



ATTACHMENT



PRODUCT CATALOG

**impulse**[®]
Quality made!

We create new products!



We'd like to express our appreciation to SSAB, ESAB, Fronius, MicroStep, Doosan, Rammer, John Deere, Sandvik, Auger Torque, Trevi Benne and many other partners for long-standing and fruitful business relations.

We bless our faithful customers and colleagues for their trust and support on our way of establishing the plant and manufacturing.

We combined modern industrial structure and advanced technologies on material handling with highly qualified staff and engineering skills.

We aim at perfection of our products, embodying in the manufactured goods many years of manufacturing experience and advanced technical solutions.

We produce goods which fully meet international standards' requirements and Engaging the best consumer features in them.

We are - RC attachment, distributor «Impulse» product line in USA.

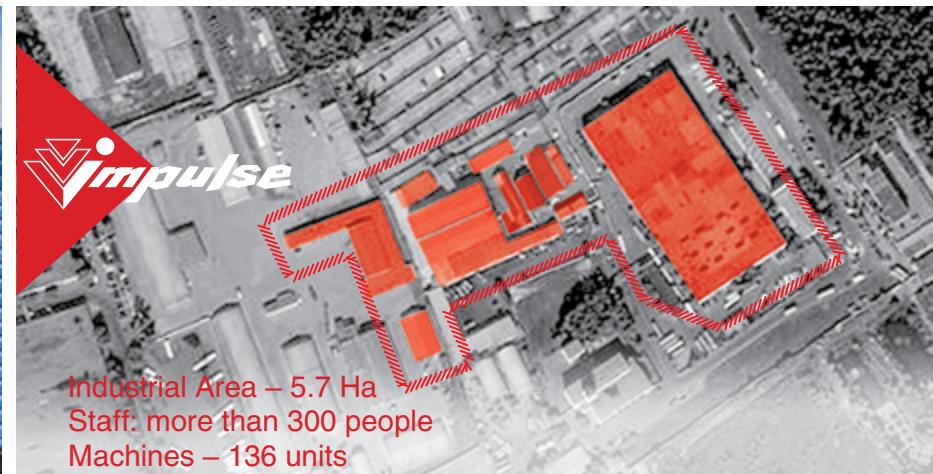
RCattachment LLC
 109 Schelter Rd, Lincolnshire,
 IL 60069, USA
www.rcattachment.com
info@rcattachment.com

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Hydraulic Hammers

Maximum concentration of power in each bit of mass



Specific steel grades and adherence of metal heat treatment technology underlie the production of high quality «Impulse» working tools.

**Impulse 400
Evolution
4200 J
400-900 Imp/min
1100 kgs**



D: 30 - 380 mm
L: 400 - 1950 mm



Impulse 120

850 J
450-900 Imp/min
275 kgs

Hydraulic Hammers «Impulse»

The world's first unique «**MONOLITH**» Hydraulic Hammer body design combined with modern technologies on material treatment lead «**Impulse**» hammers to a higher technological level.

Easy installation and longevity, low maintenance cost and constant availability of consumables can make «**Impulse**» a reliable partner in your business.

Impulse 300ECO

2441 J
450-800 Imp/min
705 kgs



Impulse 500S

7200 J
350-700 Imp/min
2180 kgs



Impulse 100L

630 J
800-1600 Imp/min
275 kgs



Earth Drills «Impulse»

High torque, simple design and reliability are implemented in a new range of earth drills – «M» series.

A new generation of planetary gear and hydraulic motor with variable dynamic response allow obtaining maximum torque in wide range of fuel supply.

Easy installation, optimal basic supply kit and wide range of augers for any drilling solutions make «Impulse» one of the best among the competitors.

