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STOP! IMPORTANT MDM-ECS SPREADER BAR IMPORTANT INFORMATION

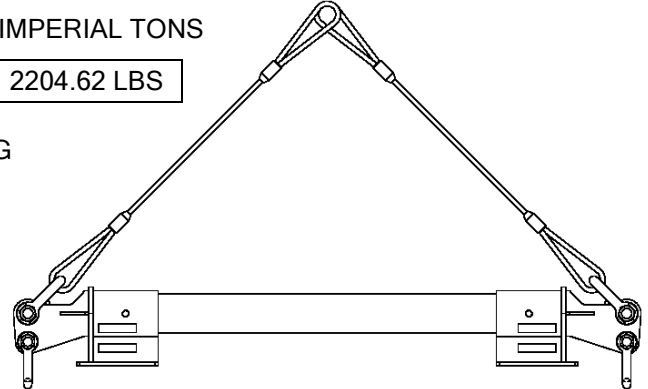
FOR SUPPLEMENTAL INFORMATION PLEASE VISIT: www.myersdnm.com • www.mdm-ecs.com • www.youtube.com/mdm-ecs
 FOR CORRECT MDM-ECS CHOICE, ASSEMBLY, AND USE OF THE MDM-ECS SPREADER BAR CONTACT MDM-ECS

1. EACH MDM-ECS HAS BEEN INSPECTED AND PROOF TESTED TO 125% RATED CAPACITY PER ASME B-30.20
2. MDM-ECS IS DESIGNED PER ASME BTH-1 CAPACITIES ARE IN IMPERIAL TONS

1 IMPERIAL TON	=	2000 LBS	1 METRIC TON	=	2204.62 LBS
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3. VIEW AND UNDERSTAND THE MDM-ECS SS INFORMATION TAG


MDM ECS	MYERS DESIGN & MFG. HOUSTON, TX USA	DATE
	INFO@MYERSDNM.COM 832-581-2742	JOB
RATED CAP	MODEL	DSGN. CAT.
DEVICE WT.	SERIAL	SVC. CLASS
NEVER EXCEED THE RATED CAPACITY OF THIS DEVICE		PAT. NO. 9469509
MFG TO SPECIFICATIONS ASME B30.20 ASME BTH-1 AWS D14.1		DECAL:



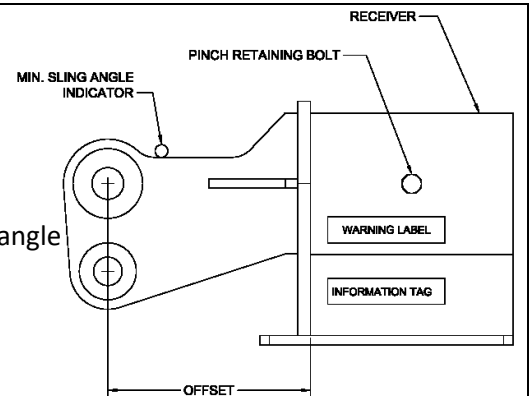
4. VIEW AND UNDERSTAND THE MDM-ECS INSTRUCTIONS PRIOR TO ASSEMBLY
5. READ ALL WARNING LABELS
6. DO NOT MODIFY MDM-ECS. IF THE MDM-ECS IS DAMAGED, OVERLOADED, OR MODIFIED, IMMEDIATELY REMOVE FROM SERVICE AND CONTACT MYERS DESIGN & MFG INC
7. MDM-ECS IS DESIGNED FOR SPECIFIC SIZE SHACKLES
 - a. NEVER MODIFY THE LUG HOLE OR CHEEK PLATE
 - b. IF THE SHACKLE DOES NOT FIT, REPLACE IT WITH THE CORRECT SIZE SHACKLE
 - c. USE "BOLT TYPE" OR "SCREW PIN" SHACKLES ONLY
 - d. MDM-ECS IS DESIGNED FOR STANDARD CARBON SHACKLES UP TO THE 121 TON SYSTEM
 - e. MDM-ECS IS DESIGNED FOR ALLOY-WIDE BODY SHACKLES ABOVE THE 121 TON SYSTEM
8. FULLY INSPECT ALL OF THE RIGGING TO BE INSTALLED *PRIOR* TO ASSEMBLY
 - a. VERIFY ALL RIGGING IS ADEQUATE FOR THE SYSTEM SELECTED
 - b. INSPECT EQUIPMENT PER ASME B30.20

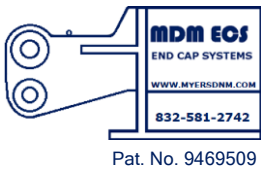
CONFIGURING A MDM-ECS SPREADER BAR WITH PIPE INSERT

Lifted weight with rigging 100,000 lbs. Lift point connections – 30' or 360"
 Requires MDM-ECS 54T MDM-ECS 54T offset - 15.75" x 2 = 31.5"
 360" – 31.5" = 328.50" pipe insert = 328.50" End caps with pipe inserted = 360"
 Chart indicates either Sch. 40 or Sch. 80 pipe will meet this configuration @ 60° sling angle

IMPORTANT Min. sling angle indicator is painted white 
 View and understand this safety feature #9 in [Assembly Instructions](#)

