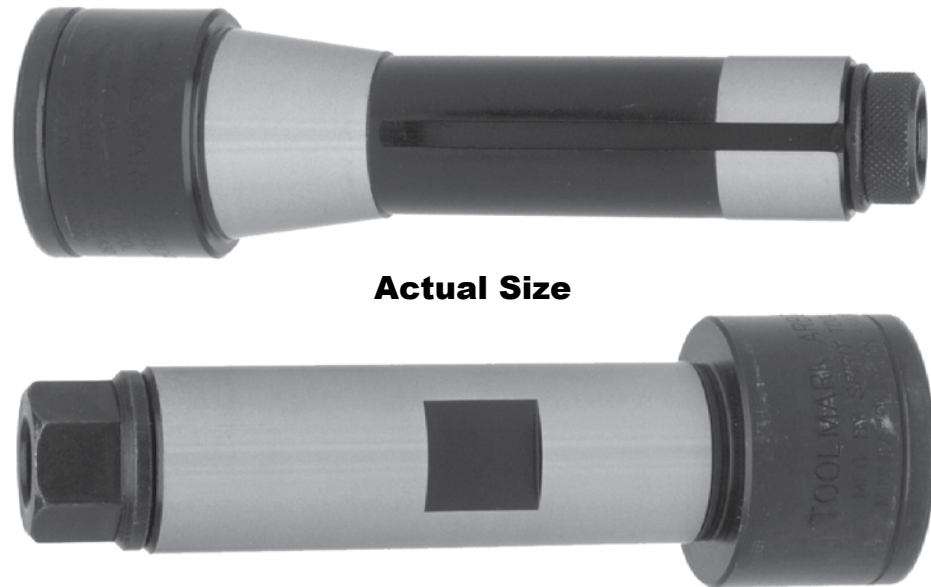




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MADE IN THE USA SINCE 1972



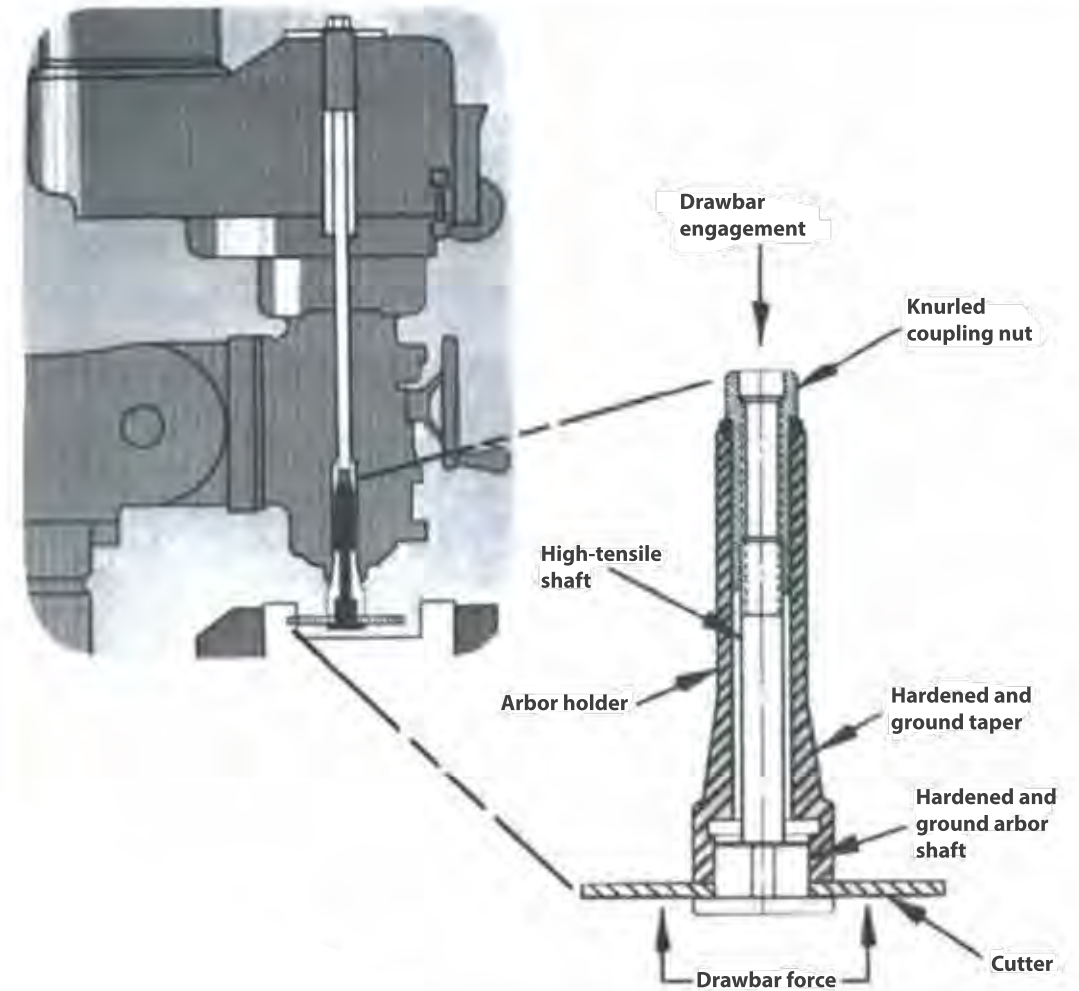
Actual Size

For ALL Milling applications

These arbors are made up of 4 pieces consisting of the arbor & key, the arbor holder and a coupling nut. It works on a pull through principle. Your cutter slips onto the arbor & key, the arbor's threaded stem is then pushed through the holder and drawn up by the coupling nut at the opposite end of the holder.

FOR SLITTING SAWS & CUTTERS TO 1/2" WIDE

MADE IN THE USA SINCE 1972



*****Recommended for Slitting Saws & Milling Cutters up to 1/2" thick*****

The Spirit Tool Arbor System offers the machinist two major advantages: **LOW PROFILE MOUNTING** of cutters for truly versatile tool positioning, and **EXTREMELY RIGID CUTTER MOUNTING** for improved performance and accuracy.

In use, the cutter is positioned in the Arbor Assembly and is drawn together with the coupling nut which is only tightened "finger-tight", no wrenches are required.

The Arbor Assembly is then inserted into the spindle of the milling machine where it is retained in the usual manner by the drawbar. At this point, Spirit Tool's exclusive cutter holding feature permits all of the drawbar tightening force to be transmitted directly to the cutter faces. The tool, now an integral part of the quill, is ready for the most demanding performance in low-clearance work areas completely inaccessible to other arbors.



1" STRAIGHT SHANK SEMI-FLUSH ARBORS FOR SLITTING SAWS & CUTTERS TO 1/2" WIDE