Auger's range:

D: 100 - 1200 mm

L: 1200 - 3000 mm

Extension: 500 - 3000 mm

Earth Drills & Augers



Impulse M30

27005 Hm
80-170 l/min



Impulse M3

2847 Hm
27-65 l/min

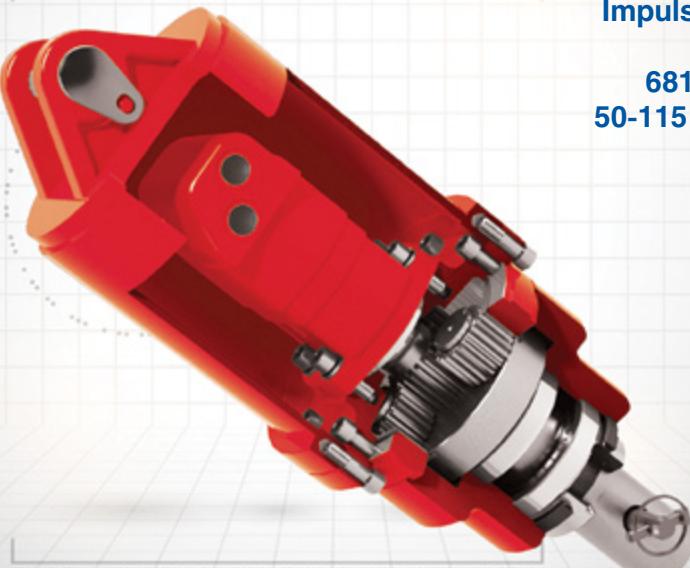


With the help of reverse rotation you can get the augers easily out. 2 way valve operation is switched on and off from the operator's cabin. 2 way valve can be installed either on the earth drill's hood or at the carrier itself.



Impulse M7

6819 Hm
50-115 l/min



Borer type	Soil category
abrasive	I - IV
rock	III - VI

Municipal Attachments



Productivity at the lowest cost, time-proved design & high efficiency are built in each «Impulse» product.

Impulse SP 1850BS

1850 mm
0.4 m³

Impulse PF1800

1.8 t
1220 mm



Impulse SP1850G

**1850 mm
55-75 l/min**



Municipal Attachments «Impulse»

We developed a new line of attachments for backhoe loaders based on customers' requirements, climate patterns & years of experience on hydraulic equipment.

We adapted Impulse products to most carriers models keeping high quality and performance level at an affordable price.

Impulse TB1800G

**1800 mm
30-65 l/min**



Impulse P500

**1 t
0.5 m³**



Impulse SR1850

**1850 mm
40-75 l/min**



Compactors Vibratory Pile and Pile Cutters

«**Impulse**» vibratory machines combine modern technical solutions, high performance & reliability.

It allows to perform soil compaction, strengthening of ditches and is irreplaceable in installation and dismantling works.

High quality components and advanced technologies guarantee that job of any complexity will be done just in time.

«**Impulse**» Pile Cutter is the most cost-efficient and effective attachment for pile head crushing.

Impulse V100

Force: 8-11 t
2250 imp/min



Impulse V30

Force: 3-4 t
2680 imp/min



«Impulse» attachments are result-oriented force vector!



Vibratory Pile Driver Impulse VE1100 (electric) helps to carry out piles' installation and dis-mantling using crane only.

VE1100 in most cases, eliminates restrictions on length of submerged piles or other objects, such as U&Z shaped profiles, I-beams, tubes etc.

Impulse VP300

310 kH

2680 imp/min

Impulse VE1100

1320 imp/min



Impulse SV400

**280 kH
645 kgs**



Buckets for Backhoe Loader



We succeeded in extension of buckets & rippers life by using Swedish steels Hardox, Weldox and Domex in our product.

