



Bobcat[®]

One Tough Animal.

REACH TRUCK

9-Series, Electric 1.3 to 2.5ton capacity, Standing type

BR13S-9 / BR15S-9 / BR18S-9 / BR20S-9 / BR25S-9



ONE TOUGH ANIMAL

► **OUR MISSION**

We empower operators to accomplish more, while working in the toughest conditions and tightest situations. When our customers have the will, we provide the way.

INTRODUCTION



► **BOBCAT'S HISTORY**

In 1958, Melroe Manufacturing Company introduced a compact front-end loader that evolved quickly into the M400, the world's first true skid steer loader. The company soon adopted what became the world-famous 'Bobcat' brand – and its success paved the way for the global compact equipment industry we know today.

► **YEARS OF EXPERIENCE**

In 2021, Bobcat expanded its portfolio by acquiring Bobcat Industrial Vehicle. This specialist in material handling equipment constructed its first forklift in 1968 and went on to establish a global presence with 400 dealers in 93 countries.



► **BOBCAT TODAY**

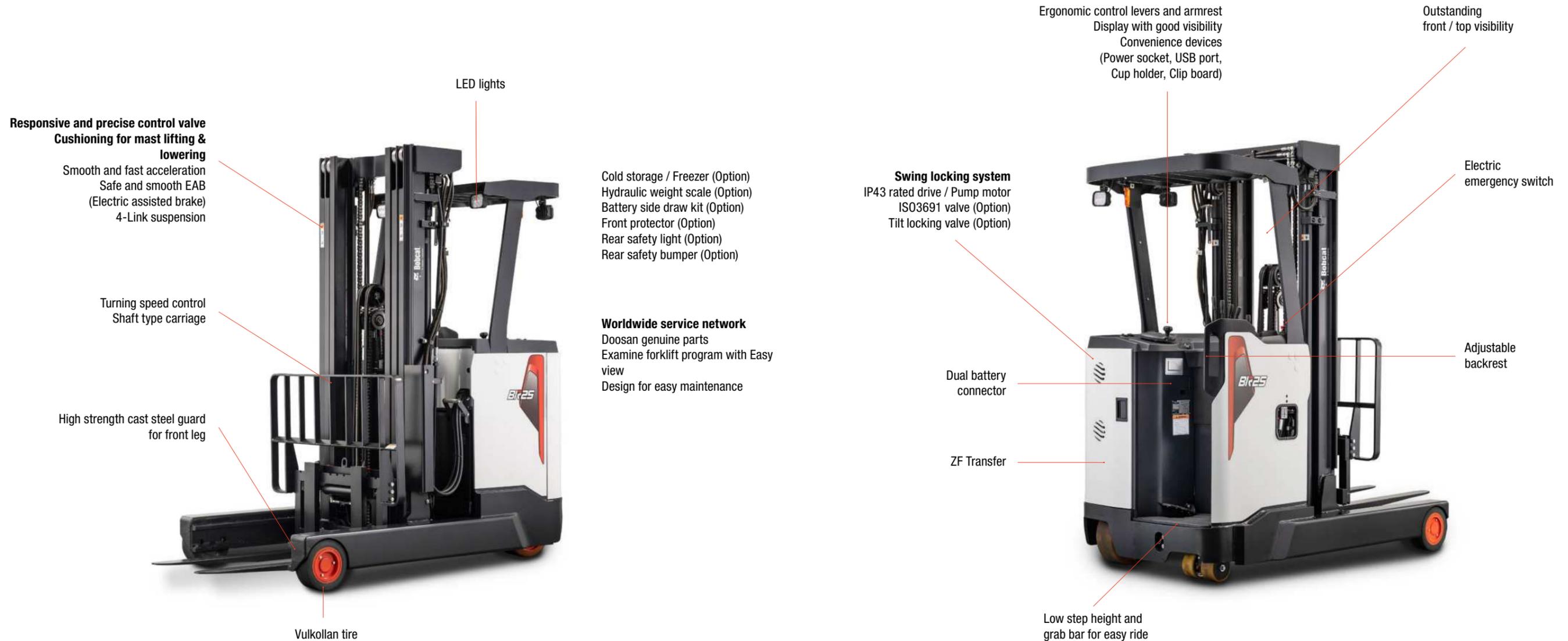
Bobcat is expanding its portfolio with the addition of forklifts and reach trucks for the material handling industry. Offering a comprehensive line-up that will meet all your intralogistics needs. Bobcat forklifts and reach trucks are produced in our factory in Korea and China, while our premium quality warehouse equipment is made in Germany.



EXPERIENCE THE FULLY ENHANCED VALUE OF DOOSAN 9 SERIES

▶ THE NEW DOOSAN 9 SERIES ELECTRIC REACH TRUCK WITH OPTIMIZED MAST OPERATING SENSITIVITY

Doosan combines the best control and driver convenience with differentiated features to achieve customer satisfaction providing the highest productivity and convenience in various applications.



