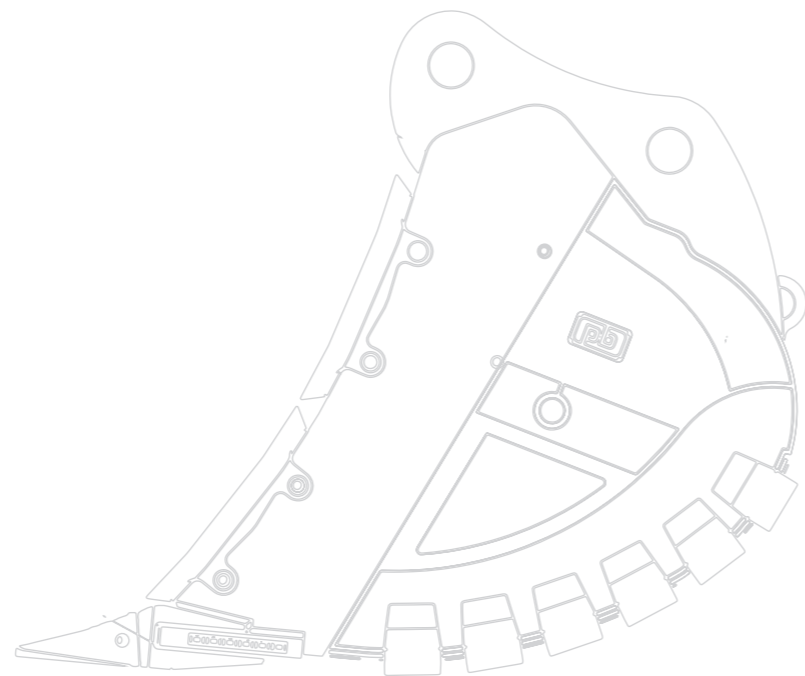


Construction buckets



Professional LLC

This is a leading manufacturer of attachments for heavy equipment in Russia and CIS countries. The company annually manufactures and sells over 1500 units of buckets with the capacity from 0.01 m³ to 40 m³, as well as grapples, log grapples, rippers, dozer ripper shanks and blades, booms, arms and other equipment. For 13 years our products have been in high demand among Russian and foreign customers.

Modern technology and equipment, own engineering designs used in production of attachments allow fulfilling any non-standard and complex orders.

Today Professional LLC carries out direct deliveries of own products around the world (covered all continents, 50 countries); is the official dealer and a major supplier of hydraulic attachments.



CONSTRUCTION BUCKETS

STANDARD BUCKETS
6-7

HEAVY DUTY BUCKETS
8-9

HEAVY DUTY ROCK BUCKETS
10-13

RIPPER BUCKETS
14-15

GRADING BUCKETS
16-17

TRENCH BUCKETS
18-19

PROFILE BUCKETS
20-21

WHEEL LOADER BUCKETS
22-25

BACKHOE LOADER BUCKETS
26-29



STANDARD BUCKETS

GP Series Standard Buckets are designed for construction pit and quarry operations (I – IV Soil Classes) and are used in bulk earthworks including excavation of materials (density up to 1600 kg/m³) such as: sand, loam, organic matter and crashed stone.

1 Bucket Hinge Types:

- Standard (pin-on type).
- Pin-on type with axial adjustment.
- CW Series, MS Series and S Series Quick Coupler Type.

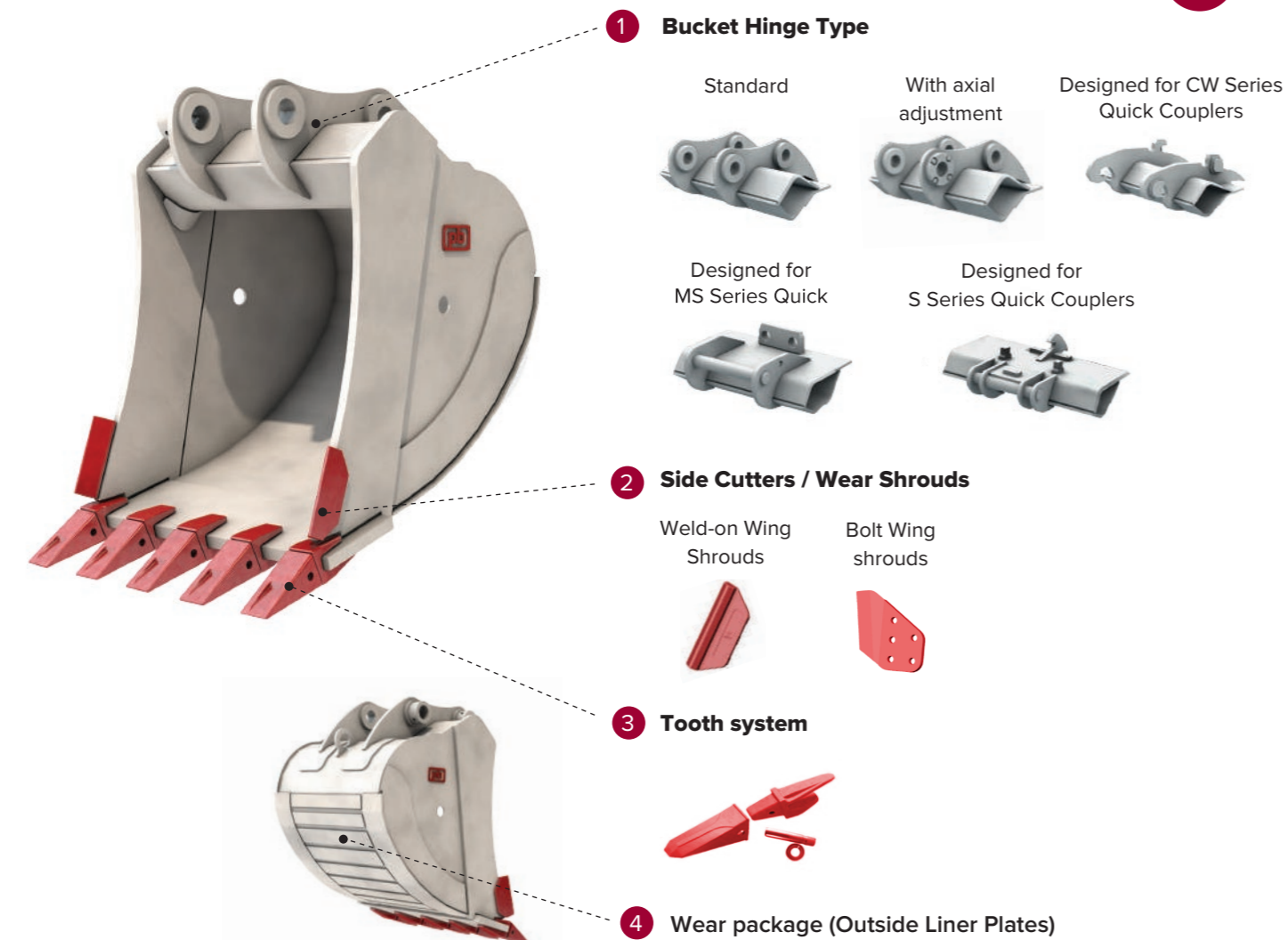
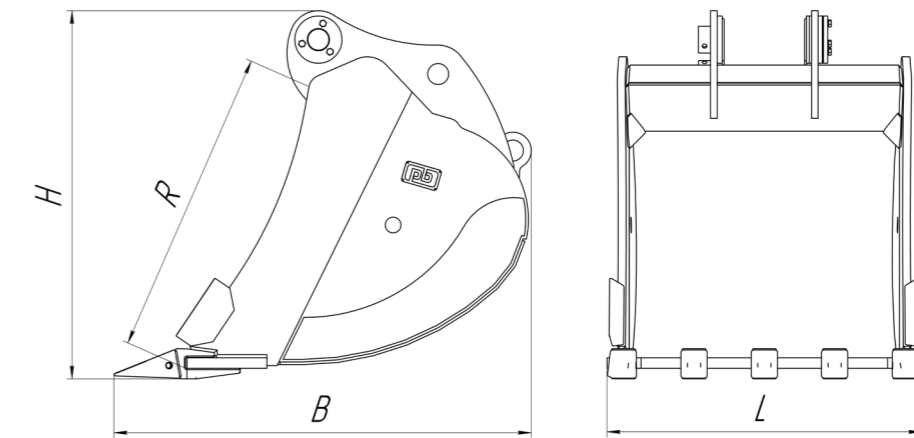
2 Side cutters / Wear Shrouds

- Weld-on i-130 and i-160 shrouds.
- Hitachi, Komatsu Bolt shrouds.

3 Tooth system:

- CAT (J-series).
- Other systems (Komatsu, Hyundai, Doosan).

4 Outside wear package: S-355 Steel Grade.



Specifications	GP-16.XX	GP-21.XX	GP-31.XX	GP-41.XX
Carrier Weight, t	12-18	19-28	29-38	39-45
Operating weight, kg	550-740	900-1100	1400-1630	1740-2140
Bucket capacity, m ³	0,5-0,95	0,9-1,4	1,4-1,95	1,5-2,3
Width (L), mm	800-1300	1000-1500	1300-1700	1300-1800
Height (H), mm	1250	1400	1500	1700
Depth (B), mm	1500	1650	1800	1950
Tip Radius (R), mm	1070	1200	1330	1400

HEAVY DUTY BUCKETS

HD Series Heavy Duty Buckets are used for excavation of different density soil: sand, loam, plant soil, crushed stone, chalk rocks, slate stone, limestone, etc.