Ripper's tooth
Impulse RE290

1090 mm



Impulse 760

760 mm
0.25 m³



Impulse 610

**610 mm
0.18 m³**



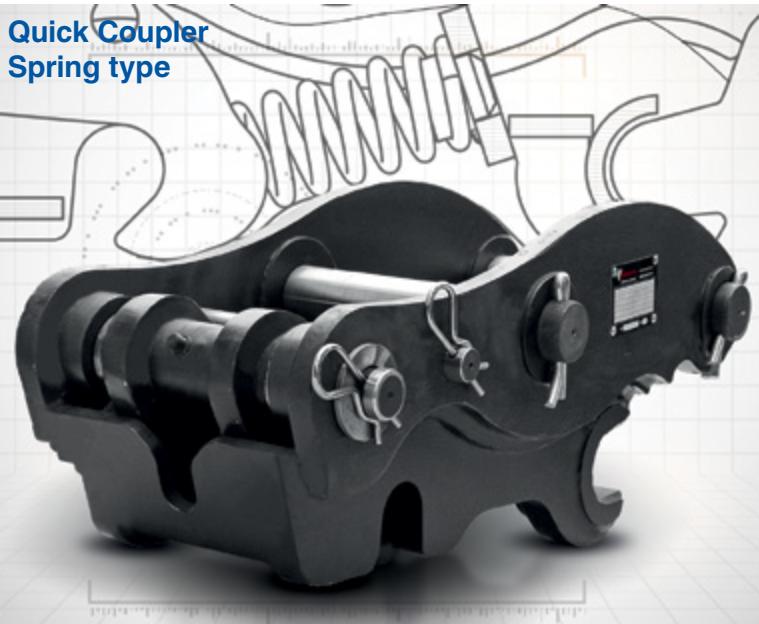
Buckets – light series

Light series of buckets is represented by trenching and slope buckets as well as combined buckets & rippers for backhoe loaders and mini-excavators .

Rippers are completed with the special sharp form of changeable tip which allows to improve ripper's penetration.

Quick Couplers

Quick couplers «Impulse» help to keep digging geometry, fix the attachments' position during transportation and simplify its' replacement.



DOMEX®
HIGH STRENGTH STEEL



Bucket series/models: 300/360/400/460/610/760/920 mm

Bucket excavator & loading



Front Shovel Rock
bucket



Rock reinforced bucket



Stable quality of our products is achieved by strict control system of raw materials and years of experience with domestic & imported steel grades.

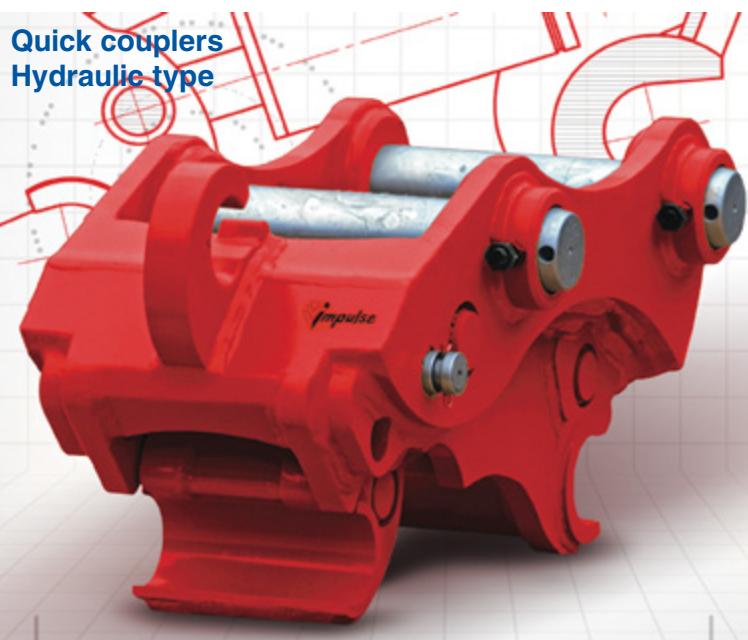
Buckets for bulk materials



Excavator & Loading Buckets

«**Impulse**» is the only company in Russia which is authorized to use «**Hardox in my body**» trademark in its products. «**Impulse**» guarantees compliance of all international standards and uses the most modern technologies in the production.

