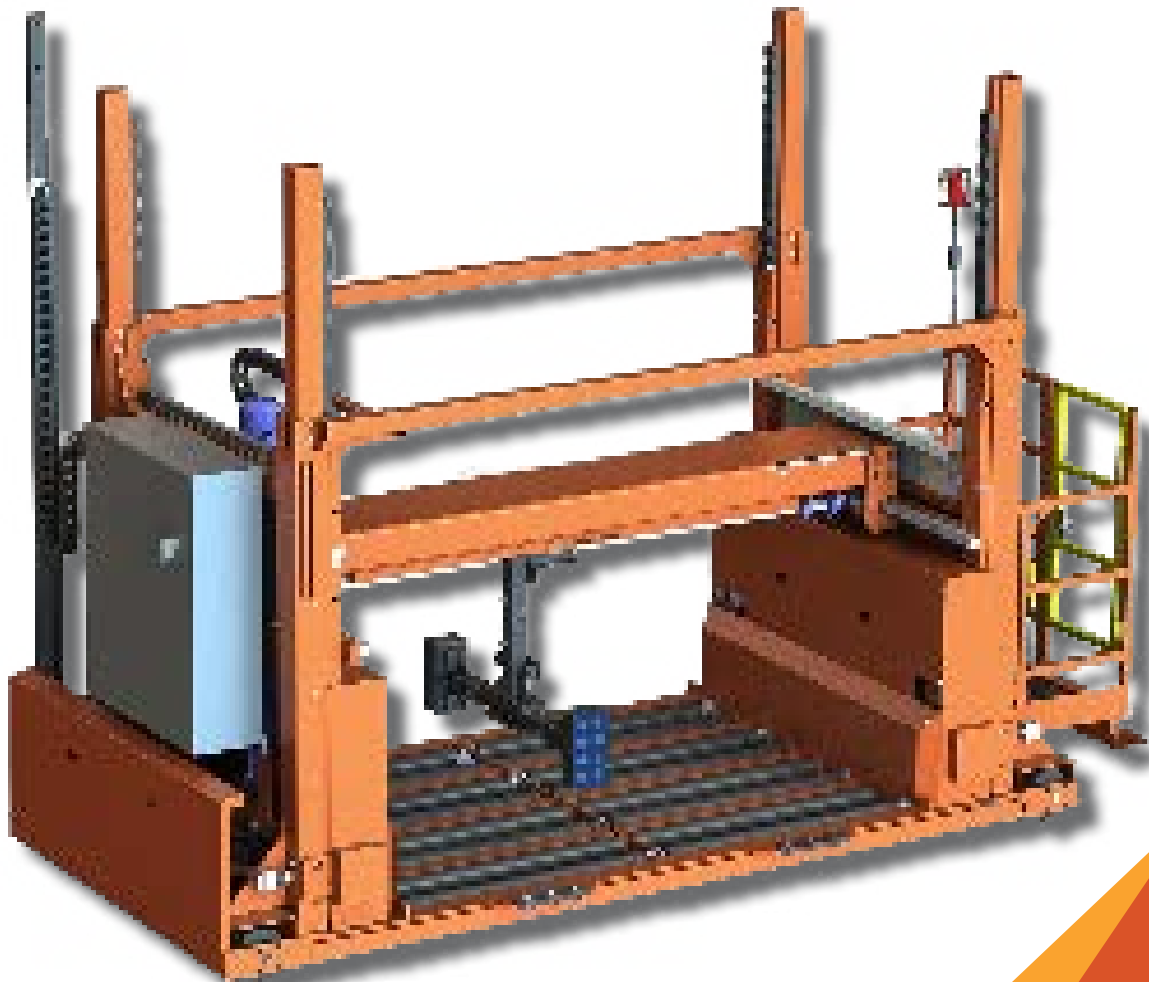




BBE

BATTERY BULL ELECTRIC

MULTI-LEVEL, BATTERY MANAGEMENT



**BBE**

BATTERY BULL ELECTRIC

The Battery Bull Electric or BBE is built to support high-volume, high-density battery change requirements. This system is available with multi-level racking up to six levels to support operations with a large fleet and a small battery room. The first in the industry with no hydraulics, the BBE ensures maximum uptime and minimum maintenance.