1 Bucket Hinge Type:

- Standard (Pin-on Type).
- With axial adjustment (Pin-on Type).
- CW Series, MS Series and S Series Quick Coupler Type.

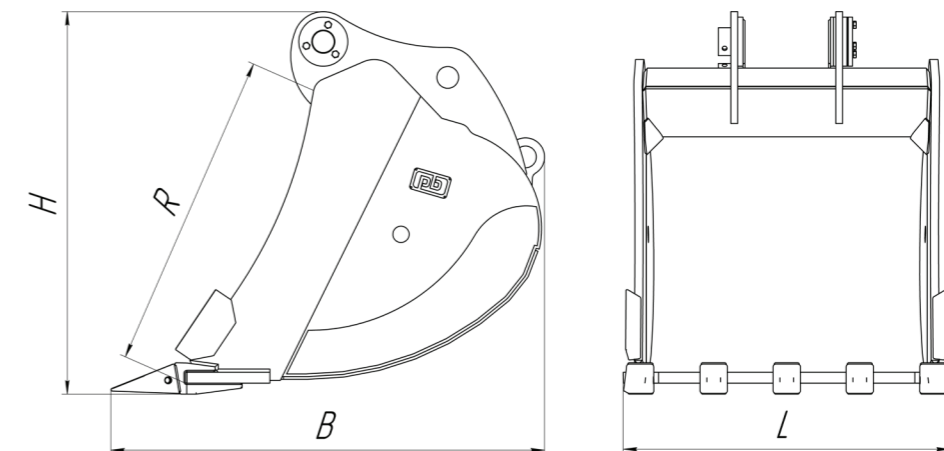
2 Side Cutters:

- Weld-on i-130, i-160.
- Hitachi and Komatsu Bolt Type.
- Protectors 9J-9600, 1U-0740.

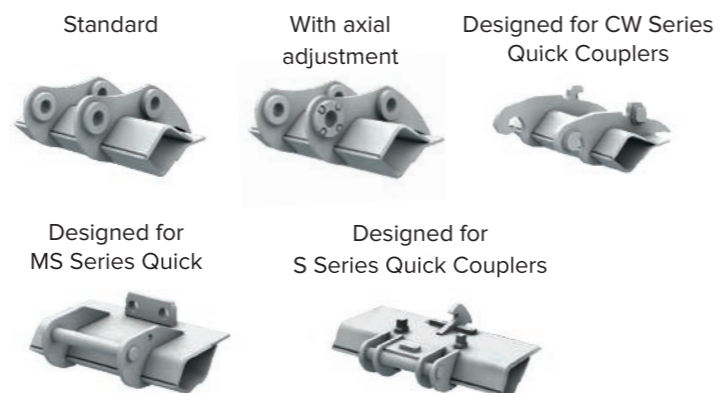
3 Tooth System:

- CAT (J-series).
- Other Series (Komatsu, Hyundai, Doosan and other).

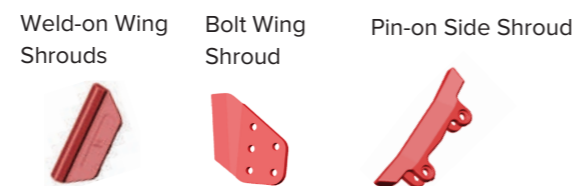
4 Outside Wear Package: HB-450 Steel Grade.



1 Bucket Hinge Type



2 Side Cutters / Wing Shrouds



3 Tooth system



4 Outside Wear Package

Specifications	HD-16.XX	HD-21.XX	HD-31.XX	HD-41.XX	HD-51.XX	HD-61.XX
Carrier weight, t	12-18	19-28	29-38	39-45	45-55	50-60
Bucket Operating weight, kg	570-760	940-1130	1430-1660	1760-2160	2210-2660	2700-2970
Bucket capacity, m ³	0,5-0,95	0,9-1,3	1,4-1,95	1,5-2,3	2,05-3,0	2,8-3,4
Width (L), mm	800-1300	1000-1400	1300-1700	1300-1800	1500-2000	1700-2000
Height (H), mm	1250	1400	1500	1700	1800	1860
Depth (B), mm	1500	1650	1800	1950	2100	2160
Tip Radius (R), mm	1070	1200	1330	1400	1500	1600



HEAVY DUTY ROCK BUCKETS

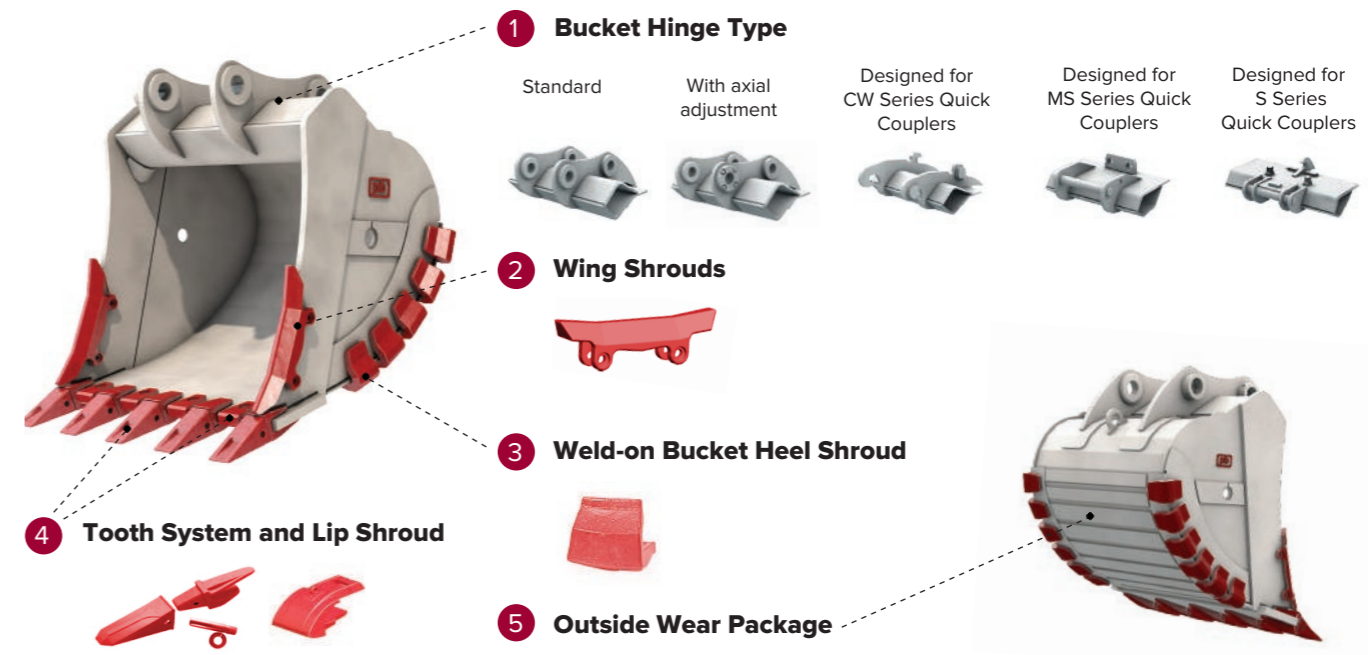


Rock Buckets are designed for excavation of heavy soil with stony inclusions and abrasive materials (sandstones, granites, diabase, basalts, etc.). Types of Rock Buckets built by Professional LLC:

- **Heavy Duty Rock Standard Bucket (RD Series).**
They are designed for excavation of soils with density up to 2000 kg/m³ and I - II category of abrasivity.
- **Heavy Duty Reinforced Rock Bucket (RDH Series).**
They are designed to perform tasks of increased complexity: excavation of soils with density up to 2200 kg/m³ and III - IV category of abrasivity.
- **Heavy Duty Super Reinforced Rock Bucket (RDX Series).**
Suitable for effective earthmoving of heavy soils on rocky territory (soils density up to 2500 kg/m³ and V - VI category of abrasivity).
- **Heavy Duty Super Reinforced Rock Bucket "Extra" (RDE Series)**
RDE Series Bucket is the best solution for extreme operation conditions (soil density up to 2800 kg/m³ and VII category of abrasivity). They are applicable for frozen soil and reloading of heavy abrasive materials such as rock fragments, construction waste, etc.

By special order, Professional LLC is ready to modify the presented models in order to meet Customer's needs.

HEAVY DUTY ROCK STANDARD BUCKETS



1 Bucket Hinge Types:

- Standard (pin-on type).
- Pin-on type with axial adjustment.
- CW Series, MS Series and S Series Quick Coupler Type.

2 Wing Shrouds: 9J-9600, 1U-0740.

3 Weld-on Bucket Heel Shroud:

- RD-16, RD-21, RD-31, RD-41: HS175-140.
- RD-51, RD-61, RD-72: HS 230-190.