«**Impulse**» technologies extend buckets' life and increase payload capacity.



Hydraulic Hammers

	Basic machine weight, t	Impact Energy, Js	Frequency, Imp/min	Oil consumption, l/min	Pressure (max), atm	Weight, kgs	Working tool diameter, mm
Impulse 100L	1-6,5	630	800-1600	30-50	90-130	275	68
Impulse 120	4-9	850	450-900	30-50	90-130	275	68
Impulse 150	5-10	1210	450-900	40-80	130-150	315	75
Impulse 300ECO	10-20	2441	450-800	80-110	150-170	705	105
Impulse 400S EV	13-21	4200	400-900	90-160	150-180	1100	120
Impulse 450S	18-26	5290	400-800	130-150	160-180	1580	135
Impulse 500S	25-45	7200	350-700	190-250	160-180	2180	150

Hydrodrills

	Torque, Nm	Oil consumption, l/min	Pressure (max), atm	Weight, kg	Auger's diameter, mm	Auger's length, mm
Impulse M2	1496	20-45	70-205	46	100-400	1200
Impulse M3	2847	27-65	70-240	48	100-500	1200
Impulse M6	5056	40-95	80-240	108	150-750	1450
Impulse M7	6819	50-115	80-260	110	150-800	1450
Impulse M10	9540	87-210	80-280	167	150-800	1750
Impulse M12	10662	70-150	80-260	162	150-800	1750
Impulse M15	15071	70-150	80-240	165	150-1000	1750
Impulse M18	16840	87,5-210	200-280	167	150-1200	1750
Impulse M20	17890	130-150	200-320	330	150-800	1750
Impulse M30	27005	80-170	160-240	393	300-1000	2000
Impulse M50	43071	80-170	160-240	418	300-1500	2000

Augers

	Diameter, mm	Length, mm	Teeth type
S4	100-800	1200	tungsten
S5	150-800	1450	tungsten / rock
S6	150-1000	1750	tungsten / rock
PA	300-1500	2000	rock

Adapters

From	On
S5 square 75 mm	Shaft S4 diameter 65 mm
S5 square 75 mm	Shaft diameter 64 mm
S5 square 75 mm	Shaft diameter 79 mm
S5 square 75 mm	Shaft diameter 93 mm
S5 square 75 mm	hexahedron 55 mm
hexahedron 55 mm	S5 square 75 mm
square 57 mm	Shaft diameter 79 mm

Sweeping Broom Equipment

	Working width, mm	Broom diameter, mm	Oil consumption, l/min	Pressure (max), atm	Weight, kg	Turning angle
Impulse SP1850	1850	550	55-75	200	215	±25
Impulse SP1850G	1850	550	55-75	200	228	±25
Impulse SP1850BS	1850	550	55-75	200	375	-
Impulse SP2400	2400	850	55-75	200	475	±30
Impulse SP2400G	2400	850	55-75	200	500	±30

Blades

	Working width, mm	Oil consumption, l/min	Pressure (max), atm	Weight, kg	Turning angle
Impulse TB1800	1800	30-65	200	150	±25
Impulse TB1800G	1800	30-65	200	160	±25
Impulse TB2800	2800	30-65	200	311	±30
Impulse TB2800G	2800	30-65	200	330	±30

Snow Blower

	Working width, mm	Oil consumption, l/min	Pressure (max), atm	Weight, kg	Auger's diameter, mm
Impulse SR1850	1850	50-60	200	330	360

Pallet Forks

	Capacity, kg	Tooth Length, mm	Tooth Width, mm	Weight, kg
Impulse PF1800	1800	1220	100	194

Compactors

	Force, t	Oil consumption, l/min	Pressure (max), atm	Weight, kg	Frequency, impulse/min
Impulse V30	3-4	60	110-130	380	2680
Impulse VT30	4-5	60	110-130	300	5285
Impulse V100	8-11	150	140-160	1150	2250

