

B13R-7 / B15R-7 / B16R-7
B15T-7 / B18T-7 / B18TL-7 / B20T-7 / B20TL-7
B16X-7 / B18X-7 / B20X-7
B25X-7/B25XL-7 / B30X-7 / B35X-7
B40X-7 / B45X-7 / B50X-7 / B50XC-7



7-SERIES FORKLIFTS

Electric 1.25 to 5.0 tonne capacity

3 & 4 Wheel



Leading the way

The new world class 7-Series trucks from Doosan continue to follow the core Doosan tradition of delivering simple, powerful performance, whilst most of all, delivering the best possible value for our customers.

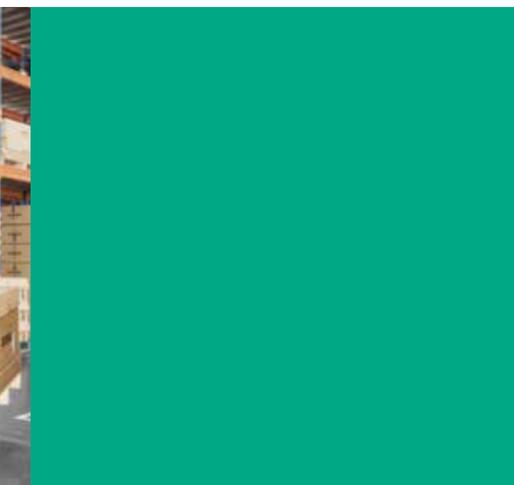
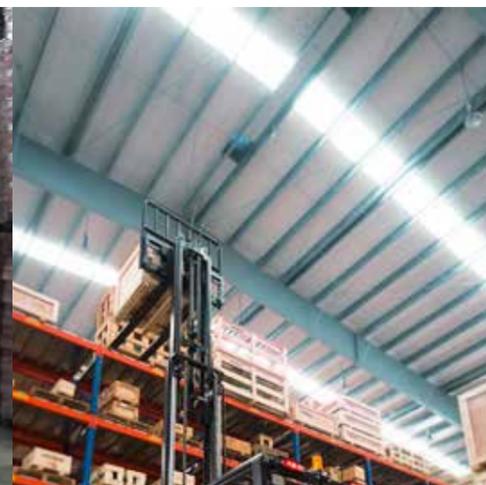
The specially designed ergonomic operator compartment keeps the operator in complete control at all times, improving productivity and reducing stress and fatigue.

The 7-Series offers improved visibility and the latest design in ergonomic hydraulic controls. Thanks to an improved durable design and an additional stability system, Doosan's new 7-Series electric trucks exceed the highest demands for a safe operation.

Extended maintenance intervals and advanced technology components reduce the overall maintenance cost of maintenance. The newest in AC control systems provide an unbeatable combination of power, performance and reliability. Each parameter is fully adjustable to match every individual requirement perfectly, providing maximum control and accuracy for every function.

“ Higher lifting and travel speed enables me to reach optimal efficiency in my job ”

- PRODUCTIVITY**
- Efficient performance
 - Tight turning radius
 - Optimized steering angle
 - Excellent visibility



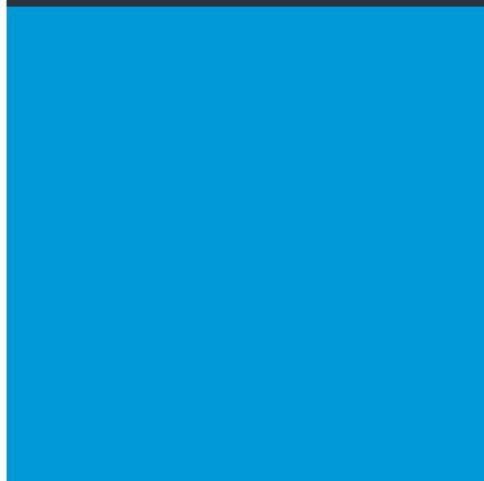
“ The robustness of the Doosan truck ensures that even the toughest of jobs gets done ”

- SAFETY**
- Auto parking brake
 - Unlimited ramp hold
 - Guardian Stability System (GSS)



“ The Doosan service support network has never let me down ”

- SERVICEABILITY**
- Doosan service network coverage
 - Quick service response
 - Easy to fix design



7-Series Electric Forklifts

The Doosan 3- and 4-wheel electric counterbalance forklifts provide great power, excellent performance, enhanced safety, driving comfort, outstanding serviceability and reliability.

