

Dzus Fasteners Bulk Order Guide: Types, Sizes, MOQ, and Lead Times

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Key Takeaways

093 - Phillips Pan Head Self-Tapping Screw — GB/T 845 □ ISO 7049 (Series 032) — GB/T 845 □ ISO 7049

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- Dzus fasteners use a quarter-turn spring-loaded mechanism for quick panel access, available in several stud diameters and head styles.
- Correct sizing requires measuring total panel stack-up and selecting a stud within the manufacturer's grip range.
- Dedicated installation tools (dimpling dies, transfer punches, spring drill fixtures) are necessary for accurate and repeatable assembly.
- Bulk orders are quoted per piece or per thousand, with volume tiers, VMI programs, and annual agreements available to reduce total cost.
- Standard materials include zinc-plated steel, stainless steel, and brass; verify corrosion resistance requirements with the supplier.

How Bulk Ordering Works for Dzus Fasteners

094 - Phillips Pan Head Machine Screw — GB/T 818 □ ISO 7045 (Series 033) — GB/T 818 □ ISO 7045

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How do you source a large, consistent supply of Dzus quarter-turn fasteners that meet your production line's exact specifications? The process begins with a streamlined procurement model built around volume requirements, predictable lead times, and flexible logistics. Whether you need standard 82-series studs or custom-configured receptacles, a specialist fastener manufacturer provides the repeatability and documentation that OEM and MRO operations demand.



► Watch video: <https://www.youtube.com/watch?v=9wf4j1dnIAw>

Installing Dzus Fasteners — by HomebuiltHELP on YouTubeA demonstration of installing the popular Dzus quarter-turn fastener. These are popular on homebuilt aircraft inspection doors,u00a0...

Dzus fasteners—a widely used brand of quarter-turn quick-release fasteners—are integral to automotive body panels, aerospace access doors, and industrial enclosures. Bulk ordering involves close collaboration on part number selection, volume forecasting, and supply chain integration rather than transactional purchasing.

Minimum Order Quantities and Volume Tiers

MOQs vary by part number and are typically structured around production efficiency. For high-volume items like zinc-plated steel studs in common 82-series sizes, minimum orders often start in the low thousands of pieces. Less common variants—such as large size 85 or size 9 studs, custom grip lengths, or stainless steel with passivation—may have lower MOQs but higher unit costs. Fasteners are generally quoted per thousand pieces (per M) or by weight, depending on the profile.

Volume tiers unlock progressive pricing: orders surpassing 25,000 pieces can attract discounts of up to 15%, while 100,000-piece runs may qualify for dedicated production slots. Mixed orders with multiple part numbers are often consolidated, with the total quantity used to determine the tier. Installation tools like Dzus wrenches and spring drill fixtures carry separate MOQs, typically lower due to their durable, single-order nature.

Production Lead Times and Scheduling

Standard catalog items—such as size 6 slotted-head studs or matching spring receptacles—usually ship within three to five weeks from order confirmation. Made-to-order configurations, including special finishes (e.g., black oxide), non-standard alloys, or unique hole-spacing receptacles, extend lead times to seven to ten weeks. Production scheduling considers current capacity, raw material availability, and the complexity of secondary operations like heat treatment or plating.

For repeat orders of established part numbers, manufacturers often pre-reserve machine time, reducing delivery to as little as two weeks. Buyers are encouraged to share annual forecasts to secure capacity during peak demand periods.

Packaging, Palletization, and Shipping

Fasteners are packed to protect their surface integrity and prevent mixing. Standard options include heavy-duty corrugated cartons (typically 5,000–10,000 pieces per box), plastic-lined fiber kegs for small-diameter studs, and bagged assortments when multiple lengths are included. Studs and receptacles are sealed separately to avoid scratching, and spring assemblies are secured with foam separators.

For export, orders are palletized on ISPM 15-compliant heat-treated pallets, stretch-wrapped, and corner-protected. Full container loads (20-ft or 40-ft) are the norm for intercontinental shipments; LCL consolidation is available for smaller volumes. Labeling follows your specifications, including barcoded part-number stickers and handling instructions.

