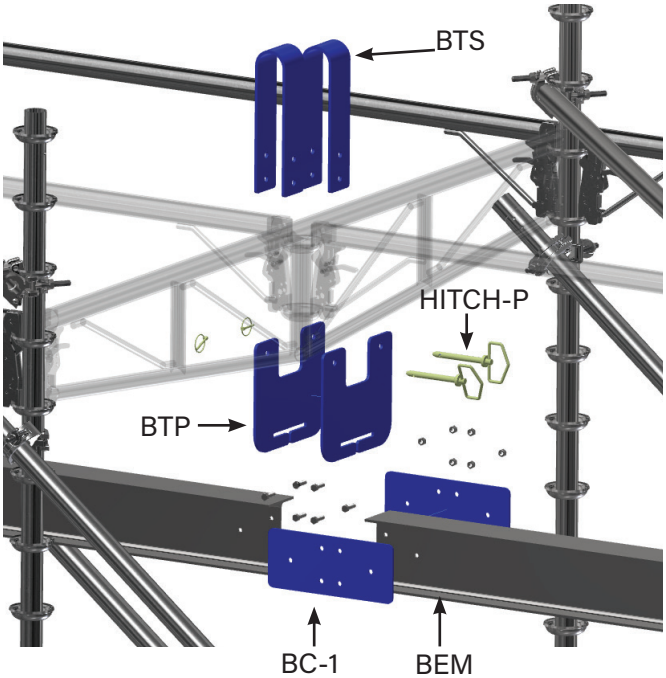
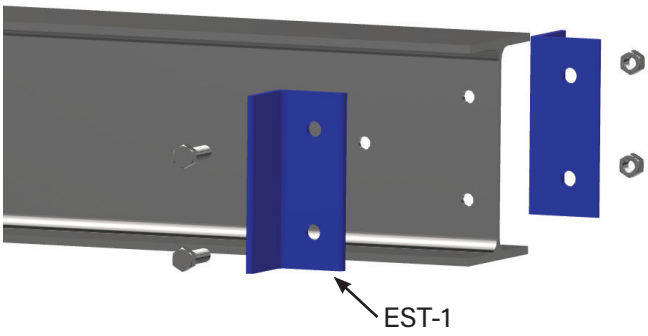
EXCEL MODULAR TROLLEY SYSTEM

Part Number	Description	Galvanized Weight (lbs.)	Length (ft.)
BTRLY	1.5 or 2 Ton Trolley*	48	—
BTS	Beam Trolley Strap	5	—
BTP	Beam Trolley Plate	5	—
HITCH-P	Hitch Pin*	1	—
BEM-20	20' I-Beam (W6x9)*	180	20
BEM-13	13' I-Beam (W6x9)*	117	13
BEM-11	11' I-Beam (W6x9)*	99	11
BEM-9	9' I-Beam (W6x9)*	81	9
BEM-8	8' I-Beam (W6x9)*	72	8
BEM-7	7' I-Beam (W6x9)*	63	7
BEM-5	5' I-Beam (W6x9)*	45	5
EST-1	End Stop with Fasteners	3	—
BC-1	Beam Connector with Fasteners	3	—

*Third-party manufactured component. Data may vary.





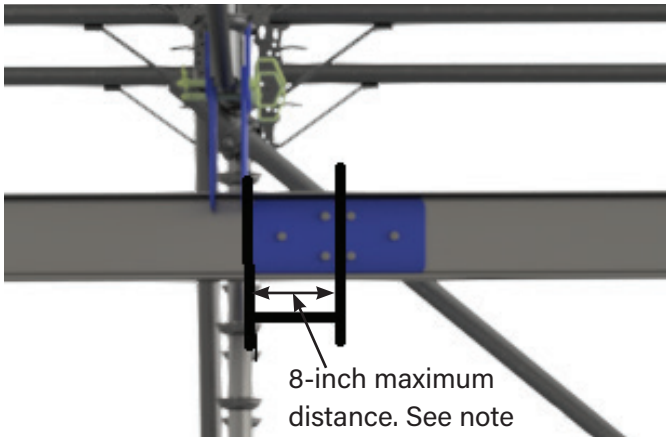
All material must be inspected prior to use! See inspection guidelines on page 43 of this manual.

EXCEL MODULAR TROLLEY SYSTEM (CONT'D)

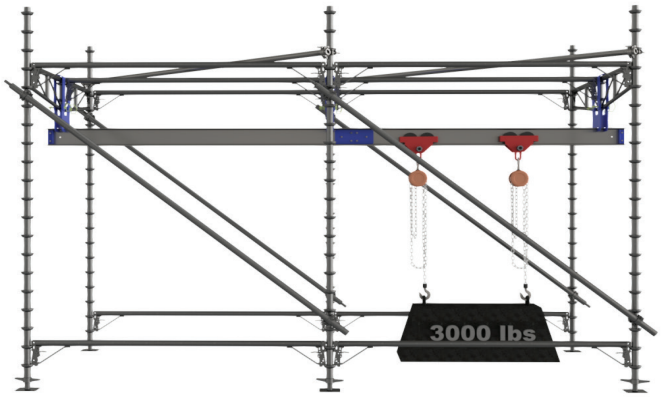
The Excel trolley system is to be used with Excel trusses. When properly designed and installed, the system is capable of lifting a maximum of 3,000 pounds, allowing for the removal of loads within congested areas without overhead crane capabilities.

