



RB,RQ,RD,RN & RS Series Product Line

RB RQ RD RN RS

Ramtec®

RQ RB RD RN HYDRAULIC BREAKERS
RS Skid Steer Loader



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Ramtec

Ramtec Engineering Machinery Co., Ltd.

www.ramtec.cn

Company Profile

Company Profile



Ramtec CN - Professional manufacturer

YANTAI RAMTEC ENGINEERING MACHINERY CO.,LTD is a large professional manufacturer of hydraulic breakers, integrating production,sales and service. We have a modern 6,000 sq.m production workshop and 2,000 sq.m office space, with a team of over 70 members. Our team consists of R&D engineers who specialize in hydraulic products, senior mechanical technicians, commissioning technicians and assembly workers.

Our annual designed production capacity is 5,000 units. At present, we focus on high-end breaker products and skid steer loaders. Our product range includes the Ramtec breaker series -RB series (high gas type), RD series (low gas type), and RQ series (alternative to full hydraulic hammer) ,as well as Ramtec skid steer loaders with rated weights of 850 kg ,1,000 kg and 1,200 kg . Supported by comprehensive production quality monitoring systems, procurement supervision systems and strict assembly process control, we are now looking for global partners.

Ramtec is dedicated to establishing a high-end brand through scientific management, refined manufacturing procedures, innovative production concepts and rigorous quality control systems. We continuously supply high-quality excavators, loaders and hydraulic breakers to the global construction machinery sector. Our products have obtained ISO 9001 quality management system certification and EU CE certification.



