect, it offers added stability and enhanced operability.



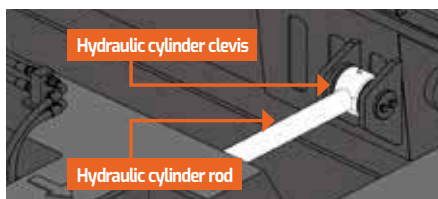
### NON HYDRAULIC EXTENDABLE AMPHIBIOUS (STANDARD)

- For non hydraulic extendable design, there are 2 separate locking pin positions for each pontoon on the horizontal mounting beams.
- Users can choose their desired overall track width during the installation process.



### HYDRAULIC EXTENDABLE AMPHIBIOUS & RETRACTABLE PONTOONS (OPTIONAL)

- Designed for ease of land transportation of complete machine by trailer when pontoons are fully retracted.
- Higher ROI through long term saving of manpower, crane hiring and other logistical cost.



### HIGH STRENGTH POLYMER SHOE (OPTIONAL)

- Polymer track shoe can absorb shock from outer impact because it is more resilient than steel.
- Surface of polymer shoe is harder than steel, so it is free from wearing and rust.



# Special Application

# AMPHIBIOUS

## ATTACHMENTS

### CLAMSHELL BUCKET

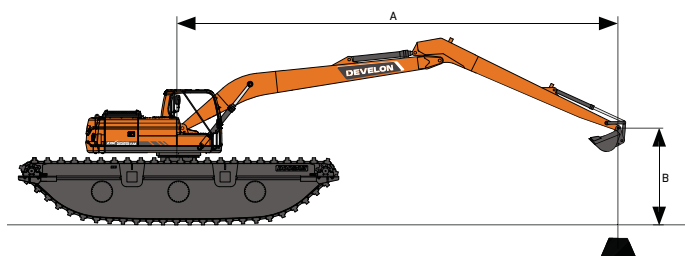
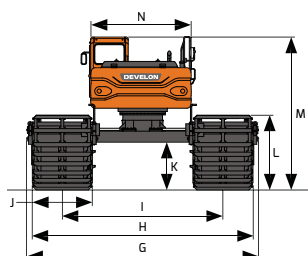
is commonly used in dredging, excavation or material handling however, each application has its unique characteristics and has to be designed optimally for maximum efficiency.

	Unit	DX140 AM	DX225 AM	DX300 AM
Capacity	m <sup>3</sup>	0.5	0.75	0.75
Operating Weight	kg	680	900	1,150
Operating Length	mm	1,770	1,850	1,950
Operating Width	mm	980	1,000	1,000
Operating Height	mm	1,490	1,700	1,820



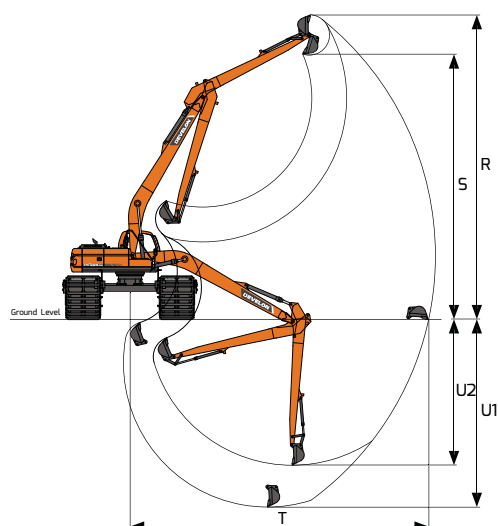
# TECHNICAL SPECIFICATION

## DIMENSIONS



		Unit	DX140 AM	DX225 AM	DX300 AM
	Boom Length	mm	7,020	8,100	9,130
	Arm Length	mm	4,100	5,800	6,460
	Bucket Capacity (General Purpose)	m <sup>3</sup>	0.4	0.5	0.8
A	Max. Track Length	mm	9,290	9,630	10,840
B	Track Length on Ground	mm	4,500	4,150	5,000
C	Rear Upper Structure Length	mm	2,200	2,750	3,230
D	Overall Length	mm	9,865	13,550	15,500
E	Height of Boom	mm	915	3,470	4,100
F	Counterweight Clearance	mm	1,835	2,170	2,240
G	Overall Width, min/max	mm	4,220 / 5,320	4,800 / 6,280	6,200 / 7,200
H	Undercarriage Width, min/max	mm	3,950 / 5,050	4,470 / 5,950	5,910 / 6,910
I	Track Gauge, min/max	mm	2,500 / 3,600	2,850 / 4,330	3,990 / 4,990
J	Track Cleat Width	mm	1,450	1,620	1,920
K	Min. Ground Clearance	mm	1,140	1,300	1,300
L	Track Height	mm	1,690	2,030	2,030
M	Overall Cabin Height	mm	3,720	4,084	4,170
N	Upper Structure Overall Width	mm	2,540	2,710	3,072

## WORKING RANGE



		Unit	DX140 AM	DX225 AM	DX300 AM
	Boom Length	mm	7,020	8,100	9,130
	Arm Length	mm	5,100	5,800	6,460
	Bucket Capacity (General Purpose)	m <sup>3</sup>	0.4	0.5	0.8
A	Recommended Outreach	mm	12,000	14,000	16,000
B	Max. Cutting Height	mm	12,500	14,500	17,100
C	Max. Loading Height	mm	11,500	13,000	15,500
D1	Max. Digging Depth from Front	mm	7,500	8,500	10,500
D2	Max. Digging Depth from Side	mm	6,950	7,200	9,000

# Special Application AMPHIBIOUS

Superior Quality with Reasonable Price

**DX140 AMc**  
**DX225 AMc**  
**DX300 AMc**



## **BENEFIT OF USING AMPHIBIOUS C-SERIES**

DEVELON Amphibious c-series is designed to enhance mobility in marshes, swampy area and soft terrain with floating pontoons. It is much more compact, easier to transport and has higher fuel efficiency.

