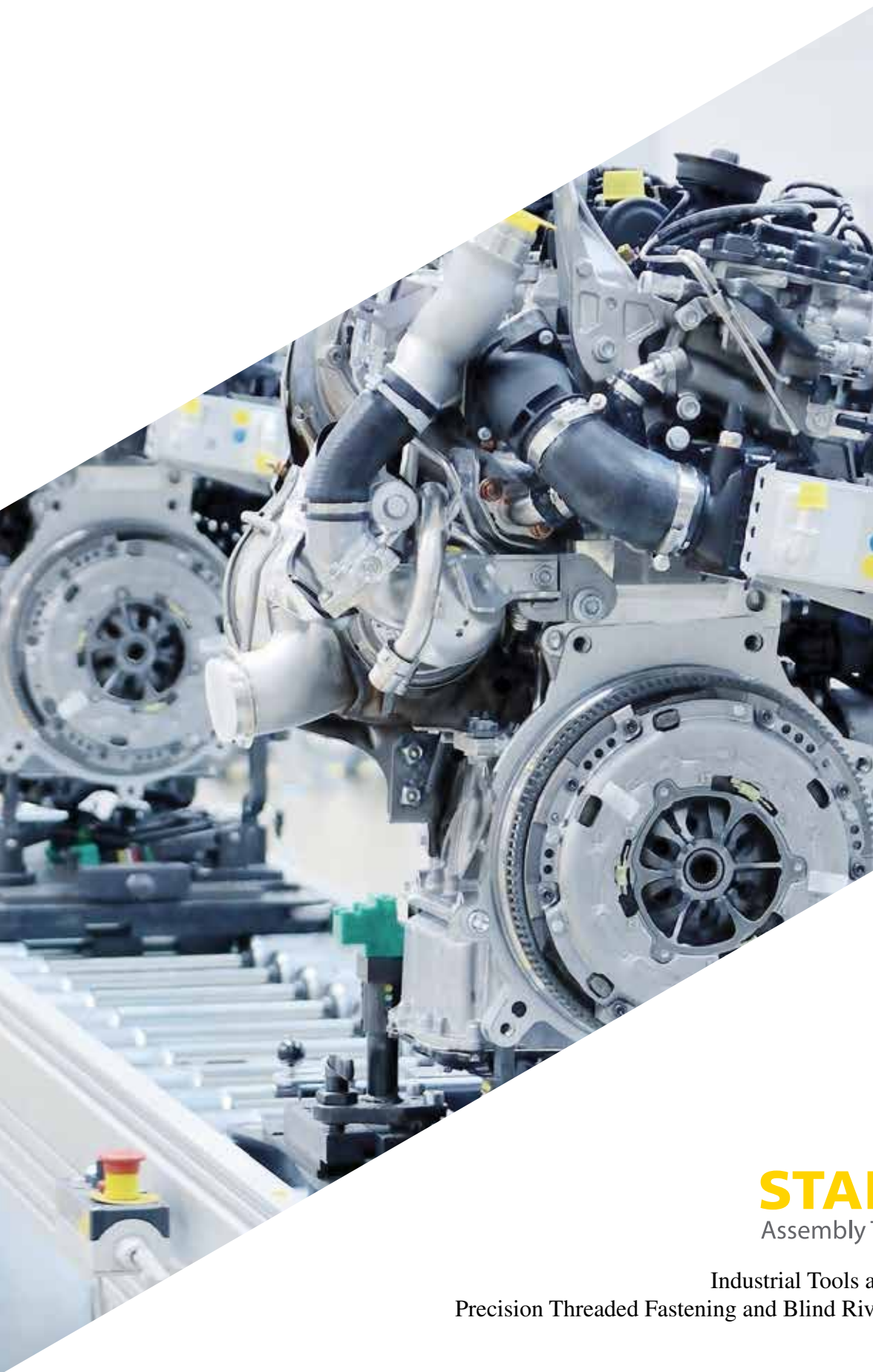


STANLEY
Engineered Fastening



STANLEY
Assembly Technologies

Industrial Tools and Systems for
Precision Threaded Fastening and Blind Rivet Applications



Stanley® Engineered Fastening is committed to helping our customers

- Improve production speed and quality by delivering application solutions that are fit for purpose and tailored to production ergonomics
- Deliver outstanding value to the end-customer by offering fasteners and installation equipment that demonstrate lowest total cost of ownership

The highly engineered Stanley® Assembly Technologies range includes:

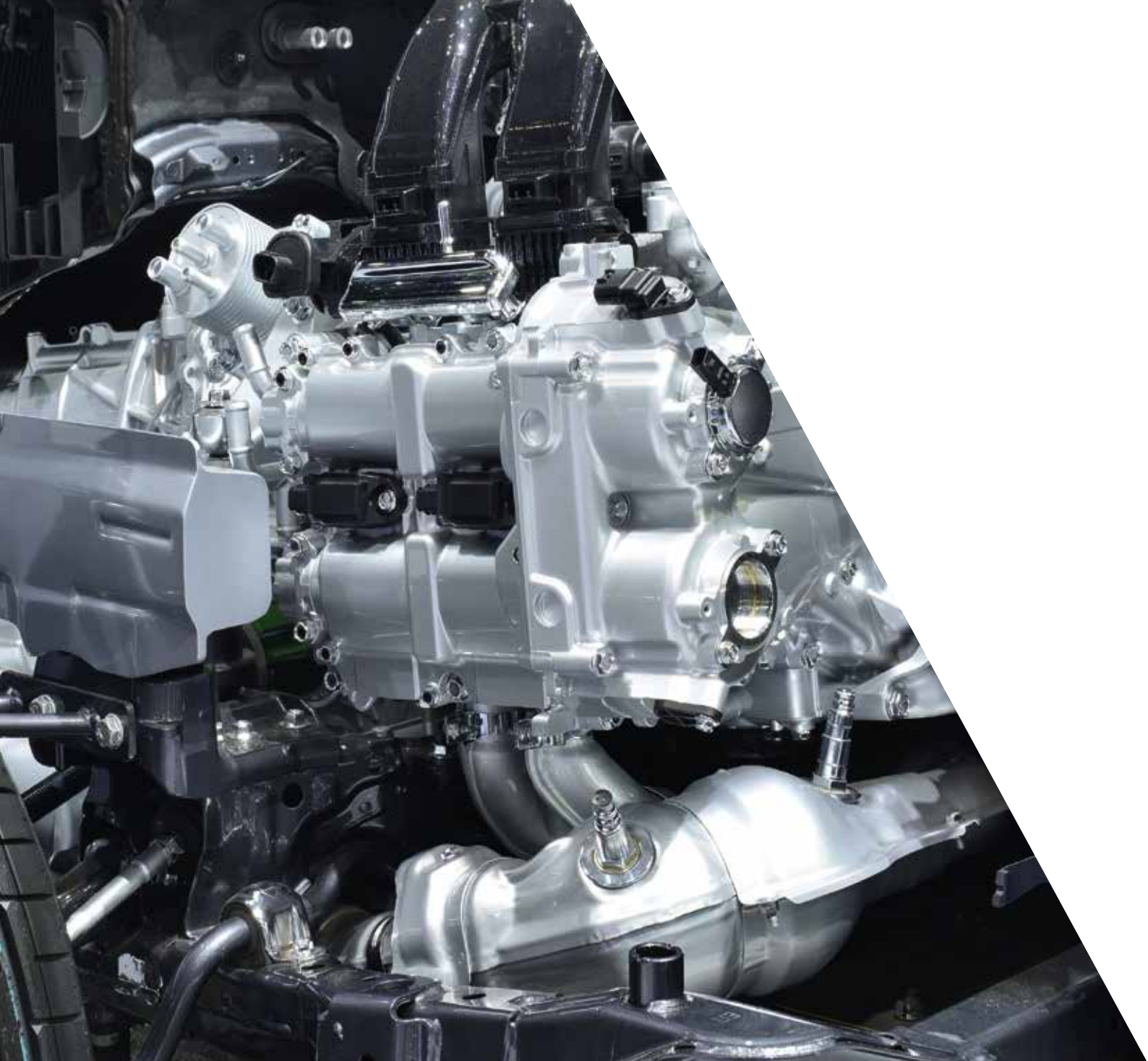
Precision Threaded Fastening Equipment

- Electric assembly tools
- Pneumatic assembly tools
- Controllers and software
- Engineered assembly solutions

Blind Fastening Equipment

- Rivet tools
- Lockbolt tools
- Speed Fastening® tools

To serve the complex needs of industrial and automotive manufacturing, installation equipment from Stanley Assembly Technologies can be fully customized with varying degrees of automation, error proofing and data capture.



Stanley Engineered Fastening also offers a class-leading range of fasteners. Our engineering expertise in delivering a complete application solution helps our customers to reduce complexity in the assembly process and improve production efficiency.

STANLEY ENGINEERED FASTENING FAMILY OF BRANDS

AVDEL **INTEGRA** **NELSON** **OPTIA** **POP** **STANLEY**
Assembly Technologies

Precision Threaded Fastening Equipment

Cordless Assembly Tools

Ideal for tight access, overhead or below dash and anti-mar situations. The range also includes innovative inline, right angle, pistol, push-to-start, and wireless features.

The New B33L Angle Lever Tool model features a high speed, balanced design with best-in-class durability and reliability.

- Audible and visible operator feedback features
- Built in wireless controller (storing 500 cycles)
- Torque application from 14 to 95 Nm
- Speeds from 1698 to 237 RPM
- Powered by DeWALT battery pack and fast charger



Corded Assembly Tools

Fixtured and Handheld DC Electric Tools with precision torque application and exceptional durability, delivering high performance up to 1 million cycles.