Catalogue

Hydraulic Breaker

 **RN Series**

 **RQ Series**

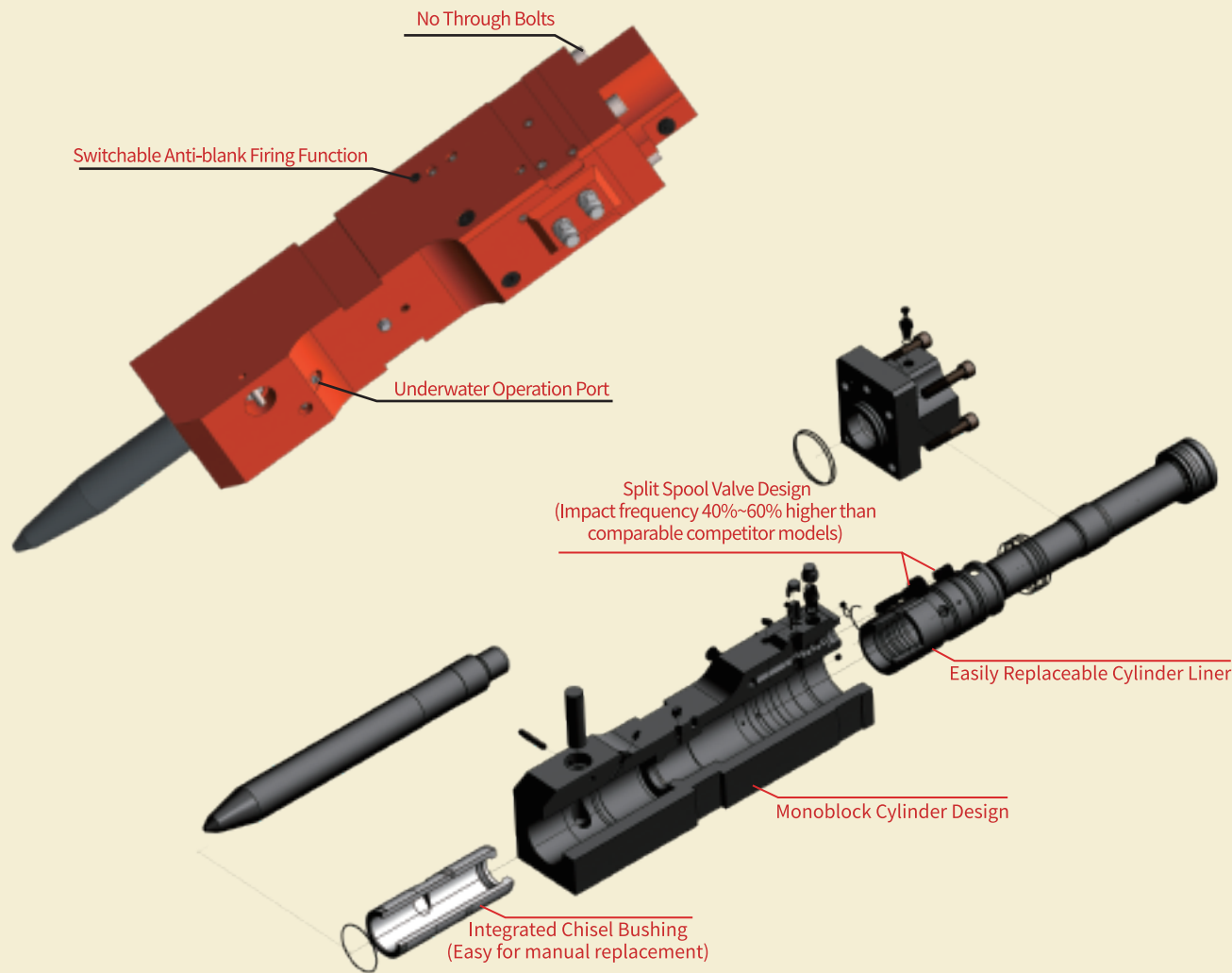
 **RB Series**

 **RD Series**

Skid Steer Loader

 **RS Series**

Benefits & Features

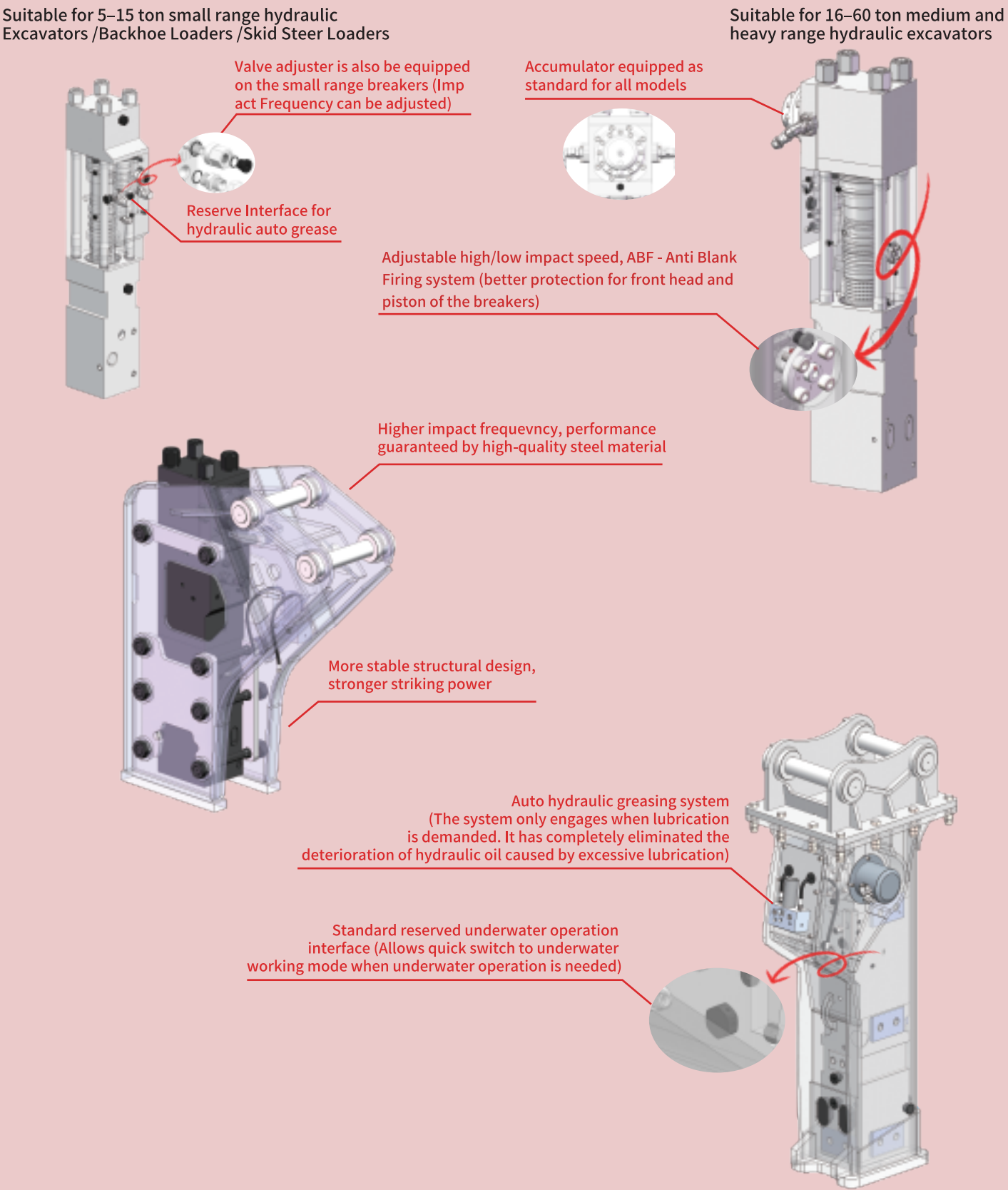


Technical Specifications



Description	Unit	RN3	RN4
Operation Weight	kg	325	440
Required Oil Flow	l/min	45-100	50-135
Operation Pressure	bar	230	230
Impact Rate	bpm	500-1150	400-1125
Tool Diameter	mm	75	85
Impact Power	J	1089	1621
Carrier Weight	ton	4-8	6-9

Benefits & Features



Ramtec HYDRAULIC BREAKERS

RQ Line Series

The RQ-series have been designed with many special features :

The advanced gas & oil percussion mechanism generates extra power by accumulated gas pressure which ensures a very reliable performance with a wide range of excavator pump conditions.

IPC & ABF System

Integrated Power Control & Anti-Blank Firing System

allows you to choose from 3 different modes.

The automatic anti blank Firing function (shutoff) can be switched off or on . The operator can select the correct operating mode from high frequency with normal power to low frequency with extra power . With this advanced system, the operator may choose the correct mode in accordance with site requirements in a matter of minutes and with a minimum of hassle.

Auto shut-off & easy start function

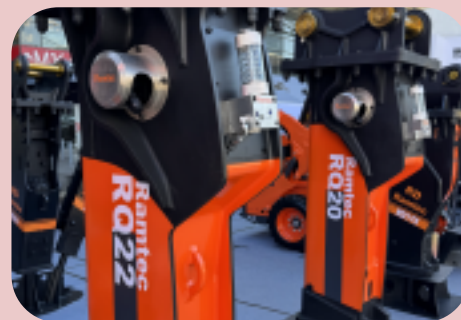
Breaker operation can be automatically stopped in order to prevent consequential damage to the power cell due to the blank Firing. Especially in secondary breaking or when the operator is unskilled.

Breaker operation is easy to restart when soft pressure is applied to the chisel to the work surface.

Enhanced vibration dampening & sound suppression system

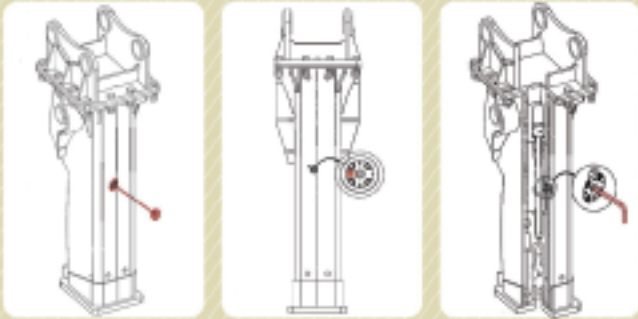
Meet strict noise regulations and allow more comfort for the operator.

Further features are standard connections for underwater operation and an automatic lubrication pump.



IPC&ABF SYSTEM CONTROL

[Technical Specifications RQ line]



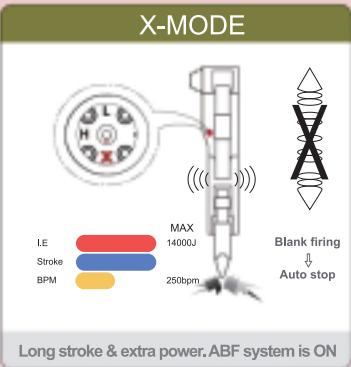
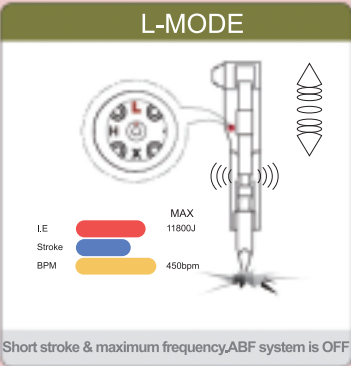
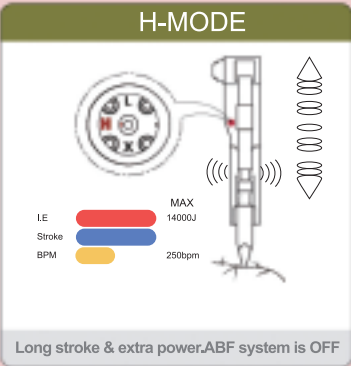
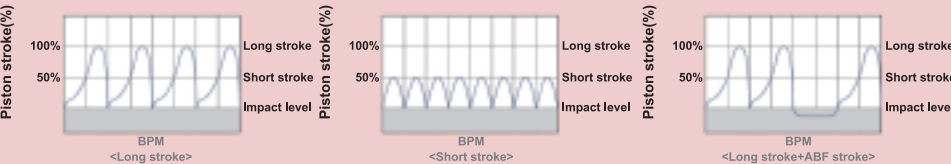
Selector Switch offers three operating modes and can be simply altered to each mode :