Straight Shank, Can be used in 1" collets, end mill holders or with straight shank adaptors. The low profile design of this arbor simplifies setups in CNC equipment where studs might interfere with tool changing operations. The hex nut is wrench tightened as no drawbar is employed.



ARBOR SYSTEM
THE TOOLMARK ARBOR

ALSO USE WITH
HORIZONTAL BORING MILLS
OR TURNING CENTERS
WITH MILLING

UNIQUE CAPABILITIES



Vise Clearance How often have you found interface between the outboard stud and the vise jaw or swivel bolts on your work set-up? The Spirit Tool Arbor has the nut on the other end where it can't interfere. This keeps the cutter less than one inch from the spindle nose, providing the same rigidity of the quill. The Spirit Tool Arbor is a precision tool. The allowable tolerance on the work piece will not be used up by the arbor runout. Saves minutes on every job; saves hours on tough jobs.

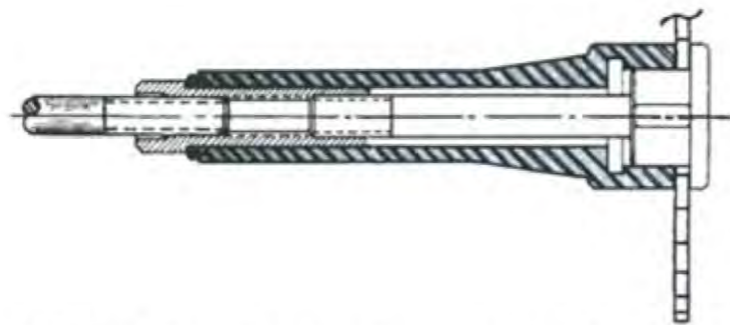


Work Clearance Many work pieces such as castings have surfaces to be machined which are inaccessible with conventional arbors. Until now, the only solution was to employ expensive, large diameter cutters or to build a custom cutter holder. Spirit Tools' low-profile arbor now makes nearly all of these difficult cuts possible. Wide cutters can be recessed to accommodate the .180" arbor shoulder to provide full flush cutting capability.



Adaptors A series of adaptors permits the use of cutters having holes smaller than 1 inch. They extend the cutter 1.25 inches below the arbor holder providing better access with the smaller diameter cutters. The adaptors are made with the same precision as the 1 inch arbor but sell for approximately half the price. Adaptors fit both the R-8 and the straight shank arbor holder.