Responsive and precise control valve
Cushioning for mast lifting & lowering
 Smooth and fast acceleration
 Safe and smooth EAB (Electric assisted brake)
 4-Link suspension

Turning speed control
 Shaft type carriage

High strength cast steel guard for front leg

Vulkollan tire

LED lights

Cold storage / Freezer (Option)
 Hydraulic weight scale (Option)
 Battery side draw kit (Option)
 Front protector (Option)
 Rear safety light (Option)
 Rear safety bumper (Option)

Worldwide service network
 Doosan genuine parts
 Examine forklift program with Easy view
 Design for easy maintenance

Swing locking system
 IP43 rated drive / Pump motor
 ISO3691 valve (Option)
 Tilt locking valve (Option)

Dual battery connector

ZF Transfer

Ergonomic control levers and armrest
 Display with good visibility
 Convenience devices (Power socket, USB port, Cup holder, Clip board)

Outstanding front / top visibility

Electric emergency switch

Adjustable backrest

Low step height and grab bar for easy ride



▶ OPTIMIZED TRUCK CONTROL

New 9 Series reach truck enables stable mast operating by optimizing the control valve and mast cushioning.

P 6-7



▶ EXCELLENT OPERATOR CONVENIENCE

Wide operating space and dashboard enable more comfortable and productive working environment.

P 8-11



▶ ALL-DAY COMFORT

The operator compartment is more spacious and ergonomically designed to reduce driver's fatigue. It enables more comfort and safe operation.

P 12-15



▶ BETTER SERVICEABILITY

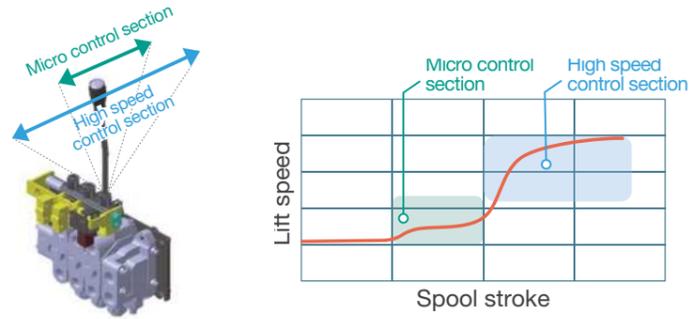
Doosan provides high-quality support, relying on its extensive dealer network.

P 16-17

OPTIMIZED TRUCK CONTROL

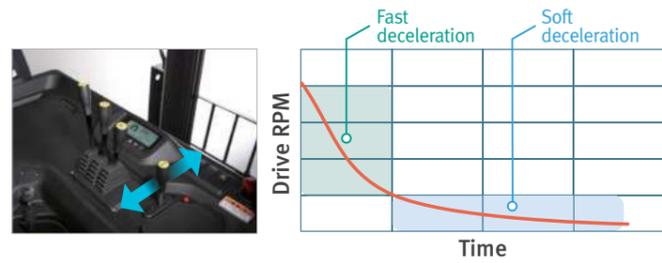
▶ OPTIMIZED TRUCK CONTROL FOR YOU AND YOUR OPERATION

New 9 Series reach truck enables stable mast operating by optimizing the control valve and mast cushioning. 4-Link suspension design has reduced shock and vibration significantly.



▶ OPTIMIZED LIFTING CONTROL

Lifting control is optimized by improving the control valve and system. It provides precise control in micro control section and fast lifting in high speed control section.



▶ SAFE AND SMOOTH EAB(ELECTRIC ASSISTED BRAKE)

Fast deceleration in early stage and soft deceleration in later stage. Braking is more safe and comfortable.

▶ CUSHIONING FOR MAST LIFTING/ LOWERING



Minimize lifting/lowering impact.
 - Reduce lifting speed at max. height.
 - Apply cylinder cushioning at min. height.