Incoterms, Payment, and Documentation

International orders are typically quoted under EXW, FOB, or CIF Incoterms, with the choice depending on your logistics preference. Payment terms are commonly T/T 30% in advance, 70% against shipping documents, or irrevocable L/C at sight for larger contracts. Documentation packages include commercial invoice, packing list, certificate of origin, and—when required—material test certificates (EN 10204 type 3.1 or 2.2) and inspection reports. For aerospace-grade Dzus fasteners, batch traceability records are maintained and supplied to support compliance.

Reordering, Forecasting, and Supply Agreements

Long-term partnerships are supported through blanket purchase orders and call-off schedules. A vendor-managed inventory (VMI) arrangement can be set up: the supplier holds safety stock of your most-used Dzus fastener part numbers at a nearby warehouse and releases quantities on demand, invoicing only what you draw. This model eliminates stock-outs and reduces your internal warehousing costs.

Forecast sharing, even at a rolling 12-week horizon, allows the production team to stage raw material and prioritize your orders. Annual supply agreements often include price-fixing clauses that protect against raw material volatility, particularly for stainless steel and brass components.

Request a Bulk Quotation for Dzus Fasteners

To receive a tailored proposal, provide your target part numbers or technical drawings, required annual quantity, and desired delivery schedule. Specify any necessary certifications, packaging preferences, and preferred Incoterm. Our engineering sales team will respond with a detailed quotation covering unit pricing, tooling availability, and a production timeline.

Dzus Fastener Types: Choose the Right Quarter-Turn Solution

Dzus fasteners (also called quarter-turn fasteners) secure panels, access doors, and cowlings with a simple 90-degree rotation. Common in motorsport, aviation, and industrial enclosures, these fasteners reduce assembly time and eliminate loose hardware.

The primary categories are defined by the spring receptacle style and stud head design.

- **Standard Dzus series:** The 82 series (medium size) and 85 series (large size) are the most common for general [sheet metal](#) and fiberglass applications. Smaller series 81 and sizes 3 through 9 cover light-duty and miniature work.
- **Head styles:** Slotted, hex (Allen), wing, and flush heads allow tooled or manual operation. Slotted heads accept a flat-blade tool; hex heads use a 3/16" wrench for higher torque. Flush heads sit below panel surface for aerodynamic profiles.
- **Material options:** Steel with zinc plating offers corrosion resistance at a budget; stainless steel (often 304 or 316) suits marine and food-grade environments; brass is used for anti-spark or decorative requirements.
- **Stud types:** Press-in, flare-in, and clip-on studs address different panel thicknesses and installation constraints. Press-in studs require a dimpled hole; clip-on studs need no permanent panel modification.
- **Receptacles:** Standard spring steel receptacles provide retention force. High-retention versions prevent vibration loosening. Rivet-on and bolt-on plates accommodate various mounting surfaces.

Key Facts on Dzus Fasteners: Quarter-turn actions lock with a spring-loaded cam. Stud diameter and length must match total panel thickness plus receptacle depth. Always verify the grip range: too short fails to engage, too long allows over-rotation. Standard finishes: zinc, chrome, black oxide, passivated stainless.

Sizing Dzus Fasteners: Dimensions, Series, and Designation

Sizing a Dzus fastener requires measuring the panel stack-up thickness and selecting the appropriate stud length. Manufacturers designate fasteners by a part number that encodes size series, stud length, head style, and material.

- **Stud diameter:** Common sizes are 5 mm, 6 mm (approx. 1/4"), and 9.5 mm (3/8") shaft. The 82 series uses a 6 mm stud; the 85 series uses larger diameters.
- **Length selection:** Measured from under the head to the end of the stud. Available in 0.5 mm increments. A general rule: stud length = panel thickness + receptacle thickness + 0.5 mm clearance.
- **Grip range:** Expressed as minimum and maximum panel thickness. For example, an 82-0.500 stud might have a grip range of 0.040"-0.500". Exceeding the range compromises locking force.
- **Receptacle compatibility:** Receptacle part numbers correspond to stud diameter and head style. Mismatched pairs cause irregular wear and inconsistent tension.

