SPINDLE ADAPTERS

Adapters – Morse Female Taper
(To fit standard #2 Jacobs taper spindles)

Adapters – Straight Bore
For adjustable adapters
(To fit standard #2 Jacobs taper spindles)

DRILL AND TAP CHUCKS

Drill Chucks
(Pain bearing key type –
to fit standard #2 Jacobs taper spindles)

Drill Chucks
(Pain bearing key type –
to fit threaded nose spindles)

Tap Chucks
(To fit standard #2 Jacobs taper spindles)

Collet Chucks
(To fit standard #2 Jacobs taper spindles)

<table>
<thead>
<tr>
<th>TAPER</th>
<th>ADAPTER</th>
<th>A</th>
<th>B</th>
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<th>C</th>
<th>CAP</th>
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<td>#109</td>
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2A JACOBS DRILL CHUCK
Cap. 0 – .38

MAX. DEPTH DRILL ENTERS CHUCK

JAW POSITIONS
.38 DIA. DRILL
.19 DIA. DRILL
.31 – 0 DIA. DRILL

END OF HYPNEUMAT SPINDLE

34-02 JACOBS DRILL CHUCK
Cap. 0 – .50

MAX. DEPTH DRILL ENTERS CHUCK

JAW POSITIONS
.50 DIA. DRILL
.36 – .25 DIA. DRILL
.88 – 0 DIA. DRILL

END OF HYPNEUMAT SPINDLE

209 ERICKSON COLLET CHUCK
Cap. .13 – .38

COLLET LENGTH
.44 – 1.19

END OF HYPNEUMAT SPINDLE

109 ERICKSON COLLET CHUCK
Cap. .25 – .66

COLLET LENGTH
.56 – 1.44

END OF HYPNEUMAT SPINDLE

421-02 JACOBS TAP CHUCK
Cap. 0 – .25

MAX. DEPTH TAP ENTERS CHUCK
.50 – 1.25

END OF HYPNEUMAT SPINDLE

441-02 & 440-02 JACOBS TAP CHUCK
441-02 Cap. .10 – .50
440-02 Cap. .31 – .63

MAX. DEPTH TAP ENTERS CHUCK
.75 – 1.50

END OF HYPNEUMAT SPINDLE
#1 MORSE TAPER  
(Part #8799-A)

#2 MORSE TAPER  
(Part #10223-A)

#3 MORSE TAPER  
(Part #10705-A)

#4 MORSE TAPER  
(Part #13667-A)

.625 BORE  
(Part #13316-A)

KEYWAY .16 WIDE x .09 DEEP

.750 BORE  
(Part #8712-A)

KEYWAY .16 WIDE x .09 DEEP

.875 BORE  
(Part #9096-A)

KEYWAY .19 WIDE x .09 DEEP

1.062 BORE  
(Part #16030-A)

KEYWAY .19 WIDE x .09 DEEP
**BUSHING PLATE FOR 200 & 300 SERIES UNITS**

When bushing plate is used with 300 series units stroke is reduced by .44".

**OFFSET HEAD FOR 200 & 300 SERIES UNITS**

**MODEL**
- **S-200**: A = 3.25, B = 1.50, C = 15.05
- **M-200**: A = 3.25, B = 1.50, C = 21.05
- **S-24**: A = 5.25, B = 3.50, C = 19.05
- **M-24**: A = 5.25, B = 3.50, C = 25.05

**NOTE:**
- Offset head can be rotated around quill to any position not interfering with stroke control assembly or hydraulic brake.
- Hydraulic units using offset heads have reduction in stroke length.
- Timing belt drive is 1:1 ratio.
RIGHT ANGLE MILLING HEAD
FOR 200 & 300 SERIES UNITS

NOTE: Hy pneumat unit stroke is reduced when using right angle milling head. Model DQ350 EHB shown.

OPTIONAL COLUMN MOUNTING BASES