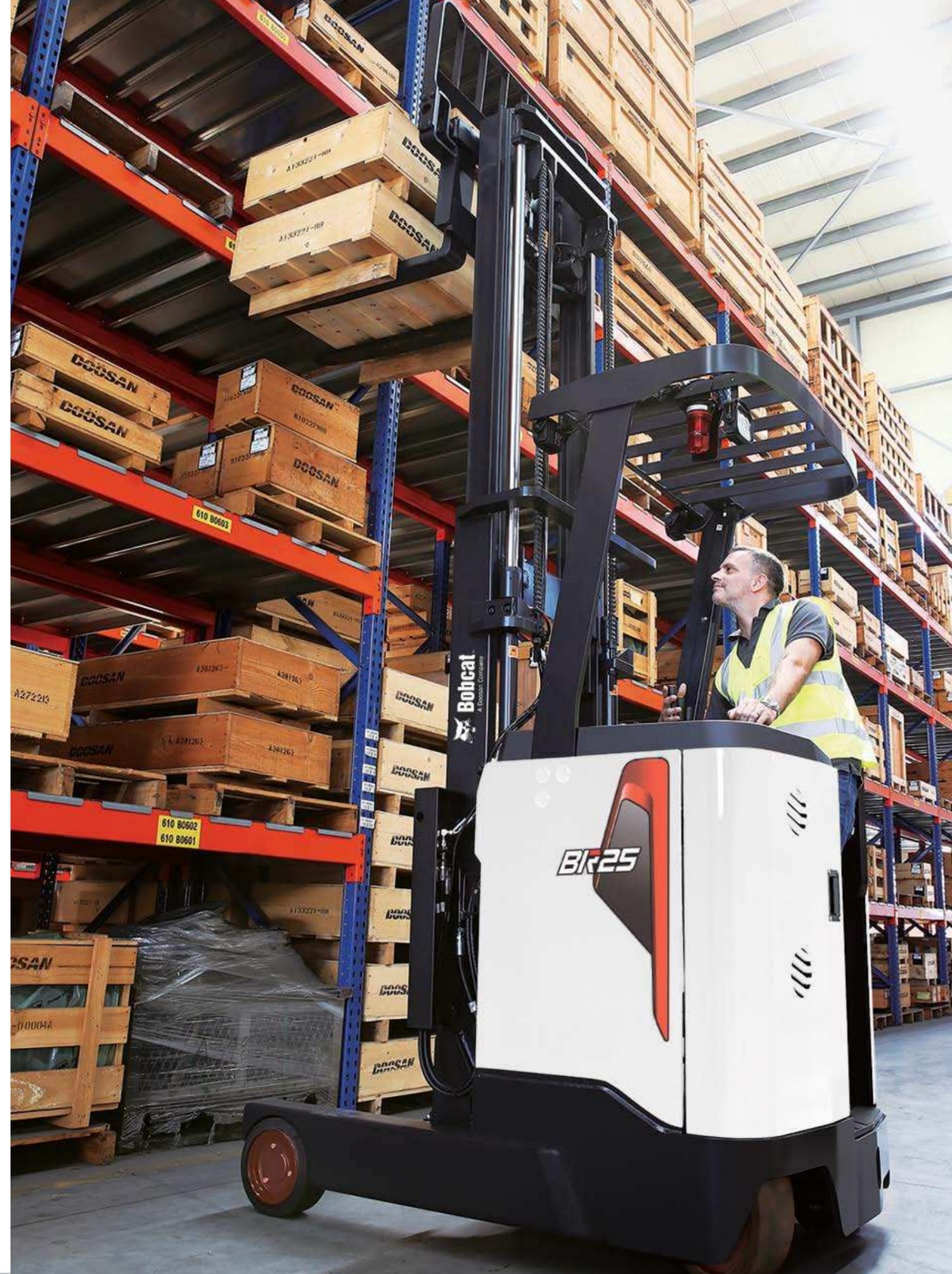
▶ SMOOTH AND FAST ACCELERATION



Responsive and smooth acceleration in early stage. Increase acceleration in mid & high speed for more productive operation.

▶ 4-LINK SUSPENSION

Suspension absorbs vibration & shocks and provides more comfortable driving regardless of the road surface condition.





OUTSTANDING VISIBILITY

FRONT VISIBILITY

Front visibility is maximized by arranging the hydraulic hose and chains neatly.



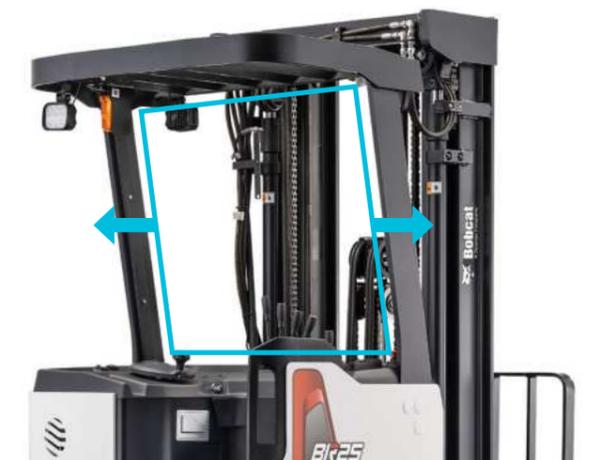
TOP VISIBILITY

Overhead guard bar thickness and arrangement are optimized to provide clear view.



SIDE VISIBILITY

Reduced overhead guard leg width and asymmetric structure enhance the side visibility.