Vibratory Pile Driver

	Static moment, kgm	Oil consumption, l/min	Pressure (max), atm	Weight, kg	Frequency, imp/min	Pile weight (max), kg
Impulse VP300	4	150-250	280-350	1050	2680	800
Impulse VE1100	0.75	-	140-160	3070	1320	1200
Impulse VP350RT	3,5	189	200-350	1680	3000	800

Pile Cutters

	Pile profile,mm	Max Force, kN	Working pressure, bar	Hydraulic cylinder ,pc	Weight, kg
Impulse SV400	300-400	280	250-300	4	600
Impulse SV500	400-500	280	250-300	4	780

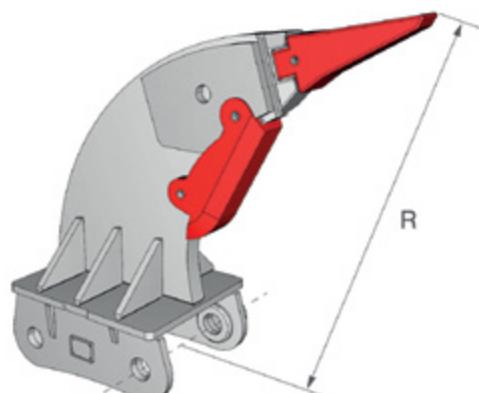
Buckets for Backhoe Loaders

Domex	Weight, kg	Volume, m ³	Width, mm	Teeth, pc
300	100	0.07	300	3
360	110	0.08	360	3
400	115	0.09	400	3
460	120	0.12	460	3
610	130	0.18	610	4
760	150	0.25	760	5
920	170	0.3	920	6

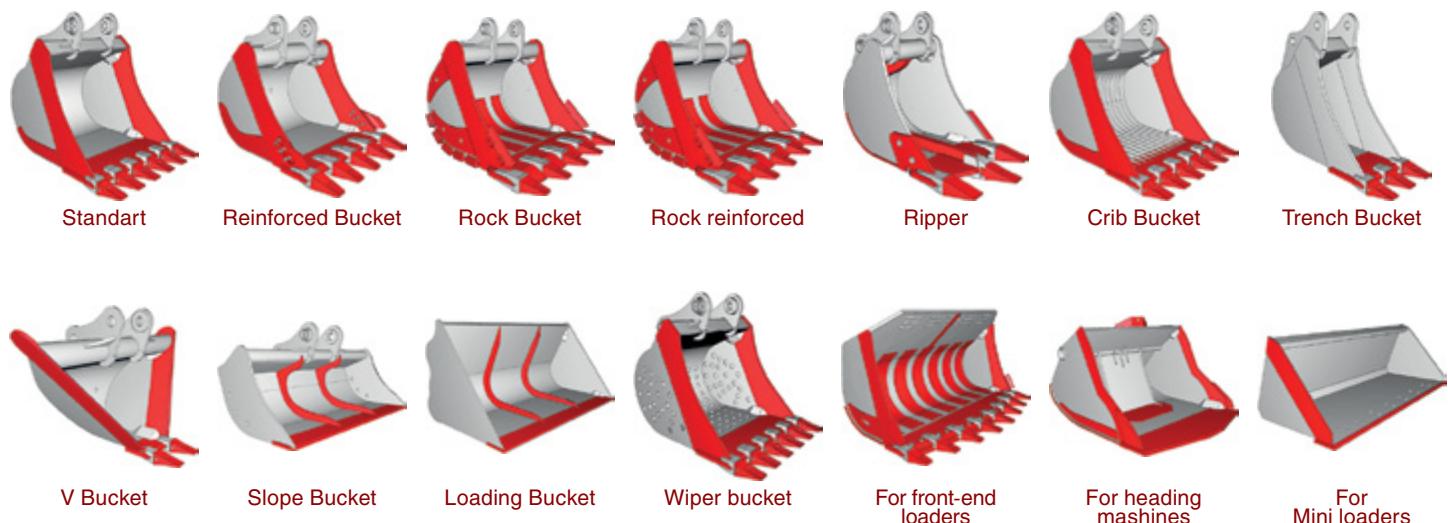
Economic	Weight, kg	Volume, m ³	Width, mm	Teeth, pc
300	90	0.07	300	2
360	95	0.08	360	3
400	101	0.09	400	3
460	112	0.12	460	3
610	123	0.18	610	4
760	147	0.25	760	5
920	170	0.3	920	6