DEVELON also offer Super Long Reach (SLR) front kit for more deep and far digging.

Using Pontoon Undercarriage kit and SLR kit together, it maximizes versatility of DEVELON excavator

DEVELON Compact Amphibious has proven itself and performed exceedingly well in the followings applications :

- Dredging
- Landscaping
- Erosion control and prevention
- Deepening of canal and river deltas
- Maintenance and cleaning of rivers, lakes, shorelines, ponds
- Swamps and soft terrain construction.

## CUSTOMIZED FEATURES

### LARGE TRAVEL MOTOR & SPROCKET

- Application of large capacity of travel device and sprocket provides excellent ground and floating travel performance.

### OPTIMIZED PONTOON STRUCTURE

- High quality steel applied on pontoon bodies and track chain guarantee excellent durability and wear resistance.
- Simple and strong structure for buoyancy and water traveling and working.

### ADVANCED DESIGN FOR SAFETY AND MAINTENANCE

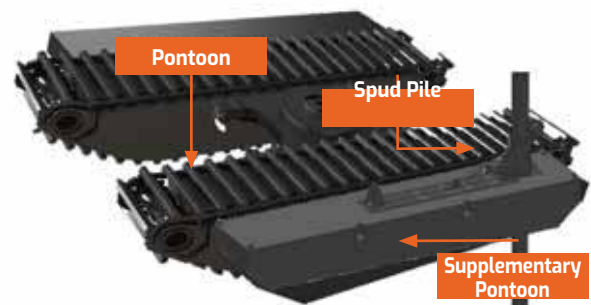
- Flooding-safe pontoon due to three chambers structure separated and sealed internally.
- Three manholes for easy and safe maintenance.



## AMPHIBIOUS OPTION

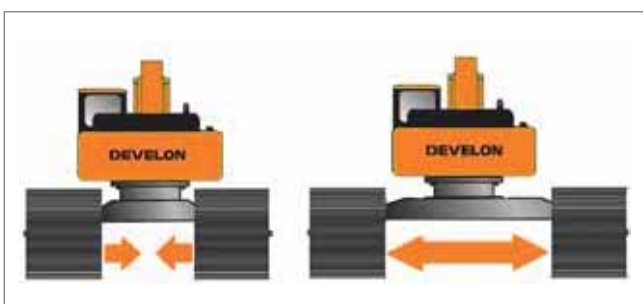
### SUPPLEMENTRY PONTOONS AND SPUDS(OPTIONAL)

- Side pontoon is needed when water depth exceeds the height of main pontoon. It only takes 10 minutes for the installation of side pontoon.
- Spuds are fully hydraulically controlled in cabin, with which the machine is allowed to work in 2~5 meters deep water.



### HYDRAULIC EXTENDABLE & RETRACTABLE PONTOONS (STANDARD)

- Designed for ease of land transportation of complete machine by trailer when pontoons are fully retracted.
- It needs minimal logistical cost for transportation.



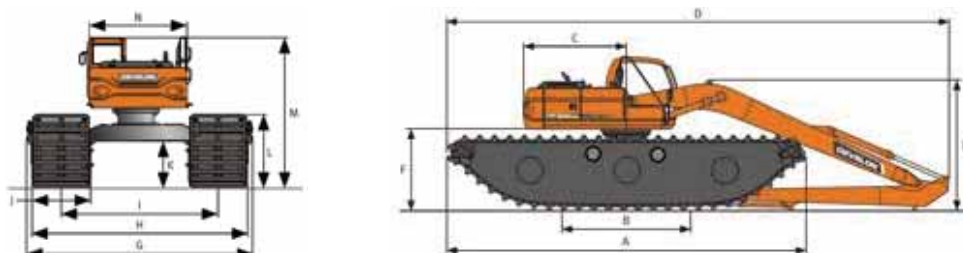
### HIGH STRENGTH METAL SHOE (STANDARD)

- The chain has high strength and high wear resistance property.
- It performs better under low speed and heavy duty conditions. It also increases transmission efficiency.



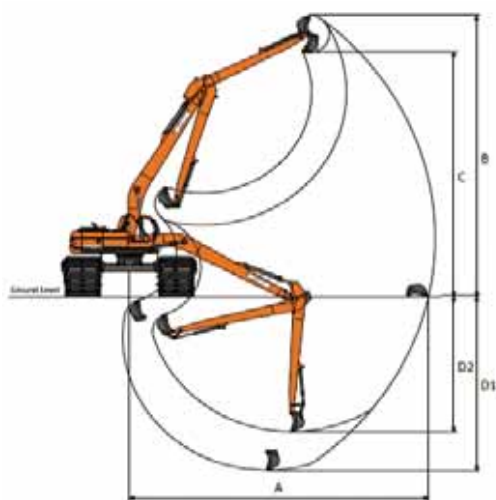
# TECHNICAL SPECIFICATION

## DIMENSIONS



Dim.	Configuration	Unit	DX140 AMc	DX225 AMc	DX300 AMc
	Working Range		12m SLR	14m SLR	17m SLR
-	Boom Length	mm	7,000	8,500	10,000
-	Arm Length	mm	5,100	6,200	7,000
-	Bucket Capacity	m <sup>3</sup>	0.4	0.5	0.8
-	Number of Internal Chamber of Pontoon	ea	3	3	3
-	Number of Manhole for Maintenance	ea	3	3	3
-	Number of Shoe Chain on Each Pontoon	ea	2	2	2
A	Max. Track Length	mm	7,000	8,140	9,100
B	Track Length on Ground	mm	3,380	3,990	5,200
C	Rear Swing Radius	mm	2,205	2,792	3,188
D	Overall Length	mm	8,720	10,330	12,450
E	Height of Boom	mm	2,950	3,500	3,700
F	Counterweight Clearance	mm	1,745	2,070	2,200
G	Overall Width, min./max.	mm/mm	3,200 / 4,000	4,000 / 5,000	4,490 / 5,490
H	Undercarriage Width, min./max.	mm/mm	3,190 / 3,990	3,990 / 4,990	4,480 / 5,480
I	Track Gauge, min./max.	mm/mm	1,950 / 2,750	2,500 / 3,500	2,890 / 3,890
J	Track Cleat Width	mm	1,250	1,500	1,600
K	Min. Ground Clearance	mm	1,048	1,190	1,280
L	Track Height	mm	1,600	1,800	1,900
M	Overall Cabin Height	mm	3,630	3,900	41,00
N	Upper Structure Overall Width	mm	2,540	2,710	2,960