Powerful, compact and energy efficient PLC controlled Variable Frequency Drives (VFD) combined with electric gearboxes provide power simultaneous to the lift and drive functions. The BBE is one of the few options in high-volume fully electric transfer carts.

POWERED ROLLERS

The built-in powered rollers require less magnet arm travel to allow faster removal and replacement of batteries into racks and lift trucks.

OPERATOR SAFETY

The safety proximity switch prevents vehicles from operating unless the compartment gate is closed and the E-stop/start button is engaged.

FULLY ELECTRIC

This system has no hydraulics ensuring no oil leaks, reducing service requirements by up to 30%.

DURABLE ROLLER BED

The solid steel core urethane coated roller bed ensures more traction on the battery during the transfer.

PRECISION VARIABLE FREQUENCY DRIVES

Each system has VFD's for raise/lower and travel functions. Making speed adjustments and programming easy for the operator.

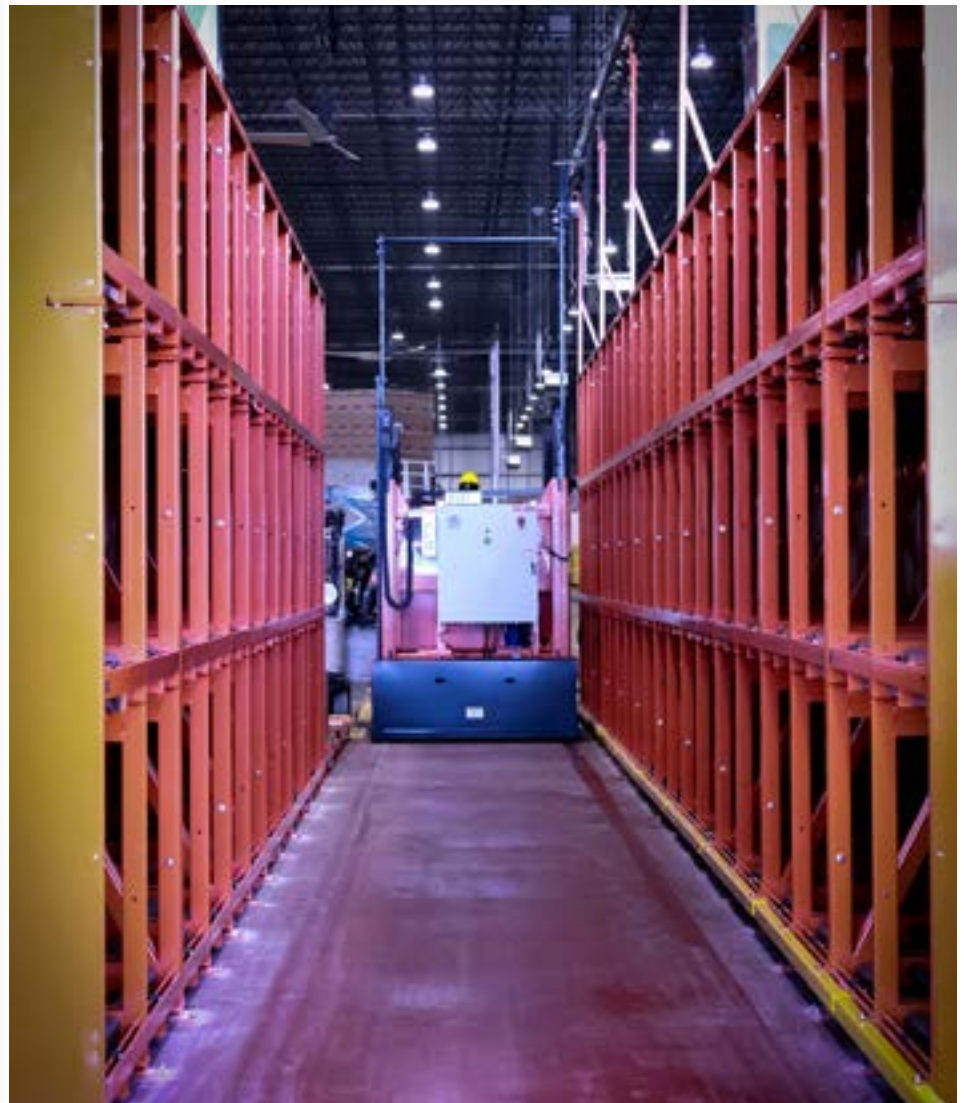
WARRANTY

Every unit comes with a standard 1-year warranty for your protection and a 5-year warranty on the electromagnet.



