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"LIFTING_LUG.xls" Program
Version 1.4

LIFTING LUG ANALYSIS

Per AISC 13th Edition ASD Manual, ASME BTH-1-2008, and
"Design and Construction of Lifting Beams" by David T. Ricker

Project Name:

Client:

Project No.:

Prep. By:

Date:

Input:

Design Parameters:

Lug Yield Strength, Fy = 36 ksi

Lug Ult. Strength, Fu = 58 ksi

Edge Dist., a = 2.500 in.

Edge Dist., e = 1.000 in.

Lug Width, b = 6.000 in.

Rounded Edge? = No

Will Pin Rotate Under Load? = No

Hole Diameter, dh = 1.000 in.

Pin Diameter, dpin = 0.750 in.

Lug Thickness, t = 0.750 in.

AISC Factor of Safety, F.S.1 = 5.0

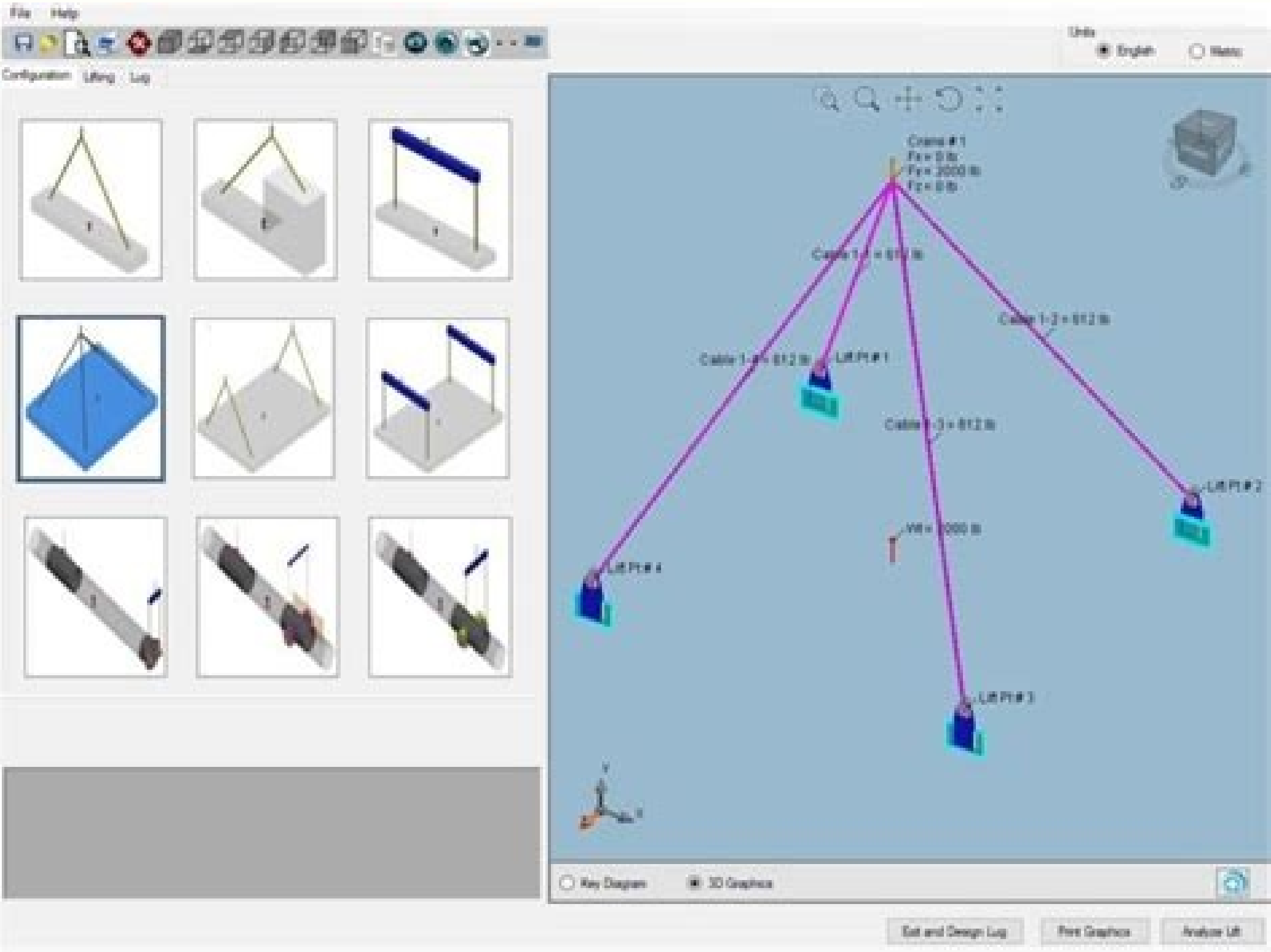
AISC Factor of Safety, F.S.2 = 3.1

ASME Factor of Safety, F.S.3 = 3.0

F.S.2 = max(3, Fy(Fu/F.S.1))

Assuming Category B lifters

ASME Notation



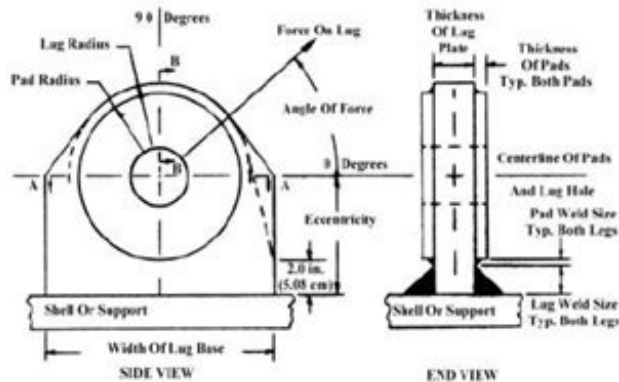
<http://www.maximumpath.com/FEHEL.Pptx>

HELP FILE FOR: DESIGN OF PAD EYE TYPE LIFTING LUGS:
This help file is for both the ENGLISH and the METRIC programs.

DEFINITION:

The design of a lifting lug is made up of four parts: the lug plate, the weld used to connect it to a shell or structure, the bearing stress at the pin hole and the end area of the lug. The design of a lifting lug is very critical and must be done to the latest standards and codes.

For design reference, the program assumes that the lug is in the vertical position with the pin hole at the top. Further, the line of the force is assumed to be in the plane of the strong axis and the angle of the force on the lug is measured from a horizontal reference line thru the center of the pin hole. For example, at zero (0) degrees, the force would be at a right angle to the longitudinal centerline of the lug. At ninety (90) degrees, it would coincide with the longitudinal centerline of the lug. See the pad eye lug drawing below.