- H – mode : Long stroke with maximum power, ABF is off
- L – mode : Short stroke with maximum frequency, ABF is off
- X – mode : Long stroke with maximum power, ABF is on
(Blank firing→Auto stop)

• Easy start

Power control & Anti blank firing system

- H-mode:** Long stroke &Extra power,ABF is OFF
- Mode used for hard rock breaking such as primary breaking,trench works and foundation works where the rock condition is constant.
 - Hammer can be started without applying contact pressure to the working tool.
- L-mode:** Short stroke &Maximum frequency,ABF is OFF
- Hammer can be started without applying contact pressure to the working tool.
 - This mode is used for soft rock and semi-hard rock breaking.
 - High impact frequency and normal power provides higher productivity and reduces strain on the hammer and the carrier
- X-mode:** Long Stroke &Extra power,ABF is ON
- This mode is used for hard rock breaking such as primary breaking,trench work,and secondary reduction works,where the rock condition is not constant.
 - In ABF(Anti-blank firing)working mode,it switches off the hammer autom atically and prevents the blank firing,as soon as the material is broken.
 - The hammer can be easily restarted when minimal contact pressure is applied to the working tool.
 - The ABF system reduces strain on the hammer and the carrier.



Specifications

Description	unit	RQ1	RQ2	RQ3	RQ6	RQ8	RQ10
Operation weight	kg	104	130	156	299	379	556
Required oil flow	l/min	15-35	20-45	25-55	40-75	50-90	60-100
Operation pressure	bar	90-120	90-120	90-120	110-140	120-150	130-160
Impact rate	bpm	800-1350	700-1350	600-1250	570-1000	540-800	500-760
Tool diameter	mm	40	45	53	68	75	85
Impact power	J	280	300	385	640	850	1350
Carrier weight	ton	0.8-2.5	1.2-3.0	2.0-4.5	4-9	5-12	9-13

Description	unit	RQ15	RQ18	RQ20	RQ22	RQ28
Operation weight	kg	845	1607	1759	2053	2185
Required oil flow	l/min	80-120	90-120	100-150	120-180	150-210
Operation pressure	bar	150-170	150-170	160-180	160-180	160-180
Impact rate	H-MODE bpm	455-730	350-650	350-600	350-500	300-450
	L-MODE bpm	455-730	600-850	500-850	500-700	430-580
Tool diameter	mm	100	125	135	140	150
Impact power	J	2250	2750	3600	3895	5000
Carrier weight	ton	9--16	15-18	16-21	18-26	25-30

Description	unit	RQ30	RQ35	RQ35F	RQ40	RQ45
Operation weight	kg	2671	3033	3169	3950	4380
Required oil flow	l/min	180-240	200-260	200-260	210-290	230-300
Operation pressure	bar	160-180	160-180	160-180	160-180	180-200
Impact rate	H-MODE bpm	300-450	250-400	200-350	200-350	200-350
	L-MODE bpm	430-580	380-550	300-500	300-470	300-450
Tool diameter	mm	155	165	165	175	185
Impact power	J	5950	6950	9400	11000	15500
Carrier weight	ton	28-35	30-42	35-45	42-52	50-65

Side Type Breaker

Reduced overall length Easy to hook back
Easy to maintain

Top Type Breaker

Easy to control,easy to locate,more conducive to excavation
No side weight,reducing the chance of broken rods
Overall length is slightly longer and heavier

Silenced Type Breaker

Low noise
Closed structure,the main body is not easily damaged

Product application range

Mine mining-exploitation of mountain,mining,secondary crushing,grid screening crushing
Metallurgy-ladle,slag cleaning,furnace dismantling,dismantling of equipment foundation Road-highway repair,broken concrete pavement,foundation excavation
Railway-Opening of mountains,tunnelling,demolition of roads and bridges,compaction of subgrade Construction-old building demolished,reinforced concrete breaking
Ship repair-hull removal and clam derusting
Others-ice breaking,frozen soil,sand vibration



