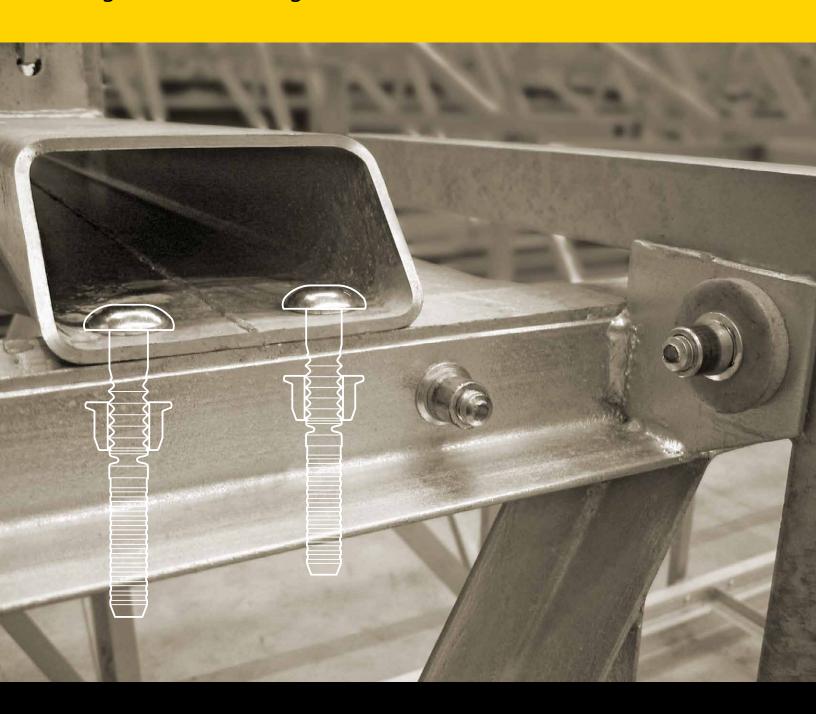
# **STANLEY**Engineered Fastening



Lockbolt Systems



# **Lockbolt Systems**

Lockbolt Type Diameter, Material

#### **Features and Benefits**

Typical Cross Section

#### **NeoBolt®**



High strength, unmatched vibration resistant lockbolts without pin break for heavy duty structural applications, providing a collar 'fit-up' feature for easy pre-assembly.

3/16" - 1" (4.8 mm – 25.4 mm) Steel

#### No Pin Break:

- No metal waste, eco-friendly
- No dropped stems improving working area safety
- Avoid corrosion at stem break point (vs. traditional lockbolts)
- Reduced pin size and weight for lower warehousing and shipping cost

#### **Maintenance Free:**

• No torque or re-torque is required

#### **Fast & Shockless Installation:**

- Reduces operator fatigue and installation noise
- Fine pitch pin groove design for superior vibration resistance vs. traditional lockbolts and nut & bolt settings
- Collar 'fit-up' feature for easy pre-assembly of the joint, ideal for upside-down installation
- Radial bar indicators on collar for quick visual swage inspection upon placing



#### Avdelok®



High strength, vibration resistant lockbolts with high controlled clamp.

3/16" - 3/8" (4.8 mm – 9.6 mm) Aluminium, Steel, Stainless steel

- High shear strength for high strength assembly
- High controlled clamp provides excellent vibration resistance
- Quick to install across a wide range of applications
- Wide choice of materials, sizes, head styles and collar options to suit a wide variety of applications
- Easy to inspect for tampering
- High security tamper resistance TIR approved
- Steel Avdelok pins typically offer comparable values to property class 5.8 threaded products
- Robust and rugged installation tools





Large diameter lockbolt for heavy engineering applications.

1/2" - 1-1/8" (12.7 mm – 28.6 mm) Steel

- Exceptional shear and tensile strength provides consistent high performance, required in load-bearing structural applications
- Excellent vibration resistance
- High security tamper resistance TIR approved
- Tolerates variation in joint allows angled installation up to 7°
- Quick and easy to install requires minimum skill labour
- Simple installation tooling eliminates the cost of calibration and reduces maintenance
- Consistent installation prevents rework and associated costs
- Simple visual inspection for quality assurance joints
- Installed Avdelok XT fasteners provide a minimum shear, tensile and pre-load strength which is equivalent to or exceeds ISO898-1 property class 8.8 or ASTM A-325 standards





#### Lockbolt Type Diameter, Material

#### **Features and Benefits**

### Typical Cross Section

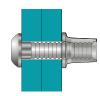
#### Maxlok®



High strength, vibration resistant lockbolts with multi-grip capability.