MAXIMUM PRODUCTIVITY

- Small turning circle
- High visibility design
- Battery changing system

SAFETY

- Large panoramic mirror
- LED lights
- Safety light
- Rear grab handle with horn
- Emergency switch
- Guardian Stability System (GSS):
 - Turtle mode
 - Brake oil level indicator
 - Unlimited ramp hold
 - Low battery alarm
 - Mast Lowering Inter-Lock & Tilt Lock (ISO3691)
 - Operator sensing system (OSS)
 - Automatic speed control



OPTIMAL ERGONOMICS

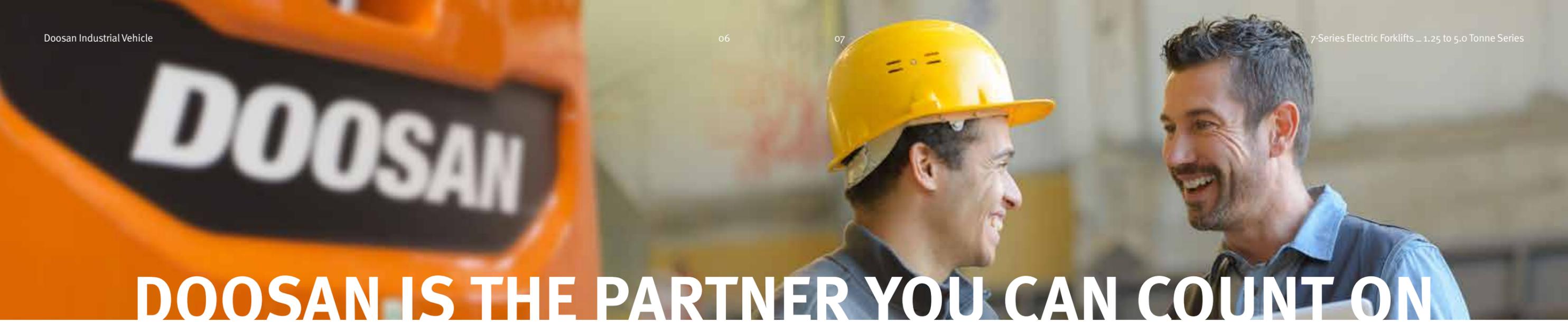
- Finger tip controls
- Adjustable steering column
- Adjustable seat

GREAT SERVICEABILITY

- Worldwide service network
- Doosan genuine parts
- Easy to access controller room
- Easy View

EXCELLENT RELIABILITY

- Reliable operation
- ODB - Oil cooled disc brakes
- IP 43 motor



DOOSAN IS THE PARTNER YOU CAN COUNT ON



Maximum Productivity



“ Boost your productivity with Doosan ”

Optimized Steering Angle
The optimized steering angle reduces the turning radius significantly, which allows to design the most efficient warehouse lay-out.

Small turning radius
Allows for use in smaller spaces, maximising available storage capacity.



Excellent visibility

The precisely designed overhead guard profile with angled roof bars provides a clear upward view whilst ensuring ultimate strength for safety. The excellent visibility enables you to work faster and more efficient.



Battery changing system

The battery changing system makes it easier and faster to exchange the battery. This allows multi-shift operation.

Maximize your productivity

The B20TL-7 and B25XL-7 have a longer chassis, which gives the opportunity to place a larger battery in the truck. These batteries have a bigger capacity, up to 775 Ah , which extends the autonomy significantly.



Safety features



“Doosan takes safety to the next level”



Turtle mode

By pushing the turtle mode button when the truck operates in a warehouse, the truck travel speed will slow down to a predefined travel speed setting, without impacting the lifting speed. This mode ensures safely manoeuvring in delicate operating situations.



Brake oil level indicator

When the level in the brake oil reservoir is lower than minimum level, the low brake oil level indicator in the instrument panel will flash to instruct the operator to add brake oil.



Unlimited ramp hold (Auto parking brake)

The electro-magnetic auto parking brake (EPB) prevents the forklift from rolling back if the truck is stopped on a slope. Operators can dismount the truck easily without braking.