RB 6



RN 4



RB 40



RD 6



RD 125



RQ 30



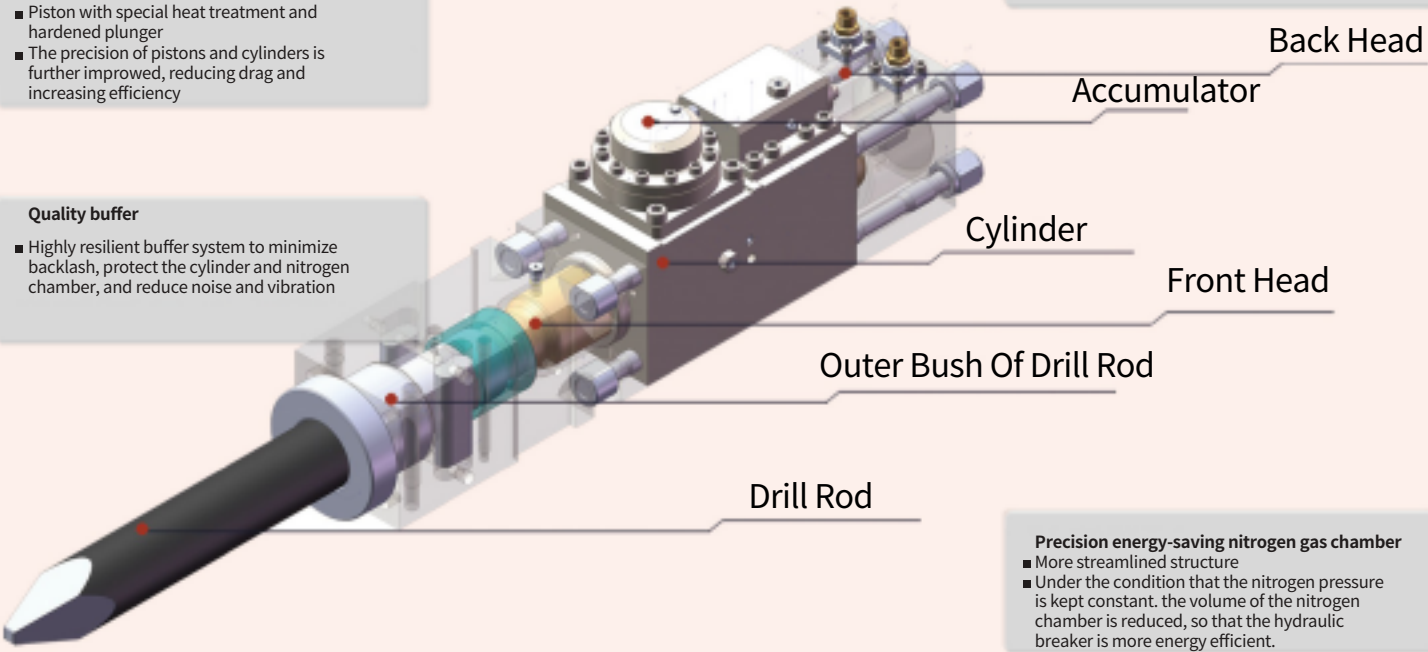
RS 850

RD Detailed explanation of external valve

- Extra durable piston**
- Increase the stroke of the piston to increase the striking force
 - Special shock absorption system to reduce recoil,eliminate mechanical elasticity and protect main body
 - Piston with special heat treatment and hardened plunger
 - The precision of pistons and cylinders is further improved, reducing drag and increasing efficiency

- High-quality high-pressure accumulator**
- Reduce pressure impact, increase impact energy , make the crusher more powerful

- Quality buffer**
- Highly resilient buffer system to minimize backlash, protect the cylinder and nitrogen chamber, and reduce noise and vibration

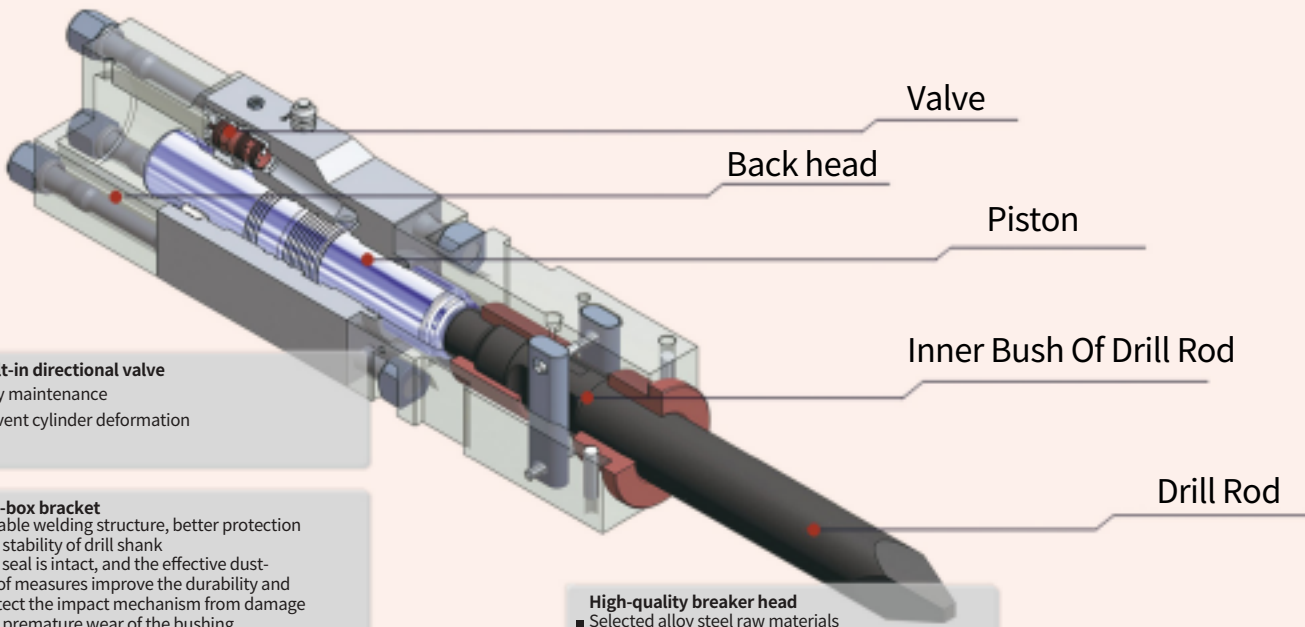


RB Detailed explanation of built-in valve

- Built-in directional valve**
- Easy maintenance
 - Prevent cylinder deformation

- Full-box bracket**
- Durable welding structure, better protection and stability of drill shank
 - The seal is intact, and the effective dust-proof measures improve the durability and protect the impact mechanism from damage and premature wear of the bushing.
 - Wide and light bracket with simple structure

- High-quality breaker head**
- Selected alloy steel raw materials
 - High cost deep heat treatment
 - Strong heat and wear resistance
 - The thickened hardened layer is added on the upper end of the drill shank to increase the durability of the drill rod.



RB series products

Model

Light-duty Hydraulic Breakers

- RB 1
- RB 2
- RB 3
- RB 5
- RB 6
- RB 8
- RB 10
- RB 15

Light-duty Hydraulic Breakers

SPECIFICATIONS

Description	unit	RB1	RB2	RB3	RB5	RB6	RB8	RB10	RB15
Operation weight	kg	78	97	158	180	275	341	510	779
Required oil flow	l/min	25-50	25-50	25-50	30-60	40-70	50-90	60-100	80-110
Operation pressure	kg/cm2(bar)	90-120	90-120	90-120	100-130	110-140	120-150	130-160	150-170
Impact rate	bpm	800-1400	700-1200	450-950	450-900	460-860	400-800	400-800	380-700
Tool diameter	mm	40	45	53	60	68	75	85	100
Impact power	J	240	280	350	400	600	800	1200	2100
Carrier weight	ton	0.8-2.5	1.2-3	3-4	5-6	6-7	7-9	9-13	12-15