## WORKING RANGE



		Unit	DX140 AMc	DX225 AMc	DX300 AMc
	Boom Length	mm	7,000	8,500	10,000
	Arm Length	mm	5,100	6,200	7,000
	Bucket Capacity	m <sup>3</sup>	0.4	0.5	0.8
A	Recommended Outreach	mm	12,000	14,900	16,800
B	Max. Cutting Height	mm	12,500	14,500	14,900
C	Max. Loading Height	mm	11,500	13,000	13,100
D1	Max. Digging Depth from Front	mm	7,500	8,500	12,500
D2	Max. Digging Depth from Side	mm	6,950	7,200	9,800

# DEVELON

Special Application

## FRONT SHOVEL

**DX360 FS / DX450 FS / DX530 FS  
DX800 FS / DX1000 FS**



# **DX360 FS / DX450 FS DX530 FS / DX800 FS DX1000 FS**

## **KEY POINT**

### **CUSTOMIZED FEATURES**

- Wide range of model choice
- Optimized front linkage part
- High productivity
- Specialized cabin & Guard option
- Various bucket option

### **RELIABILITY**

- Reliable and well protected hydraulic, electric and lubrication routings with simple, optimized layout

### **COMFORT**

- Operator orientated cabin design
- Simple and easy control panel





## FUEL EFFICIENCY

- Relief cut o
- Optimized lever control & Idle
- Engine & Pump Matching

## PERFORMANCE

- Powerful Doosan Engine for each model
- E-POS System  
(Electronic Power Optimizing System)

## MAINTENANCE

- Easy access to all maintenance components
- Intuitive maintenance data management

