Spindle Assemblies

The value and versatility of your Commander equipment is increased by the wide variety of spindle assemblies available for all Commander MULTI-DRILL products.

Basic Types of Spindle Assemblies

- **Collet Type Spindle Assemblies**
  For maximum versatility, it is advisable to use collet spindle type assemblies in all applications that are within the collet capacity range.

- **Bored Spindle Type Assemblies**
  Bored Spindle Assemblies are internally precision ground, providing greater capacity than the collet type and minimum run-out – an important feature where close center distances are required, or where large diameter hole work is being done in materials of low machinability.

- **Booted Universal Joint Spindle Assemblies**
  Booted Universal Joint Spindle Assemblies will last longer under harsh shop conditions. The rubber gasket at the end of the assembly protects the joint from grease and other shop contaminants.

Other Types are also available in:
- #1 and #2 Morse Taper
- #40, #41 and #2 Jacobs Taper for adaptation to adjustable chucks
- Internal and External Threaded and Automotive types

Spindle Assemblies for Special Applications

- **3" Extension Spindle Assemblies**
  Used where the hole to be drilled falls under the flange or the base housing of the MULTI-DRILL or to a maximum of 3" beyond the normal working area. Available in both Standard and Heavy-Duty types and can be used for either drilling or tapping.

- **6-3/4" Extension Spindle Assemblies**
  Used on all COMMANDER universal joint MULTI-DRILL and MULTI-TAPPING Units. Increase effective working range up to 13-1/2" beyond normal drilling area. Chain-driven, complete ball bearing it is available as a Collet, Bored, or Morse Taper type spindle assembly, with adjustable depth or pitch compensating features. Operates outside the base housing. Mounting and removal is quick and easy – the same as Commander standard spindle assemblies. Available in both standard and heavy-duty type.

- **Adjustable Depth Spindle Assemblies**
  Used for drilling or tapping holes of different depths, or where staggered breakthrough is desired. Equipped with a fine micrometer type scale. Calibrated settings are easily made, and a positive lock holds the spindle firmly in place after the setting has been made.

- **Pitch Compensating Spindle Assemblies**
  Commander pitch compensating spindle assemblies allow tapping multiple pitches simultaneously. A string loaded device within the spindle allows the spindle to advance into the work at a faster rate than other taps of a finer pitch. The pitch compensating spindle assembly must be used on all but the finest pitch taps when various pitches are being tapped. Available in all spindle types.

www.commandermultidrill.com
CONVENTIONAL

125 Collet Type
265 Collet Type
375 Collet Type
125 Bored Type
265 Bored Type
375 Bored Type
#1MT Morse Taper Type
375 Collet Type / Ball Bearing
375 Bored Type / Ball Bearing
#1MT Morse Taper Type / Ball Bearing

ADJUSTABLE DEPTH

125 Collet Type
265 Collet Type
375 Collet Type
125 Bored Type
265 Bored Type
375 Bored Type
375 Collet Type / Ball Bearing
375 Bored Type / Ball Bearing

PITCH COMPENSATING

265 Collet Type
375 Collet Type
125 Bored Type
375 Bored Type / Ball Bearing

HEAVY DUTY BALL BEARING

500 Collet Type
#1MT Morse Taper Type
#2MT Morse Taper Type
500 Bored Type

6-3/4" Extension

375 Collet Type / Ball Bearing
375 Bored Type / Ball Bearing
#1MT Morse Taper Type / Ball Bearing
375 Collet Type / Adjustable Depth / Ball Bearing
375 Bored Type / Adjustable Depth / Ball Bearing
375 Collet Type / Pitch Compensating
375 Bored Type / Heavy-Duty / Ball Bearing
#1MT Morse Taper Type / Heavy-Duty / Ball Bearing
#2MT Morse Taper Type / Heavy-Duty / Ball Bearing
500 Bored Type / Heavy-Duty / Ball Bearing

LOCK IN POSITION

125 Collet Type
125 Bored Type
125 Collet Type / Adjustable Depth
125 Bored Type / Adjustable Depth
125 Bored Type / Pitch Compensating
375 Collet Type
375 Bored Type
#1MT
375 Collet Type / Adjustable Depth
375 Bored Type / Adjustable Depth
375 Bored Type / Pitch Compensating
375 Collet Type / Pitch Compensating

BALL BEARING LOCK-IN POSITION

375 Collet Type
375 Bored Type
#1MT
375 Collet Type / Adjustable Depth
375 Bored Type / Adjustable Depth
#1MT Morse Taper Type / Heavy-Duty
#2MT Morse Taper Type / Heavy-Duty
500 Collet / Heavy-Duty
500 Bored / Heavy-Duty
500 ASA / Heavy-Duty

www.commandermultidrill.com
Ball Bearing Spindle Assemblies

For Heavy-Duty Applications where higher thrust is a factor

- Sealed ball bearing construction
- Extra heavy duty booted universal joint
- Spindle locating pilot (allows the use of spindle locating templates)
- Longer life
- Higher thrust capabilities

Typical Construction
Spindle Center Distance is 1-1/4" Select spindle type from below.

Slip Spindle (Lock-in-position) Assembly
Includes heavy-duty booted universal joint

Adjustable Arm Spindle Assembly
Includes heavy-duty booted universal joint

---

375, 500 Collet Type
Sealed ball bearing, booted construction spindle assembly. Most versatile assembly available with full range of drill and tap collets.

1/M, 2/M
Sealed ball bearing, boot construction spindle assembly. Ideal for shope (woodworking) that use Morse taper shank tooling, to get larger drills on closer centers.

5/8 ASA, 7/8 ASA
Sealed ball bearing, boot construction spindle assembly. Designed for automotive plants, or where vertical height adjustment is required. Bump hole and multiple plane applications.

Stub ASA Collet Type
Sealed ball bearing, booted construction spindle assembly. Same as std. "ASA" assembly, but shorter in length. Ideal for applications where vertical space is limited. Also offers vast selection of 375/500 type drill and tap collets.

Q.T. Floating Tap Spindle
Sealed ball bearing, booted construction spindle assembly. A self-centering tap holding system that allow for slight tap misalignment.

O.C. Floating Tap Spindle
Sealed ball bearing, booted construction spindle assembly. Same as Q.T. floating spindles, but also offers quick tap release system. BILZ TYPE.

Adjustable Depth
Sealed ball bearing construction spindle assembly. Permits holding of fine adjustment in drill or tap depths. 3/16" range in increments of .001."

---

www.commandermultidrill.com
Commander Versa-Spindle

The Versa-Spindle greatly increases the versatility of universal joint heads. The same spindle can be used inside or outside the base housing of a universal joint head, or directly under the base housing flange. This spindle is gear-driven, and the universal joint can be attached to any one of the five power hex pick-offs.

The Versa-Spindle is also adaptable to other makes of universal joint drill heads and machines. When requesting a quotation, please specify the manufacturer and model number of the universal joint head that the Versa-Spindle should fit.

www.commandermultidrill.com