EXCELLENT OPERATOR CONVENIENCE

► WIDE OPERATING SPACE AND DASHBOARD ENABLE MORE COMFORTABLE AND PRODUCTIVE WORKING ENVIRONMENT.

Display with good visibility
Display visibility has improved.
It shows good visibility even outdoors.



Various convenience devices
Cup holder, Power jack(12V), USB port(5V),
Clip board.

Entry grab bar
Handle on both sides enhance the stability when
getting on/off

Dual battery connector
Operator can connect the charger directly
without disconnecting the side
battery connector.



Low step height
Riding is easier by lowering the step height.



Ergonomic control levers and armrest
With the ergonomically designed control levers
and armrest, operator can control in a comfortable
posture without interference.



Electric emergency switch
Vehicle can be restricted quickly by the electric
emergency switch.

Versatile armrest
It can be used both armrest and grab bar.
- Elbow pad during mast control.
- Grab bar during driving.

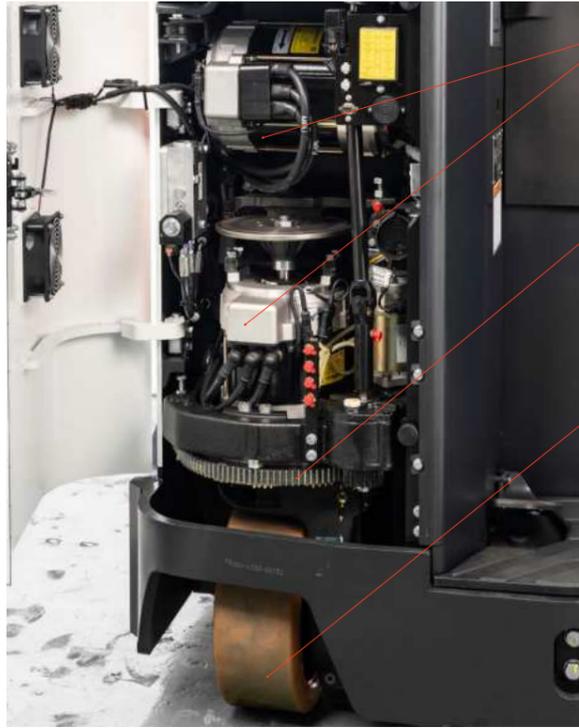
Adjustable backrest
Backrest height can be adjusted along with the
operator's preference.



Spacious operator compartment
Spacious operator compartment enables more
comfortable operation.

DIFFERENTIATED OPTIONS

▶ WITH THE DISTINCTIVE OPTIONS OF DOOSAN, DURABILITY AND RELIABILITY ARE GUARANTEED IN A VARIOUS APPLICATIONS.



▶ IP43 RATED ENCLOSED MOTOR

To ensure durability under various applications, IP43 rated drive / pump motors are installed as standard.

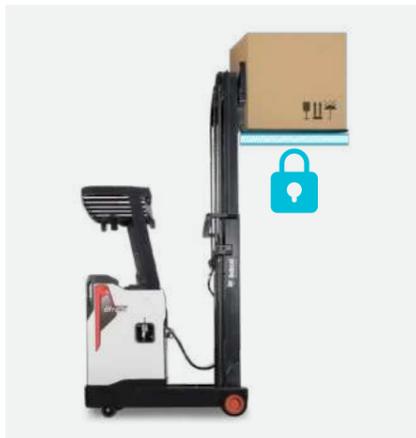
▶ ZF TRANSFER

Durability has been greatly enhanced by adopting ZF transfer of Germany. No need for additional oil change after first 50 hours oil change.

▶ VULKOLLAN TIRE

Extremely wear resistant Vulkollan tire ensures long lifetime even in harsh environments.

▶ ISO3691 CONTROL VALVE (OPTION) TILT LOCK VALVE (OPTION)



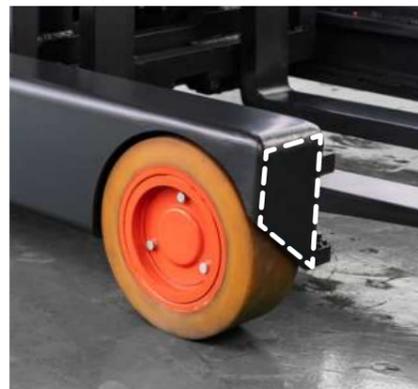
When power off, mast lowering is restricted to ensure safety.
When power off, tilt descent is prevented to ensure safety.

▶ SWING LOCKING SYSTEM



It automatically locks the suspension while starting, turning, and mast operating to increase stability. Thus it makes job more safe and comfortable during driving or cargo handling.