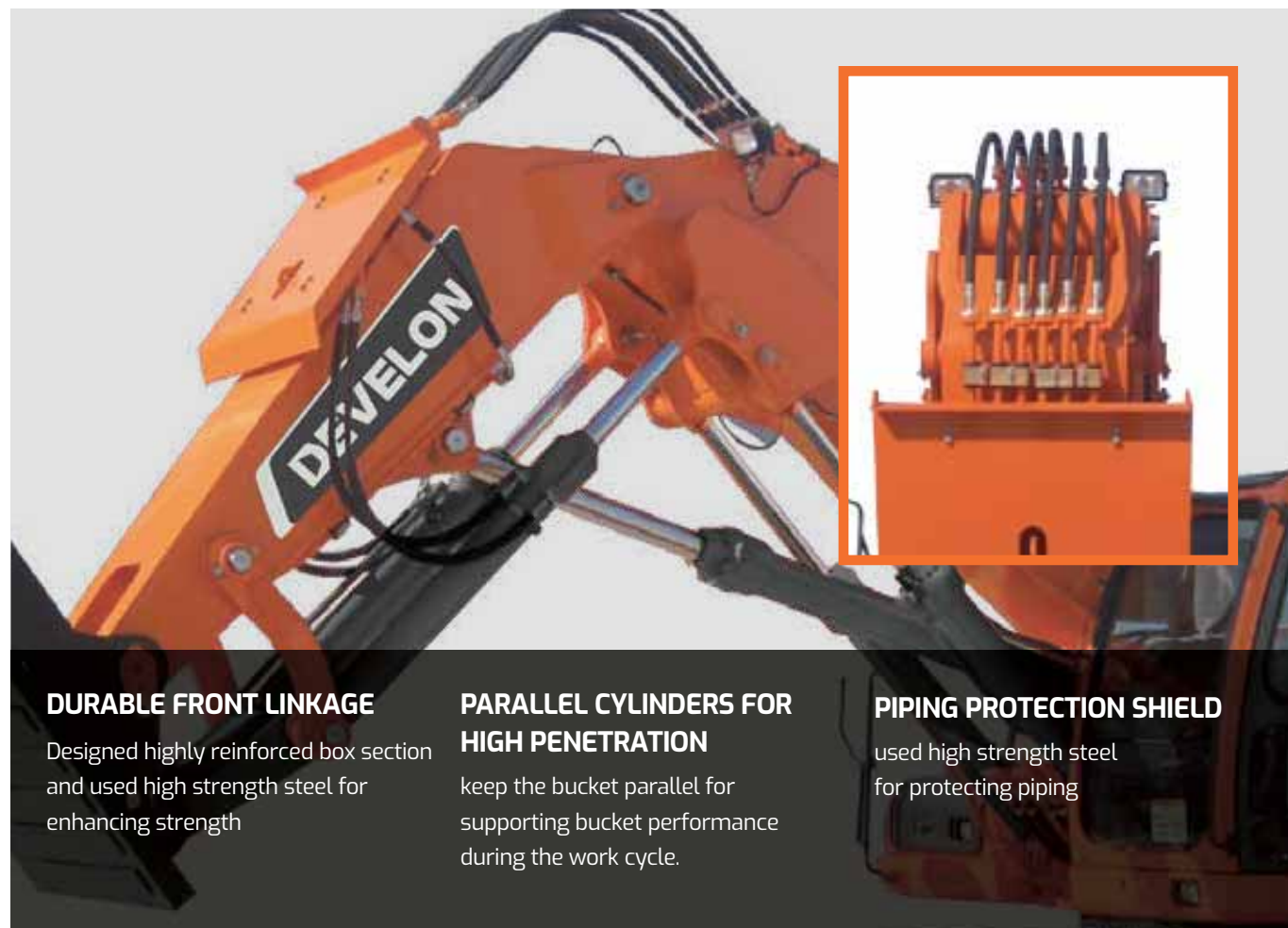
# CUSTOMIZED FEATURES

**Front Shovel** is the machine to dig and dump big volume material at one time. It can put stone, gravel, soil or sand to dump truck from ground surface. Working range is short and shovel bucket is rotated in the opposite direction to the general excavator's backhoe for quick working with approached truck.

## WIDE RANGE OF MODEL CHOICE

Model	Bucket Dump Type	Max. Dumping Height (mm)	Max. Digging Reach (mm)	Boom Length (mm)	Arm Length (mm)	Additional Counter-Weight (kg)	Bucket Capacity (m <sup>3</sup> )
DX360 FS	Bottom dump	7,060	8,330	3,850	2,650	-	1.8 / 2.0 / 2.2
DX450 FS	Bottom dump	7,000	8,810	4,200	2,750	-	2.1 / 2.3 / 2.5
DX530 FS	Bottom dump	7,300	9,020	4,300	2,800	-	2.4 / 2.6 / 2.8
DX800 FS	Bottom dump	7,410	9,750	4,500	3,100	3,000	4.0 / 4.5 / 5.0
DX1000 FS	Bottom dump	8,350	10,400	4,900	3,200	-	5.0 / 5.5 / 6.0

## OPTIMIZED FRONT LINKAGE PART



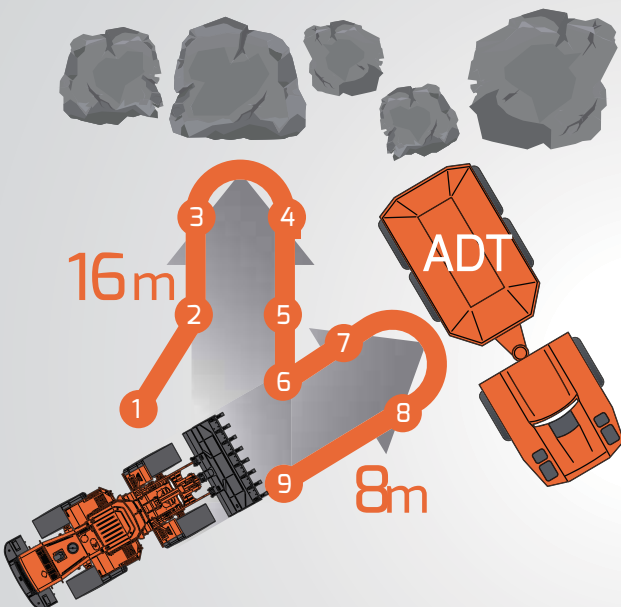
**DURABLE FRONT LINKAGE**  
Designed highly reinforced box section and used high strength steel for enhancing strength

**PARALLEL CYLINDERS FOR HIGH PENETRATION**  
keep the bucket parallel for supporting bucket performance during the work cycle.

**PIPING PROTECTION SHIELD**  
used high strength steel for protecting piping

## HIGH PRODUCTIVITY

Standard V shape cycle



16m

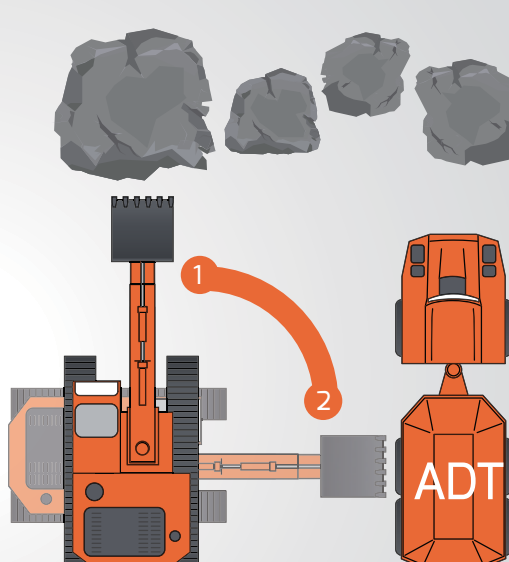
8m

ADT

**ENHANCED WORKING MECHANISM**

- Shorter Cycle time Increases unit per hour.

Standard Swing cycle



ADT

**HIGH WORKING EFFICIENCY**

- Accessibility to the rugged terrain.
- Perfect match with DEVELON.
- Cost saving effect such as Labor and Fuel consumption.

## HIGH PRODUCTIVITY

**CABIN RISER SYSTEM**

Provides a stable position to offer wide viewing range.



**FALL OBJECTIVE PROTECTION STRUCTURE (FOPS)**

Operator protective guard (OPG) on the cabin to protect operator from falling objective from the top



# CUSTOMIZED FEATURES

## VARIOUS BUCKET OPTION

### FEATURES & BENEFITS

#### BOTTOM DUMP BUCKETS ARE PROVIDED FOR EACH FRONT SHOVEL MODEL.

- Designed for dumping easily without tilting by opening the shell from bottom plate.
- Large bucket capacity for high breaking force capable of excavating heavily compacted dirt and rock.