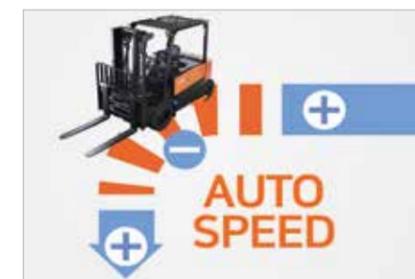
Low battery alarm

Lifting will be disabled when the battery level lowers to 20% during operation. This protects the battery from damage and prevents sudden loss of power due to a dead battery.



Mast Lowering Interlock & Tilt Lock (ISO3691)

When the operator leaves the truck unattended, the hydraulic locking system prevents unintentional lowering and tilting of the mast. It safeguards the truck, the load and the working environment.



Automatic Speed Control

Detects the speed of the truck when cornering and reduces speed if necessary to ensure that truck stability is maintained when cornering.



Operator Sensing System (OSS)

Whenever the operator leaves the seat, the truck travel and mast lifting functions will stop. This systems avoids any unintended forklift movements when the operator is not seated.



GSS (Guardian Stability System)



1. Decrease of travel speed (up to 50%) when the mast is raised above the primary stage
2. Forward tilt is reduced by 2 degrees when the mast is raised above the primary stage
3. Alarm sounds when the mast is raised above the primary stage with the mast tilted more than 2 degrees

Safety & Optimal ergonomics



Safety



LED lights

Brighter and longer lasting than traditional sealed beams or halogen lights.



Safety light (optional)

The safety light warns oncoming forklifts or pedestrians by projecting a blue light on the floor, this helps preventing accidents in the workplace.



Rear grab bar with horn (optional)

Enhances safety, comfort and convenience when traveling in reverse.



Emergency switch (optional)

The operator can push the emergency switch with one hand on the steering wheel quickly.



Large panoramic mirror (optional)

Provides the operator with a clear view of the rear working area, improving safety & efficiency.

“ Infinite adjustability, optimized controllability and exceptional reliability makes the new Doosan 7-Series, the operator’s first choice.”

Ergonomics



Finger tip controls (optional)

Fast, precise and infinitely controllable fingertip control makes the 7-series effortless and efficient.



Premium Grammer Seat

The comfortable suspension seat is fully adjustable to accommodate every individual preference.



Adjustable steering column

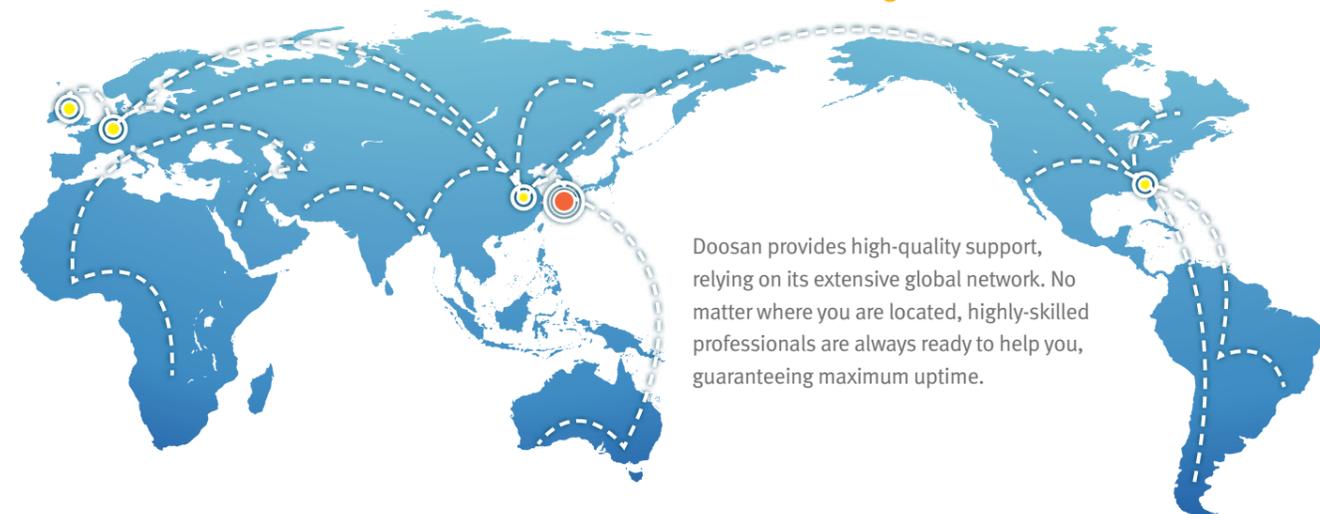
The operator can change the stepless adjustable column to the best position that provides convenience and comfort.

