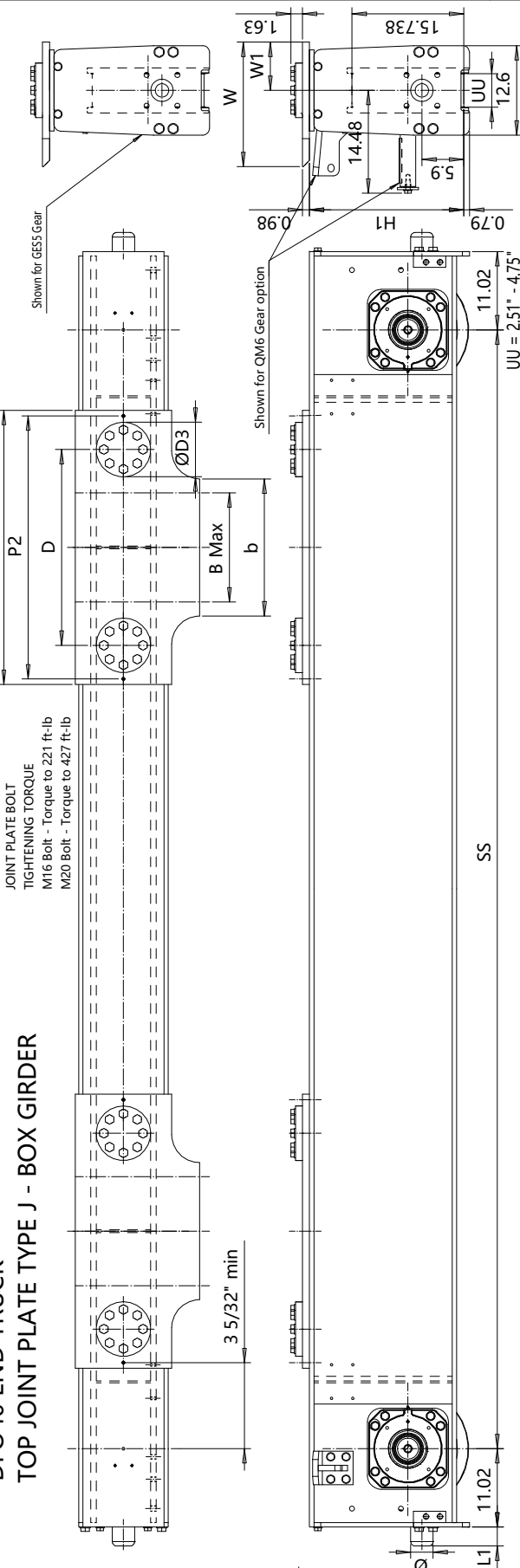


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DFO40 END TRUCK TOP JOINT PLATE TYPE J - BOX GIRDER

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



DFO40-4075-J11505B0000-N

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 32 m/min (100 fpm), end truck duty is Fcm 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.

Wheelbase code	SS	Max dyn whl load, (kip)		Perm dyn whl load, (kip)		Approx. Wt*. /Trk, lb		H1
		SG	DG	SG	DG	SG	DG	
25	8'-2 7/16"	78.8	---	50.7	66.6	2273	---	21 9/16"
32	10'-4"	78.8	78.8	50.7	66.6	2154	2344	21 9/16"
40	13'-1 1/2"	78.8	78.8	50.7	66.6	2668	2857	21 3/4"
45	14'-9 1/8"	78.8	78.8	50.7	66.6	2948	3137	26 5/16"
50	16'-4 7/8"	78.8	78.8	50.7	66.6	3360	3549	26 7/16"
55	18'-1/2"	78.8	78.8	50.7	66.6	3616	3805	26 7/16"

Joint plate	A	B max	b	D	P2	W	W1	Wgt/pc (lb)	Buffer type	L1	Ø
J1	38.58"	15.35"	19.29"	27.56"	37"	17.52"	6.81"	190	B	2 11/16"	3 3/16"
J2	48.43"	25.39"	29.33"	37.4"	46.85"	17.52"	6.81"	236	C	3 5/16"	3 15/16"
J3	62.2"	37.21"	41.14"	51.18"	60.63"	17.52"	6.81"	300	D	4 1/8"	4 15/16"
J4	42.52"	15.35"	19.29"	28.74"	40.94"	18.70"	7.40"	223	E	5 15/16"	3 15/16"
J5	51.18"	25.39"	29.33"	37.4"	49.61"	18.70"	7.40"	227	F	7 1/2"	4 15/16"
J6	66.14"	37.21"	41.14"	52.36"	64.57"	18.70"	7.40"	342	H	6 5/16"	6 5/16"
J7	43.31"	20.08"	24.02"	32.28"	41.73"	17.52"	6.81"	212	I	7 7/8"	7 7/8"
J8	47.24"	20.08"	24.02"	33.46"	45.67"	18.70"	7.40"	247	M	4 15/16"	4 15/16"
J9	53.15"	29.92"	33.86"	42.13"	51.57"	18.70"	6.81"	267	P	9 7/16"	6 5/16"
J0	57.09"	29.92"	33.86"	42.13"	55.51"	18.70"	7.40"	298	S	11 13/16"	7 7/8"
									T	13 3/4"	9 7/8"
									Y	18 3/4"	9 7/8"

Minimum wheelbase with J3, J9, J0 joint plate is 13'-1 1/2" .

*Approximate weight of end truck assumes
GESS drive wheel and J1 joint plate.
QM6 drive parts adds extra weight.

Weight, lb
QM6
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ETTPA Design	ETTPA Chd	Appl	Ref Drawing
2008-08-11	END TRUCK		
SLEDDOCV Part	OUTLINE DRAWING	Folder	1: 7
DFO40-J			ECM40
DFO40 END TRUCK J JOINT		Date 08/2025	