## CUSTOMIZED CHOICE DEPEND ON JOB SITE CONDITION

### CLASSIFICATION FOCUSED ON DURABILITY

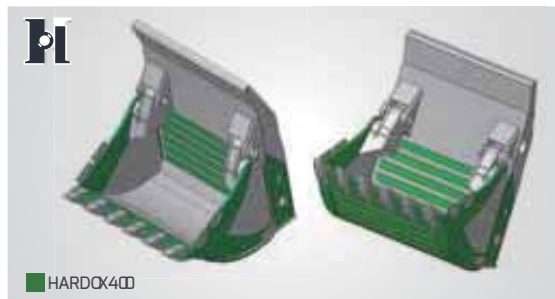
#### H CLASS

##### MATERIAL SUCH AS :

Hard packed clay, short limestone, limited rock content and gravel.

##### FEATURES & BENEFITS

- Spill guard is applied to load more capacity.
- High grade material composition for better durability
- Use HARDOX400 grade material on Lip plate, wear parts.



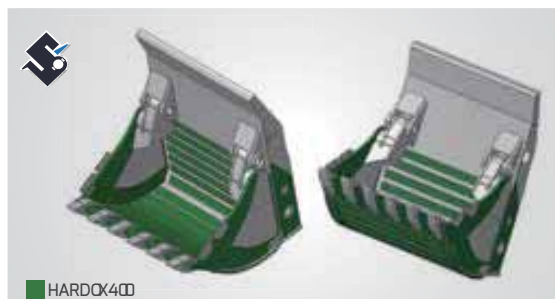
#### S CLASS

##### MATERIAL SUCH AS :

Gravel, ripped basalt, caliche, shot granite, high silica sand, sharp rock and others.

##### FEATURES & BENEFITS

- Spill guard is applied to load more capacity.
- High grade material composition for better durability
- Added more patches for durability and strength on lip plate and inner shell.



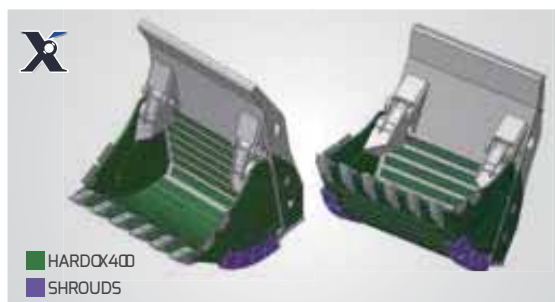
#### X CLASS

##### MATERIAL SUCH AS :

Ripped basalt, caliche, shot granite, high silica sand, sharp rock and others.

##### FEATURES & BENEFITS

- Spill guard is applied to load more capacity.
- High grade material composition for better durability
- Added more patches for durability and strength on lip plate and inner shell
- Muscle pack heels to increase durability and protect shell from wear.



## TYPES OF LIP PLATE SHAPE FOCUSED ON PERFORMANCE

### STRAIGHT SHAPE

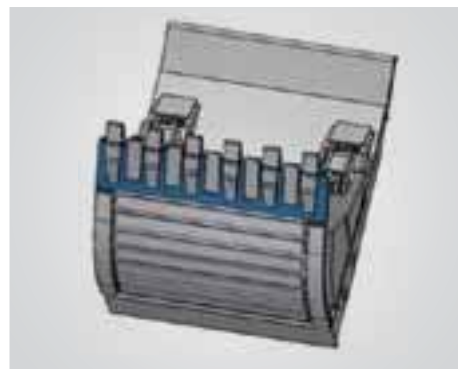
#### DESIGNED FOR :

Multi purposed digging and loading in almost all of general job site.

#### FEATURES & BENEFITS

Even distributed breakout force on the all bucket tooth.

Especially higher efficiency for normal duty digging and loading.



### V-SHAPE

#### DESIGNED FOR :

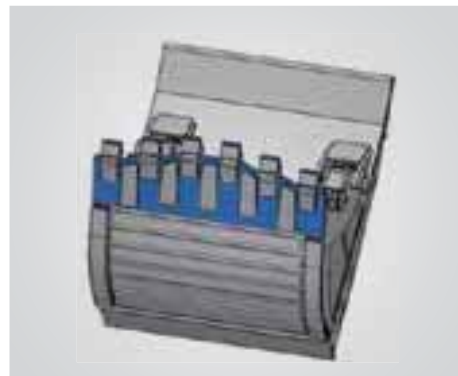
Face or bank loading in mining or quarry applications.

#### FEATURES & BENEFITS

Optimized penetration for high resistance material such as blasted rock.

- 150°~160° tapered lip plate reduces the penetration resistance.

Increased anti-abrasion life for lip plate.



