



One Tough PUPI™

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PUPI® Crossarm Bolt Hole Torque Strength

- Tested with 4" galvanized square steel washers on each side of hole except for 2" square washers on 2" side of PUPI 2"X 4" arm
- 5/8" diameter bolts through 11/16" diameter holes and 3/4" bolts through 13/16" diameter holes.
- SAE Grade 5 bolts as used in PUPI products
- 36" long torque wrench used for these tests

PUPI with internal fiberglass bushings at bolt holes

- All crossarms exceed the 450 ft-lbs capability of the test.

PUPI without internal bushings

Series 1000 2.10" X 4.04"

- 11/16" hole through 4.04" side: 150 ft-lbs
- 11/16" hole through 2.10" side: 200 ft-lbs (2" square washer)

Series 2000 3.625" X 4.625"

- 11/16" hole through 4.625" side: 110 ft-lbs
- 11/16" hole through 3.625" side: 180 ft-lbs

Series 2500 3.625" X 4.625"

- 11/16" hole through 4.625" side: 125 ft-lbs
- 11/16" hole through 3.625" dimension: 185 ft-lbs

Series 3000 3.625" X 4.625"

- 11/16" hole through 4.625" side: 165 ft-lbs
- 11/16" hole through 3.625" side: 200 ft-lbs

Series 4000 4.00" X 6.00"

- 11/16" hole through 6.00" side: 100 ft-lbs
- 11/16" hole through 4.00" side: 225 ft-lbs
- 13/16" hole through 6.00" side: 100 ft-lbs
- 13/16" hole through 4.00" side: 225 ft-lbs

Notes:

- PUPI crossarms without bushings have higher bolt hole crush resistance than comparable fiberglass crossarms from competitors.
- Adding the PUPI patented internal fiberglass bushings makes PUPI crossarms virtually indestructible to crushing by applying torque to bolts.