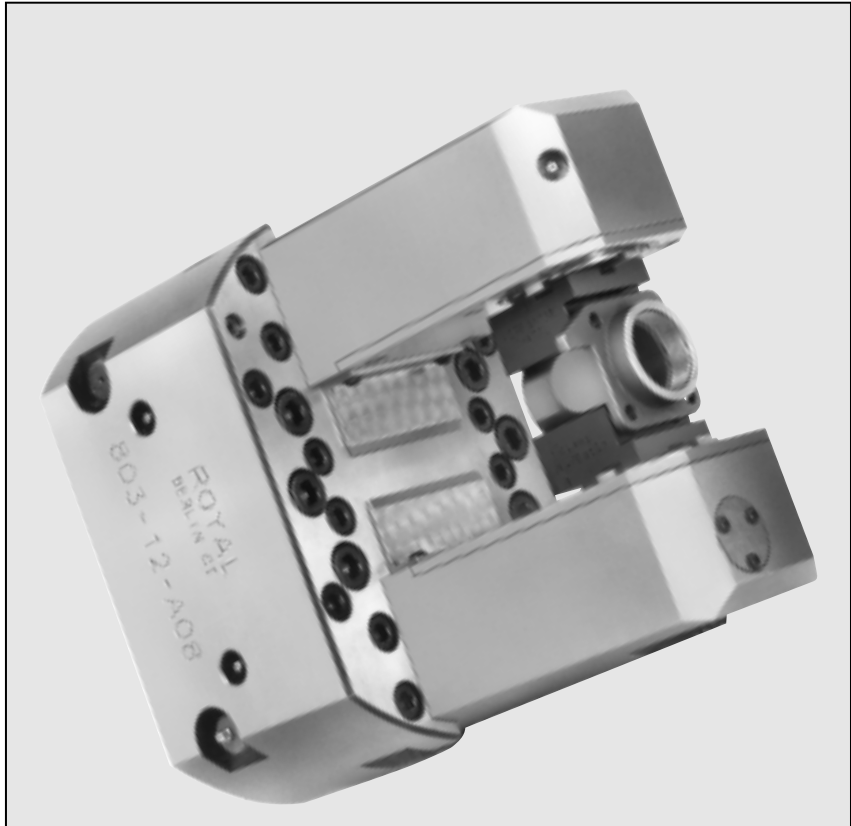


## 803 Series Self-Centering Automatic Index Chucks

- Maximize production rates with a single step set-up for multi-sided parts with intersecting axes.
- The open center, long jaw stroke and self-centering feature, provide fast and easy loading, accurate workpiece centering, and maximum cutting tool access.
- Fast, accurate indexing with rigid index lock assures quick and accurate machining of your multi-faced parts.
- Royal's index control system with electronic interface allows complete CNC control of the Automatic Index Chuck.
  - Self-Centering.
  - Hydraulic Clamping and Indexing.
  - 4 x 90, 8 x 45, 3 x 120, 6 x 60 Index Positions.
  - Indexing time of 1 to 3 seconds depending on size.
  - Index accuracy of .00025" per inch of radius.
  - Life cycle test shows no significant wear in 1,000,000-plus cycles.
  - Installation assistance available.



### Patented Indexing System

Royal's 803 Series High-Speed Automatic Index Chucks are designed for today's CNC turning centers. A patented cylinder-operated linear index mechanism provides quick, accurate indexing while the spindle is rotating.

### Index Position Control System

Royal's fail-safe index control system utilizes a cam-operated tell-tail rod, four proximity switches, a PC-based electronic NC control interface, and a hydraulic power unit with all the valving and sensing to provide complete control of the automatic index chuck.

## Specifications 803 Series

Chuck Model	8	10	12	13	15	18	21	24	28
Mounting	A5/A6	A6/A8	A6/A8	A8	A8/A11	A11	A11/A15	A15/A20	A15/A20
Jaw Stroke/Jaw	0.50	0.50	0.56	0.56	0.63	1.00	1.00	1.00	1.00
Grip Position	1.25	1.75	3.75	5.25	6.75	7.00	10.00	11.00	15.00
Draw Tube Pull/Lbs.	12,000	12,000	15,000	15,000	24,000	24,000	35,000	35,000	35,000
Jaw Force Lbs./Jaw	6,000	6,000	7,500	7,500	12,000	12,000	17,500	17,500	17,500
Maximum Speed (rpm)	2,800	2,300	2,000	1,500	1,200	1,000	750	555	450
Cylinder Required	DP06	DP06	DP08	DP08	DP08	DP08	DP10	DP10	DP10