- Traceability and error proofing
- Torque application from 0.8 to 2000 Nm
- Redundant transducer for power train applications
- Industry leading power to weight ratio
- Fixtured units offer opportunity for integrator collaboration



Pneumatic Assembly Tools

AA Series pneumatic nut runners are an industry leading range of clutch shut off tools.

- Adjustable clutches
- Torque application from 4.5 to 118 Nm
- Output torque control provides a smooth disengagement and minimal vibration
- Gearless reverse selection method reduces parts and complexity



Specialty Geared Head Design

Stanley Assembly Technologies offer more than 500 specialty head designs and can also customize according to customer specification.

- Outputs matched to the tool optimizes performance
- Torque levels from 3 to 1250 Nm
- 4 Output Styles:





Caterpillar use Stanley Assembly Technologies engineered assembly solutions to achieve reliability and production efficiency in high torque applications.

Controllers and Software

QBE Controllers.

Industry-leading advanced process control, system configuration flexibility, ease of set-up options, and exceedingly high performance.

The QBE Controller platform includes options that are based on our customer's requirements and set the standard for precision threaded fastening control.

- Improved connectivity and options including simplified controls to a large touchscreen, color display and keypad, depending on the customer requirements and the model chosen
- Alpha Toolbox included in every QBE Controller - used to program strategies, collect fastening cycle and trace data, and perform online diagnostics
- Onboard Diagnostics provide all the data required for hardware, software and fastening cycle analysis
- All controllers have an Ingress Protection rating of IP 54



Engineered Assembly Solutions

Custom solutions are matched to unique assembly needs using extensive engineering experience, a complete line of DC and Pneumatic assembly spindles, process controllers and tightening strategies.

Available features include:

- Automated and semi-automated tool handling
- Multi-spindle synchronization for simultaneous assembly
- Cycle complete operation
- Absorption of reaction torque up to 5,000 Nm
- Operator feedback with error-proofing options
- Data collection and interface with plant control systems



Blind Fastening Equipment

Stanley Assembly Technologies offer both cordless and hydropneumatic equipment to install rivets, lockbolts, sealing plugs and Speed Fastening®, with varying degrees of automation.

Cordless Blind Rivet Tools

ProSet® PB3400 is a lightweight and powerful tool with excellent ergonomics and long runtime.

- Ensures high productivity and fast return on investment with very low installation cost
- Durable brushless motor that requires minimal maintenance
- 1,000 Ø6,4 mm structural blind rivets per charge
- Pull force 18 kN



Hydro-pneumatic Blind Rivet Tools

ProSet® XT tool line has class-leading lightweight construction with balanced handling.

- High force-to-weight ratio
- Quick disconnect nose housing and jaw case for easy maintenance and service
- Clear quick release mandrel collector bottle reduces downtime
- Pull force at 5.5 bar 17.0 kN



Hydro-pneumatic Split Tools

High power 7287 model installs large blind fasteners with single pull action.

- Installs structural blind rivets up to ř 10 mm, as well as lockbolts and Avseal® sealing plugs
- Short cycle time can increase assembly capacity
- Lightweight placing head reduces operator fatigue
- Remote intensifier mounted on casters for flexible use in the assembly line
- Pull Force at 5.5 bar 32.4 kN



Vertical Riveting Tool

HTB 500 has been specifically designed for vertical riveting in high volume production.

- Hydraulically operated processing equipment for gentle and reliable rivet joints
- Separate supply unit contains pneumatic control and the pneumatic-hydraulic pressure intensifier and remote rivet stem collector
- Trigger is integrated in the ergonomic handhold at the equipment barrel
- Pull force at 6.0 bar 26 kN



Lockbolt Tools

The Cordless PB2500N NeoBolt® tool offers unrivaled mobility on the jobsite – replacing heavy compressors and hoses with a small battery tool.

- Ergonomic design, minimizes fatigue & improves application access
- High power output – 8.9kN
- 25mm stroke
- Rapid placing, saving time and money



Speed Fastening® Tools

Hydraulic hand tools or workstation options are available. 7539 Vertical Work Station can place the entire Avdel Speed Fastening® range.

- Provides easy tool handling, and fatigue-proof operation
- Easy integration into production line – only requires air supply
- Smooth hydraulic riveting unit, ideal for sensitive components





AVDEL

Structural Blind
Fasteners

INTEGRA

Plastic Components

NELSON

Stud Welding

OPTIA

Threaded Fasteners

POP

Non-structural
Blind Fasteners

STANLEY
Assembly Technologies

Specialist Assembly

TUCKER

Automated
Fastener Systems



STANLEY
Engineered Fastening

Stanley Engineered Fastening — a division of Stanley Black and Decker — is the global leader in precision fastening and assembly solutions. Our industry-leading brands, Avdel®, Integra™, Nelson®, Optia™, POP®, Stanley® Assembly Technologies, and Tucker®, elevate what our customers create. Backed by a team of passionate and responsive problem-solvers, we empower engineers who are changing the world.

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