Rippers

	Weight, kg	R, mm	Backhoe loaders weight ,t
Impulse RE290	290	1090	6-10
Impulse RE370	370	1210	10-18
Impulse RE470	470	1390	18-25
Impulse RE620	620	1550	25-35
Impulse RE1120	1120	1780	35-45



Standard buckets overview



12 - 18 t			
Width, mm	Capacity, m³ (SAE)	Teeth, pc	Weight, kg
Standart bucket			
500	0,25	3	350
700	0,41	4	415
900	0,59	4	475
1100	0,77	5	560
1300	0,95	6	630
Reinfoerced bucket			
500	0,25	3	375
700	0,41	4	444
900	0,59	4	508
1100	0,77	5	599
1300	0,95	6	674
Rock bucket			
500	0,25	3	385
700	0,41	4	457
900	0,59	4	523
1100	0,77	5	616
1300	0,95	6	693
Ripper bucket			
1000	0,72	3	780

19 - 26 t			
Width, mm	Capacity, m³ (SAE)	Teeth, pc	Weight, kg
Standart bucket			
600	0,35	3	470
800	0,55	4	540
1000	0,76	4	675
1300	1,07	5	830
1500	1,28	6	920
Reinfoerced bucket			
600	0,35	3	508
800	0,55	4	583
1000	0,76	4	729
1300	1,07	5	896
1500	1,28	6	994
Rock bucket			
600	0,35	3	531
800	0,55	4	610
1000	0,76	4	763
1300	1,07	5	938
1500	1,28	6	1040
Ripper bucket			
1000	0,87	3	1250

27 - 37 t			
Width, mm	Capacity, m³ (SAE)	Teeth, pc	Weight, kg
Standart bucket			
800	0,62	4	790
1000	0,87	4	830
1200	1,13	5	935
1400	1,39	5	1180
1600	1,65	6	1370
Reinfoerced bucket			
800	0,62	4	853
1000	0,87	4	896
1200	1,13	5	1010
1400	1,39	5	1274
1600	1,65	5	1480
Rock bucket			
800	0,62	3	893
1000	0,87	4	938
1200	1,13	5	1057
1400	1,39	5	1333
1600	1,65	5	1548
Ripper bucket			
1000	1,1	3	1450

38 - 53 t			
Width, mm	Capacity, m³ (SAE)	Teeth, pc	Weight, kg
Standart bucket			
850	0,79	3	920
1000	1,02	4	1030
1200	1,33	4	1180
1500	1,82	5	1620
1800	2,31	5	1750
Reinfoerced bucket			
850	0,79	3	998
1000	1,02	4	1118
1200	1,33	4	1280
1500	1,82	5	1758
1800	2,31	5	1899
Rock bucket			
850	0,79	3	1138
1000	1,02	4	1275
1200	1,33	4	1459
1500	1,82	5	2004
1800	2,31	5	2165
Ripper bucket			
1200	1,2	3	2350

Shuttle type selection grapples

	Capacity, m³	Weight, kg	Pressure, bar	Oil consumption, l/min
Impulse MA600	0,6	800	300-320	40-80
Impulse MA800	0,8	1000	300-320	50-90
Impulse MA1000	1	1200	300-320	60-100
Impulse MA1500	1,5	1850	300-320	80-150
Impulse MA2000	2	2300	300-320	80-150

