SPEC SHEET

BTE-313

Flexibility and performance

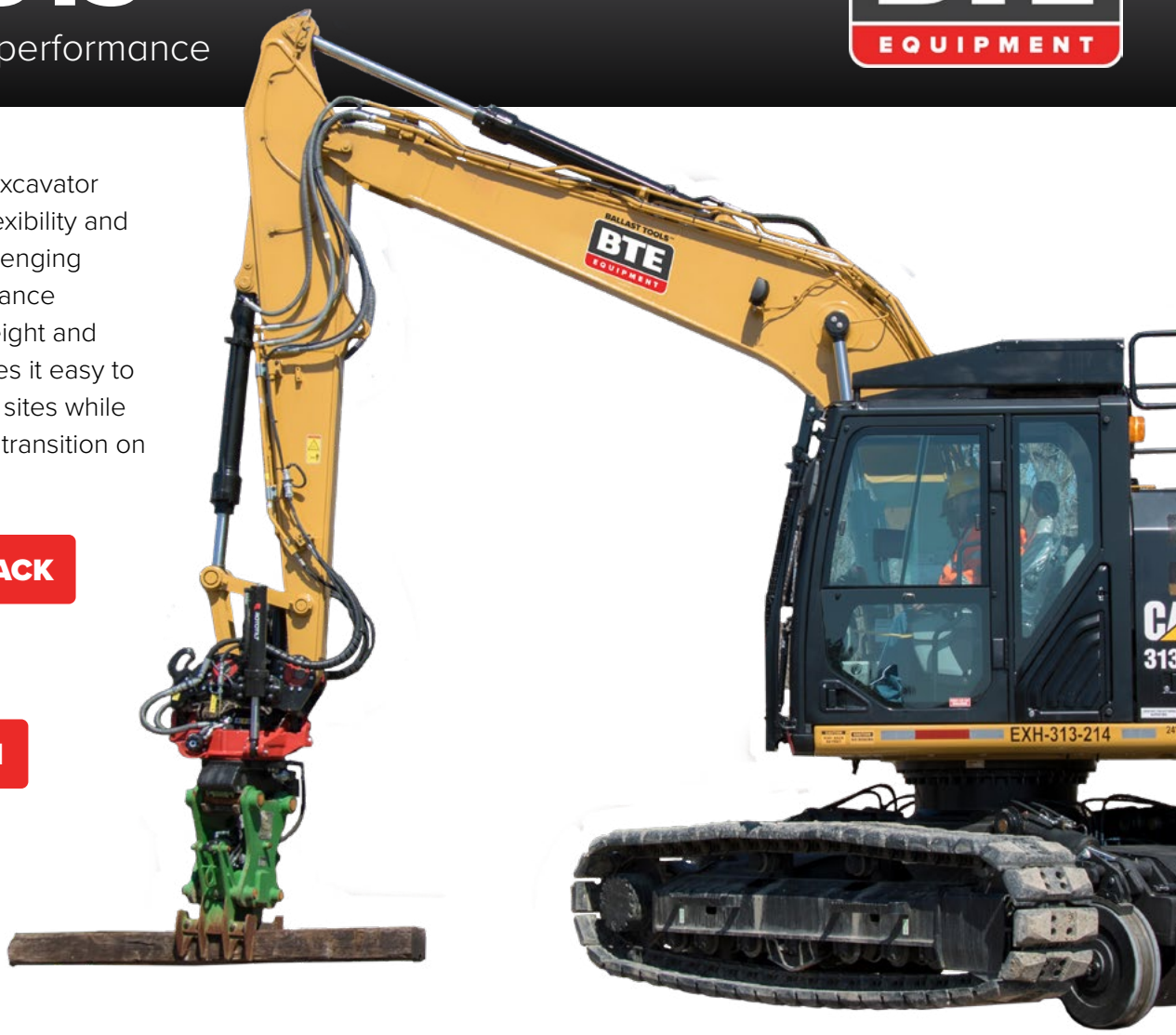
BALLAST TOOLS™ BTE EQUIPMENT

The BTE-313 Hi-Rail Excavator offers unparalleled flexibility and performance for challenging railroad spot maintenance conditions. Its lightweight and compact design makes it easy to mobilize across work sites while being able to quickly transition on and off-rail.

25 MPH ON TRACK

108 HP

30.6-FT REACH



MACHINE AT-A-GLANCE

Engine Power	108	hp	80.5	kW
Max On-Track Speed	25	mph	40	kph
Reach (at ground level)	30.6	ft	9.3	m
Weight	47,000	lb	21,319	kg
Width x Height	10.3 x 11.3	ft	3.1 x 3.4	m
Swing Radius	Conventional			
Rototilt	R6 high flow			
Power Class	10 ft undercutter			

Other Features:

- Rototilt 360° rotation and tilt attachment coupler
- Two-speed drive motors for travel and towing
- 24” extended-life hi-rail wheels
- Chain drive, solid axle, heavy duty bearings
- Widened undercarriage to straddle rail
- Quick tow mode drive disconnects
- Joysticks for multi-function control
- Crawler track mobility for power and stability
- Insulated axles (optional)

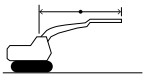
COMPARE MODELS

Scan the QR code to see how the BTE-313 compares to our other excavators

LOAD CHARTS/LIFT CAPACITIES

*Please note, values do not account for the weight of the Rototilt.