KEY FEATURES + OPTIONS

- ✓ Multi-level racking available up to 6-levels
- ✓ Integrated safety systems
- ✓ Emergency override
- ✓ Acid proof powder coating
- ✓ Ergonomic dash panel and control system
- ✓ Laser height alignment indicator
- ✓ Photo eye safety system
- ✓ Dual battery bays for smoother changes
- ✓ 95 durometer poly load wheels
- ✓ Integrated safety sensors & alarms
- ✓ Built-in rubber sliders, lead rollers & bumpers to protect batteries
- ✓ Cameras, monitors, and safety lights available
- ✓ Custom colours available



GENERAL SPECIFICATIONS 1-3 LEVEL

	<u>STANDARD</u>	<u>METRIC</u>
Unit capacity	10,000 lbs	4536 kgs
Powerpack type	Gear reduced electric	
Raise/Lower Horse Power	2 x5 HP	2 x3.75 KW
Drive System Horse power	3 HP	2.25 KW
Magnet size	6.5"/11.5"	152 x 292 mm
Magnet pole	8	
Standard colours	Orange & Blue	
Machine duty cycle	5,500 hrs	
Lift speed	0-21 FPM	0-6.4 MPM
Travel Speed	0-175 FPM	0-53.3 MPM
Max Input voltage	575 V	
Max Frequency	60 Hz	
Max current drawn	23 A	
Draw bar pull	1,800 lbs	817 kgs
Service weight	6,900 lbs	3130 kgs