Please contact Myers Design & MFG with questions or specific needs





Myers Design & MFG

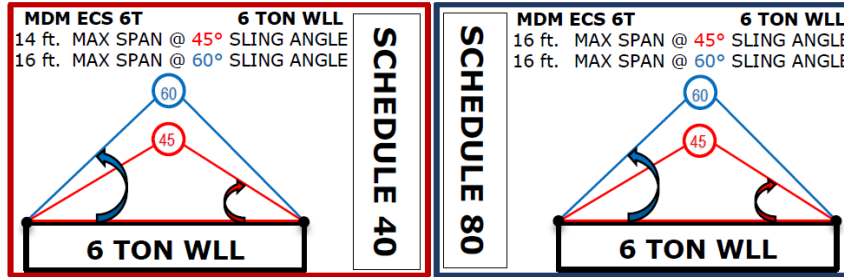
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MDM-ECS SPREADER BAR ASSEMBLY INSTRUCTIONS

1. DETERMINE THE FOLLOWING:
 - a. THE WEIGHT OF THE LOAD TO BE LIFTED
 - b. RIGGING WEIGHT
 - c. THE EXACT DISTANCE OF THE LIFT POINTS
2. CONFIRM THE SELECTED MDM-ECS
 THE END CAP SYSTEM HAS THE PROPER WORKING LOAD LIMIT (WLL) / RATED CAPACITY FOR THE SPECIFIC DISTANCE OF THE LIFT POINTS BASED ON THE SPECIFIC SLING ANGLE TO BE USED

EXAMPLE:



3. ENSURE CORRECT SIZE PIPE DIAMETER HAS BEEN SELECTED (SEE MDM-ECS CHART)
 4. ENSURE YOUR PIPE INSERT IS THE CORRECT GRADE A105B A53B MINIMUM YIELD OF 35,000 PSI
 5. ENSURE YOUR PIPE INSERT IS THE CORRECT SCHEDULE/WALL THICKNESS (SEE MDM-ECS CHART)
- CONTACT MYERS DESIGN & MFG INC FOR SYSTEM NOT LISTED IN THE STANDARD MDM-ECS CHART

MDM-ECS SPREADER BAR ASSEMBLY INSTRUCTIONS

*** KEEP HANDS AND FINGERS CLEAR AT ALL TIMES DURING ASSEMBLY ***



1. VISUALLY INSPECT THE END CAP AND VERIFY THAT IT HAS NOT BEEN DAMAGED OR MODIFIED IN ANY WAY AND ENSURE THE RECEIVER IS CLEAR OF DEBRIS
2. INSPECT AND VERIFY THAT THE PIPE INSERT IS NOT DAMAGED OR MODIFIED
3. PLACE THE END CAPS IN SAFE AREA FOR ASSEMBLING THE SPREADER BAR
4. USE THE CORRECT EQUIPMENT TO SAFELY MOVE THE END CAP AND PIPE INSERT
5. MOVE THE PIPE INSERT INTO THE END CAP UNDER PARALLEL CONDITIONS
6. SUPPORT THE PIPE AND MOVE THE MATING END CAP INTO THE PIPE INSERT
7. ATTACH THE CORRECT RIGGING
8. LIFT THE ASSEMBLY CLEAR OF THE GROUND TO ENSURE THE PIPE INSERT IS FULLY SEATED INSIDE THE RECEIVER END CAP
9. AT THIS TIME VERIFY THAT THE MIN. SLING ANGLE INDICATOR (LESS THAN 45° SLING ANGLE) IS VISIBLE FROM THE SIDE
10. IF NOT VISIBLE RE-RIG WITH LONGER TOP SLINGS
11. TIGHTEN THE RETAINING BOLTS TO HOLD MDM-ECS IN PLACE
12. LOWER MDM-ECS ONTO THE GROUND AND TORQUE RETAINING BOLTS TO MINIMUM OF 75 FT-LB
NOTE: THE MDM-ECS RETAINING BOLT SYSTEM HAS BEEN TESTED UNDER CONTROLLED CONDITIONS TO RETAIN THE END CAPS
OPTIONAL: PIPE INSERT RETAINING FOR A FIXED RETAINING SYTEM, AFTER FOLLOWING STEPS 1-9
13. DISASSEMBLE THE MDM-ECS ONE SIDE AT A TIME
14. USE THE MARKS/IMPRESSIONS MADE BY THE RETAINING BOLTS, THEN CREATE A HOLE IN THE PIPE NO MORE THAN 1/8" OVER DIAMETER OF RETAINING BOLT TO PASS THROUGH THE WALL OF THE PIPE INSERT
15. REASSEMBLE THE END CAP BOTTOMING OUT THE BOLT TO THE BOLT'S SHOULDER, THEN TORQUE TO A MINIMUM OF 75 FT LB
16. IF BOLTS ARE DAMAGED USE ONLY MDM-ECS SPECIFIED BOLTS. BOLTS ARE TO BE GRADE 8 OR EQUIVALENT AT THE PROPER LENGTH

DISCLAIMER: Myers Design & Mfg. Inc. / MDM-ECS accepts no liability for damage, injury or any legal responsibility incurred directly or indirectly from the misuse of the ECS equipment or associated components.