Great serviceability & Excellent reliability



Worldwide service network

- Headquarters
- Overseas offices and service centers



Doosan provides high-quality support, relying on its extensive global network. No matter where you are located, highly-skilled professionals are always ready to help you, guaranteeing maximum uptime.



Easily accessible controller room

No need to open the hood to access the controller to change settings or connecting the diagnostics tool.



Easy View

You only need a laptop to adjust the forklift parameters. There is no need for any special tools.



Doosan Genuine Parts

The parts warehouse, supplies high quality Doosan parts to your local dealer.



IP43 dust and water protection Drive and Pump

The new sealed controllers are rated to IP65 and the enclosed motors are rated to IP43.



Reliable Operation

Curtis AC controllers provide an unbeatable combination of power, performance and functionality. They are very reliable and well proven.

Oil cooled Disk Brake

There are 3 to 5 double sided discs per wheel. Discs are submerged in oil, keeping them cool and limiting wear. The Doosan ODB system is completely enclosed and sealed from outside contaminants protecting the inner workings of the brake system from dirt, water, shrink wrap and broken pallets. Oil cooled disc brakes have a 5 times longer service interval than conventional shoe brakes, and are virtually maintenance free.



LIFTING YOUR DREAMS



Main Specifications

MAJOR SPECIFICATION		B13R-7	B15R-7	B16R-7
Load capacity/rated load	kg	1250	1500	1600
Load centre distance	mm	500	500	500
Load distance, centre of drive axle to fork	mm	330	330	330
Wheelbase (forward x vertical x back)	mm	1121 x 1145 x 1195	1171 x 1195 x 1245	1171 x 1195 x 1245
Aisle width for pallets 1000 x 1200 crossways	mm	3064	3089	3114
Aisle width for pallets 800 x 1200 lengthways	mm	3186	3211	3236
Turning radius	mm	1415	1440	1465
Travel speed, loaded / unloaded	km/h	12.0 / 13.0	12.0 / 12.5	12.0 / 12.5
Lift speed, loaded / unloaded	mm/sec	300 / 530	290 / 530	290 / 530
Lowering speed, loaded / unloaded	mm/sec	500 / 450	500 / 450	500 / 450
Maximum drawbar pull, loaded / unloaded, 5 minute rating	N	9623 / 9623	9623 / 9623	9623 / 9623
Maximum gradeability, loaded / unloaded, 5 minute rating	%	24 / 25	22 / 25	20 / 25
Battery voltage/nominal capacity K5	V/Ah	24 / 875	24 / 1000	24 / 1000

Standard Features and Optional Extras

SAFETY & STABILITY

Anti roll back	Standard features
Automatic speed control	Standard features
ISO 3691 Mast lowering inter-lock & tilt lock	Standard features
Low battery warning alarm	Standard features
OSS(Operator sensing system)	Standard features
Emergency stop switch	Optional extras
LED Lights	Optional extras
Rear grab handle with horn switch	Optional extras

OPERATOR COMFORT(ERGONOMICS)

Adjustable tilt steering column & easy grip (Ø280 size) steering wheel	Standard features
Comfort and adjustable seat	Standard features
Easy to read instrument panel	Standard features
Entry grip bar	Standard features
Large cup holder, usb port & 12v electric jack, clip board	Optional extras
Premium seats : Grammer seat	Optional extras
Panoramic mirror	Optional extras

PRODUCTIVITY

High visibility mast	Standard features
Hydraulic cushioned valve in secondary cylinder (FFL & FFT)	Standard features
Smooth and responsive acceleration and plugging	Standard features
Application packages : Cold	Optional extras
Battery changing system (SRIO)	Optional extras
Direction switch on hydraulic control valve	Optional extras
Mono-pedal	Optional extras

DURABILITY & SERVICEABILITY

Full AC system	Standard features
IP65 Rated Curtis controller	Standard features
Oil-cooled disc brakes (ODB)	Standard features
Robust frame structure and strong structure overhead guard	Standard features
Rugged, durable and maintenance free rear drive axle	Standard features
Tool-less side cover with air ventilation	Optional extras
Wide open battery hood cover	Optional extras

Standard features

Optional extras

* Remark : This list is based on factory data. Standard or optional can vary for specific countries.