RB series products

Model

Medium-duty Hydraulic Breakers

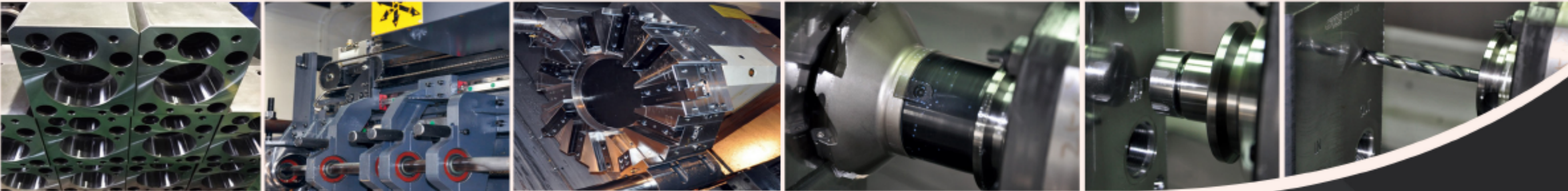
- RB 18
■ RB 20
■ RB 22
- RB 22A
■ RB 26
■ RB 28
- RB 30
■ RB 35

Medium-duty Hydraulic Breakers



SPECIFICATIONS

Description	unit	RB18	RB20	RB22	RB22A	RB26	RB28	RB30	RB35
Operation weight	kg	1366	1658	1809	1819	1989	2144	2577	2751
Required oil flow	l/min	150-170	150-170	160-180	160-180	130-150	150-210	180-220	180-220
Operation pressure	kg/cm2(bar)	160-180	160-180	160-180	160-180	190-210	190-210	200-220	210-240
Impact rate	bpm	380-750	350-750	280-450	280-450	400-600	300-450	200-350	180-300
Tool diameter	mm	125	135	140	140	142	150	155	165
Impact power	J	2600	3500	3700	3850	4100	4900	5700	6800
Carrier weight	ton	16-19	18-20	20-22	20-22	22-24	25-30	30-33	30-36



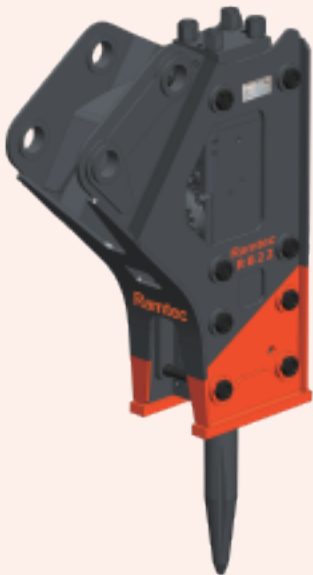
RB series products

Model

Heavy-duty Hydraulic Breakers

- RB 35F
- RB 40
- RB 40P
- RB 45

Heavy-duty Hydraulic Breakers



SPECIFICATIONS

Description	unit	RB35F	RB40	RB40P	RB45
Operation weight	kg	3295	4136	4350	4425
Required oil flow	l/min	190-230	200-240	200-240	200-240
Operation pressure	kg/cm2(bar)	210-240	220-270	220-270	220-270
Impact rate	bpm	180-300	150-210	150-210	150-210
Tool diameter	mm	165	175	175	180
Impact power	J	9000	11000	12000	13000
Carrier weight	ton	35-40	35-40	36-42	38-42



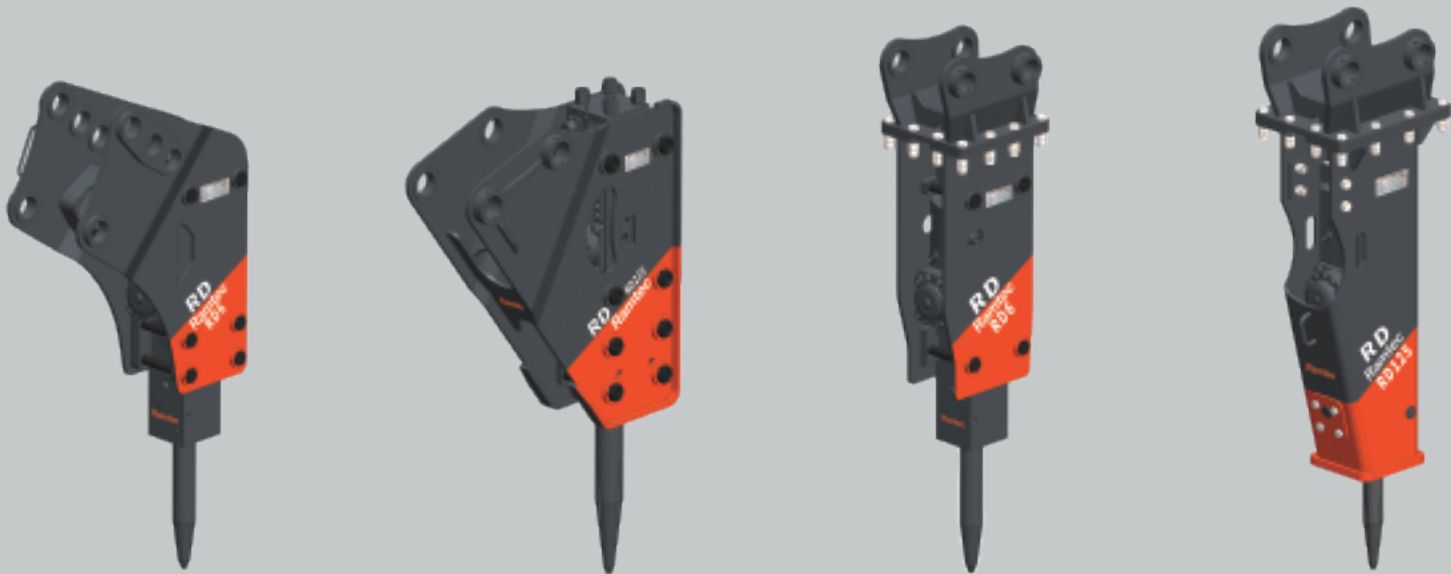
Model

Light、 Medium-duty Hydraulic Breakers

- RD 5 ■ RD 125 ■ RD 275
- RD 6 ■ RD 175
- RD 9 ■ RD 225

RD series products

Light、 Medium-duty Hydraulic Breakers



SPECIFICATIONS

Description	unit	RD5	RD6	RD9	RD125	RD175	RD225	RD275
Operation weight	kg	285	349	522	865	1120	1750	1999
Required oil flow	l/min	40-70	50-90	60-100	90-120	90-120	130-150	130-150
Operation pressure	kg/cm2(bar)	110-140	120-150	130-160	140-160	150-170	160-180	180-200
Impact rate	bpm	460-860	400-800	400-800	450-850	400-750	350-700	350-700
Tool diameter	mm	68	75	90	110	120	135	140
Impact power	J	600	800	1200	1800	2000	3600	4100
Carrier weight	ton	5-7	6-8	9-11	12-14	14-18	18-21	22-26