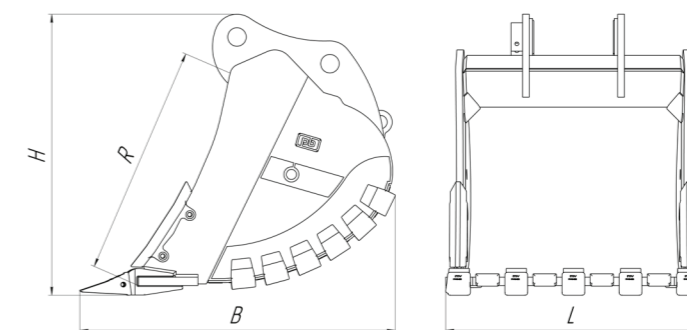
5 Outside Wear Package: Steel Grade HB-450.

4 Tooth System:

- CAT (J-series).
- Other Series (Komatsu, Hyundai, Doosan, Hensley XS, Esco Ultralok, MTG KingMet and other).

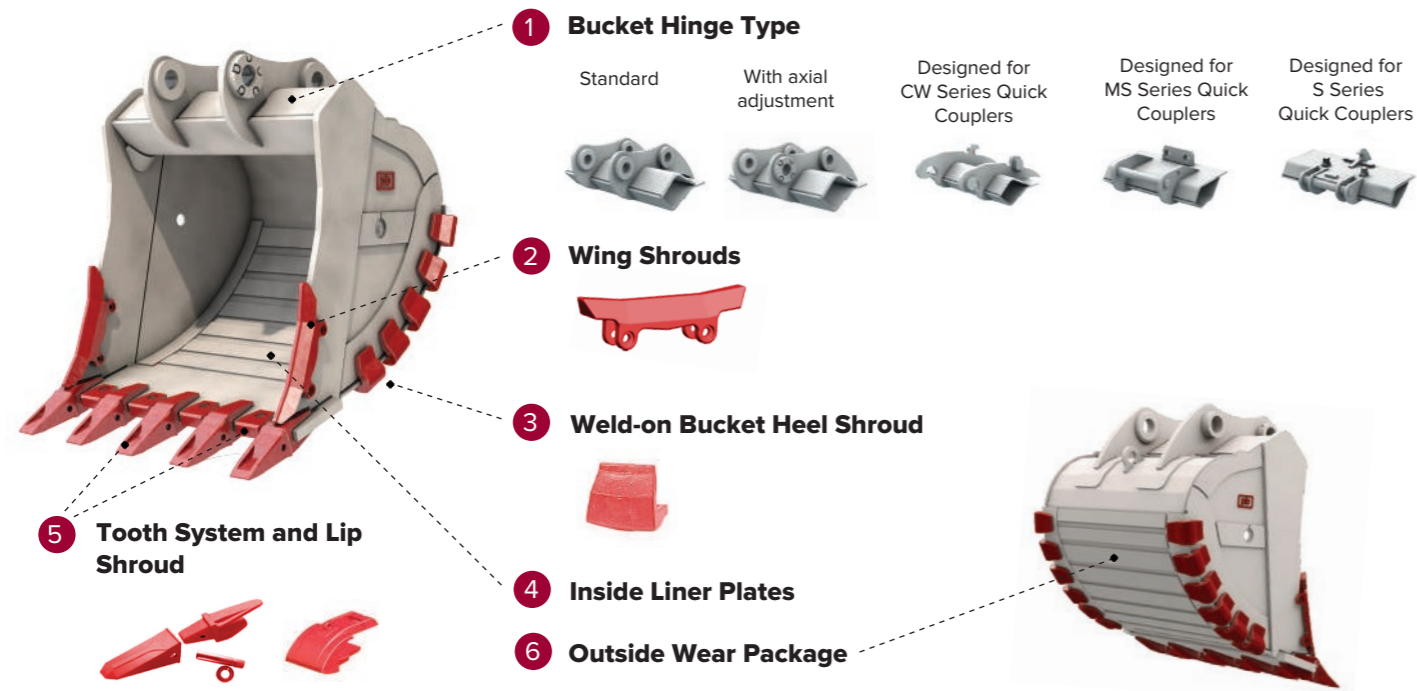
Lip Shroud:

- RD-16, RD-21: 208-934-Z170-110 other*.
 - RD-31 208-934-Z170-110; 209-939-5170-140 other*.
 - RD-41: 209-939-5170-140, 4ML50UC other*.
 - RD-51, RD-61: I-130, 4ML70UC other*.
 - RD-72: WS-300 other*.
- *Shroud type is dependent on adapters welded-on.



Specifications	RD-16.XX	RD-21.XX	RD-31.XX	RD-41.XX	RD-51.XX	RD-61.XX	RD-72.XX
Carrier weight, t	12-18	19-28	29-38	39-45	45-55	50-60	60-80
Operating weight, kg	660-860	1060-1260	1560-1740	1930-2350	2490-2970	2930-3180	3820-4220
Bucket capacity, m ³	0,5-0,95	0,9-1,3	1,4-1,8	1,5-2,3	2,05-3,0	2,8-3,4	3,2-3,8
Width (L), mm	800-1300	1000-1400	1300-1600	1300-1800	1500-2000	1700-2000	1800-2100
Height (H), mm	1250	1400	1500	1700	1800	1860	2050
Depth (B), mm	1500	1650	1800	1950	2100	2160	2450
Tip Radius (R), mm	1070	1200	1330	1400	1500	1600	1800

HEAVY DUTY REINFORCED ROCK BUCKETS



1 Bucket Hinge Type:

- Standard (pin-on type).
- Pin-on type with axial adjustment.
- CW Series, MS Series and S Series Quick Coupler Type.

2 Wing Shrouds: 9J-9600, 1U-0740.

3 Weld-on Bucket Heel Shroud:

- RDH-31, RDH-41: HS175-140 .
- RDH-51, RDH-61, RDH-72: HS 230-190.

4 Inside Liner Plate: Steel Grade HB-450.

5 Tooth System:

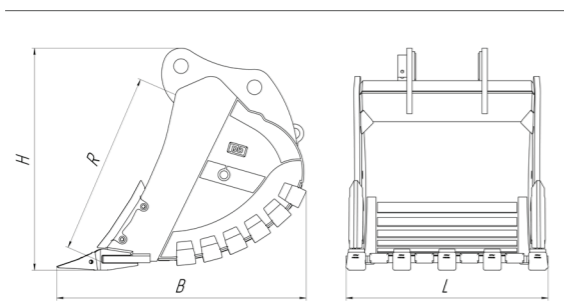
- CAT (J-series).
- Other Series (Komatsu, Hyundai, Doosan, Hensley XS, Esco Ultralok, MTG KingMet and other).

Lip Shroud:

- RDH-31: 208-934-Z170-110; 209-939-5170-140 other*.
- RDH-41: 209-939-5170-140, 4ML50UC other*.
- RDH-51, RDH-61: I-130, 4ML70UC other*.
- RDH-72: WS-300 other*.

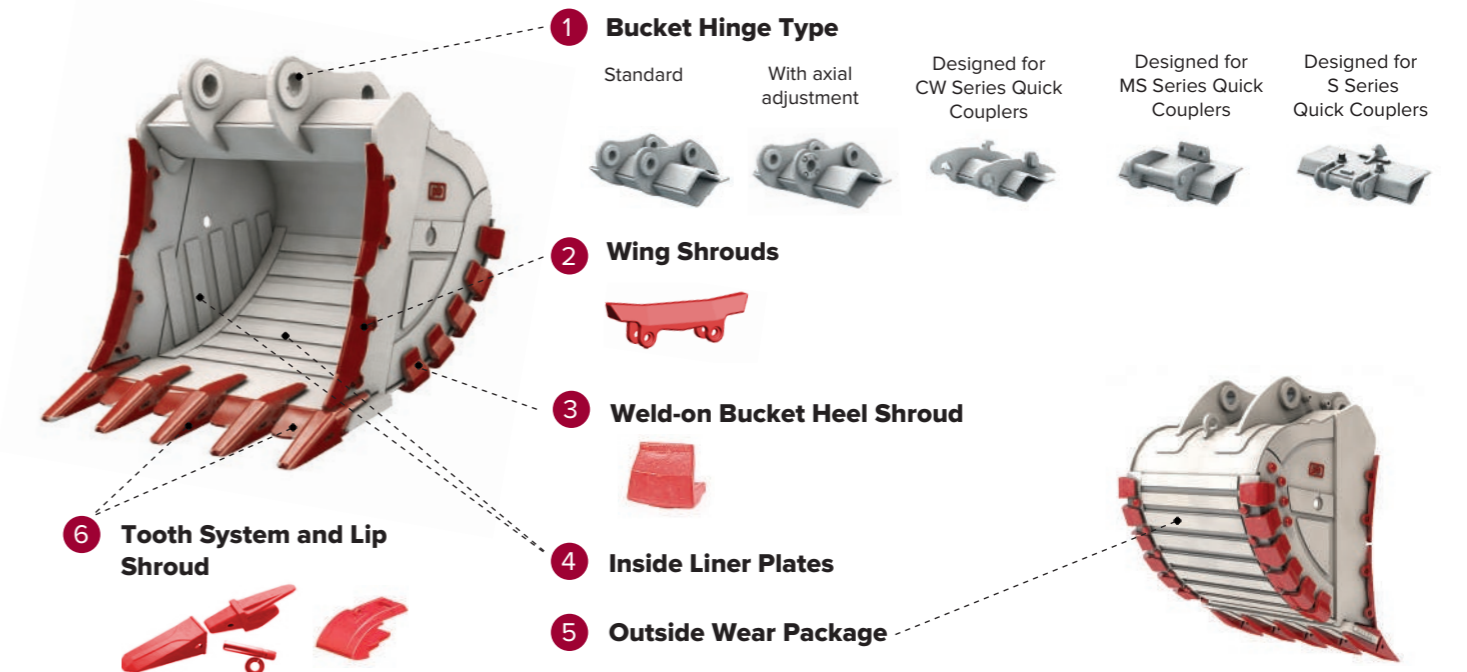
*Shroud type is dependent on adapters welded-on.