## DURABILITY AND PENETRATION PERFORMANCE CHART

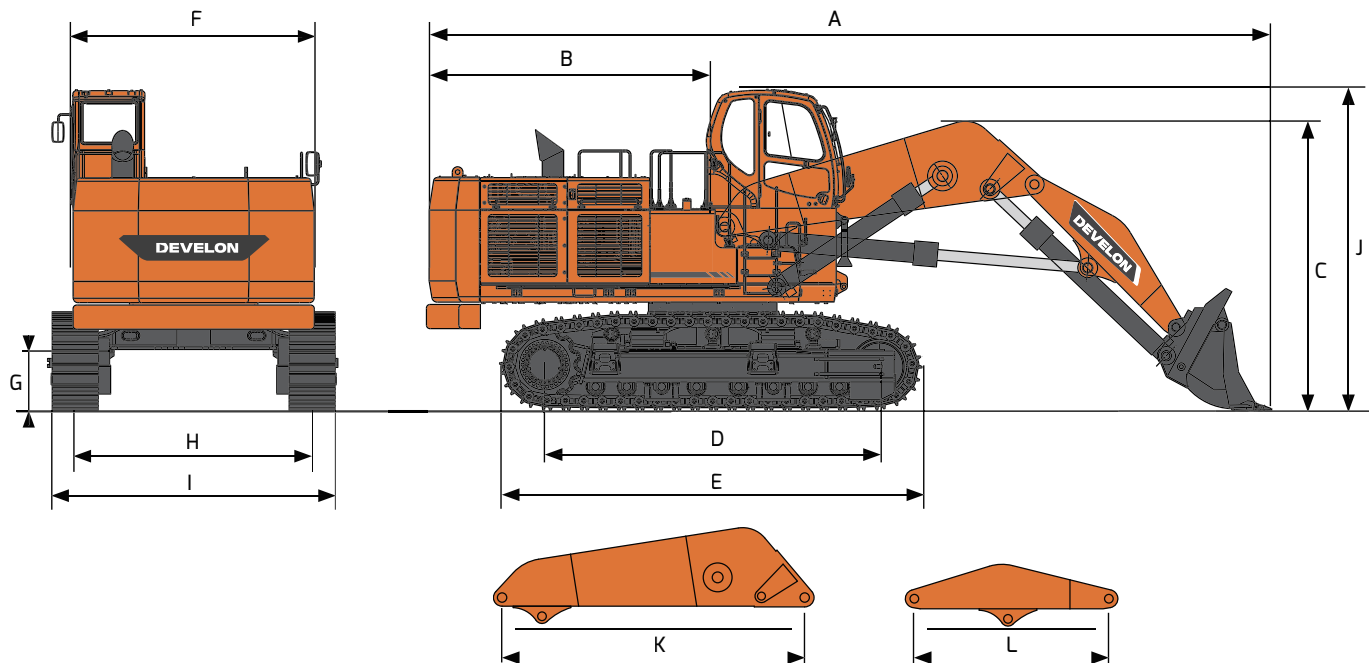
	H Class	S Class	X Class
<b>Straight lip plate</b>	DX360 FS : 2.2 m <sup>3</sup> DX450 FS : 2.5 m <sup>3</sup> DX530 FS : 2.8 m <sup>3</sup> DX800 FS : 5.0 m <sup>3</sup> DX1000 FS : 6.0 m <sup>3</sup>	DX360 FS : 2.0 m <sup>3</sup> DX450 FS : 2.3 m <sup>3</sup> DX530 FS : 2.6 m <sup>3</sup> DX800 FS : 4.5 m <sup>3</sup> DX1000 FS : 5.5 m <sup>3</sup>	DX360 FS : 1.8 m <sup>3</sup> DX450 FS : 2.1 m <sup>3</sup> DX530 FS : 2.4 m <sup>3</sup> DX800 FS : 4.0 m <sup>3</sup> DX1000 FS : 5.0 m <sup>3</sup>
<b>V-shape lip plate</b>	DX360 FS : 2.2 m <sup>3</sup> DX450 FS : 2.5 m <sup>3</sup> DX530 FS : 2.8 m <sup>3</sup> DX800 FS : 5.0 m <sup>3</sup> DX1000 FS : 6.0 m <sup>3</sup>	DX360 FS : 2.0 m <sup>3</sup> DX450 FS : 2.3 m <sup>3</sup> DX530 FS : 2.6 m <sup>3</sup> DX800 FS : 4.5 m <sup>3</sup> DX1000 FS : 5.5 m <sup>3</sup>	DX360 FS : 1.8 m <sup>3</sup> DX450 FS : 2.1 m <sup>3</sup> DX530 FS : 2.4 m <sup>3</sup> DX800 FS : 4.0 m <sup>3</sup> DX1000 FS : 5.0 m <sup>3</sup>