Installation Tools for Dzus Fasteners

Proper installation requires dedicated fabrication tools to ensure hole alignment and receptacle seating. Standard tooling includes:

- **Dimpling die set:** Creates a recess for press-in studs, preventing the stud from protruding above the panel surface.
- **Transfer punch:** Marks the center of the stud hole onto the mating part for accurate receptacle alignment.
- **Spring drill fixture:** Holds the receptacle spring in place while drilling rivet holes, reducing assembly errors.
- **Installation wrench:** A slotted or hex key driver specific to the stud head. Some dual-head wrenches combine slotted and 3/16" hex ends.
- **Rivet setting tools:** For rivet-on receptacles, pneumatic or manual rivet squeezers speed installation.

Step-by-Step Dzus Fastener Installation Procedure

A typical installation proceeds as follows:

- 1. Prepare the panel:** Drill or punch the stud hole at the designated location. For press-in studs, use the dimpling die to form a recess.
- 2. Insert the stud:** Place the stud through the panel hole. Secure it with the retaining clip or by flaring the back side, as per stud type.
- 3. Attach the receptacle:** Install the spring receptacle on the mating frame using rivets or bolts, aligned with the stud center. Use the transfer punch for alignment.
- 4. Test the engagement:** Press the stud into the receptacle and turn 90° clockwise. The spring should compress and lock with a palpable detent. Adjust the receptacle position if binding occurs.
- 5. Adjust retention:** If retention is too low or high, replace the spring with a different tension version or adjust the panel stack-up with shims.

Overview of Dzus Fastener Selection, Installation, and Procurement

Aspect	Details
Types	82-series (medium), 85-series (large), small series 81 & sizes 3-9; slotted, hex, flush heads; materials: steel, stainless, brass.
Sizing	Stud diameter 5-9.5 mm; length based on panel thickness + receptacle; grip range critical; part number encodes all variables.
Tools	Dimpling die, transfer punch, spring drill fixture, dual-head wrench, rivet tools.
Installation	Drill & dimple panel, insert stud, rivet receptacle, test 90° turn; adjust spring tension if needed.
MOQ & Volume	Per-piece or per-thousand (per M); tailored at quotation based on annual usage; small runs possible with tooling charges.
Lead Times	Scheduled production based on forecast; expediting available; raw material staging reduces wait.
Supply Agreements	VMI programs, annual price-fixing, forecasting partnerships; supports long-term contract stability.
Packaging & Shipping	Bulk boxes, cartons, kegs, palletization; custom labelling; INCOTERMS per buyer requirement.

Specifying custom Dzus assemblies? Contact our application engineers with your panel design and retention force needs for a tailored proposal and pricing.

Frequently Asked Questions

What are the different types of Dzus fasteners?

Dzus fasteners come in several size series: the 82 series (medium duty) and 85 series (heavy duty) are the most common. Head styles include slotted, hex (Allen), wing, and flush. Stud types are press-in, flare-in, and clip-on, while receptacles are spring steel with standard or high retention. Material options range from zinc-plated steel to stainless steel and brass.

What sizes do Dzus fasteners come in?

Stud diameters typically range from 5 mm to 9.5 mm. Lengths are specified based on panel thickness and receptacle depth. The 82 series uses a 6 mm stud; the 85 series is larger. Manufacturers provide grip range charts; always match stud length to the total panel stack-up to ensure proper locking.

How do you size Dzus fasteners?

Measure the combined thickness of the panels being joined, including any gaskets. Choose a stud with a grip range that covers that measurement. The stud length is measured from under the head to the end of the stud. Allow approximately 0.5 mm clearance. Reference the manufacturer's part number table, which encodes diameter, length, head, and material.

What is another name for Dzus fasteners?

Dzus fasteners are commonly called quarter-turn fasteners because they lock and unlock with a 90-degree rotation. They are also referred to as quick-release fasteners or panel fasteners in industrial and motorsport contexts. The brand name "Dzus" is often used generically, but Southco and other manufacturers produce equivalent quarter-turn fasteners.

What installation tools are required for Dzus fasteners?

Essential tools include a dimpling die set for press-in studs, a transfer punch to mark receptacle positions, a spring drill fixture to hold the receptacle during riveting, and a slotted or hex wrench specific to the stud head. For high-volume assembly, pneumatic riveters and automatic dimple presses reduce installation time.

Categories [Uncategorized](#)