Model
Heavy-duty Hydraulic Breakers

- RD 375
- RD 550
- RD 800
- RD 475
- RD 600
- RD 500
- RD 700

RD series products

Heavy-duty Hydraulic Breakers



SPECIFICATIONS

Description	unit	RD375	RD475	RD500	RD550	RD600	RD700	RD800
Operation weight	kg	2200	2800	3995	4850	5010	6814	7911
Required oil flow	l/min	150-190	180-250	200-270	220-290	220-290	230-300	250-330
Operation pressure	kg/cm2(bar)	180-200	180-200	220-270	220-270	220-270	220-270	230-300
Impact rate	bpm	300-650	260-450	200-370	150-210	150-210	120-170	100-150
Tool diameter	mm	155	165	180	195	200	210	235
Impact power	J	5000	7100	13500	18500	20000	23000	27500
Carrier weight	ton	26-32	36-42	42-48	48-55	50-62	62-68	68-85



RS-Skid Steer Loader

Power System

World-renowned Yanmar engine: powerful, quiet, reliable, easy to maintain

Built for construction, high reliability & fuel efficiency.

Optional coolant parking heater: easy cold start, longer engine life, lower fuel & noise, higher productivity.

Hydraulic System

Full hydraulic control, sensitive & precise operation.

Heavy-duty hydraulic hoses for safety.

Optimized hydraulics for smooth compound actions; arm-bucket flow control for stable efficient work.

Auto boom lock on engine shutdown for safety.

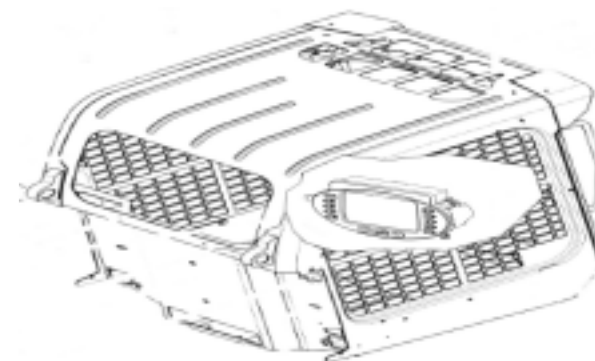
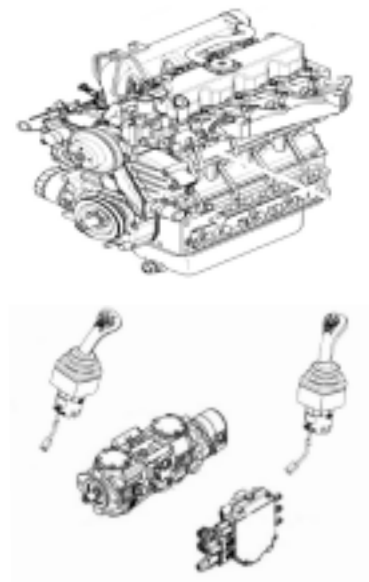
Cabin

High-tensile reinforced impact-resistant cabin, safer on tough sites; full tilt for easy service.

Spacious, panoramic windows & slim A-pillars for wide visibility.

Air suspension seat (heating optional) with linked armrests reduces bump fatigue. AC, radio, interior lights for comfort.

7-inch touchscreen with full parameters; rear camera eliminates blind spots.



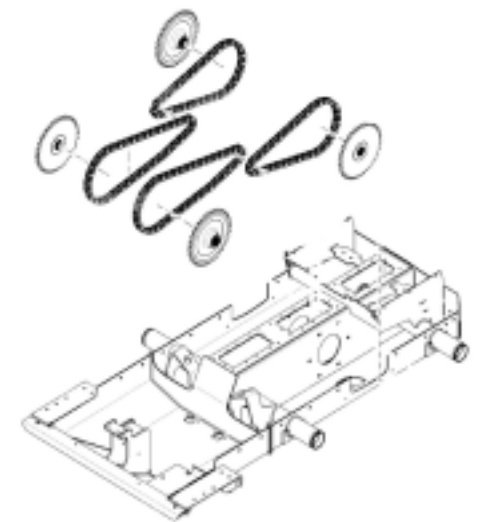
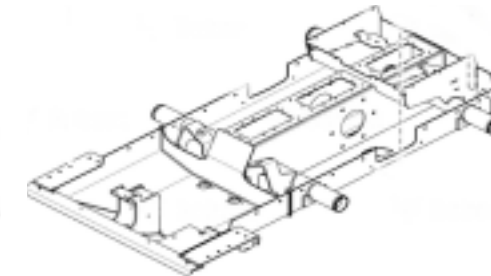
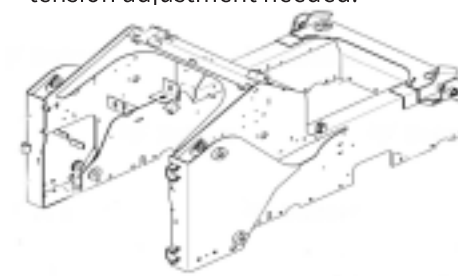
RS-Skid Steer Loader

Chassis

Keel hull frame: avoids scraping & getting stuck, low wear.

70/30 front-rear weight ratio: strong rear traction, less tire slip, lighter steering, longer tire life.

Lifetime maintenance-free chain box: self-lubricated oval chain, no lubrication or tension adjustment needed.

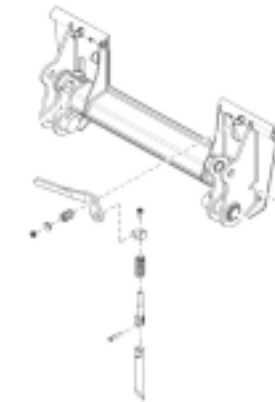


Working Equipment

Reinforced lift arm with heavy-duty pins, high load capacity & long service life.

Built-in hydraulic & electrical ports, easy to operate, and compatible with most attachments.

Vertical lift: higher lifting, longer reach, bigger load, stable & durable. Multi-link design relieves stress, no deformation or cracking under heavy loads.



