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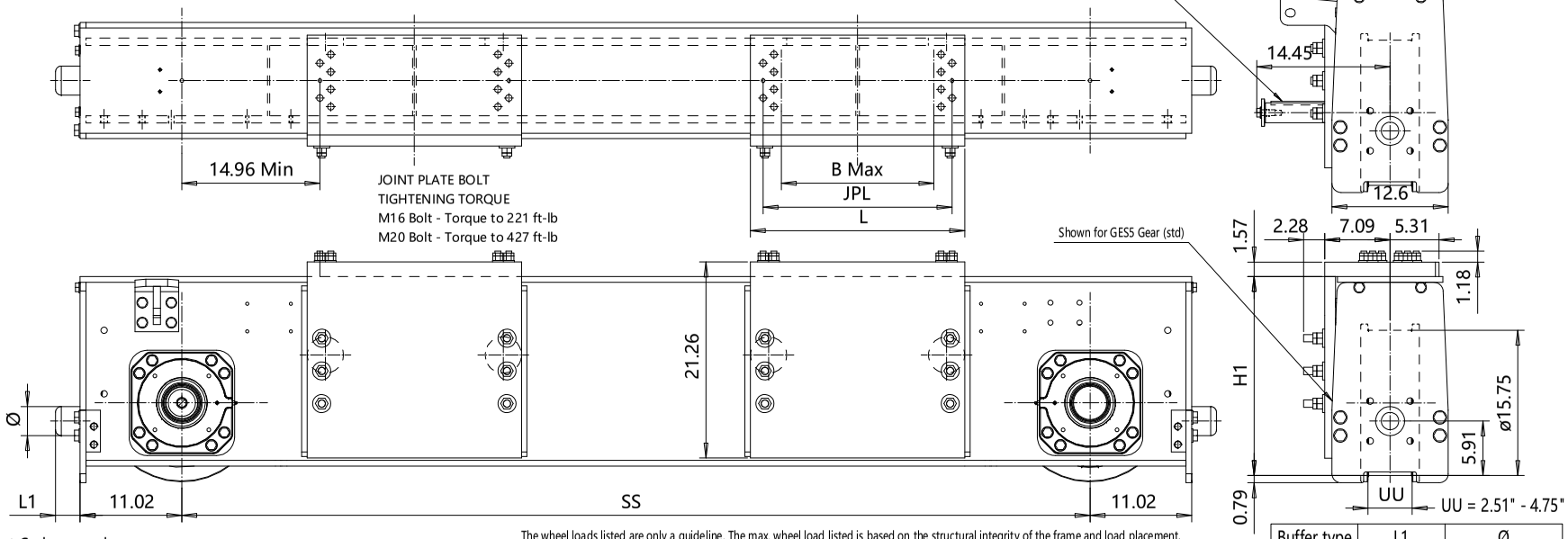
RTN40 END TRUCK SIDE JOINT PLATE TYPE S



Product Code example

RTN40-2575-S60700C0000-N

- N=standard, E=Special
- -primer paint, color code
- (not used)
- Buffer type
- Joint plate distance (pin to pin, with double DG girder) (driving wheel to pin with asymmetrical single SG girder)
- Joint plate code
- - =1WD, D =2WD (Number of driving wheels/end carriage)
- Wheel groove =UU
- Wheel base =SS
- - =std, C=asymmetrical joint
- Type of end carriage

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 gageof 1400 mm [55 1/8"]. The permissible dynamic wheel load listed is based on assumptions that the bridge speed is 32 m/min [100 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.

Joint plate	JPL	B max	L	Weight/pc
				(lb)
S6	20.47"	16.14"	23.25"	306
S7	28.35"	24.41"	31.5"	408
S9	43.31"	38.98"	46.06"	584

Minimum wheelbase with S9 joint plate is 10'-4".

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		

Wheelbase	SS	Max dyn whl load, (kip)		Perm dyn whl load, (kip)		Approx. Wt*./Trk, lb		H1
code		SG	DG	ASCE 85	BETH 135	SG	DG	
25	8'-2 7/16"	78.8	78.8	50.7	66.6	2445	2751	21 9/16"
32	10'-4"	78.8	78.8	50.7	66.6	2511	2818	21 9/16"
40	13'-1 1/2"	78.8	78.8	50.7	66.6	2687	2994	21 3/4"
45	14'-9 1/8"	78.8	78.8	50.7	66.6	2952	3258	26 5/16"
50	16'-4 7/8"	78.8	78.8	50.7	66.6	3349	3655	26 7/16"
55	18'-1/2"	78.8	78.8	50.7	66.6	3724	4030	26 7/16"

*Approximate weight of end truck assumes GES5 drive wheel and S6 joint plate. QM6 drive parts adds extra weight.

	Weight, lb
QM6	73

ETTPIA Design	ETTPIA Chd	Appd	Ref Drawing
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	RTN40-S		
	RTN40 END TRUCK SIDE JOINT		Issue 08/2025

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