Battery Chargers & PDP Panels



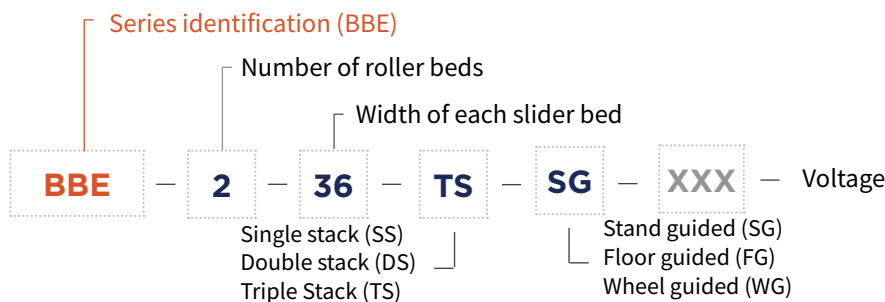
2-Level BBE System



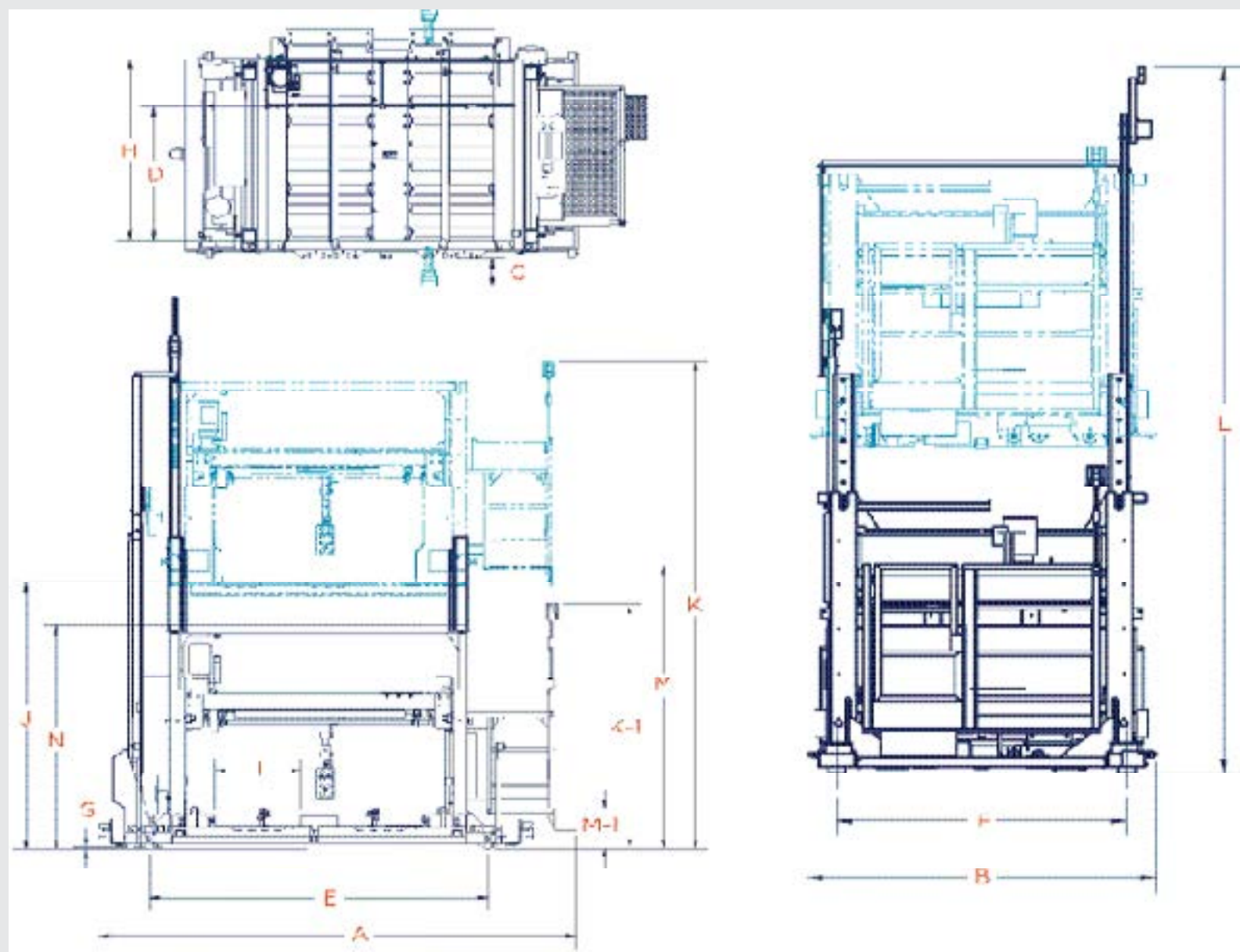
Wash Station & Wastewater Treatment add-on

MODEL-PART NUMBER BREAKDOWN

Example: BBE-2-36-TS-SG-XXX



DIMENSIONAL DATA 1-3 LEVEL



GENERAL SPECIFICATIONS 3-6 LEVEL

	<u>STANDARD</u>	<u>METRIC</u>
Unit capacity	10,000 lbs	4536 kgs
Powerpack type	Gear reduced electric	
Raise/Lower Horse Power	2 x7.5 HP	2 x5.6 KW
Drive System Horse power	2x2 HP	2x1.5 KW
Magnet size	6.5"/11.5"	152 x 292 mm
Magnet pole	8	
Standard colours	Orange & Blue	
Machine duty cycle	5,500 hrs	
Lift speed	0-30 FPM	0-9.14 MPM
Travel Speed	0-175 FPM	0-53.5 MPM
Max Input voltage	575 V	
Max Frequency	60 Hz	
Max current drawn	30 A	
Draw bar pull	1,800 lbs	817 kgs
Service weight	9,975-11,275 lbs	4434-5515 kgs