Fixed point type selection grapples

	Capacity, m ³	Weight, kg	Pressure, bar	Oil consumption, l/min
Impulse MB600	0,6	800	300-320	40-80
Impulse MB800	0,8	900	300-320	50-90
Impulse MB1000	1	1200	300-320	60-100

Loading Grab

	Capacity, m ³	Weight, kg	Pressure, bar	Oil consumption, l/min
Impulse LA1500	1,5	1500	320	80-150
Impulse LA2000	2	1850	320	80-150
Impulse LA3000	3	2250	320	80-150

Dig Grab

	Capacity, m ³	Weight, kg	Pressure, bar	Oil consumption, l/min	Cutting Force, kH
Impulse GA600	0,6	700	300-320	40-80	50-60
Impulse GA800	0,8	1000	300-320	50-90	50-60
Impulse GA1000	1	1200	300-320	60-100	50-60

Spherical dig grab

	Capacity, m ³	Weight, kg	Pressure, bar	Oil consumption, l/min	Cutting Force, kH
Impulse RA600	0,4	700	300-320	40-80	50-60
Impulse RA800	0,6	1000	300-320	50-90	50-60
Impulse RA1000	0,8	1200	300-320	60-100	50-60

Shuttle type log grab

	Capacity, m ³	Weight, kg	Basic machine weight, t
Impulse WA050	0,05	100	1,5-3
Impulse WA100	0,1	210	3-6
Impulse WA200	0,2	270	4-8
Impulse WA300	0,3	360	6-10
Impulse WA400	0,4	460	8-12
Impulse WA500	0,5	560	10-16
Impulse WA600	0,6	620	12-18
Impulse WA800	0,8	720	18-25
Impulse WA1000	1	920	25-32
Impulse WA1500	1,5	1450	28-38
Impulse WA2000	2	1950	35-50
Impulse WA3000	3	2650	50-75

Fixed point type log grab

	Capacity, m ³	Weight, kg	Basic machine weight, t
Impulse WB050	0,05	110	1,5-3
Impulse WB100	0,1	220	3-6
Impulse WB200	0,2	280	4-8
Impulse WB300	0,3	400	6-10
Impulse WB400	0,4	500	8-12
Impulse WB500	0,5	600	10-16
Impulse WB600	0,6	700	12-18
Impulse WB800	0,8	800	18-25
Impulse WB1000	1	1000	25-32
Impulse WB1500	1,5	1600	28-38
Impulse WB2000	2	2100	35-50
Impulse WB3000	3	2800	50-75

Spade type grapples

	Capacity, m ³	Weight, kg	Spade, pc	Basic machine weight, t
Impulse FC050	0,05	120	5	1,5-3
Impulse FC100	0,1	160	5	3-6
Impulse FC200	0,2	250	5	4-8
Impulse FC300	0,3	400	5	6-10
Impulse FC400	0,4	600	5	8-12
Impulse FC500	0,5	900	5	10-16
Impulse FC600	0,6	1200	5	12-18
Impulse FC800	0,8	1500	5	18-25
Impulse FC1000	1	1800	5	25-32
Impulse FC1500	1,5	2000	5	28-38
Impulse FC2000	2	2300	5	35-50
Impulse FC3000	3	3500	5	50-75

Shuttle type Selection grapples

	Capacity, m ³	Weight, kg	Basic machine weight, t
Impulse SB050	0,05	110	1,5-3
Impulse SB100	0,1	220	3-6
Impulse SB200	0,2	280	4-8
Impulse SB300	0,3	400	6-10
Impulse SB400	0,4	500	8-12
Impulse SB500	0,5	600	10-16
Impulse SB600	0,6	800	12-18
Impulse SB800	0,8	900	18-25
Impulse SB1000	1	1000	25-32
Impulse SB1500	1,5	1800	28-38
Impulse SB2000	2	2300	35-50
Impulse SB3000	3	3200	50-75

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