Dura-Mod®
Modular Spreader Beam

Dura-Mod® DM12 Metric Ton System

Caldwell's 12 metric ton Two Lifting Point Bolted Modular Spreader beam can be configured in spreads of 2 to 18 feet.

- Quickly configure a spreader beam to match your lift requirements
- Knock-down design is easily transported
- Unique pivoting drop link
- Capacity ratings provided meet ASME B30.20, BTH-1, DESIGN CATEGORY B, CLASS 0
- Combinations of 1 to 5 spreader sections can be used to create custom spreader beam lengths
- Custom designed systems available

Dura-Mod® DM12 Notes
Bolts, Nuts and Washers can be reused as long as Anti-Seize Thread coating is used.
Slings and shackles are not provided as part of this assembly. Synthetic textile, chain and wire rope slings may be used. Consult your sling supplier as part of your lifting plan. Consult factory for shackle specs.

DM12 Individual Components

Item	Description	Item Weight
DM12-EF	1' End Fitting	17 lbs.
DM12-DL	Drop Link	5 lbs.
DM12-SS-5	5' Spreader Section	58 lbs.
DM12-SS-3	3' Spreader Section	38 lbs.
DM12-SS-2	2' Spreader Section	27 lbs.
DM12-SS-1	1' Spreader Section	17 lbs.
116119	Four (4) - M12 X 1.75 X 40MM Class 8.8 Bolts Four (4) - M12 X 40MM Class 8 Nuts Eight (8) - M12 Class 10.9 Washers	6 lbs. Each Kit

DM12 Starter Set*

Item	Kit Includes:
DM12-Starter	2 Each: End Fittings, Drop Links
	3 Each: 6' Spreader Section
	1 Each: 3' Spreader Section, 2' Spreader Section, 1' Spreader Section
	7 Bolt Kits

*Starter Set allows you to build every span in chart on the next page.

MADE IN THE USA

CALDWELL LIFTING SOLUTIONS

The Caldwell Group, Inc.
Manufacturing/Shipping: 4080 Logistics Pkwy. Rockford IL 61109
Sales/Administration: 200 State St. Beloit, WI 53511

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Dura-Mod® DM12 Specifications

DM12 - Capacity vs. Span:

Beam/Span Length (ft.)	Base to Sling Angle						Recommended Beam Configuration						Number of Bolt Kits
	45° BSA - Min Top		60° BSA - Min Top		70° BSA - Min Top								
	Metric Tons	Sling Length	Metric Tons	Sling Length	Metric Tons	Sling Length							
2	12	1' 1"	12	1' 8"	12	2' 7"	EF/DL	EF/DL	-	-	-	-	1
3	12	1' 10"	12	2' 8"	12	4' 1"	EF/DL	SS-1	EF/DL	-	-	-	2
4	12	2' 6"	12	3' 8"	12	5' 6"	EF/DL	SS-2	EF/DL	-	-	-	2
5	11	3' 2"	12	4' 8"	12	7' 0"	EF/DL	SS-3	EF/DL	-	-	-	2
6	10	3' 11"	12	5' 8"	12	8' 6"	EF/DL	SS-3	SS-1	EF/DL	-	-	3
7	9	4' 7"	12	6' 8"	12	9' 11"	EF/DL	SS-5	EF/DL	-	-	-	2
8	8.5	5' 4"	12	7' 8"	12	11' 5"	EF/DL	SS-5	SS-1	EF/DL	-	-	3
9	8	6' 1"	12	8' 8"	12	12' 10"	EF/DL	SS-5	SS-2	EF/DL	-	-	3
10	7.25	6' 10"	12	9' 8"	12	14' 4"	EF/DL	SS-5	SS-3	EF/DL	-	-	3
11	6.5	7' 6"	11	10' 8"	12	15' 10"	EF/DL	SS-5	SS-3	SS-1	EF/DL	-	4
12	5.75	8' 2"	10	11' 8"	12	17' 2"	EF/DL	SS-5	SS-5	EF/DL	-	-	3
13	5	8' 11"	9	12' 8"	12	18' 8"	EF/DL	SS-5	SS-5	SS-1	EF/DL	-	4
14	4.5	9' 7"	8	13' 8"	11.5	20' 2"	EF/DL	SS-5	SS-5	SS-2	EF/DL	-	4
15	4	10' 4"	7	14' 8"	10.5	21' 7"	EF/DL	SS-5	SS-5	SS-3	EF/DL	-	4
16	3.5	11' 0"	6.5	15' 8"	9.5	23' 1"	EF/DL	SS-5	SS-5	SS-3	SS-1	EF/DL	5
17	3	11' 8"	5.5	16' 8"	8.75	24' 6"	EF/DL	SS-5	SS-5	SS-5	EF/DL	-	4
18	2.5	12' 5"	5	17' 8"	8	26' 0"	EF/DL	SS-5	SS-5	SS-5	SS-1	EF/DL	5