CONFIGURATIONS



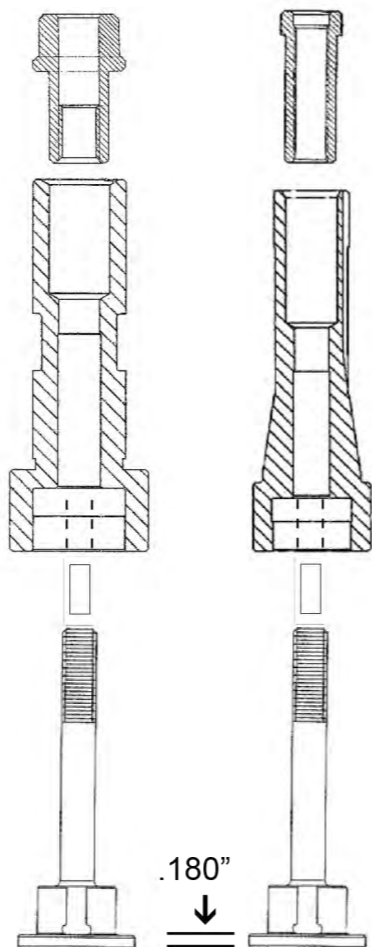
Basic Design Elements The coupling nut engages both the drawbar and the arbor shaft. The high tensile shaft transmits the three ton drawbar clamping force directly to the cutter mounting faces. The arbor holder is manufactured of alloy steel and carefully hardened and ground to eliminate cutter runout. Steel keys assure positive drive of all elements thus allowing the machines to run in either direction. The cutter clamping faces are ground flat and perpendicular to the arbor axis, thus preventing distortion of even very thin slitting saws.

R-8 TAPER STUB SEMI-FLUSH ARBORS FOR SLITTING SAWS & CUTTERS TO 1/2" WIDE



1" STRAIGHT SHANK SEMI-FLUSH ARBORS FOR SLITTING SAWS & CUTTERS TO 1/2" WIDE

Straight Shank, Can be used in 1" collets, end mill holders or with straight shank adaptors. The low profile design of this arbor simplifies setups in CNC equipment where studs might interfere with tool changing operations. The hex nut is wrench tightened as no drawbar is employed.



| PACKAGE DEALS AVAILABLE | LOW-PROFILE: 2010 (1), 2003, 4, 5 & 6 (1 ea.) | | 2009 | | | |
|--|---|-------------------|-------|------------|-------|--------------|
| | LOW-PROFILE: 2011 (1), 2003, 4, 5 & 6 (1 ea.) | | 2015 | | | |
| LOW-PROFILE: 2010, 111 (1), 2003, 4, 5 & 6 (1 ea.) | | 2016 | | | | |
| OUTLINE DRAWING | STYLE and DESCRIPTION | CUTTER SIZE - MAX | | DIMENSIONS | | MODEL NUMBER |
| | | I.D. | WIDTH | A | B | |
| | LOW-PROFILE: R-8 TAPER ARBOR | 1.00" | .50" | .88" | 1.50" | 2010 |
| | | 1.25" | .50" | .88" | 1.88" | 2014 |
| | LOW-PROFILE: STRAIGHT SHANK ARBOR | 1.00" | .50" | .88" | 1.50" | 2011 |
| | | 1.25" | .50" | .88" | 1.88" | 2013 |
| | ADAPTORS for either of the 1.00" ARBORS listed above for clamping SMALL CUTTERS | .875" | .50" | 1.25" | 1.25" | 2003 |
| | | .75" | .50" | 1.25" | 1.12" | 2004 |
| | | .625" | .50" | 1.25" | 1.00" | 2005 |
| | | .50" | .50" | 1.25" | .88" | 2006 |

See instructional videos at: www.spirittool.com

OVERALL LENGTH OF STANDARD TOOL 4.8"

- Machine's drawbar threads into the coupling nut of the R8 arbor to hold the arbor and the cutter in place.
- Straight Shank Arbors are to be held by a 1" end mill holder or collet, for use with Machining or Turning Centers with milling capability & Boring Mills.
- This tool is made of alloy steel, hardened and precision ground to eliminate cutter runout.
- Steel key assures positive drive of both clamping faces, as well as the cutter.
- Wide cutters can be recessed to accommodate the .180" arbor shoulder to provide full flush milling capability.



32 Nineteenth Street • Auburn, Maine 04210
 Phone (207) 376-4466 • Fax (866) 758-9208
info@spirittool.com