6 Outside Wear Package: Steel Grade HB-450.



Specifications	RDH-31.XX	RDH-41.XX	RDH-51.XX	RDH-61.XX	RDH-72.XX
Carrier weight, t	29-38	39-45	45-55	50-60	60-80
Operating weight, kg	1640-1760	2000-2430	2570-3070	3120-3420	3950-4400
Bucket capacity, m ³	1,4-1,65	1,5-2,3	2,05-3,0	2,8-3,4	3,2-3,8
Width (L), mm	1300-1500	1300-1800	1500-2000	1700-2000	1800-2100
Height (H), mm	1500	1700	1800	1860	2050
Depth (B), mm	1800	1950	2100	2160	2450
Tip Radius (R), mm	1330	1400	1500	1600	1800

HEAVY DUTY SUPER REINFORCED ROCK BUCKET & SUPER REINFORCED ROCK BUCKET "EXTRA"



1 Bucket Hinge Type:

- Standard (pin-on type).
- Pin-on type with axial adjustment.
- CW Series, MS Series and S Series Quick Coupler Type.

2 Wing Shrouds: 9J-9600, 1U-0740.

3 Weld-on Bucket Heel Shroud:

- RDX-21, RDX-31, RDX-41: HS175-140 .
- RDX-51, RDX-61, RDX-72: HS 230-190.

4 Inside Liner Plates:

Steel Grade HB-450 (for "EXTRA" – reinforced with OVERLAY Plates).

5 Outside Wear Package:

Steel Grade HB 450 ("EXTRA" Buckets are additionally reinforced with OVERLAY Plates).

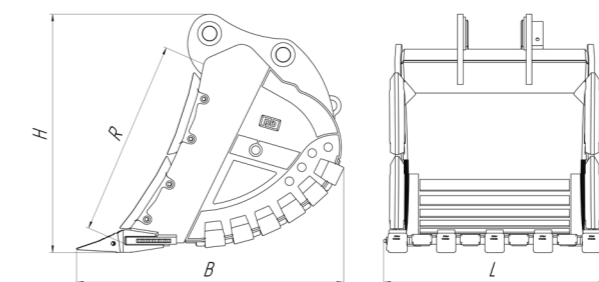
6 Tooth System:

- CAT (J-series).
- Other (Komatsu, Hyundai, Doosan, Hensley XS, Esco Ultralok, MTG KingMet and other).

Lip Shroud:

- RDX-21: 208-934-Z170-110 other*.
- RDX-31: 208-934-Z170-110; 209-939-5170-140 other*.
- RDX-41: 209-939-5170-140, 4ML50UC other*.
- RDX-51, RDX-61: I-130, 4ML70UC other*.
- RDX-72: WS-300 other*.

*Shroud type is dependent on adapters welded-on.



Specifications	RDX-21.XX	RDX-31.XX	RDX(RDE)-41.XX	RDX(RDE)-51.XX	RDX(RDE)-61.XX	RDX-72.XX
Carrier weight, t	19-28	29-38	39-45	45-55	50-60	60-80
Bucket Operating weight, kg	1160-1280	1730-1870	2120(2180)-2580(2640)	2700(2780)-3220(3300)	3220(3300)-3520(3600)	4080-4540
Bucket capacity, m ³	1,0-1,2	1,4-1,65	1,5-2,3	2,05-3,0	2,8-3,4	3,2-3,8
Width (L), mm	1100-1300	1300-1500	1300-1800	1500-2000	1700-2000	1800-2100
Height (H), mm	1400	1500	1700	1800	1860	2050
Depth (B), mm	1650	1800	1950	2100	2160	2450
Tip Radius (R), mm	1200	1330	1400	1500	1600	1800



RIPPER BUCKETS

RB Series Ripper Buckets are designed for heavy soil excavation with a large amount of stony inclusions and abrasive materials (sandstones, granites, basalts, diabase, etc.), loading and unloading of bulk materials, bulk rocks (density of up to 2200 kg/m³).

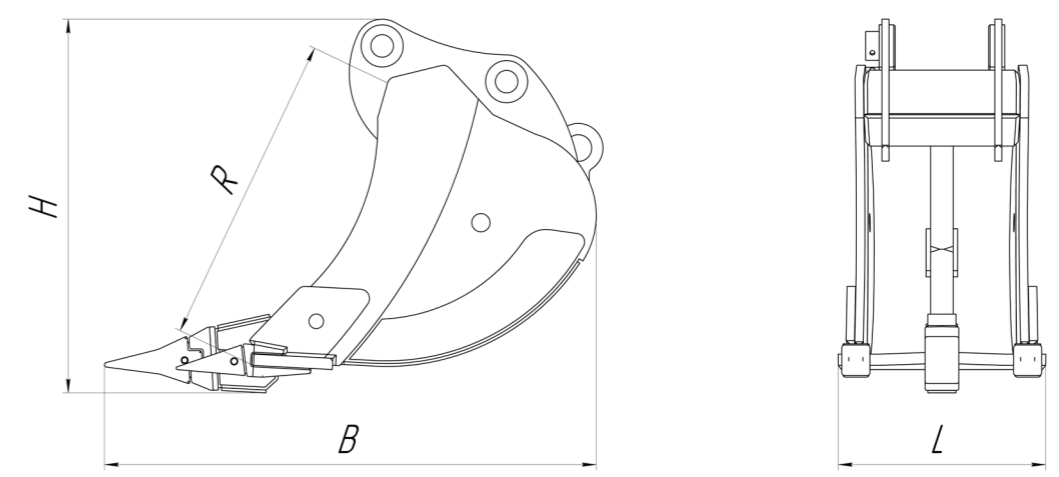
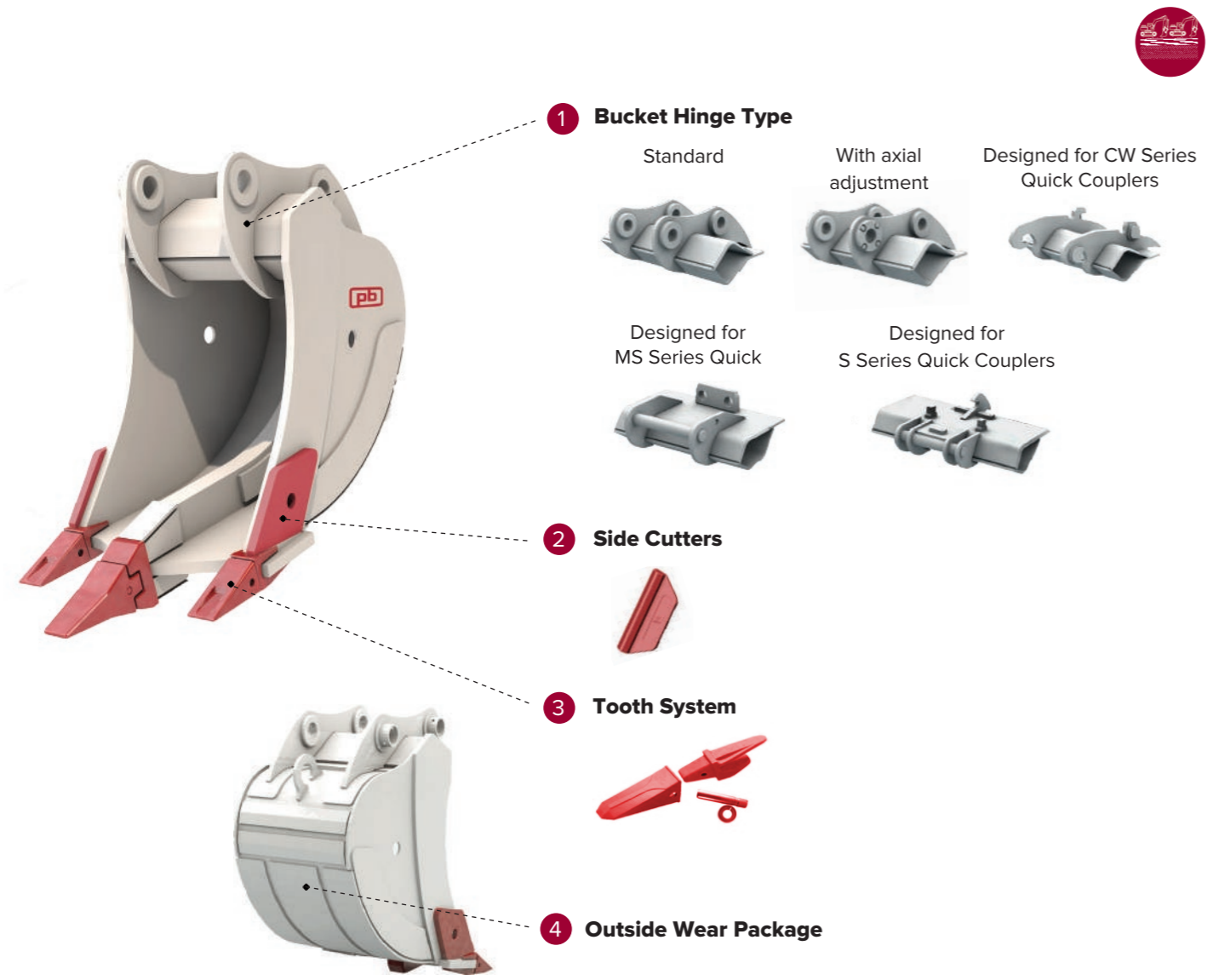
- 1 Bucket Hinge Types:**
 - Standard (pin-on type).
 - Pin-on type with axial adjustment.
 - CW Series, MS Series and S Series Quick Coupler Type.
- 2 Side Cutters:**
 - Weld-on side cutters (Steel Grade HB-450).
- 3 Tooth System:**

Middle Tooth:

 - RB-20, RB-25, RB-30: 35R-14.
 - RB-40: 39R-17.