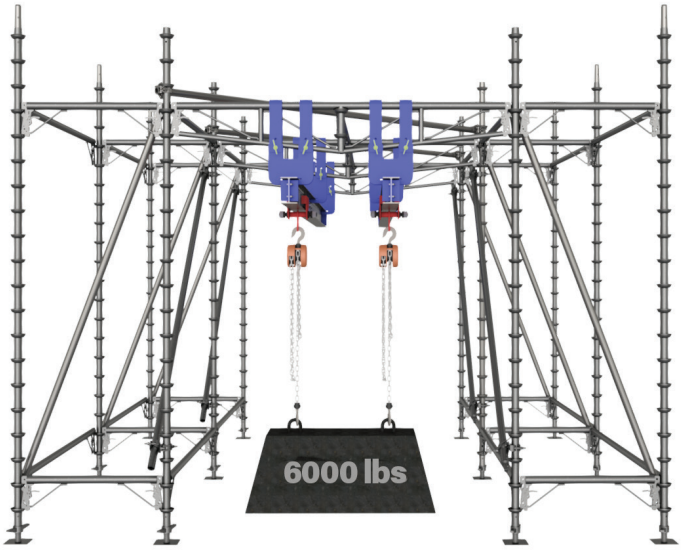
BUILD NOTES:

1. Maximum VERTICAL load of system is 3,000 lbs. System is not designed for side loads.
2. Use multiple beams to:
   a.) improve handling/control of load.
   b.) increase capacity to 6,000 lbs. when evenly distributed to each beam (6,000 lbs. when using four- (4), five- (5), eight- (8), nine- (9), 10- and 12-foot trusses.)
3. Use multiple trolleys to:
   a.) stabilize unsteady loads of 3,000 lbs. or less.
   b.) increase capacity to 6,000 lbs. when evenly distributed to each trolley. Trolley spaced no closer than max beam support spacing—seven (7) feet.
4. Frame considerations:
   a.) Horizontal members spaced vertically, no greater than 6 feet–8.5 inches.
   b.) Seven (7) feet max spacing between supports.
   c.) Trolley, beam and assembly hang 27-29 inches below top of truss. Account for openings with additional rigging.
   d.) Beam ends and splice locations must be within 8 inches of beam support at truss. Never splice in middle of supports.
   e.) Verify ground can handle anticipated loads.
   f.) Bracing and/or anchors are required for stability.
5. **Consult an engineer for each application.**



8-inch maximum distance. See note 4 (d) in Build Notes.





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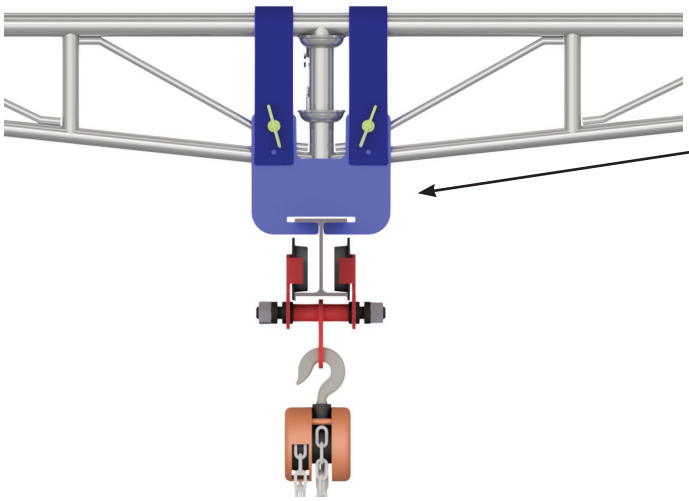
EXCEL MODULAR TROLLEY SYSTEM (CONT'D)



Beam trolley plate must be installed **inside** the beam trolley straps.

EXAMPLE MATERIAL REQUIREMENTS:

	1 Bay	2 Bays	3 Bays
BTRLY	1	1	1
BTS	4	6	8
BTP	4	6	8
HITCH-P	4	6	8
BEM-5, -7, -9, -11, -13, -20	1	1	2
EST-1	2	2	2
BC-1	0	0	2

*Double quantity if double beams.
Conditions in this manual apply.

ENGINEERING:

1. Loads over 3,000 lbs. mus be supported using adequate bracing and beam configuration. **An Excel Engineer must be consulted for proper configuration and required bracing prior to installing.**
2. All beam splices must be within eight (8) inches of a beam trolley strap and support truss. Beams may never be spliced in the middle of a run. ⅜ x 1 ⅛ inch, grade 5 or stronger bolts shall be used for splicing.

All material must be inspected prior to use! See inspection guidelines on page 43 of this manual.

BUILD NOTES:

1. The trusses supporting the trolley system should not be used to support a scaffold board deck.
2. The trolley must not be allowed to pass the outermost truss.
3. The vertical support for the trusses must be designed to support the required loads.
4. All end stops and connector plates must be installed before the trolley system is used.
5. The trolley beam must be level when installed.
6. Do not substitute other components for connectors, end stops, trolley straps, bolts, etc.
7. Extra bracing is required when installing a trolley system. Bracing should be added to prevent shifting in the direction of movement.
8. Mechanical means shall never be used to move the load.
9. Sudden starts and stops must be prevented.

MAINTENANCE:

1. The trolley should be periodically maintained.
2. If there are grease points, they should be filled with white lithium grease (ST-80 High-Performance Grease or equivalent).
3. Trolleys without grease points should be lubed with a 10-weight oil or consult manufacturing specifications.
4. WD-40 can be used before application of grease or oil to loosen old grease and remove any rust buildup.
5. Unless a special beam is used or the maximum load decreased, regardless of the beam length, each trolley system beam must be supported with a beam trolley strap kit every seven (7) feet.
6. Consult your rigging department for maintenance recommendations.