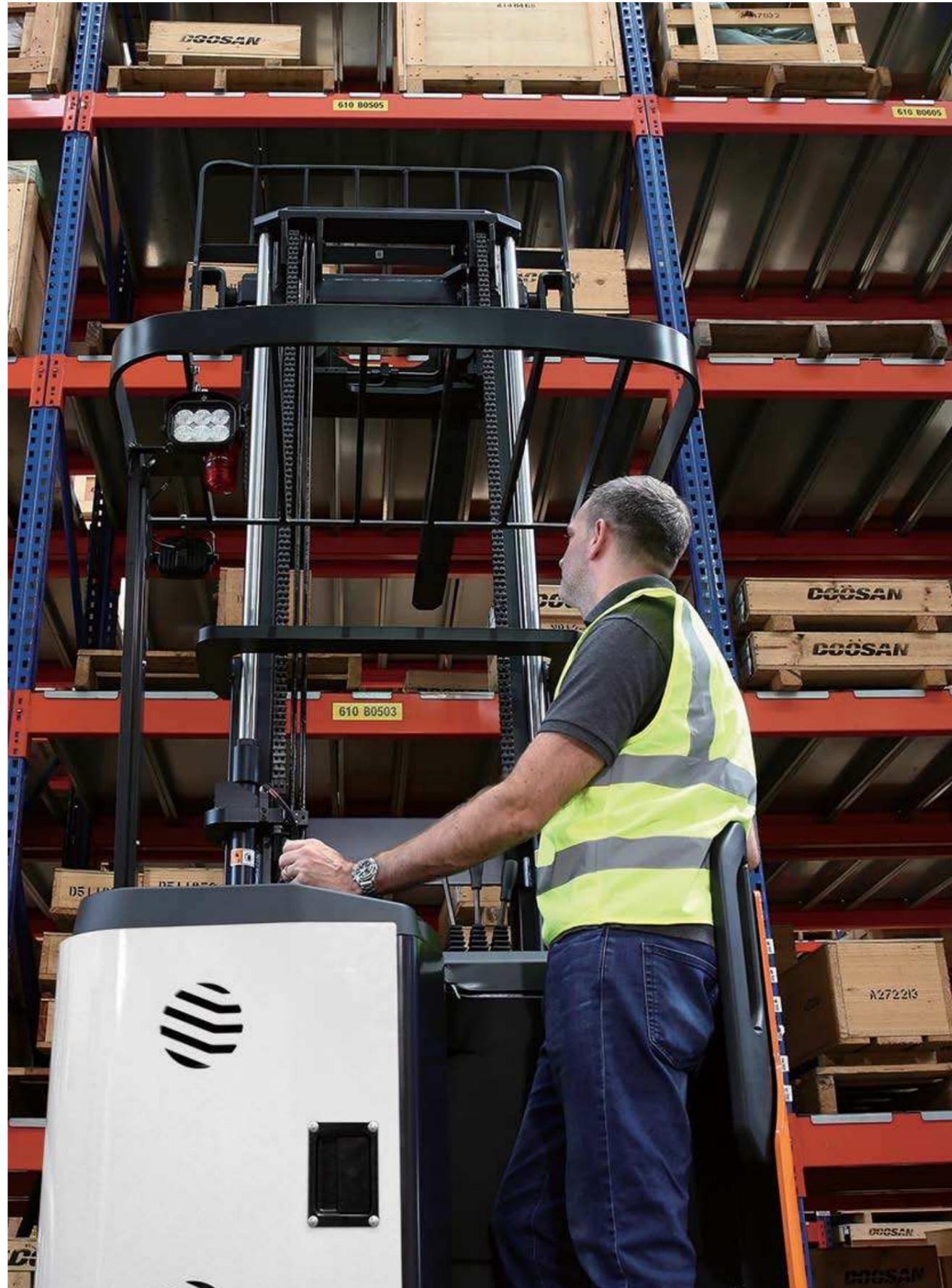
▶ HIGH STRENGTH CAST STEEL GUARD



The high strength cast steel structure is attached to the front of the leg. It protects the tire from impact.



ADDITIONAL FEATURES



▶ TURNING SPEED CONTROL

Automatically controls the turning speed to prevent it from rollover.



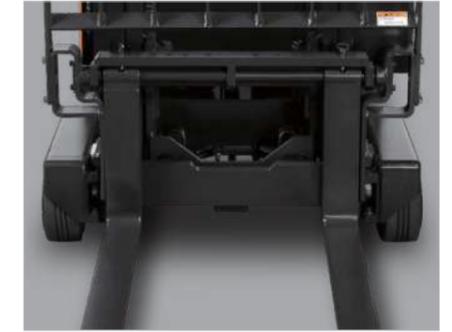
▶ LED LIGHTS

A brighter, longer-life led lamp provides better visibility.



▶ SHAFT TYPE CARRIAGE

Easier and more convenient carriage position adjustment by shaft structure.