Side Tooth:

 - RB-20: Y350.
 - RB-25: Y400.
 - RB-30: Y450.
 - RB-40: Y550.
- 4 Outside Wear Package:** Steel Grade HB-400.

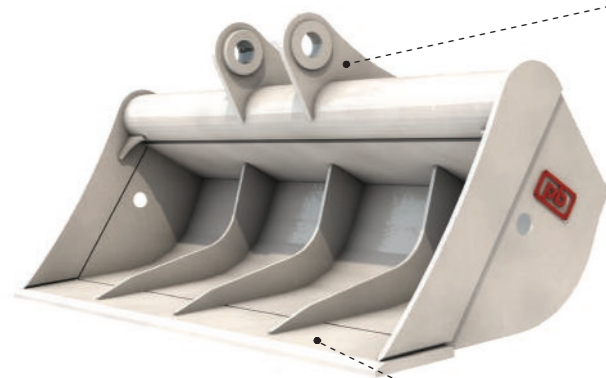


Specifications	RB-20.XX	RB-25.XX	RB-30.XX	RB-40.XX
Carrier weight, t	19-24	25-29	30-38	39-50
Operating weight, kg	890-1145	1120-1350	1410-1810	1710-2120
Bucket capacity, m ³	0,39-0,82	0,53-1,04	0,60-1,26	0,67-1,46
Width (L), mm	700-1200	800-1300	800-1400	800-1400
Height (H), mm	1360	1450	1550	1650
Depth (B), mm	1730	1760	1810	1960
Tip Radius (R), mm	1000	1050	1100	1200

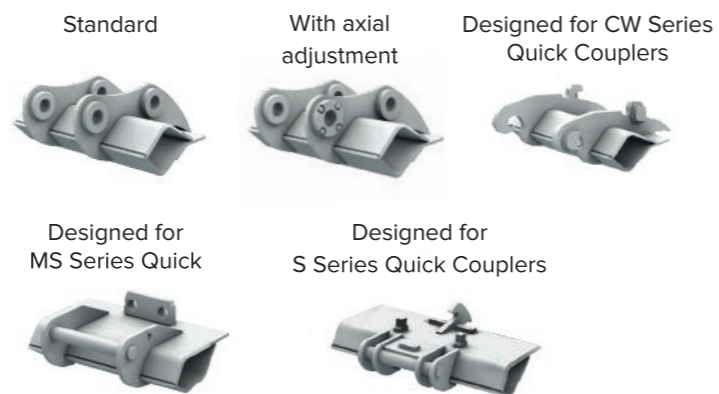


GRADING BUCKETS

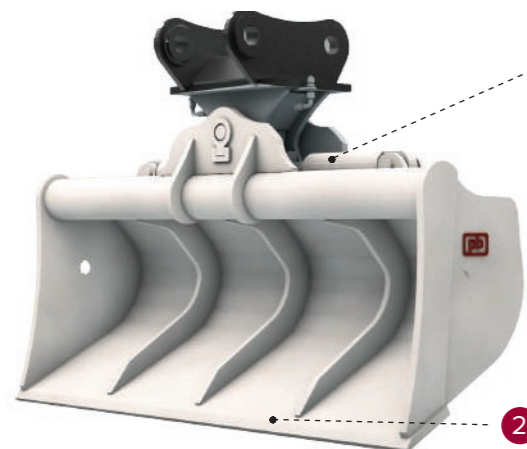
DC SERIES GRADING BUCKET



1 Bucket Hinge Type



SB SERIES TILTABLE GRADING BUCKET WITH HYDRAULIC CYLINDERS



2 Cutting Edge

3 Tilt Cylinders



Grading buckets are used for ground surface leveling, slope grading, ditch cleaning and other finishing work. Professional LLC builds two types of grading buckets: DC Series and SB Series Buckets with tilt cylinders.

1 Bucket Hinge Type:

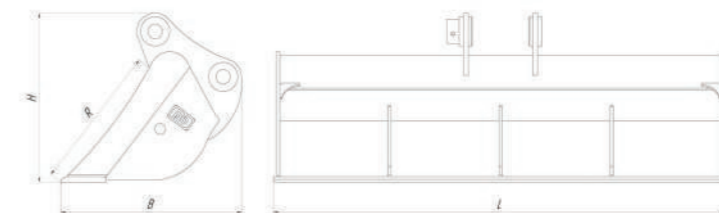
- Standard (Pin-on Type).
- With axial adjustment (Pin-on Type).
- CW Series, MS Series and S Series Quick Coupler Type.

2 Cutting Edge:

Steel Grade HB-400.

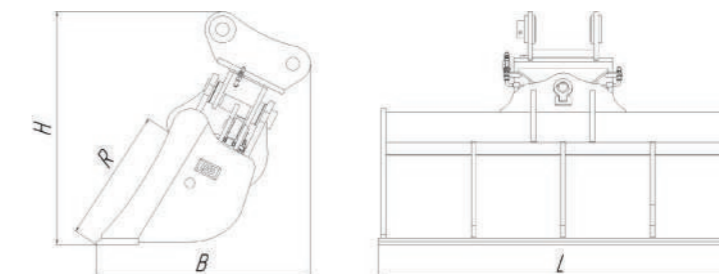
3 Tilt Hydraulic Cylinders.

SB Series Tiltable Buckets are equipped with hydraulic cylinders that feature a full 40° of tilt in each direction. SB Buckets are powered by a double-acting hydraulic line which is not included into a supply package.



DC Grading Buckets

Specifications	DC-14.XX	DC-20.XX	DC-27.XX
Carrier weight, t	12-17	18-23	24-30
Bucket Operating weight, kg	355-535	535-775	775-1045
Bucket capacity, m ³	0,35-0,59	0,49-0,87	0,76-1,22
Width (L), mm	1400-2300	1500-2500	1600-2500
Height (H), mm	830	920	1120
Depth (B), mm	890	1020	1090
Tip Radius (R), mm	660	780	910



SB Series Tiltable Grading Buckets

Specifications	SB-11.XX	SB-15.XX	SB-26.XX
Carrier weight, t	7-11	12-24	25-34
Bucket Operating weight, kg	325-360	780-860	1270-1420
Bucket capacity, m ³	0,24-0,31	0,55-0,68	0,96-1,23
Width (L), mm	1200-1500	1800-2200	2000-2500
Height (H), mm	1000	1350	1620
Depth (B), mm	480	670	780
Tip Radius (R), mm	510	625	795

TRENCH BUCKETS

TB Trench Buckets are used in trench digging for pipelines. Such buckets leave smooth-faced trenches of exact sizes. Small buckets simplify work in towns and cities, areas that are close to buildings or other objects (in confined spaces).

1 Bucket Hinge Types:

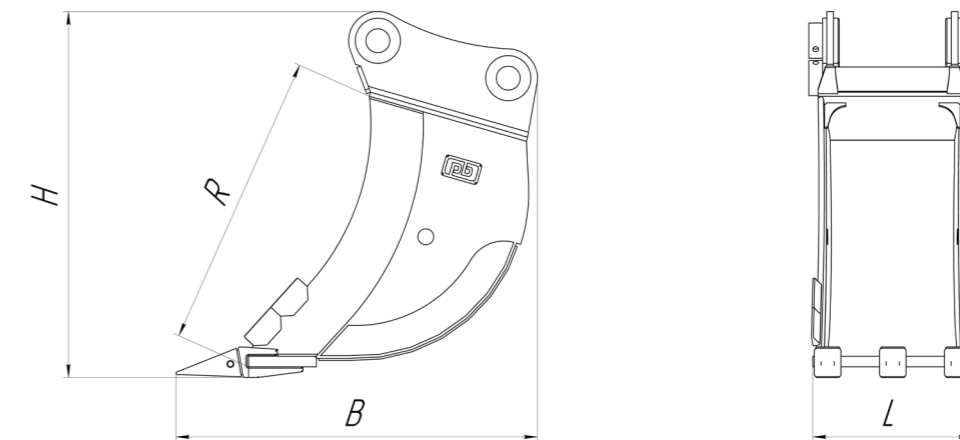
- Standard (pin-on type).
- Pin-on type with axial adjustment.
- CW Series, MS Series and S Series Quick Coupler Type.