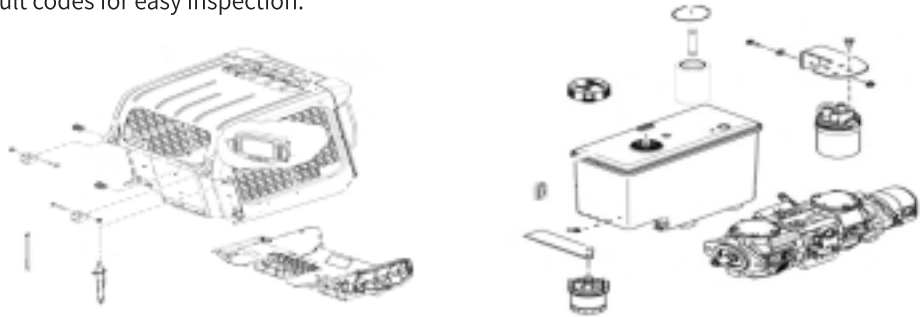
RS-Skid Steer Loader

Daily Maintenance

Real-time fault alerts: text & icons for overheat, low oil pressure, sensor/circuit errors; multi-language support.

Safety lock & door reminder: constant screen warning for open doors to standardize operation and reduce accidents.

Centralized datu display coolant/oil temp, voltage, fuel, hydraulic pressure, engine RPM, hour meter & fault codes for easy inspection.



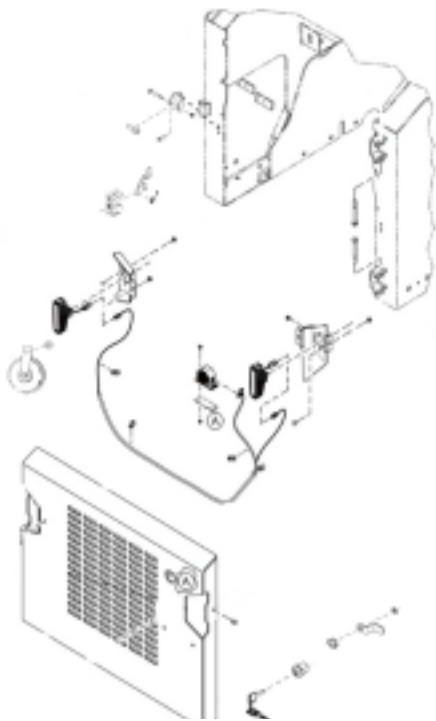
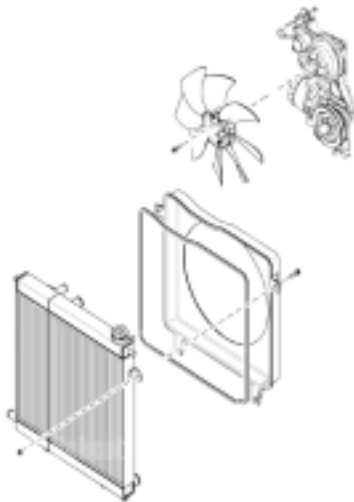
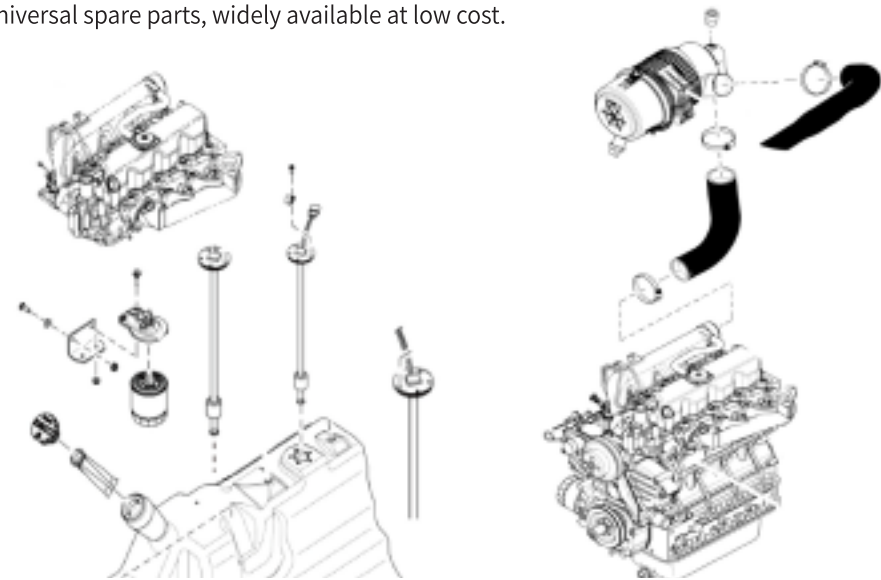
Servicing & Maintenance

Wide-tilt cabin and fully open engine hood for easy service.

All service parts are easily accessible for quick replacement.

High-reliability core parts reduce breakdowns and service frequency.

Universal spare parts, widely available at low cost.



RS850-SPECIFICATIONS

Machine Rating:

Rated Operating Capacity	869 kg
Tipping Load	1793 kg
Pump Capacity	76.8 l/min
System relief at quick couplers	23.8-24.5 Mpa
Travelling Speed (MAX)	11.3/19.3 km/h

Engine:

Make / Model	YANMAR/4TNV94
Fuel	Diesel
Cooling	Liquid
Maximum Power @2400 rpm	35.5 kW(48hp)
Torque @1600 rpm	158.6 Nm
Number of Cylinders	4
Displacement	3.05 L
Fuel Tank	68 L

Weights:

Operating Weight	2990 kg
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Controls:

Vehicle Steering	Direction and speed controlled by left-hand levers
Loader hydraulics tilt and lift	Controlled by right hand levers
Front Auxiliary (standard)	Electrical switch on right-hand steering lever

Drive System:

Transmission	Infinitely variable tandem hydrostatic piston pumps, driving two fully reversing hydrostatic motors
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Standard Features:

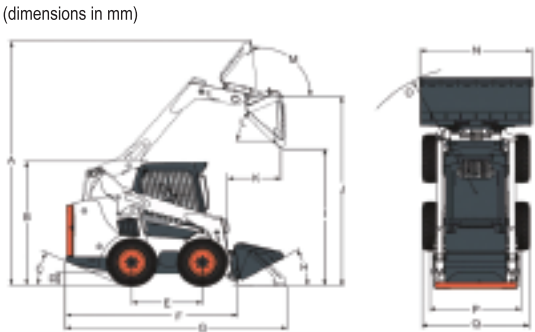
Automatically activated glow plugs	Instrumentation
Auxiliary hydraulics:	Lift arm support
Bab-Tach frame	Operating lights, front and rear
Suspension Seat	Parking brake
Spark arrestor muffler	Seat belt
Electrically activated proportional front auxiliary hydraulics	Seat bar
Engine / hydraulics system shutdown	
ROPS/FOPS Cabin	
Backup Alarm	

Roll Over Protective Structure (ROPS) meets requirements of SAE J1040 and ISO 3471; Falling Object Protective Structure (FOPS) meet requirements of SAE J1043 and ISO 3449, level 1

