

We Provide Support for
Customers across
the Southeast



Automation Solutions, Inc.

ASI uses **Flowdrill** for
Efficient & Chipless
Hole and Thread Forming
Flowdrill replaces:
Insert Nut - Weld Nut - Rivet Nut





FLOWDRILL

ASI is your partner for any kind of friction drilling application from concept to reality. ASI delivers proven friction drilling solutions leveraging Flowdrill's industry leading components



Flowdrilling

A Flowdrill® friction drill uses rotational speed and axial force to locally create frictional heat. It plasticises the metal and forms accurate bushings in seconds.

- Approximately 3x original material thickness
- Chipless, No Waste
- In Steel, Stainless Steel, Aluminium, Copper and Brass
- for material thicknesses between 0.5 mm – 10.0mm
- for high loaded threads from M2 to M20 and up to G1
- Replaces inserts, welded nuts and rivet nuts

Typical use cases

- Flowdrill & Flowtap or thread forming screw
- Bearing sleeve / hinges
- Brazing or welding joints
- Connecting different materials
- Sealing surface. e.g. chamfer for O-rings

Flowtapping

Flowtapping is also a chipless operation. The thread shape is formed through the whole bush length. Therefore a thread length of minimum $1 \times D$ can normally be achieved. The load of a cold formed thread beats a standard cut thread and effects a positive operating lifetime benefit as well.



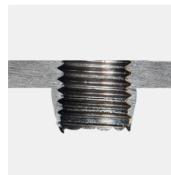
Rivet Nut



Weld Nut



Press Nut



Flowdrill

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