▶ HYDRAULIC WEIGHT SCALE (OPTION)

Weighing simply by lifting cargo with hydraulic weight scale. The weight measured is marked on the display.



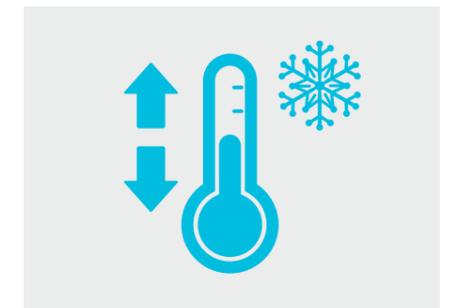
▶ REAR SAFETY LIGHTS (OPTION)

To prevent accidents, a warning is given to pedestrians and other trucks by reflecting the blue light backward.



▶ SHAFT TYPE CARRIAGE (OPTION)

Choose frozen option along with your working environment.
- Cold storage : ~-20°C
- Freezer : ~-40°C



▶ REAR SAFETY BUMPER (OPTION)

A rubber bumper on the rear protects the frame from impact.



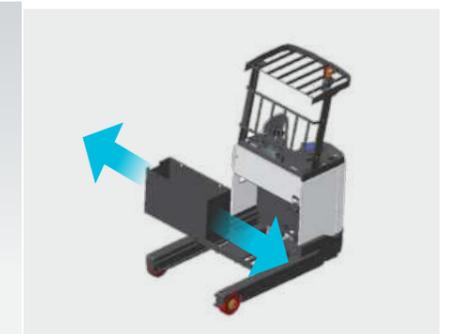
▶ FRONT PROTECTOR (OPTION)

By applying front protector, operator is protected from external threats such as falling objects.



▶ BATTERY SIDE DRAW KIT (OPTION)

By applying rollers to the battery bed, you can easily replace the battery on the side direction.



BETTER SERVICEABILITY

EXTENSIVE DEALER NETWORK

You will receive the best after-sales service from your authorized local or national factory-trained dealer, backed by Bobcat's own customer service center. And Bobcat provides 100% parts inventory to insure any downtime is minimized. When you own a Bobcat forklift, our high quality, responsive customer support team comes with it.



Lift hose

Lift hose can be separated in 3-piece. It helps easy replacement.

Hydraulic tank

Easy access to hydraulic inlet and drain port.



Overhead guard

It can be removed independently without removing other parts.

Front cover

By applying knob-bolt, it can be disassembled only by hand.



EASY ACCESS TO ELECTRIC PARTS

Major electric parts are concentrated for easy maintenance.
- Fuse box, Back-up alarm, CAN port



REMOVABLE MIDDLE PLATE

Middle plate can be separated independently, it makes maintenance easier.



EASY VIEW

To examine the forklift and set the program with notebook only (without a special tool)



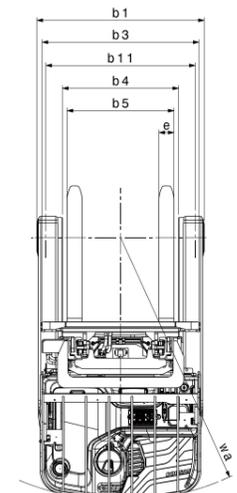
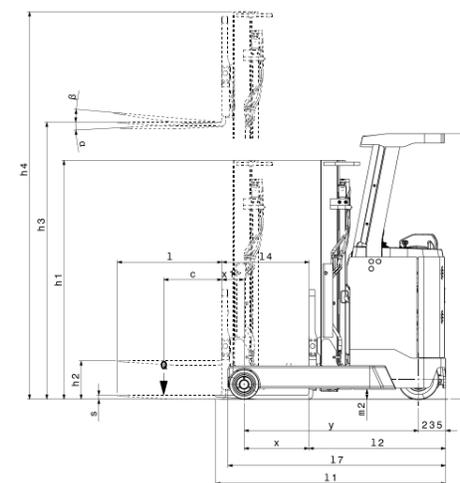
SPECIFICATIONS