Digging Penetration Performance Increasing

Wear Resistance Increasing

# CUSTOMIZED FEATURES

## DIMENSIONS

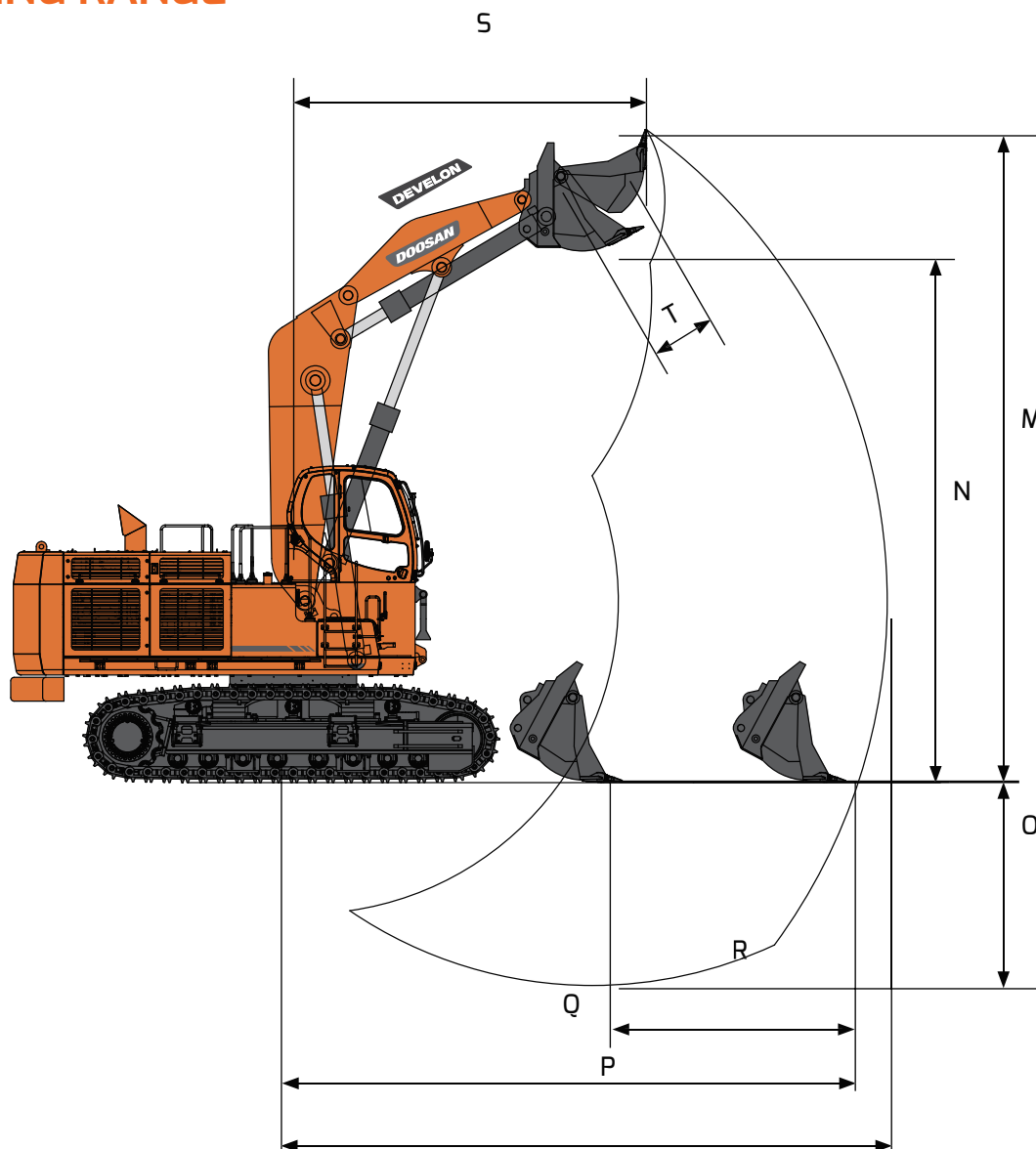


	Dimension	Unit	DX360 FS	DX450 FS	DX530 FS	DX800 FS	DX1000 FS
A	Shipping Length	mm	11,330	12,060	12,250	13,210	14,565
B	Tail Swing Radius	mm	3,530	3,760	3,800	4,010	4,565
C	Shipping Height	mm	2,950	3,650	3,700	4,000	4,200
D	Tumbler Distance	mm	4,040	4,250	4,470	4,730	5,100
E	Track Length	mm	4,960	5,200	5,480	5,960	6,341
F	House Width	mm	3,103	3,103	3,352	3,410	3,410
G	Ground Clearance	mm	475	585	725	850	860
I	Shipping Width	mm	3,280	3,350	3,580	3,560	3,440
J	Height over Cabin	mm	3,100	3,210	3,360	3,540	3,615
K	Boom Length	mm	3,850	4,200	4,300	4,500	4,900
L	Arm Length	mm	2,650	2,750	2,800	3,100	3,200
M	Overall Weight	kg	39,166	45,927	54,609	82,938	97,289

## ARM CROWD FORCE & BUCKET BREAKOUT FORCE

	Unit	DX360 FS	DX450 FS	DX530 FS	DX800 FS	DX1000 FS
Arm Crowd Force	ton	21.5	24.3	26.1	30.2	38.2
Bucket Breakout Force	ton	33.8	40.3	41.7	51.0	57.6

## WORKING RANGE



## TRANSPORT DIMENSION

	Dimension	Unit	DX360 FS	DX450 FS	DX530 FS	DX800 FS	DX1000 FS
M	Max. Digging Height	mm	9,780	9,920	10,470	11,070	12,050
N	Max. Dumping Height	mm	7,060	7,000	7,300	7,410	8,350
O	Max. Digging Depth	mm	2,610	3,410	3,530	3,540	3,570
P	Max. Digging Reach	mm	8,330	8,810	9,020	9,750	10,400
Q	Max. Digging Reach (Ground)	mm	8,060	8,520	8,680	9,380	10,010
R	Level Crowding Distance	mm	3,240	3,330	3,430	3,530	3,580
S	Reach at Max. Dumping Height	mm	2,950	3,690	3,830	4,270	4,340
T	Max. Bucket Opening Width	mm	1,250	1,380	1,480	1,590	1,700

# DEVELON



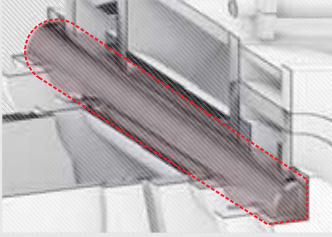
HD Hyundai Infracore Construction Equipment

**DX530/800/1000**

# GAINT RIPPER

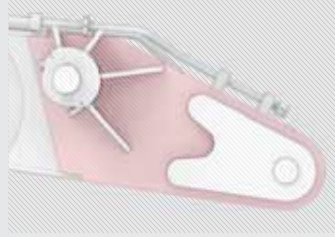
The standard configuration of the product may change and will not be notified separately. Please consult local Dealer.  
The picture may not match the actual product, and no further notice will be given.

## Main Feature



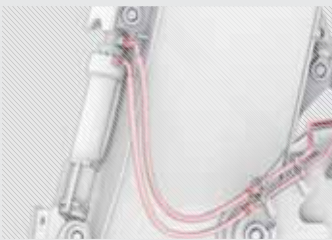
Using a single pin at boom cylinder rod

Higher concentricity, higher process requirements, can reduce wear and tear for more durable



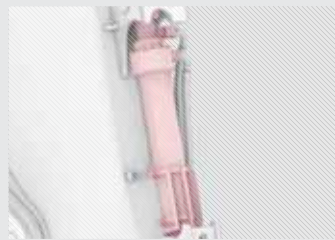
Construction Optimization with boom end

The structural strength is higher, reducing the risk of cracking caused by high-load operations.