Main Specifications

MAJOR SPECIFICATION		B15T-7	B18T-7	B18TL	B20T-7	B20TL-7
Classification		3 Wheel Electric				
Capacity	kg	1500	1750	1750	2000	2000
Load center	mm	500				
Wheel base	mm	1323	1423	1554	1446	1554
Turning radius	mm	1515	1615	1756	1648	1756
Load Distance: Center of Drive axle to fork	mm	376	376	376	381	381
Travel speed loaded/unloaded	km/h	17/17	17/17	17/17	17/17	17/17
Lift speed loaded/unloaded	m/s	0,4/0,6	0,4/0,6	0,4/0,6	0,4/0,6	0,4/0,6
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
Max. Gradeability(at 1.6km/h, Loaded)	%	26	25	25	24	24
Max. Drawbar pull(Loaded)	N	12748	12748	12748	12748	12748
Right angle stacking aisle width : 1000 x 1200	mm	3216	3316	3457	3354	3462
Right angle stacking aisle width : 800 x 1200	mm	3341	3441	3582	3479	3587
S/A Steering angle	deg.	90	90	90	90	90

	B16X-7	B18X-7	B20X-7	B22X-7	B25X-7	B25XL-7	B30X-7	B35X-7
	4 Wheel Electric							
	1600	1800	2000	2200	2500	2500	3000	3500
	500							
	1495	1495	1495	1589	1589	1734	1734	1750
	1886	1886	1886	1950	1950	2095	2095	2155
	376	376	381	448	448	448	454	454
	17/17	17/17	17/17	16/18	16/18	16/18	16/18	16/18
	0,4/0,6	0,4/0,6	0,4/0,6	0,5/0,6	0,48/0,6	0,48/0,6	0,42/0,6	0,38/0,6
	0,5/0,45	0,5/0,45	0,5/0,45	0,49/0,46	0,49/0,46	0,49/0,46	0,49/0,46	0,5/0,46
	26	25	24	27	25	25	22	20
	12748	12748	12748	17338	17338	17338	17338	17338
	3466	3466	3471	3620	3620	3766	3772	3810
	3655	3655	3670	3799	3799	3944	3950	4010
	86	86	86	93	93	93	93	93

Standard Features and Options

SAFETY & STABILITY, GUARDIAN STABILITY SYSTEM (GSS)

Guardian Stability System (GSS)	Standard features
<ul style="list-style-type: none"> OSS (Operator Sensing System) Neutral position for start Unlimited Ramp hold Automatic Speed Control Low Battery Warning Alarm Brake Oil & Seat Belt Indicator Mast Lowering Inter-Lock & Tilt Lock (ISO 3691) 	Standard features
Easy Entry Grab Bar	Options
Emergency stop switch	Options
Auto Tilt Leveling	Options
Rear Grab Bar with Horn	Options
LED Lights	Options
Panoramic Mirror	Options
Additional options for GSS:	Options
<ul style="list-style-type: none"> Decrease of travel speed (up to 50%) when the mast is raised above the primary stage Forward tilt is reduced by 2 degrees when the mast is raised above the primary stage Alarm sounds when the mast is raised above the primary stage with the mast tilted more than 2 degrees 	Options

OPERATOR COMFORT (ERGONOMICS)

Large entry step with anti-slip pattern	Standard features
Large & angled floor plate (leg room) with rubber cushion	Standard features
Rounded design battery hood cover	Standard features
Easy to read instrument panel	Standard features
Adjustable tilt steering column & easy grip (Ø 280 size) steering wheel	Standard features
Hydraulic control lever with direction switch	Standard features
Large cup holder, usb port & 12v electric jack, clip board	Options
New Fingertip control	Options
Steering Wheel with Knob	Options
Premium seats : Grammer msg65 series	Options
Special height overhead guards	Options
Mono pedal	Options
Modular cabins	Options

Standard features

Options

PRODUCTIVITY

Full ac system chassis	Options
Rounded design counterweight	Options
86° (BX) / 90° (BT) Steering angle	Options
Electro-magnetic automatic parking brake (EPB)	Options
Hydraulic cushioned valve in freelif cylinder (FFL & FFT)	Options
Battery lift/roll in and out system	Options
Cooling options : Fans & Fin type controller	Options

RELIABILITY

Robust frame structure & strong structure overhead guard	Standard features
Oil-cooled disc brakes (ODB)	Standard features
IP65 Rated Curtis controller	Standard features
IP43 Rated PAL enclosed type motors	Standard features
Easy to access controller & motors room	Options
Wide open battery hood cover	Options
Durable heat-resisting (38"SQ) cables	Options
Tool-less side cover with air ventilation	Options

SERVICEABILITY

* Remark : This list is based on factory data. Standard or optional can vary for specific countries.