2 Side Cutters:

- Weld-on i-130, i-160.
- Hitachi, Komatsu Bolt shrouds.

3 Tooth System:

- CAT (J-series).
- Other Series (Komatsu, Hyundai, Doosan and other).



1 Bucket Hinge Type

Standard With axial adjustment Designed for CW Series Quick Couplers



Designed for MS Series Quick Designed for S Series Quick Couplers



2 Side Cutters

Weld-on Wing Shrouds Bolt Wing Shroud



3 Tooth System



Specifications	TB-16.XX	TB-21.XX	TB-31.XX
Carrier weight, t	12-18	19-26	27-34
Bucket Operating weight, kg	275-350	410-495	735-815
Bucket capacity, m ³	0,17-0,30	0,26-0,43	0,47-0,63
Width (L), mm	400-600	450-650	600-750
Height (H), mm	1190	1360	1540
Depth (B), mm	1170	1390	1580
Tip Radius (R), mm	970	1115	1250



PROFILE BUCKETS

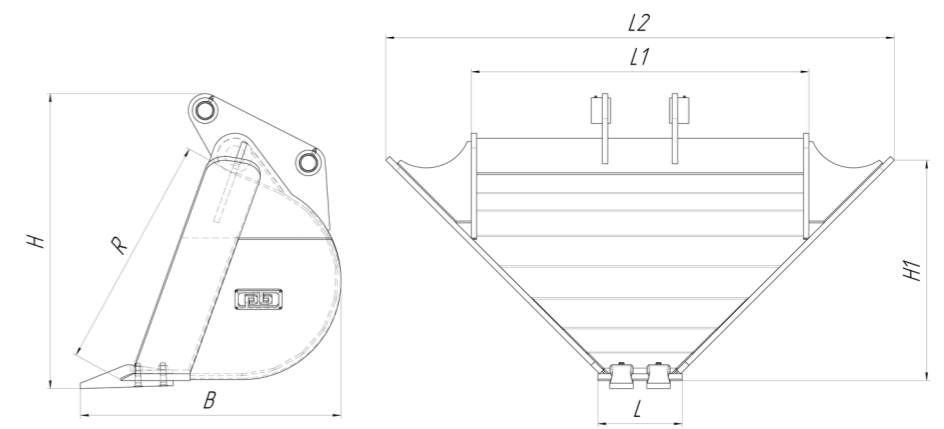
TR buckets are used for digging channels and forming slopes at various angles. It is used to create fire ditches, gutters and other objects in which it is necessary to withstand required bias.

1 Bucket Hinge Types:

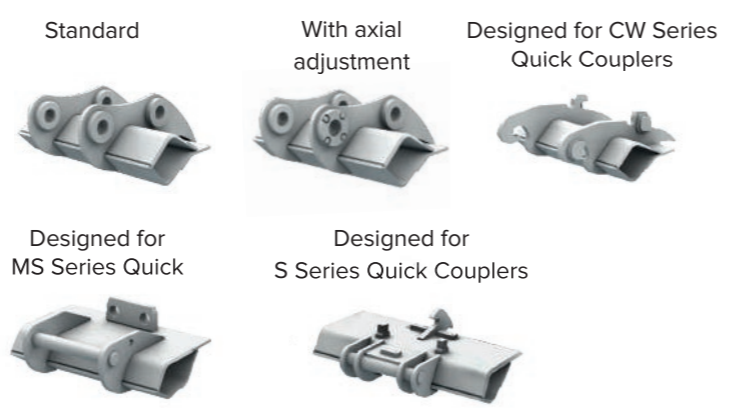
- Standard (pin-on type).
- Pin-on type with axial adjustment.
- CW Series, MS Series and S Series Quick Coupler Type.

2 Tooth System:

- CAT (J-series).
- Other (Komatsu, Hyundai, Doosan and other).



1 Bucket Hinge Types



2 Tooth System



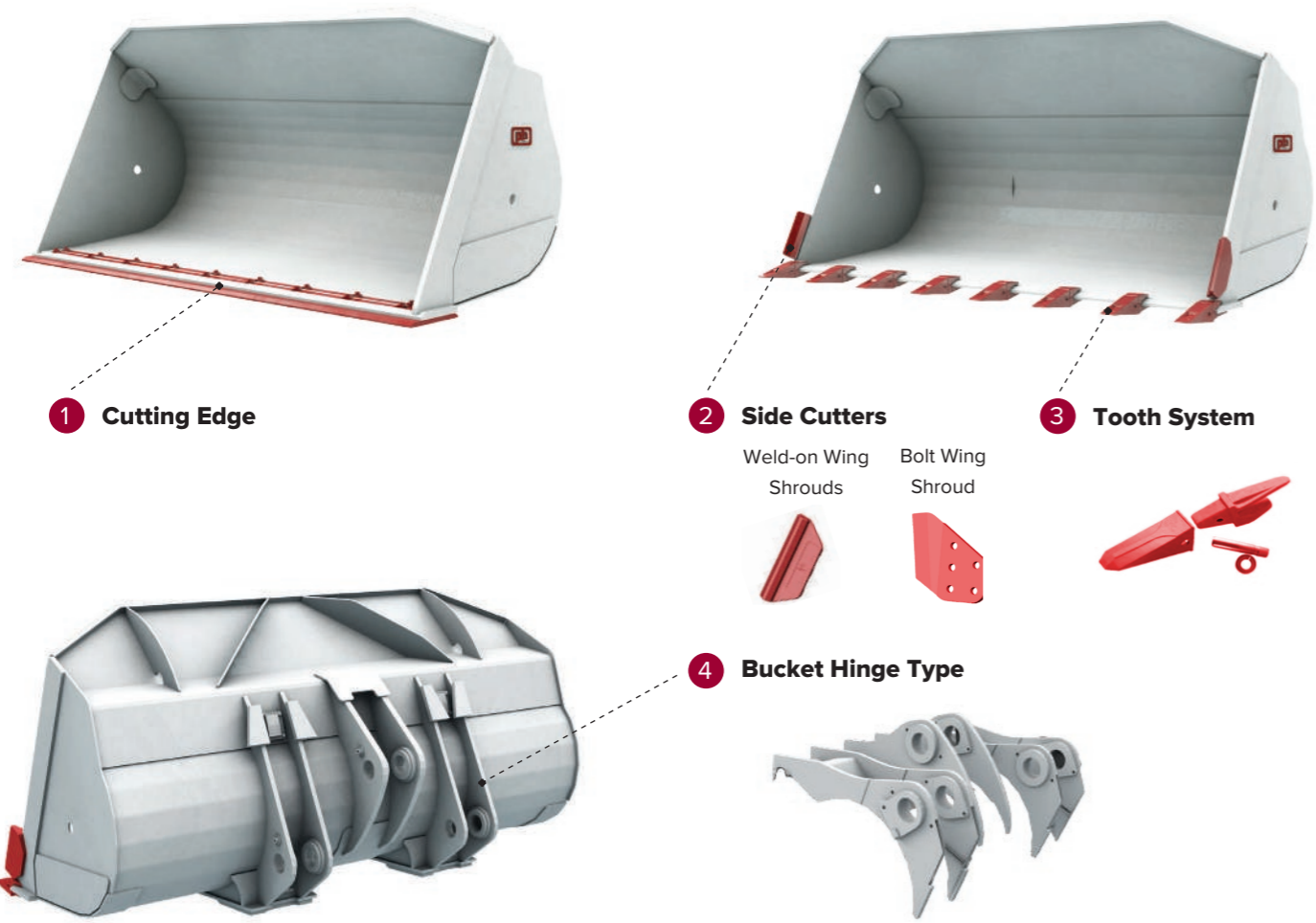
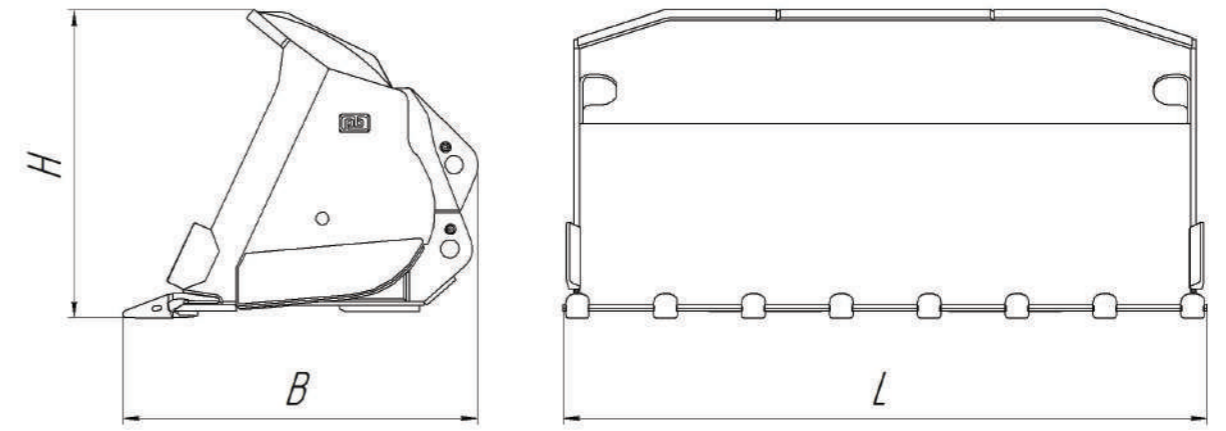
Specifications	TR-071.XX	TR-22.XX
Tilt angle, °	30-60	30-75
Carrier weight, t	7-11	16-25
Bucket Operating weight, kg	180-230	590-840
Bucket capacity, m ³	0,16-0,22	0,50-1,08
Width (L), mm	250	400
Width (L1), mm	750-1200	680-1580
Width (L2), mm	1200-1800	1050-3000
Height (H), mm	810-890	1190-1400
Height (H1), mm	480-860	800-1500
Depth (B), mm	700-790	1220-1480
Tip Radius (R), mm	600-700	885-1150
Number of teeth	2	2



WHEEL LOADER STANDARD BUCKETS

Professional LLC produces **buckets for wheel loaders** of world-known foreign and domestic brands: Komatsu, Hyundai, Volvo, Cat, John Deere, LuGong, Amkador, ChTZ, RM-Terex, SDLG, Foton, XCMG, LuQing, etc. **A standard FLS series** front bucket is equipped with side cutters, adapters with tips or replaceable blades.