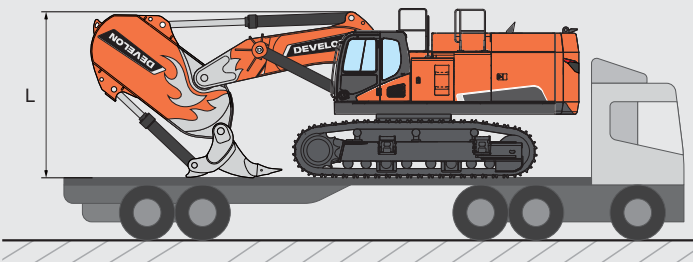
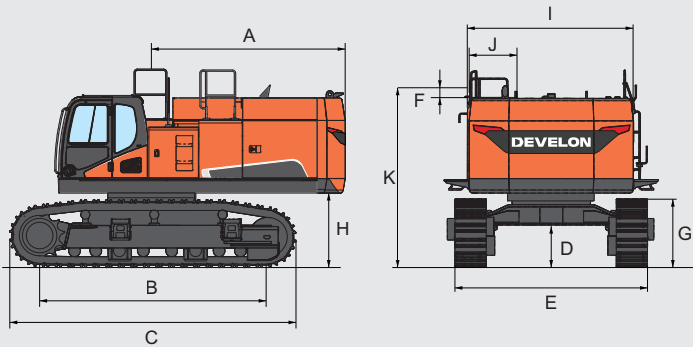
Arrange the Hose at the Cabin side of Arm

During work, the hoses are visible, avoiding the risk of collision and saving maintenance costs.



Assemble Bucket cylinder opposite direction

During work, avoiding the risk of collision from splashing stones and saving maintenance costs.



Model		DX530	DX800	DX1000
Tail Swing Radius	A	3,800 mm	4,100 mm	4,565 mm
Tumbler Distance	B	4,475 mm	4,730 mm	5,100 mm
Overall Track Length	C	5,505 mm	5,960 mm	6,341 mm
Ground Clearance	D	725 mm	830 mm	860 mm
Undercarriage width (extend)	E	2,990/3,490 mm	3,400/4,000 mm	3,440/4,200 mm
Cabin Height (to Swingbody)	F	850 mm	32 mm	----- mm
Track Height (W/O Grouser)	G	1,190 mm	1,310 mm	1,350 mm
C/W Clearance	H	1,425 mm	1,490 mm	1,615 mm
Swingbody Width	I	2,990 mm	2,990 mm	3,410 mm
Cabin Width	J	1,010 mm	1,010 mm	1,010 mm
Total Height(to Cabin)	K	3,370 mm	3,540 mm	3,615 mm
Shipping Height	L	3,680 mm	3,850 mm	4,100 mm

## Application Working Conditions



Open-pit Mine



Earthwork



Weathered Rock



Shale



Sandstone



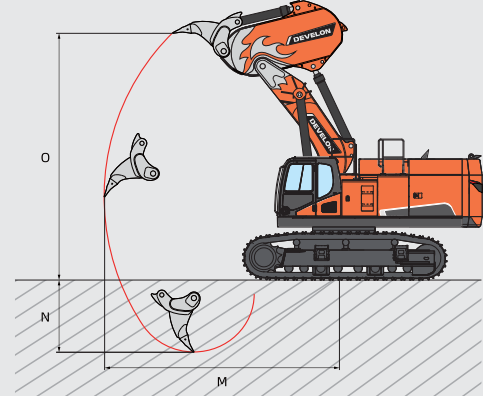
Frozen Soil



Coal Gangue



Conglomerate



Working Range		DX530	DX800	DX1000
Max Digging Radius	M	6,590 mm	7,500 mm	7,920 mm
Max Digging Deepth	N	2,650 mm	2,690 mm	3,290 mm
Max Digging Height	O	7,800 mm	8,630 mm	8,540 mm



DX500/560HD



DX800HD



DX1000HD

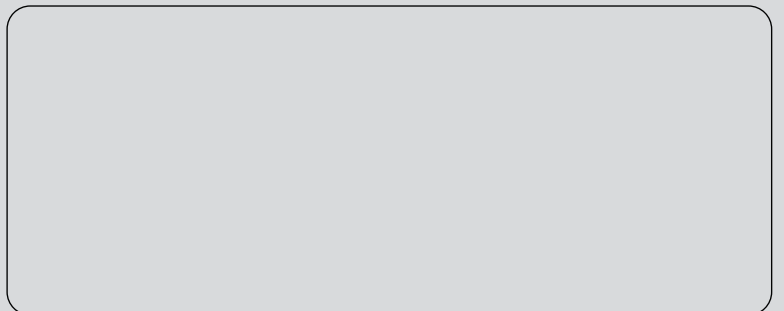
	Weight	Demension
Gaint Boom	6,000 ~ 8,000 k g	4,820 × 1,350 × 1,490 mm
Gaint Arm	10,500 ~ 12,500 k g	3,850 × 2,110 × 560 mm
Ripper	1,600 ~ 2,000 k g	2,120 × 1,210 × 630 mm
Gaint Boom	9,200 ~ 10,000 k g	5,450 × 1,520 × 1,550 mm
Gaint Arm	19,800 ~ 21,300 k g	4,270 × 2,310 × 730 mm
Ripper	2,200 ~ 2,700 k g	2,230 × 1,320 × 730 mm
Gaint Boom	10,500 ~ 12,000 k g	5,780 × 1,570 × 1,680 mm
Gaint Arm	20,800 ~ 22,300 k g	4,270 × 2,310 × 730 mm
Ripper	2,200 ~ 2,700 k g	2,230 × 1,320 × 730 mm

# We are DEVELON

We trace our roots to 1937 as one of Korea's first large scale machine plant.  
Throughout time we have consistently delivered exceptional products and solutions.

DEVELON is a bold name that reflects our core ambition to continue developing onwards  
and leaving behind a positive footprint in our world. Moving forward, we seek to be part of  
our customers and partners' endeavor to build a better world.

## Powered by Innovation



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HDIPBE-01-2406

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**develon-ce.com**