GENERAL SPECIFICATION								
IDENTIFICATION	1.1	Manufacturer	Doosan	Doosan	Doosan	Doosan	Doosan	
	1.2	Model designation	BR13S-9	BR15S-9	BR18S-9	BR20S-9	BR25S-9	
	1.3	Drive	Electric	Electric	Electric	Electric	Electric	
	1.4	Operator type	stand-on	stand-on	stand-on	stand-on	stand-on	
	1.5	Load capacity	Q (kg)	1250	1500	1800	2000	2500
	1.6	Load centre	c (mm)	500	500	500	500	500
	1.8	Load distance - Mast pushed forward	x1 (mm)	179	179	179	192	192
	1.9	Wheelbase	y (mm)	1250	1350	1500	1530	1700
	2.1	Total Weight (/w battery)	kg	2265	2365	2385	2760	2780
WHEELS, CHASSIS	3.1	Tyres size, front	dia. x width(mm)	343 x 140	343 x 140	343 x 140	343 x 140	343 x 140
	3.2	Tyres size, rear, load	dia. x width(mm)	255 x 120	255 x 120	255 x 120	267 x 114	267 x 114
	3.3	Tyres size, rear, caster	dia. x width(mm)	165 x 60	165 x 60	165 x 60	165 x 60	165 x 60
	3.5	Wheels, number front/rear (x=driven)		2/3(1)	2/3(1)	2/3(1)	2/3(1)	2/3(1)
	3.6	Tread, front	b10 (mm)	990	990	990	1112	1112
	3.7	Tread, rear	b11 (mm)	680	680	680	680	680
	4.1	Tilt of fork carriage forward/backward	α/β (°)	3/5	3/5	3/5	3/5	3/5
BASIC DIMENSIONS	4.2	Closed mast height Height, mast lowered	h1 (mm)	2055	2055	2055	2045	2045
	4.3	Free lift	h2 (mm)	320	320	320	335	335
	4.4	Max. fork height with STD mast	h3 (mm)	3300	3300	3300	3000	3000
	4.5	Height of mast, extended	h4 (mm)	4250	4250	4250	4055	4055
	4.7	Height of overhead guard	h6 (mm)	2285	2285	2285	2285	2285
	4.19	Overall length	l1 (mm)	2077	2077	2077	2285	2285
	4.20	Length to face of forks	l2 (mm)	1164	1164	1164	1315	1315
	4.21	Overall width	b1 (mm)	1110	1110	1110	1230	1230
	4.22	Fork dimensions (Shaft type)	s/e/l (mm)	35/100/900	35/100/900	35/100/900	45/100/1000	45/100/1000
	4.23	Fork carriage ISO 2328, class/type A,B		2A	2A	2A	2A	2A
	4.24	Fork carriage width	b3 (mm)	1016	1016	1016	1176	1176
	4.25	Width across forks	b5 (mm)	721/233	721/233	721/233	841/233	841/233
	4.26	Distance between wheel arms/loading surfaces	b4 (mm)	770	770	770	896	896
	4.28	Reach distance	l4 (mm)	505	600	750	655	825
	4.31	Ground clearance, loaded, below mast	m1 (mm)	85	85	85	85	85
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	86.5	86.5	86.5	86.5	86.5
	4.33	Aisle width for pallets 1000x1200 long	Ast (mm)	2686	2718	2754	2829	2901
	Aisle width for pallets 800x1200 wide	Ast (mm)	2449	2503	2590	2642	2768	
4.35	Turning radius	Wa (mm)	1495	1595	1745	1775	1945	
4.37	Length across wheel arms	l7 (mm)	1625	1725	1875	1911	2081	
PERFORMANCE DATA	5.1	Travel speed, loaded/unloaded	km/h	10.5/10.5	10.5/10.5	10.5/10.5	11.5/11.5	11.5/11.5
	5.2	Lift speed, loaded/unloaded	m/s	0.31/0.54	0.31/0.54	0.31/0.54	0.28/0.5	0.28/0.5
	5.3	Lowering speed, loaded/unloaded	m/s	0.5/0.45	0.5/0.45	0.5/0.45	0.5/0.45	0.5/0.45
	5.8	Max. gradeability, loaded/unloaded	%	15/-	15/-	15/-	11/-	11/-
	5.10	Service brake		MECH.DIS	MECH.DIS	MECH.DIS	MECH.DIS	MECH.DIS
E-MOTOR	6.1	Drive motor rating S2 60 min.	kW	4	4	4	5	5
	6.2	Lift motor rating S3 15%	kW	8	8	8	14	14
	6.4	Battery voltage/capacity at 5 hours rate	V/Ah	48/230	48/280	48/280	48/335	48/335
	6.5	Battery weight	kg	427	427	427	530	530
		Battery compartment	l/w/h (mm)	956/375/568	956/375/568	956/375/568	956/375/568	956/375/568
	6.6	Energy consumption according to VDI cycle	kWh/h at number of cycle	4.02	4.02	4.02	4.44	4.44
OTHERS	10.2	Operating pressure (Main valve / attachments)	bar	200/140	200/140	200/140	200/140	200/140
	10.2	Oil volume for attachments	l/min	Default 7.6 (Max. 46)	Default 7.6 (Max. 46)	Default 7.6 (Max. 46)	Default 10.2 (Max. 61)	Default 10.2 (Max. 61)
	10.7	Sound level at operator's ear according to EN12053	dB(A)	66	66	66	67	67

*Please refer to the technical bulletin and contact your Bobcat representative for more detail information of battery size. This specification sheet to VDI guideline 2198 only gives the technical figures for the standard truck. Different tires, other masts, additional equipment etc. could give different figures.