NOTES:
1. Lug Radius - Axis Through Pin Hole
2. Pad Radius - Axis Through Pin Hole
3. Lug Weld Size - Axis Through Pin Hole

The design of the end area and bearing of the lifting lug are based on the total force on the lug applied in the vertical. Their design is also based on the radius of the lug and not on the width of the lug base. The combined stress of the lug plate and the weld size are calculated from the vertical and horizontal components of the force at the specified angle. These stresses are based on the width of the lug base.

PROGRAM OBJECTIVE:

The objective of this program is to provide a design for the end area of a pad eye type-lifting lug that

Diagram illustrating the geometry and forces on a hemispherical head:

- R = radius
- D = Hole Dia.
- H = height
- t = thickness
- D_p = Shackle pin dia.
- W = width
- Forces: F_v (vertical), F_r (radial), $F_h = F_v$ (horizontal), and θ (angle theta).

fy Shear Stress $f_y = Fr / (2 \times t \times (R-D/2))$ $f_y = $ 5470 psi	fy Allowable Yield Stress $f_y = 0.4 \times \text{Mat'l yield Stress}$ $f_y = $ 14400 psi
	Result Acceptable
fb + ft = Bending + Tension Stress (longitudinal) $\frac{F_h \times H}{t \times (W^2/6)} + \frac{F_v}{t \times W} + \frac{(0.10)Fr \times l}{W \times (t^2/6)}$ $fb+ft = $ 16833 psi	fb + ft Allowable $0.6 \times \text{Yield Stress}$ $fb + ft = $ 21600 psi
	Result Acceptable
fg = Bearing Stress $Fr / (0.85 \times t \times D_p) = $ $fg = $ 31373 psi	fg Allowable $0.9 \times \text{Yield Stress}$ $fg = $ 32400 psi
	Result Acceptable