Quad BBE System



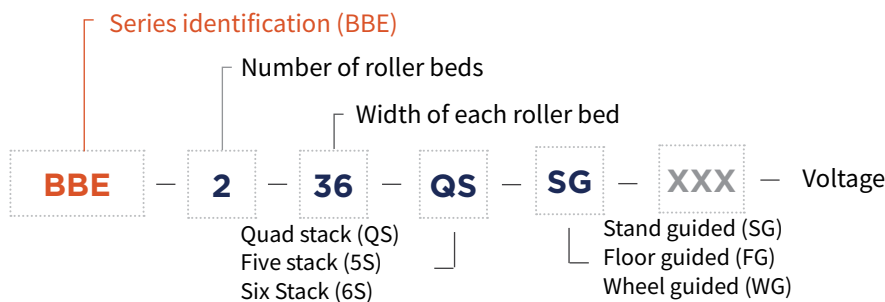
Safety Barrier add-on



Operator Control Station

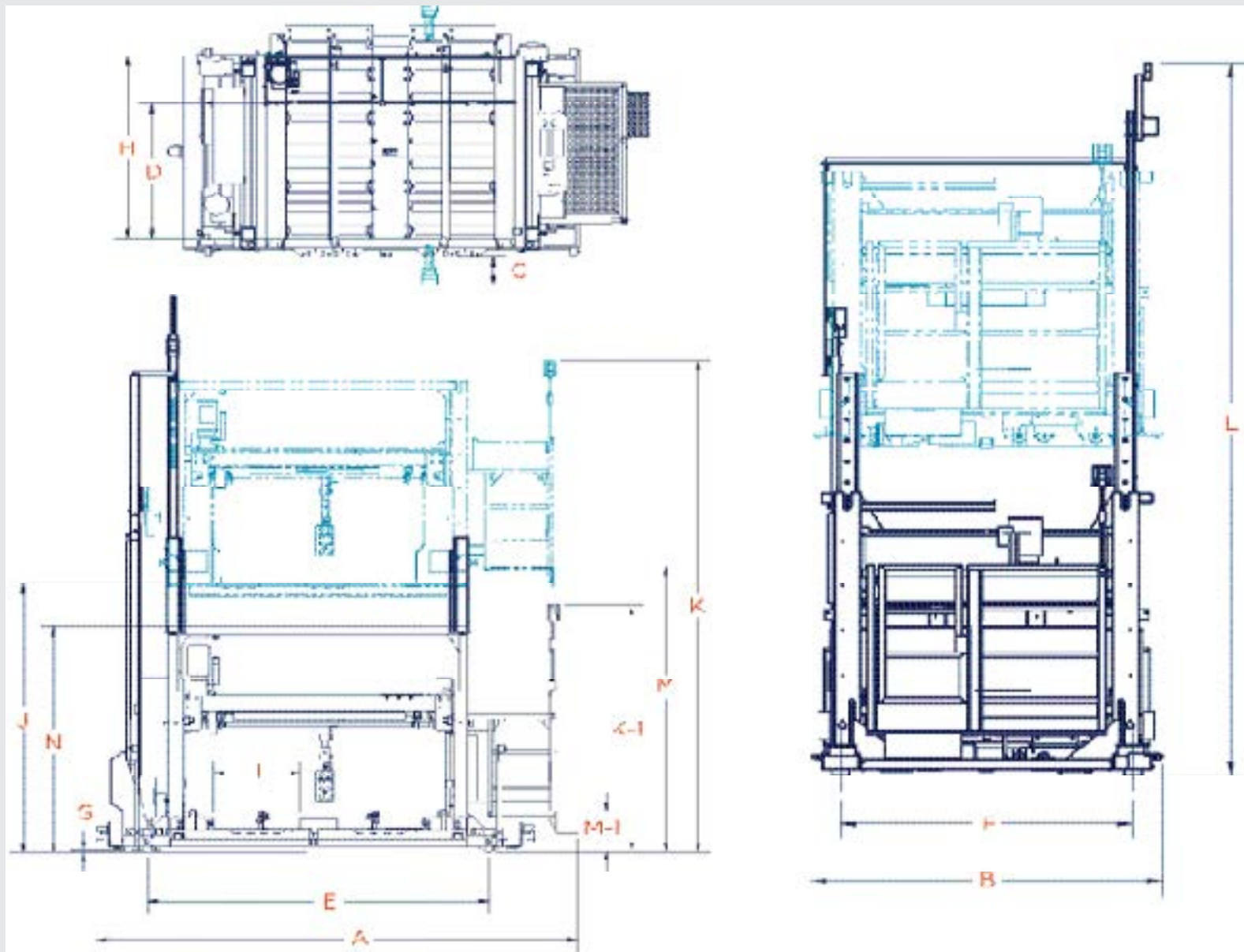
MODEL-PART NUMBER BREAKDOWN

Example: BBE-2-36-QS-SG-XXX



DIMENSIONAL DATA 3-6 LEVEL

BBE



DIMENSIONAL DATA**BBE-2-30****BBE-2-36****BBE-2-42****BBE-2-48**

A	Overall length	148.5"/3772 mm	160.5"/4077 mm	172.5"/4382 mm	184.5"/4686 mm
B	Overall width	78"/1981 mm			
C	Standard magnet arm reach	11.25"/286 mm			
C-1	Extended magnet arm reach	Customized to suit			
D	Bridge travel	52.5"/1334 mm			
E	Wheel base	110.5"/2807 mm	122.5"/3112 mm	134.5"/3416 mm	146.5"/3721 mm
F	Centreline of drive wheels	64.7"/1645 mm			
G	Ground clearance	0.5"/13 mm			
H	Battery compartment length	60"/1524 mm			
I	Battery compartment width	30"/762 mm	36"/914 mm	42"/1067 mm	48"/1219 mm
	Maximum battery length	60"/1524 mm			
	Maximum battery width	24"/610 mm	30"/762 mm	36"/914 mm	42"/1067 mm
	Maximum battery height	37"/940 mm			
	Minimum battery length	18"/457 mm			
	Minimum battery width	6"/152 mm			
	Minimum battery height	20"/508 mm			
	Minimum over travel (front)	94"/2388 mm	103"/2616 mm	112"/2845 mm	121"/3073 mm
	Minimum over travel (rear)	114"/2896 mm	122"/3099 mm	132"/3353 mm	140"/3556 mm

LEVEL DIMENSIONAL DATA**SINGLE****DOUBLE****TRIPLE**

J	Carriage roller bed (raised)	30"/762 mm	54"/1372 mm	100"/2540 mm
J-1	Carriage roller bed (lowered)	6 7/16"/164 mm		
K	Overall height (raised)	106"/2692 mm	130"/3302 mm	176"/4470 mm
K-1	Overall height (lowered)	89"/2261 mm		
L	Overall height to top of tow arm	134"/3404 mm	168"/4267 mm	208"/5283 mm
M	Operator platform height (raised)	36"/914 mm	60"/1524 mm	106"/2692 mm
M-1	Operator platform height (lowered)	12.5"/318 mm		
N	Shipping height	82 7/16"/2094 mm		
	Floor variance	0.25"/6 mm		

DIMENSIONAL DATA**BBE-4-30****BBE-4-36****BBE-4-42****BBE-4-48**