MAST SPECIFICATION AND RATED CAPACITIES

BR13S-9, BR15S-9, BR18S-9												
Mast Type	Maximum Fork Height	Maximum Lowered Height	Fully Extended Height	Free Lift	Tilt Angle		BR13S-9		BR15S-9		BR18S-9	
							Load Capacity		Load Capacity		Load Capacity	
			With Load Backrest	With Load Backrest	Forward	Backward	LC 500mm	LC 600mm	LC 500mm	LC 600mm	LC 500mm	LC 600mm
mm	mm	mm	mm	deg	deg	kg	kg	kg	kg	kg	kg	
STD	3000	2055	3950	320	3	5	1300	1135	1500	1310	1800	1570
	3300	2205	4250	320	3	5	1300	1135	1500	1310	1800	1570
	3500	2305	4450	320	3	5	1250	1090	1450	1265	1750	1525
	3700	2405	4650	320	3	5	1200	1050	1400	1220	1650	1440
	4000	2605	4950	320	3	5	1150	1005	1350	1180	1500	1310
	4500	2855	5450	320	3	5	900	785	1150	1005	1250	1090
	5000	3130	5950	320	3	5	800	700	1000	875	1100	960
FFT	6000	3655	6950	320	3	5	700	610	900	785	900	785
	4500	2030	5450	1125	3	5	900	785	1150	1005	1250	1095
	5000	2230	5950	1325	3	5	850	745	1000	875	1050	920
	5500	2465	6455	1560	3	5	775	680	900	785	1000	875
	6000	2630	6950	1725	3	5	750	655	850	745	900	785
	6500	2795	7450	1890	3	5	675	590	750	655	800	700
	7000	3065	8050	2160	3	5	650	570	700	615	780	685
	7500	3230	8450	2325	3	5	600	525	650	570	750	655
8000	3500	9050	2590	3	5	500	440	500	440	500	440	
BR20S-9, BR25S-9												
Mast Type	Maximum Fork Height	Maximum Lowered Height	Fully Extended Height	Free Lift	Tilt Angle		BR20S-9		BR25S-9			
							Load Capacity		Load Capacity			
			With Load Backrest	With Load Backrest	Forward	Backward	LC 500mm	LC 600mm	LC 500mm	LC 600mm		
mm	mm	mm	mm	deg	deg	kg	kg	kg	kg			
STD	2950	2020	4005	335	3	5	2000	1750	2500	2185		
	3230	2160	4285	335	3	5	2000	1750	2500	2185		
	3500	2410	4560	335	3	5	2000	1750	2500	2185		
	3800	2560	4860	335	3	5	2000	1750	2500	2185		
	3950	2635	5010	335	3	5	2000	1750	2500	2185		
	4350	2835	5410	335	3	5	2000	1750	2400	2100		
	4960	3135	6010	335	3	5	1850	1620	2200	1925		
FFT	3900	1870	4960	860	3	5	2000	1750	2500	2185		
	4290	2005	5365	995	3	5	2000	1750	2400	2100		
	4730	2145	5785	1135	3	5	1900	1660	2300	2010		
	5260	2395	6310	1385	3	5	1850	1620	2100	1835		
	5560	2495	6610	1485	3	5	1730	1515	2050	1795		
	6010	2645	7060	1635	3	5	1600	1400	1950	1705		
6500	2885	7555	1875	3	5	1300	1140	1500	1315			



YOUR TRUSTED BUSINESS PARTNER

Your machine builds your business and reputation. Everything we put into Bobcat equipment is designed to make this possible. Strength, versatility, or agility, it's built around you.



145 MACHINES / 46 PRODUCT FAMILIES / 1 TOUGH ANIMAL



SKID-STEER LOADERS



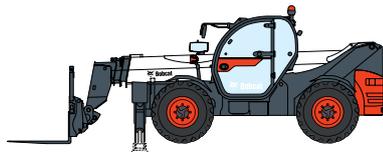
COMPACT TRACK LOADERS



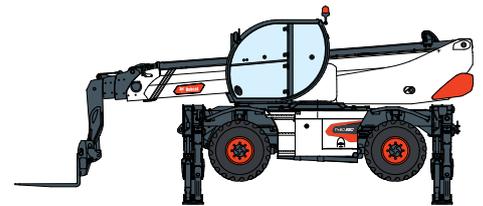
COMPACT WHEEL LOADERS



FORKLIFTS



TELEHANDLERS



ROTARY TELEHANDLERS



LIGHT COMPACTION EQUIPMENT



COMPACT EXCAVATORS



COMPACT TRACTORS



SMALL ARTICULATED LOADERS



MINI TRACK LOADER



MOWERS



ATTACHMENTS

DOOSAN

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