Options:

Cab enclosure
Cab enclosure with HVAC
Solid tyres

Dimensions:



A	3980mm	J	3120mm
B	2150mm	K	880mm
C	25°	L	42°
D	185mm	M	97°
E	1075mm	N	1735mm
F	2660mm	O	2088mm
G	3470mm	P	1190mm
H	30°	Q	1705mm
I	2250mm		

Attachments:

Angle Brooms	Planers
Augers	Root Grapples
Backhoes	Scarifiers
Bale Forks	Scrapers
Breakers	Seeders
Brush Saws	Skeleton Buckets
Concrete Mixers	Snow & Light Material Buckets
Construction / Industrial Buckets	Snow Blades
Diggers	Snowblowers
Dozer Blades	Snow Pushers
Dumping Hoppers	Snow V-Blades
Fertilizer Buckets	Sod Layers
General Purpose Buckets	Soil Conditioners
Grapples, Industrial	Water Kits
Landplanes	Spreaders
Landscape Rakes	Stabilizers
Low Profile Buckets	Sweepers
Whisker Brooms	Tillers
Mowers	Tilt-Tatch
Packer Wheels	Tracks
Pallet Fork Accessories	Trenchers
Pallet Forks, Hydraulic	Utility Forks
Pallet Forks, Standard	Utility Frames
	Vibratory Rollers



Specifications and design are subject to change without notice. Pictures of Ramtec products may show other than standard equipment.

RS1000-SPECIFCATIONS

Machine Rating:

Rated Operating Capacity	1000 kg
Tipping Load	1899 kg
Pump Capacity	84.5 l/min
System relief at quick couplers	23.8-24.5 Mpa
Travelling Speed (MAX)	11.3/19.3 km/h

Engine:

Make / Model	YANMAR/4TNV94
Fuel	Diesel
Cooling	Liquid
Maximum Power @2400 rpm	35.5 kW(48hp)
Torque @1600 rpm	158.6 Nm
Number of Cylinders	4
Displacement	3.05 L
Fuel Tank	68 L

Weights:

Operating Weight	3190 kg
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Controls:

Vehicle Steering	Direction and speed controlled byleft-hand levers
Loader hydraulics tilt and lift	Controlled byright hand levers
Front Auxiliary (standard)	Electrical switch on right-hand steering lever

Drive System:

Transmission	Infinitely variable tandem hydrostatic piston pumps, driving two fully reversing hydrostatic motors
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Standard Features:

Automatically activated glow plugs	Instrumentation
Auxiliary hydraulics:	Lift arm support
Bab-Tach frame	Operating lights, front and rear
Suspension Seat	Parking brake
Spark arrestor muffler	Seat belt
Electrically activated proportional front auxiliary hydraulics	Seat bar
Engine / hydraulics system shutdown	
ROPS/FOPS Cabin	
Backup Alarm	

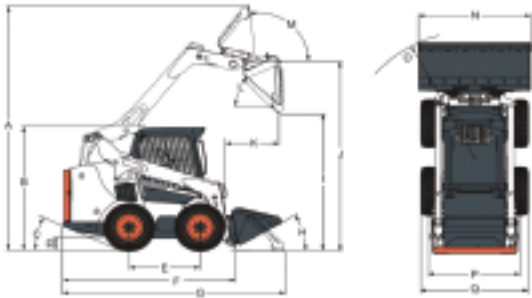
Roll Over Protective Structure (ROPS) meets requirements of SAE J1040 and ISO 3471; Falling Object Protective Structure (FOPS) meet requirements of SAE J1043 and ISO 3449, level 1

Options:

Cab enclosure
Cab enclosure with HVAC
Solid tyres

Dimensions:

(dimensions in mm)



A	4010mm	J	3150mm
B	2180mm	K	880mm
C	25°	L	42°
D	215mm	M	97°
E	1075mm	N	1735mm
F	2660mm	O	2088mm
G	3470mm	P	1190mm
H	30°	Q	1775mm
I	2280mm		

Attachments:

Angle Brooms	Planers
Augers	Root Grapples
Backhoes	Scarifiers
Bale Forks	Scrapers
Breakers	Seeders
Brush Saws	Skeleton Buckets
Concrete Mixers	Snow & Light Material Buckets
Construction / Industrial Buckets	Snow Blades
Diggers	Snowblowers
Dozer Blades	Snow Pushers
Dumping Hoppers	Snow V-Blades
Fertilizer Buckets	Sod Layers
General Purpose Buckets	Soil Conditioners
Grapples, Industrial	Water Kits
Landplanes	Spreaders
Landscape Rakes	Stabilizers
Low Profile Buckets	Sweepers
Whisker Brooms	Tillers
Mowers	Tilt-Tatch
Packer Wheels	Tracks
Pallet Fork Accessories	Trenchers
Pallet Forks, Hydraulic	Utility Forks
Pallet Forks, Standard	Utility Frames
	Vibratory Rollers



Ramtec®

RS1200-SPECIFCATIONS

Machine Rating:

Rated Operating Capacity	1200 kg
Tipping Load	2980 kg
Pump Capacity	110 l/min
System relief at quick couplers	23.8-24.5 Mpa
Travelling Speed (MAX)	11.5/22.5km/h

Engine:

Make / Model	YANMAR/4TNV98T
Fuel	Diesel
Cooling	Liquid
Maximum Power @2500 rpm	63.9 kW
Torque @1850 rpm	283.5 Nm
Number of Cylinders	4
Displacement	3.3 L
Fuel Tank	68 L

Weights:

Operating Weight	3880 kg
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Controls:

Vehicle Steering	Direction and speed controlled byleft-hand levers
Loader hydraulics tilt and lift	Controlled byright hand levers
Front Auxiliary (standard)	Electrical switch on right-hand steering lever

Drive System:

Transmission	Infinitely variable tandem hydrostatic piston pumps, driving two fully reversing hydrostatic motors
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Standard Features:

Automatically activated glow plugs	Instrumentation
Auxiliary hydraulics:	Lift arm support
Bab-Tach frame	Operating lights, front and rear
Suspension Seat	Parking brake
Spark arrestor muffler	Seat belt
Electrically activated proportional front auxiliary hydraulics	Seat bar
Engine / hydraulics system shutdown	
ROPS/FOPS Cabin	
Backup Alarm	

Roll Over Protective Structure (ROPS) meets requirements of SAE J1040 and ISO 3471; Falling Object Protective Structure (FOPS) meet requirements of SAE J1043 and ISO 3449, level 1

Options:

Cab enclosure
Cab enclosure with HVAC
Solid tyres



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