Main Specifications

MAJOR SPECIFICATION

		B40X-7	B45X-7	B50XC-7	B50X-7
Load capacity/rated load	kg	4000	4500	4990	5000
Load centre distance	mm	500	500	500	500
Load distance, centre of drive axle to fork	mm	572	572	572	572
Wheelbase	mm	2000	2000	2000	2000
Aisle width for pallets 1000 x 1200 crossways	mm	4392	4392	4417	4417
Aisle width for pallets 800 x 1200 lengthways	mm	4592	4592	4617	4617
Turning radius	mm	2620	2620	2645	2645
Travel speed, loaded / unloaded	km/h	15 / 16	15 / 16	15 / 16	15 / 16
Lift speed, loaded / unloaded	mm/s	0.33 / 0.47	0.33 / 0.47	0.31 / 0.47	0.31 / 0.47
Lowering speed, loaded / unloaded	m/sec	0.48 / 0.45	0.48 / 0.45	0.48 / 0.45	0.48 / 0.45
Maximum drawbar pull, loaded / unloaded, 5 minute rating	N	18620 / 18620	18620 / 18620	18620 / 18620	18620 / 18620
Maximum gradeability, loaded / unloaded, 5 minute rating	%	17 / 27	16 / 26	15 / 25	15 / 25
Battery voltage/nominal capacity K5	V/Ah	80 / 720	80 / 720	80 / 720	80 / 720

Standard Features and Optional Extras

SAFETY & STABILITY

OSS (Operator Sensing System)	Standard features
Anti roll back	Standard features
Low battery warning alarm	Standard features
Mast lowering Interlock & Tilt lock (ISO 3691)	Standard features
Emergency stop switch	Standard features
Automatic speed control	Standard features
Easy Entry Grab Bar	Standard features
Large entry step with anti-slip pattern	Standard features
Panoramic mirror	Optional extras
LED Lights	Optional extras

OPERATOR COMFORT (ERGONOMICS)

Large & angled floor plate (leg room) with rubber mat	Standard features
Rounded design battery hood cover	Standard features
Easy to read instrument panel	Standard features
Adjustable tilt steering column & easy grip (φ280 size) steering wheel	Standard features
Large cup holder, usb port & 12v electric jack, clip board	Standard features
Steering wheel knob	Optional extras
Low Overhead Guard	Optional extras
Mono Pedal	Optional extras
Premium Grammer seat	Optional extras

PRODUCTIVITY

Excellent visibility through mast	Standard features
Rounded design counterweight	Standard features
Hydraulic cushioned valve in secondary cylinder (FFL & FFT)	Standard features
Smooth and responsive acceleration	Standard features
Fingertip Controls	Optional extras
Battery Side Lift In and Out	Optional extras
Battery Roll In and Out	Optional extras
Auto tilt leveling	Optional extras
Direction switch on main control valve	Optional extras

DURABILITY

Full AC system chassis	Standard features
IP65 Rated Curtis controller	Standard features
Robust frame structure & strong structure overhead guard	Standard features
Oil-cooled disc brakes (ODB)	Standard features
IP 43 rated drive & pump motors	Standard features
IP 54 rated drive & pump motors	Optional extras
SERVICEABILITY	
Easy to access controller	Optional extras
Wide open battery hood cover	Optional extras
Toolless side cover	Optional extras

Standard features

Optional extras

* Remark : This list is based on factory data. Standard or optional can vary for specific countries.



-  Production Subsidiary
-  Sales Subsidiary
-  Parts Depot Center

B13R-B50X-180723v2EN (Mar 19))

Authorized Dealer



Doosan Industrial Vehicles UK Limited
 12 Kilvey Road
 Brackmills Industrial Estate
 Northampton
 NN4 7BQ
 Tel.: 01604 825 600
 Website: www.doosanflt.com