A	Overall length	154.88"/3934 mm	166.88"/4239 mm	178.88"/4543 mm	190.88"/4848 mm
B	Overall width	73.5"/1867 mm			
C	Standard magnet arm reach	8.75"/222 mm			
C-1	Extended magnet arm reach	Customized to suit			
D	Bridge travel	41 7/8"/1064 mm			
E	Wheel base	127.5"/3239 mm	139.5"/3543 mm	151.5"/3848 mm	163.5"/4153 mm
F	Centreline of drive wheels	51.60"/1311 mm			
G	Ground clearance	0.75"/19 mm			
H	Battery compartment length	63 1/4"/1607 mm			
I	Battery compartment width	30"/762 mm	36"/914 mm	42"/1067 mm	48"/1219 mm
	Maximum battery length	60"/1524 mm			
	Maximum battery width	24"/610 mm	30"/762 mm	36"/914 mm	42"/1067 mm
	Maximum battery height	37"/940 mm			
	Minimum battery length	18"/457 mm			
	Minimum battery width	6"/152 mm			
	Minimum battery height	20"/508 mm			
	Minimum over travel (front)	98"/2489 mm	108"/2743 mm	116"/2946 mm	125"/3175 mm
	Minimum over travel (rear)	113"/2870 mm	114"/2896 mm	131"/3327 mm	140"/3556 mm

LEVEL DIMENSIONAL DATA**FOUR****FIVE****SIX**

J	Carriage roller bed (raised)	119 15/16"/3046 mm	190"/4826 mm	236"/5994 mm
J-1	Carriage roller bed (lowered)	7"/178 mm		
K	Overall height (raised)	206"/5232 mm	256"/6502 mm	302"/7671 mm
K-1	Overall height (lowered)	93 7/16"/2373 mm		
L	Overall height to top of tow arm	223"/5664 mm	269"/6833 mm	315"/8001 mm
M	Operator platform height (raised)	128 13/16"/3272 mm	200"/5080 mm	246"/6248 mm
M-1	Operator platform height (lowered)	15.8"/408 mm		
N	Shipping height	83.25"/2115 mm		
	Floor variance	0.125"/3 mm		



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HAVE ADDITIONAL QUESTIONS? GET IN TOUCH

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Toll free: 1.866.THE.BULL

Due to continuous product improvements, specifications are subject to change without notice. Some systems and features shown may be optional at extra cost.

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BBE_specifications_NA