



Vogelsang Fastener Solutions is a **world-wide leading manufacturer of formed metal parts** and one of the **world's largest producers of spring pins**, (Rollpins® both slotted and coiled), Tension Bushings and tubular spacers.

COMPRESSION LIMITERS (CL)

For any plastic component that requires bolting. Compression Limiters are used to ensure that the polymer will not crack from the bolt tension but will still retain the plastic part to its mate.

Typical Uses:

Airbag assembly boxes, Electric modules of all kinds, Front bumpers, Fuel pedal assembly, transmission pans, Oil pans, Manifolds, Valve covers, Water pumps, Motor inlet attachments.

Features:

Knurling, Grooves, Dimples, Holes. Slot Types: Straight, Wavy, Special. Slot Opening: V open inside, V open outside, closed. Flanged/Headed. CL Shapes: Round, Square, Rectangular, Oval, Triangular.

Length Tolerances: tightest to +/-0.05mm.

SPECIAL PINS & AUTOMOTIVE SPRING PINS (ASP)

We design a variety of products to solve for a variety of applications. ASP's are typically used in auto-feed mechanisms so the slot designs are engineered to prevent interlocking.

Advantages/Applications:

Flanged Pins for Hinge mechanisms

Displace more expensive Coil Pins where automatic insertion is involved that require plating.

The plated Coil Pins offer inferior corrosion protection due to inner layers having no real plating.

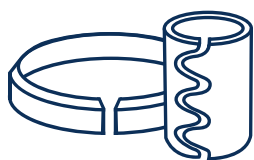
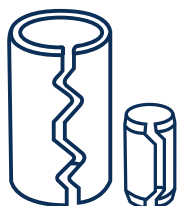
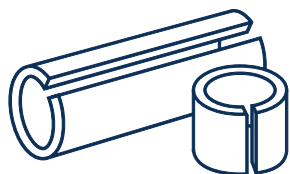
Unique "tooth" designs, various material thicknesses, chamfers, etc.

TENSION BUSHINGS

Vogelsang Tension Bushings are cost-effective bearings used as wear products to allow smooth pin/shaft rotation, and protect the surrounding structure of the rotating attachment such as a backhoe bucket.

Advantage/Application

Designed to replace solid steel (tubular) and case hardened parts, with ease of removal and replacement. Ideal for high-load/low- RPM operations, in harsh, non-lubricated environments Hydraulic cylinder rod/clevis ends, forklift forks, backhoe shovel, and skid steer attachments. Styles include "wavy", and "straight" slot configurations



MASTER STOCKING DISTRIBUTOR

ADVANCE
COMPONENTS

advancecomponents.com

974-446-5500





Vogelsang's product development and quality control meet the highest standards for precision, material properties and mechanical characteristics. Our worldwide reputation for quality is recognized by our certification to international standards.

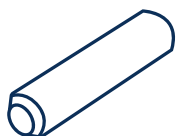
GROUND SOLID PINS

Typical Uses:

Powertrain areas with a dynamic load

Advantage/Application

For Motors & Transmissions. High shear force without any movement off the located parts to each other.



HOLLOW GROUND SLEEVES

Typical Uses:

Motor, Transmission locators, Cylinder Head to Block Locators, Flywheel or Flex Plate to Block Locators, Multiple Transmission Mechanism Locators

Advantage/Application

Extremely tight diameter and length tolerances Displace solid locator pins in a static load condition

(significant weight and cost reduction) whereas the solid pin is simply being used to locate parts together, but do not need to support a dynamic load.



**YOUR TRUSTED PARTNER
FOR ALL TUBULAR FASTENER NEEDS.**

STANDARD COIL PINS

ASME/ISO standards

Features:

Fractional ASME B.18.8.2-2000

Carbon

302/304 (18-8) Stainless Steel

420 Stainless Steel

Multiple coating options

Metric

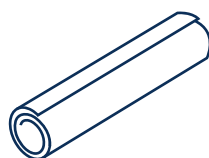
ISO 8748 Stainless

Medium and Heavy Duty

ISO 8750 Carbon

Medium and Heavy Duty

Multiple coating options



STANDARD SLOTTED SPRING PINS

ASME/ISO standards

Features:

Fractional ASME B.18.8.2-2000

Carbon

302/304 (18-8) Stainless Steel

420 Stainless Steel

Multiple coating options

Metric

ISO 8752-1998 Standard Duty Metric

Carbon & Stainless (18-8)

ISO 13337-1997 Light Duty Metric

Carbon & Stainless (18-8)

Multiple coating options



MASTER STOCKING DISTRIBUTOR

ADVANCE
COMPONENTS

advancecomponents.com

974-446-5500