Tinius Olsen offers a wide variety of tools and accessories for testing bolts, nuts and threaded fasteners in accordance with ASTM methods A194, A370, F606 and other applicable ASTM, SAE, IFI and Military specifications. The unique design of these tools eliminates the need for switching slotted bolt holders which can become heavy and cumbersome. They also eliminate the need to piggyback holders, i.e. attach a smaller slotted bolt holder to a larger one which is attached to the crosshead. This design can also help to reduce the need for increased tension test space which can be expensive and totally impractical.

Standard tooling is available for fasteners in sizes up to 1½ in and M39 with components rated for 175,000 psi (1,200 MPa) stress based on the tensile stress area of the specimens. Short bolts with a length as short as two times the diameter can also be tested with this tooling.
Typical Fastener Tooling Configurations

Fig. A
BOLT TEST
(short or neg. length test)  
(short = 2 x dia.)

Fig. B
BOLT TEST
(short length test)  
(length = 1 x dia.)

Fig. C
BOLT TEST
(length test)  
(short = 4 x dia.)

Fig. D
BOLT TEST

Fig. E
BOLT TEST
(short or neg. length test)  
(short = 3 x dia.)

Fig. F
BOLT TEST

Fig. G
BOLT WEDGE TENSION TEST

Fig. H
STUD TEST

Fig. I
STUD WEDGE TENSION TEST

Fig. J
BOLT WEDGE TENSION TEST

Fig. K
STUD TEST

Fig. L
STUD TEST

Fig. M
STUD WEDGE TENSION TEST

Specifications subject to change without notice

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