

WHY DO FASTENERS FAIL? AND HOW CAN YOU PREVENT IT?

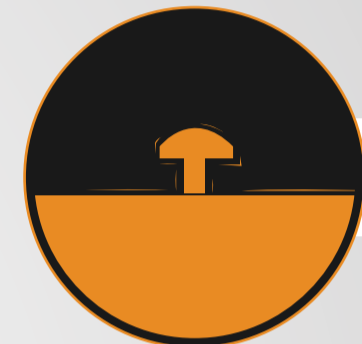


MAIN CAUSES OF FASTENER FAILURE

SHEAR



FATIGUE/VIBRATION



OVERLOAD



DEFECTS



CORROSION



INCORRECT
INSTALLATION



FACTORS EFFECTING FASTENER FAILURES

Fastener Design
Material Selection
Cutting/Rolling Threads
Heat Treatment
Assembly

CONSIDERATIONS FOR PREVENTING FASTENER FAILURE

Specify the right fastener for the specific application

Application

Material

Select the proper grade and strength material for the fastener

The clamping force should be appropriate for the fastener material & diameter

Clamp
Force

Installation

Ensure that proper installation guidelines are followed

Regular fastener inspections should be conducted to identify possible joint failure

Fastener
Inspection

Swagefast