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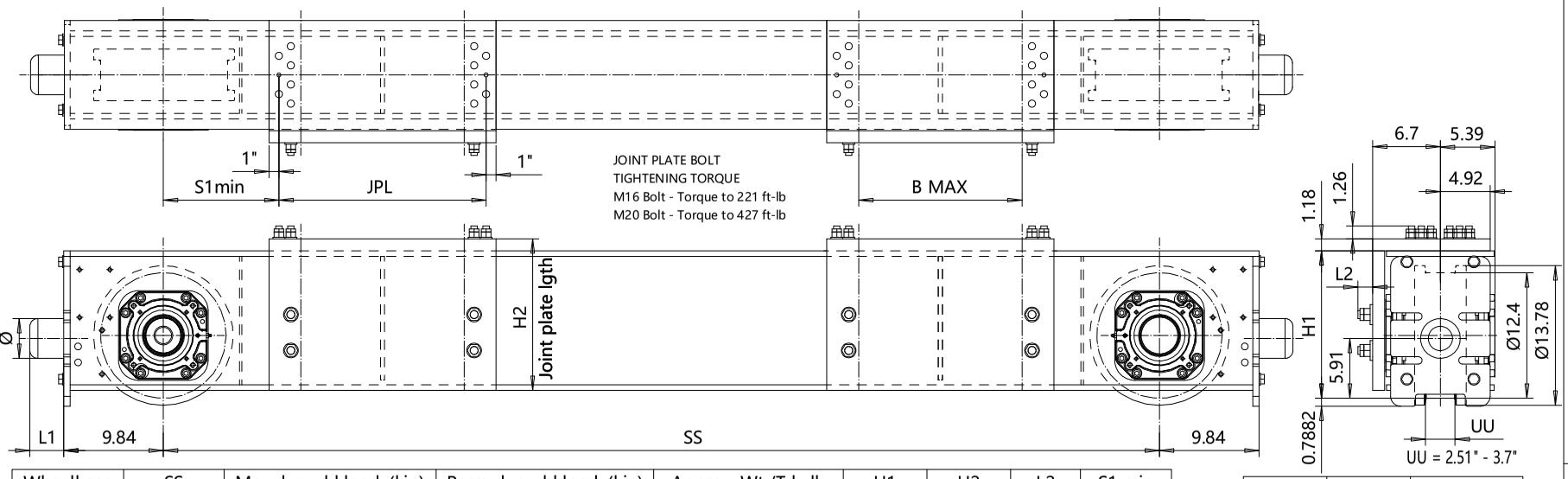
Included in				
Rev	Explanation	Date	Revised by	Checked by

RTN32 END TRUCK SIDE JOINT PLATE TYPE Q



JOINT PLATE BOLT
TIGHTENING TORQUE
M16 Bolt - Torque to 221 ft-lb
M20 Bolt - Torque to 427 ft-lb

Wheelbase	SS	Max dyn whl load, (kip)		Perm dyn whl load, (kip)		Approx. Wt./Trk, lb		H1	H2	L2	S1 min
code		SG	DG	ASCE 85	BETH 135	SG	DG				
25	8'-2 7/16"	56.93	56.93	37.5	49.3	1786	2273	14 9/16"	15"	1 1/2"	12.20"
32	10'-4"	44	56.93	37.5	49.3	1973	2460	14 9/16"	15"	1 1/2"	12.20"
40	13'-1 1/2"	46.8	56.93	37.5	49.3	2180	2668	18 1/2"	18 7/8"	2"	13.78"
45	14'-9 1/8"	41.63	54.68	37.5	49.3	2304	2791	18 1/2"	18 7/8"	2"	13.78"
50	16'-4 7/8"	45	56.93	37.5	49.3	2588	3075	21 1/2"	18 7/8"	2"	13.78"
55	18'-1/2"	40.95	50.63	37.5	49.3	2723	3210	21 1/2"	18 7/8"	2"	13.78"

The wheel loads listed are only a guideline. The max. wheel load listed is based on the structural integrity of the frame and load placement, and it does not take into account permissible wheel loading or bearing life. SG load placement is at the center, and DG load placement is for a trolley gage of 1400 mm [55 1/8"].
The permissible dynamic wheel load listed is based on assumptions that the bridge speed is 40 m/min [130 fpm], end truck duty is Fem 2m, and the runway rail as listed.
The actual wheel load should not exceed the permissible wheel load. If the permissible dynamic wheel load is greater than the maximum dyn wheel load, then the actual wheel load cannot exceed maximum dyn wheel load.
Dyn wheel load = 1.15 x static wheel load.

Buffer type	L1	Ø
B	2 11/16"	3 3/16"
C	3 5/16"	3 15/16"
D	4 1/8"	4 15/16"
E	5 15/16"	3 15/16"
F	7 1/2"	4 15/16"
H	6 5/16"	6 5/16"
I	7 7/8"	7 7/8"
M	4 15/16"	4 15/16"
P	9 7/16"	6 5/16"
S	11 13/16"	7 7/8"
T	13 3/4"	9 7/8"
Y	18 3/4"	9 7/8"
B, C, D rubber		
K, G, E, F, H, I, M, P, S polyurethane		

Product Code example

RTN32-2574-Q40880C0000-N

- N=standard, E=Special
- -primer paint, color code
- (not in use)
- Buffer type
- Joint plate distance, mm (DG)
- Joint plate code
- - =1WD, D =2WD (per truck)
- Wheel groove = UU, mm
- Wheel base = SS, mm
- - =std, C=asymmetrical joint
- Type of end carriage

Joint plate	JPL	B max	Wheelbase
			code
Q4	20.47"	16.14"	25-32
Q5	24.80"	20.47"	25-32
Q6	24.80"	20.47"	40-55
Q7	33.46"	29.13"	25-32
Q8	33.46"	29.13"	40-55
Q9	43.31"	38.98"	25-32
Q0	43.31"	38.98"	40-55

Pos	Description	Specification	Id	Drawing
ETTPIA Design	ETTPIA Chd	Appd	Ref Drawing	
2008-08-11 Date	END TRUCK			1:7
SLEQDOCV Dept	OUTLINE DRAWING			Folder ECN32
	RTN32-Q			
	RTN32 END TRUCK SIDE JOINT			Issue 08/2025