- 1 Cutting Edge:**
Steel Grade HB-400.
- 2 Side Cutters:**
 - Weld-on i-130.
- 3 Tooth System:**
 - CAT (J-series).
 - Other Series (Komatsu, Hyundai, Doosan and other).
- 4 Bucket Hinge Type:**
Standard (Pin-on type).



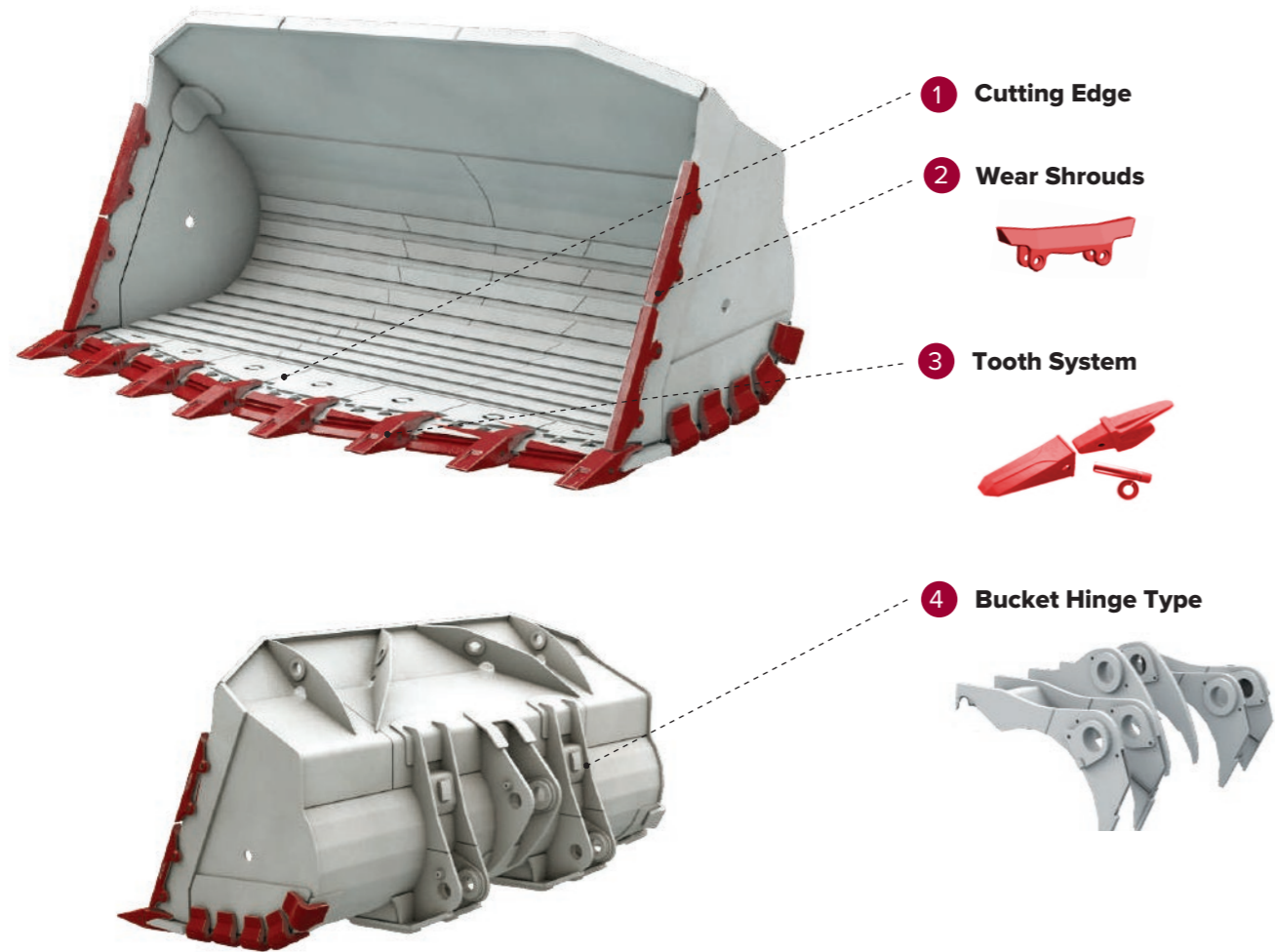
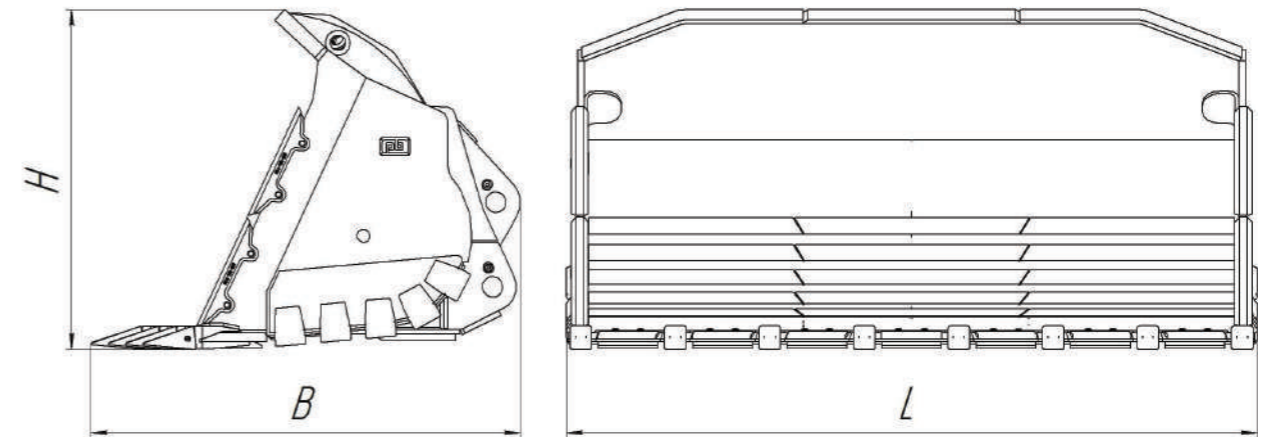
Specifications	FLS-08-XXX	FLS-12-XXX	FLS-17-XXX	FLS-23-XXX	FLS-30-XXX
Carrier Weight, t	6-10	10-15	15-20	20-25	25-35
Bucket operating weight, kg	650-850	1000-1300	1800-2100	2400-2700	3000-3400
Bucket capacity, m ³	1,2-2,0	1,8-2,7	2,5-3,9	3,4-5,0	4,0-5,5
Width (L), mm	2350-2500	2500-2600	2900-3000	3200	3500
Height (H), mm	1200	1250	1450	1650	1800±5%
Depth (B), mm	1300	1550	1650	1800	1850±5%
Number of teeth	8	8	8	8	8



WHEEL LOADER ROCK BUCKETS

Wheel loader FLR Series and FLRX Series Rock Buckets equipped with reinforced protection package are built by Professional LLC for all brand machines. Exact type of protection elements that increase bucket durability significantly will be offered to a Customer depending on requested digging force, soil density and other factors.