Weld Size Calculations

L Weld length = $2W + 2t =$ L = 13.50 Sx Section Modulus = $Wt + W \cdot 2/3 =$ Sx = 16.50 fb Bending Stress = $F_h \times H / S_x =$ fb = 3333.33 fv Shear Stress = $F_h / L =$ fv = 740.74 ft Tension Stress = $F_v / L =$ ft = 1481.48 f Combined Stress = $\sqrt{(f_b + f_t)^2 + F_v^2} =$ f = 4871.46	Max. Allowable Stress of Base Metal 34000 Min. Weld Size $f / f_w =$ 0.32 Result Weld size is Acceptable Actual Fillet Weld Size 0.5 fw Maximun Allowable Stress $0.45 \times S_a =$ fw = 15300
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[illegible]

Answer to Alan: First of all don't worry all our files are safe and in general there is no problem with antivirus softwares. The verification of the failure modes and the plate section are included. Two dimensioning welding cases and configurations: fillet weld full penetration weld Useful graphical views of the lug and welding are foreseen to better define the geometry and the dimensioning parameters. Metric (S.I.) or English (U.K.) Units System can be selected for the calculation. I keep getting promise pending how to get only one random element from object? Please for any other technical questions use the dedicated email contact form. Answer to henk: you're probably referring to the message that 32bit is required. Lifting Lug Design v 3.3 - Trial version Lifting Lug Design v 3.3-Trial version.x Compressed Archive in ZIP Format 15.5 MB Spreadsheet version list: Version 3.3: Bug fixed. Minor improvements. Version 2.0: Added verification worksheet of lifting padeyes with stiffening brackets. Anyway because the .EXE applications are not provided with certified digital signature (not yet), there is the possibility that an antivirus software or Windows firewall generates a "false positive", showing a warning message (or in worst case blocking the file). Added User values for Beta and Gamma parameters in welding verifications. Click below to download the zipped file. So try with the trial version of the application. Version 2.1: Added .EXE file for full version. The verification takes into account the guidance of the European and American standards. Version 2.0 (click here to download it). When launching the .EXE file, Excel is installed and the protected workbook is opened and if you have not installed Excel, it is possible to select the English or Metric Units System for the calculation. The trial version is limited to 64 runs from its first launch. After the 64th launch, the trial version will be disabled. The .EXE file should be installed on a computer with Windows 7 or higher. Version 3.2: Some extra text have been introduced. In this case enter in the preferences of your antivirus software and add the .EXE in its exclusion files or temporary deactivate the Antivirus. Two stiffening brackets are shown in the plane of the plate and transversal to it are considered. You can download the paper by clicking the button above. Loading PreviewSorry, preview is currently unavailable. The front and lateral welds are verified considering the EN 1993-1-8. Design of a lifting padeye with stiffeners The worksheet verifies a lifting padeye provided with stiffening brackets and cheek plate loaded with a sloped force. You can download a trial version of this spreadsheet for evaluation purpose. Answer to Chris Nay: The key is in the text file you've downloaded. Many sections are reported with the dimensioning verifications: Geometry definition and dimensional requirement checks. Answer to comments below: Answer to Mechanic: can you describe me the problem? Safe Working Load, SWL Spreading Length Safety Factor in Compression Yield stress of the Beam material Allowable Tensile Stress Elastic Modulus of the material (A) Design for Normal Stress (Direct Compressive Stress) ***- Selecting the Section initially based on this ***- (B) Design for Elastic Stability - Transverse Buckling (1) (C) DESIGN OF ATTACHMENTS - (a) Design of eye bracket for strength (a-i) Design of eye bracket for tensile strength - FAILURE MODE - 1 (allowable tensile stress is governing) (a-ii) Design of eye bracket for bearing/crushing strength - FAILURE MODE - 2 (80% of the yield stress is governing) (a-iii) Design of eye bracket for tearing strength - FAILURE MODE - 3 (50% of the yield stress is governing) (a-iv) Design of eye bracket for shear strength (50% of the allowable tensile stress is governing) (a-v) Design of eye bracket for out-of-plane buckling - FAILURE MODE - 4 (as per David T. It activates the file for a limited use. Ricker, PE, AISC Engineering Journal, Fourth Quarter/1991 and its updating to 2005 AISC Manual of Steel Construction (click here to download it). Many sections are reported with the dimensioning verifications: Geometry definition and requirements check in compliance with the prescriptions reported in the reference