ASME B30.20, BTH-1, Design Category B, Class 0

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Correct Assembly Procedure:

- Determine the spread length required for the lift
- Select the components to be assembled from the right-hand columns of the chart
- The assembly area must be clean and level
- All components must be checked for damage and clean mating surfaces
- Use soft slings on the lifting lugs to position the sections. NEVER use a forklift to carry the beam
- Position the longest section in the middle of the assembly area (laid on flats to avoid rolling)
- Attach the required components as evenly as possible on each end to achieve the correct length for the job
- Attach the end units
- Install new bolt, washer, washer and nut at each hole. Torque in a star pattern to 38-ft. lb. with Anti-Seize coating on threads
- Select the correct length slings from the load chart to give the required sling-angle
- Place the links in the end units with the large hole up. Install the shackles, drop links and top slings with the heavier capacity shackle to the top
- Attach to the crane hook and lift the spreader beam off the ground
- Connect the shackles and lower slings to the drop links
- Connect the lower slings to the load
- A thorough check of the assembly should be made by a competent person prior to commencing the lift

Safety Information:

- Confirm all lifting devices are free from any damage
- Verify slings are not twisted
- Verify bottom sling angles do not exceed 5° from vertical
- Verify all fasteners are tightened properly
- Use length and sling angle chart information to verify spreader system capacity. Component capacity and spreader system capacity are different
- Confirm the combined weight of the spreader system and the load does not exceed the crane's rated capacity
- Always place the longest spreader section in the middle of the assembly
- Never use more than 5 spreader sections in an assembly
- Only lift loads from the end shackles. Never from the spreader tubes or flanges
- Verify the travel path is clear of any people and obstructions
- Never lift loads over people
- Obey stop signals from anyone
- Confirm the load is ready for lifting or transporting
- Ensure the load can withstand forces applied by the lifter
- Do not modify the lifter
- Verify each operator is qualified in proper lifting and rigging
- Confirm all lifting devices are correctly, completely, seated in the hoist hook
- Lift or transport only properly balanced loads using a vertical lift
- Accelerate and decelerate the lifter and load slowly and smoothly – avoid swinging the load
- Do not drag loads on the ground
- Do not leave a suspended load unattended
- Bolts, Nuts and Washers can be reused as long as anti-seize thread coating is used and torque in a star pattern to 38-ft. lb.
- Always wear Personal Protective Equipment (PPE) in environments where there's a risk of injury
- PPE requirements are a combination of regulatory compliance, workplace hazard assessment, and employee education
- PPE should be chosen based on the specific hazards of the job and meet all training and employers requirements
- **⚠WARNING** Watch for Pinch and Crush Points
- Pinch points can occur in both marked and unmarked areas
- The term "crush points" in lifting equipment refers to areas or zones where there is a potential risk of a person or object being trapped, pinched, or crushed during operation. These points are hazardous and can cause serious injury or damage if not properly controlled or avoided
- Always be aware of your surroundings and where moving parts or machinery are operating

Scan QR Code to watch informational Dura-Mod video

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