Williams All-Thread Bars are more economical than heavier ASTM A36 upset threaded rods. All-Thread Bars are usually on the order of 10-30% less expensive than A36 tie rods when bar comparisons are based on equivalent ultimate strengths. Not only are the bars less expensive but since the bars are smaller they are lighter. Additional savings result with smaller connectors, protective coatings and material freight. The bars below are shown in sizes relative to each other and have approximately equal yield strength.