document Materials definition Verification of the failure modes of the lug to: Tensile Rupture of Lug, Bearing Capacity of the Lug, Shear Yielding to Edge of Plate, Tension Tear Out to Edge of Plate Verification of fillet welds of the composed elements: main plate, stiffening brackets (vertical and bottom sections) cheek plate Useful graphical views of the geometry of the padeye are foreseen for a better definition of the configuration and dimensioning parameters. Metric (S.I.) or English (U.K.) Units System can be selected for the calculation. Version 3.0: Added English Unit System. Lifting Lug subjected to a load with given slope Lug with an applied force having an assigned sloped angle and eccentricity with respect to the hole. Ricker (1) (a-v) Design of pin for shearing strength - FAILURE MODE - 5 (50% of the yield stress of the pin is governing) (b) Design of weld joint of the lug with other plates for shear strength (50% of allowable tensile stress is governing) (c) Design of end plates of the adjustable bracket for tensile strength (allowable tensile stress is governing) (d) Design of weld joint for the bottom plate of the adjustable bracket for shear strength (50% of the allowable tensile stress is governing) (e) Design of end plates of the adjustable bracket for bearing/crushing strength - FAILURE MODE - 6 (80% of the yield stress is governing) (f) Design of lug on the bracket for tearing strength - FAILURE MODE - 7 (50% of the yield stress is governing) (g) Design of lug on the bracket for out-of-plane buckling - FAILURE MODE - 4 (as per David T. See video PART 1. (version 1.0) See video PART 2. (version 2.0) The Part 2 contains the new verification worksheets included in the version 2.0 (lifting padeyes with stiffening brackets and lugs with overlapping plate joint). The spreadsheet you will purchase and receive is an excel file compiled in a ".EXE" application file format identified by our icon image. Version 3.1: Updated picture in sheet 2 with reference signs. The trial spreadsheet is fully working with the following limitations: A pin diameter of 20 mm (≈ 0.79 in) is fixed and it cannot be modified. It is not possible to open/save external spreadsheets when it runs Excel toolbar is not visible Print function is disable Copy and paste functions are disable Save function is disable What you will find in the full version No expiration date. No limit for pin diameter It is possible to open/save external spreadsheets when it runs Excel toolbar is visible Print function is available Save function is available Copy and paste functions are available For support and questions contact us. Ricker (2) (a-v) Design of shackle ring for shearing strength - FAILURE MODE - 5 (50% of the yield stress is governing) (b) Design of weld joint of the eye-bracket with the spreader beam for shear strength (50% of the allowable tensile stress is governing) DESIGN OF ADJUSTABLE SPREADER LIFTING BEAM of Standard Profile "HEB Series" Geometry of Lifting at the each end of the HOLLOW PIPE Spreader Beam. Solved using the equations of Static Equilibrium and the DESIGN OF ATTACHMENTS. (C) Design of end plates of the adjustable bracket for tearing strength (allowable tensile stress is governing) (d) Design of end plates of the adjustable bracket for bearing/crushing strength - FAILURE MODE - 6 (80% of the yield stress is governing) (e) Design of lug on the bracket for tearing strength - FAILURE MODE - 7 (50% of the yield stress is governing) (f) Design of lug on the bracket for out-of-plane buckling - FAILURE MODE - 4 (as per David T. It activates the file for a limited use. Ricker, PE, AISC Engineering Journal, Fourth Quarter/1991 and its updating to 2005 AISC Manual of Steel Construction (click here to download it). 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React map object as array? See Activation/Support page for more information. See the Activation/Support page for more details. Make Your GitHub Profile Standout To Attract Better Opportunities Whether to clone an object for a prototype Why does the DOMParser cease to exist outside of this if-statement? The file seems to work. Minor corrections. Please for any technical question use the specific email contact form. After key validation, the runs count starts on your machine and a window is displayed at each launch with the remaining runs count. When the runs count reaches 0, the application will be disabled. The .EXE file should be installed on a computer with Windows 7 or higher. Version 3.2: Some extra text have been introduced. In this case enter in the preferences of your antivirus software and add the .EXE in its exclusion files or temporary deactivate the Antivirus. Two stiffening brackets are shown in the plane of the plate and transversal to it are considered. 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