3/16" - 1/4" (4.8 mm – 6.4 mm) Aluminium, Steel

- Wide grip range reduces inventory, simplifies stock control, and accommodates wide variations in material thickness
- High shear strength for high strength assembly
- High, controlled clamp provides excellent vibration resistance
- Wide range of special purpose installation tools
- Quick to install across a wide range of applications
- Brazier, countersunk, mushroom and truss head styles suit a wide variety of applications
- Easy to inspect tampering
- High security tamper resistance TIR approved



#### Avtainer®



High strength, steel fastener and shell designed for joining composite panels to metal.

3/8" *(10.0 mm)* Steel

- Prevents cracking and pull through of composite materials
- Ideal for the assembly of GRP vehicle panels
- High shear strength for high strength assembly
- Underhead Santoprene® seal for a water/air tight joint
- Internally locked stem provides a secure, vibration resistant joint
- Low profile head and shell give a neat appearance
- Smaller shell size available for use against metal surfaces
- Optional encapsulated heads to match the surrounding colour
- Easy to inspect for tampering
- High security tamper resistance TIR approved



#### Avbolt®



The Avbolt structural fastener is a high strength, tamper resistant, blind steel fastener designed for use in heavy-duty structural applications. It offers a high tensile and shear strength normally only possible with non blind lockbolts and combines it with the installation speed of blind products.

3/16" - 5/8" (4.8 mm – 16.0 mm) Steel

- Use on blind sided application
- High tensile and shear strength for heavy-duty applications
- Wide grip capability suits a variety of material thicknesses
- Ideal for areas with restricted access
- Locking feature creates a vibration resistant joint and prevents loose stems
- · Fast installation
- High security tamper resistance TIR approved
- Simple tooling requires only minimum operator skill



## **Lockbolt Systems**



### **Installation Tools**

#### Genesis® nG4

Versatile lightweight pneumatic/ hydraulic power tool capable of placing Avdelok® and Maxlok® lockbolts up to 1/4" (6.4 mm), and 3/8" (10.0 mm) Avtainer®. High force to weight ratio and innovative ergonomic design delivers maximum user efficiency and comfort.



#### Genesis® nG3 LB

Lightweight pneumatic/hydraulic power tool for the reliable placement of NeoBolt® lockbolts 3/16" (4.8 mm) and 1/4" (6.4 mm).



#### 73200 Model

The hydro-pneumatic 73200 tool is designed to place NeoBolt® lockbolts 5/16" (8.0 mm), Avdelok®, Maxlok® and Avtainer® lockbolts up to 3/8" (10.0 mm) as well as Avbolt® fasteners up to 5/16" (8.0 mm). Featuring an innovative patent protected hydraulic design and using the latest sealing and guiding technology, this new tool delivers unmatched fastening efficiency and dependability.

#### 7287 Model

Hydro-pneumatic split tool with a lightweight placing head able to place NeoBolt® lockbolts 3/8" (9.6 mm), Avdelok® and Avtainer® lockbolts up to 3/8" (10.0 mm), Avbolt® fasteners up to 5/16" (8.0 mm), and all other lockbolts up to 5/16" (8.0 mm).



#### **AV™** Series Tools

The AV hydro-electric power tool line is capable of setting all Avdelok® and Avdelok® XT lockbolts from as small as 3/8" (9.6 mm to as large as 1-1/8" (28.6 mm). It also has the flexibility needed to set NeoBolt® lockbolts 1/2" (12.7 mm) up to 1" (25.4 mm) and Avbolt® sizes 5/16" (8.0 mm) through 5/8" (16.0 mm).



#### **Enerpac® PRO Series Pumps**

**STANLEY Engineered Fastening** has partnered with Enerpac, the World Leader in Hydraulic Equipment to offer a specialised selection of reliable, durable and versatile high-pressure hydraulic pumps to power all AV™ Hydro-**Electric Power Tools.** 



### **STANLEY Engineered Fastening**

www.StanleyEngineeredFastening.com

**STANLEY Engineered Fastening** 4 Shelter Rock Lane Danbury, Connecticut 06810 **United States** 

Tel. 877 364 2781 Fax. 800 225 5614 **STANLEY Engineered Fastening** 1030 Lorimar Drive Mississauga, Ontario L5S 1R8 Canada

Tel. 800 268 9947 Fax. 800 594 7661 **STANLEY Engineered Fastening** Av. Antonio Dovali Jaime No 70 Torre B. Piso 9 La Fe. Santa Fe Mexico, D.F. 01210

Tel. +52 55 5326 7100 Fax. +52 55 5326 7141