Load point height



Load at maximum reach (sticknose/bucket pin)

Load over front

Load over side

On Rail*

LPH		3.0 m/10.0 ft		4.5 m/15.0 ft		6 m/20.0 ft		7.5 m/25.0 ft	
6.0 m	kg								
20.0 ft	lb								
6.0 m Super Elevated	kg								
20.0 ft Super Elevated	lb								
4.5 m	kg					*3,150	2,000		
15.0 ft	lb					*(6,850)	(4,440)		
4.5 m Super Elevated	kg						1,700		
15.0 ft Super Elevated	lb						(3,750)		
3.0 m	kg			*3.850	*3,100	*3,450	1,850		
10.0 ft	lb			*(8,350)	*(6,850)	*(7,500)	(4,150)		
3.0 m Super Elevated	kg				2,700		1,600		
10.0 ft Super Elevated	lb				(5,900)		3,550		
1.5 m	kg	*7,550	5,150	*4,900	2,850	3,750	1,750	*2,150	1,150
5.0 ft	lb	*(16,250)	(11,400)	*(10,600)	(6,250)	(8,000)	(3,850)	*(4,700)	(2,500)
1.5 m Super Elevated	kg		4,400		2,400		1,450		950
5.0 ft Super Elevated	lb		(9,750)		(5,350)		(3,250)		(2,100)
1.0 m	lb	*7,850	5,000	5,550	2,750	3,600	1,700		
3.0 ft	lb	*(18,150)	(11,000)	(11,950)	(6,050)	(7,750)	(3,800)		
1.0 m Super Elevated	lb		4,250		2,350		1,400		
3.0 ft Super Elevated	lb		(9,350)		(5,150)		(3,150)		

"Lift Capacities – One Piece Boom "Spec", "Spec" Stick"

Off Rail*

LPH		1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6 m/20.0 ft				
												m ft
7.5 m	kg									*2,900	*2,900	**4.16**
25.0 ft	lb											
6.0 m	kg									*2,400	*2,400	**5.79**
20.0 ft	lb									*5,250	*5,250	**18.60**
4.5 m	kg					*3,500	*3500	*3,500	2,500	*2,250	2,050	**6.71**
15.0 ft	lb					*7,650	*7,650	*7,550	5,350	*4,900	4,550	**21.83**
3.0 m	kg			*5,750	*5,750	*4,350	3,750	3,700	2,400	*2,250	1,800	**7.21**
10.0 ft	lb			*12,350	*12,350	*9,450	8,050	7,950	5,150	*4,900	3,950	**23.58**
1.5 m	kg			*8,550	6,300	*5,450	3,500	3,550	2,300	*2,350	1,700	**7.36**
5.0 ft	lb			*18,400	13,500	*11,750	7,450	7,650	4,900	*5,150	3,700	**24.08**
0 m	kg			*6,950	5,900	5,350	3,250	3,450	2,200	*2,600	1,700	**7.20**
0 ft	lb			*16,050	12,600	11,450	7,000	7,450	4,700	*5,750	3,700	**23.58**
-1.5 m	kg	*4,500	*4,500	*9,450	5,800	5,250	3,200	3,400	2,150	2,900	1,850	**6.71**
-5.0 ft	lb	*10,100	*10,100	*21,000	12,400	11,200	6,800	7,300	4,600	6,450	4,100	**21.90**
-3.0 m	kg	*8,000	*8,000	*8,600	5,850	5,250	3,200			*7,100	4,950	**5.78**
-10.0 ft	lb	*18,000	*18,000	*18,500	12,600	11,250	6,850			*15,650	10,950	**18.75**
-4.5 m	kg			*5,900	*5,900					*6,850	*6,850	**4.13**
-15.0 ft	lb									*14,950	*14,950	**12.08**

*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load and do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity. Maximum Weight includes 5,445 lb counterweight, steel tracks with pads, cab, operator, full fuel tank and no bucket. Heavy lift function on.

COMPATIBLE ATTACHMENTS

Undercutter

Cribber

Tamper - 2-Motor

Tamper - 4-Motor

Concrete Tie Unloader

Tie Talon

Tube Talon

Tie Grapple

Tie Shear

Tower Shear

Cold Air Blower

Mulcher

Culvert Cleaner

Buckets

Contact your sales representative or visit our website to get started.

636.937.0505 OR SALES@BTEQUIP.COM

*All values are approximate and will change. For specific and the latest engineering machine data, please contact BTE directly.

BTE EQUIPMENT

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