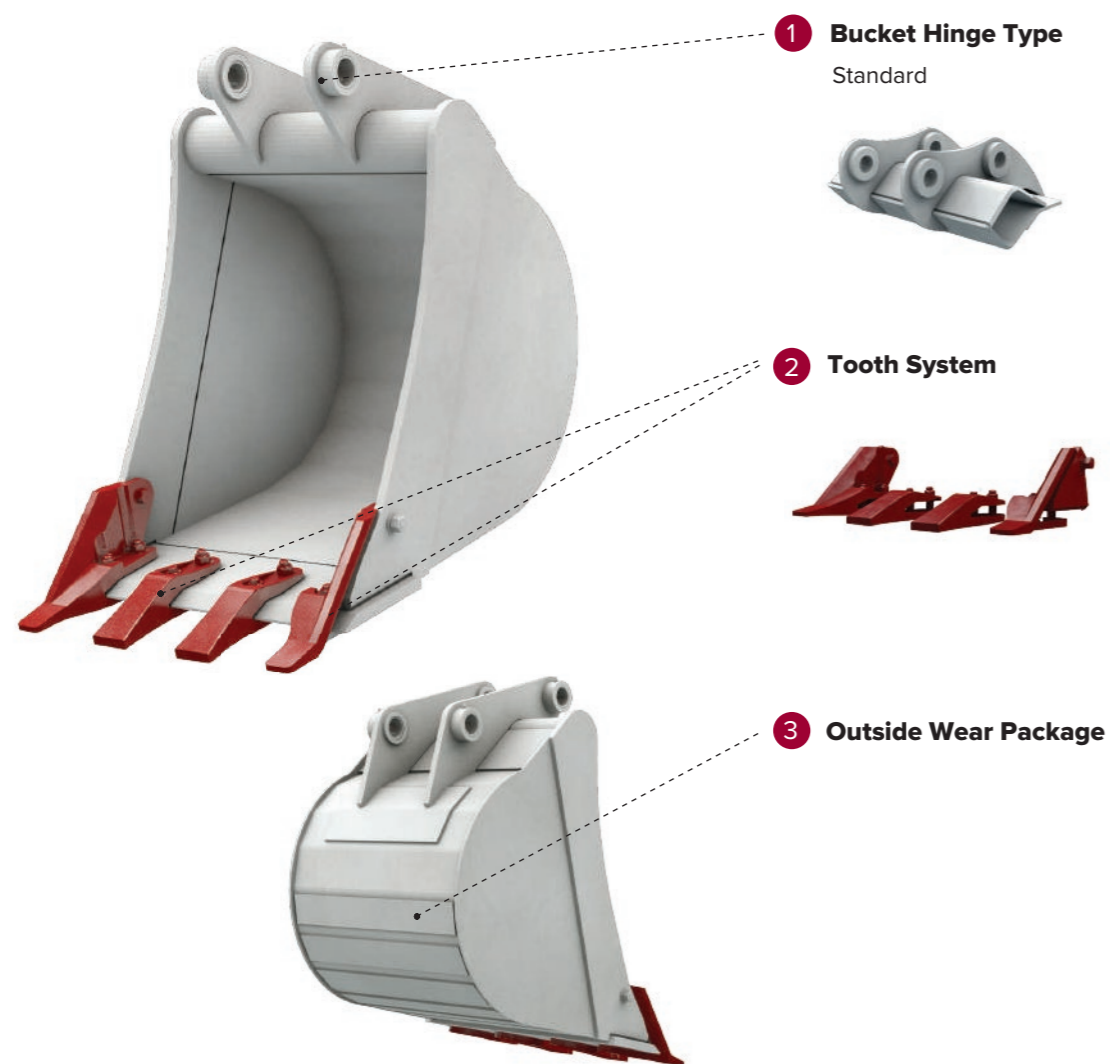
- 1 **Cutting edge:**
 FLR-17, FLRX-17, FLR-23, FLRX-23: steel HB-400.
 FLR-30, FLRX-30: steel HT-360.
- 2 **Side cutters:**
 208-934-7131.
- 3 **Tooth system:**
 - CAT (J-series).
 - Other Series (Komatsu, Hyundai, Doosan, Hensley XS, Esco Ultralok, MTG KingMet).
- 4 **Bucket Hinge Type:**
 - Standard (Pin-on type).



Specifications	FLR-17-XXX	FLRX-17-XXX	FLR-23-XXX	FLRX-23-XXX	FLR-30-XXX	FLRX-30-XXX
Carrier weight, t	15-20	15-20	20-25	20-25	25-35	25-35
Bucket operating weight, kg	2150-2400	2250-2500	2800-3100	3000-3300	3500-3900	3700-4000
Bucket capacity, m³	2,5-3,9	2,5-3,9	3,4-5,0	3,4-5,0	4,0-5,5	4,0-5,5
Width (L), mm	2900-3000	2900-3000	3200	3200	3500	3500
Height (H), mm	1450	1450	1650	1650	1800±5%	1800±5%
Depth (B), mm	2050	2050	2100	2100	2200±5%	2200±5%
Number of Teeth	8	8	8	8	8	8

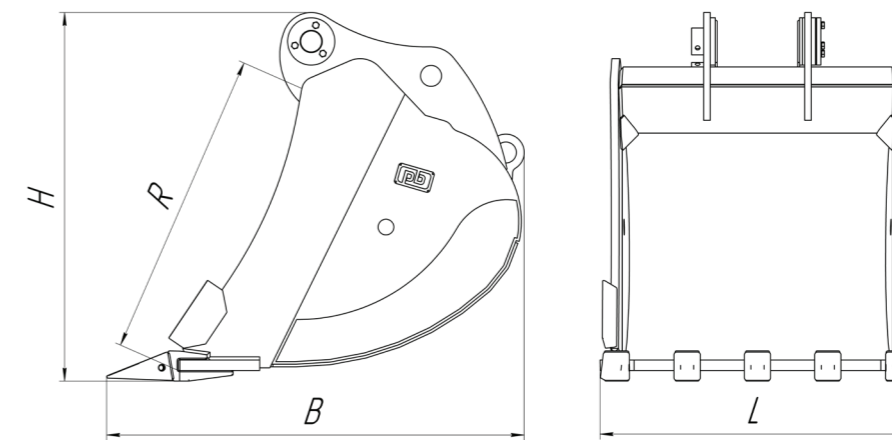


BACKHOE LOADER REAR BUCKETS



Professional LLC routinely produces **GP Series Digging Buckets for backhoe loaders** of world-known foreign and domestic brands: Volvo, JCB, MST, Hidromek, Terex, Case, New Holland, John Deere and others. Available backhoe bucket options for mass excavation applications include different number of teeth (two, three, four or five), as well as various protection packages from the world's leading suppliers.

- 1 Bucket Hinge Type:**
 - Standard (Pin-on Type).
- 2 Tooth System:**
 - CAT (6Y6335, L29).
- 3 Outside Wear Package:**
 - Steel Grade S-355.



Specifications	GP-07.XX
Carrier weight, t	5-11
Bucket operating weight, kg	120-260
Bucket capacity, m ³	0,08-0,36
Width (L), mm	300-1000
Height (H), mm	900
Depth (B), mm	930
Tip Radius (R), mm	750

*Minimum width of a bucket depends on exact backhoe loader model.



BACHOE LOADER FRONT BUCKETS



1 Cutting Edge:

2 Tooth System:

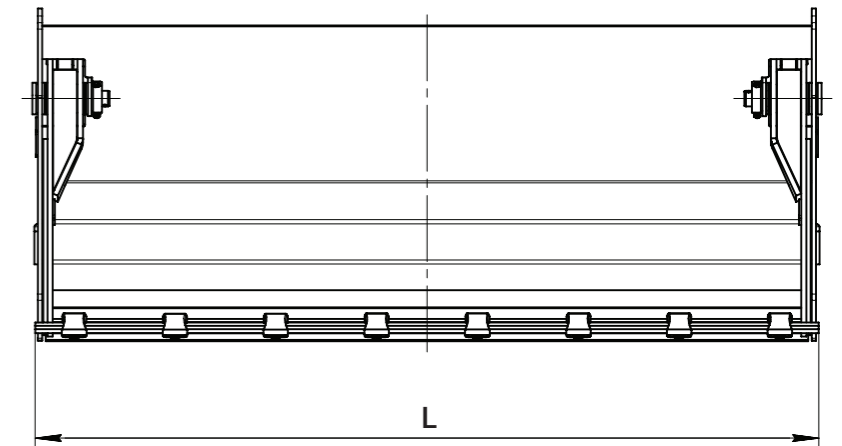
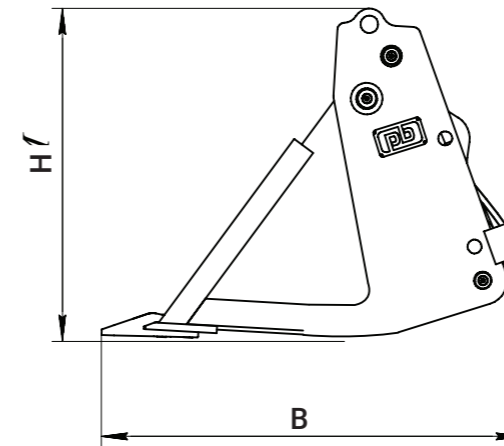


3 Bucket Hinge Type:



Professional LLC produces **Front Jaw Type Buckets** for backhoe loaders of world-known foreign and domestic brands: Volvo, JCB, Komatsu, Hidromek, Terex, Case, New Holland, John Deere, MST and others. A standard backhoe front bucket is also available for supply.

- 1 Cutting Edge:**
 - Steel Grade HB-400.
- 2 Tooth System:**
 - CAT (6Y6335).
- 3 Bucket Hinge Type:**
 - Standard (Pin-on Type).



Specifications	FLFS-08-XXX
Carrier weight, t	5-11
Bucket operating weight, kg	810
Bucket capacity, m ³	1,1-1,2
Width (L), mm	2230
Height (H), mm	950
Depth (B), mm	1200
Number of teeth	8

* Bucket Specifications depend on an exact backhoe loader model.

Professional in the world



Professional LLC

Address: Kollektivnaya st., 3 B,
Ivanovo, Russia, 153043
tel/fax +74932353500
e-mail: info@profdst.ru
www.profdst.ru