

## Lead Screw Units with Air Rapid Travel, Series A3

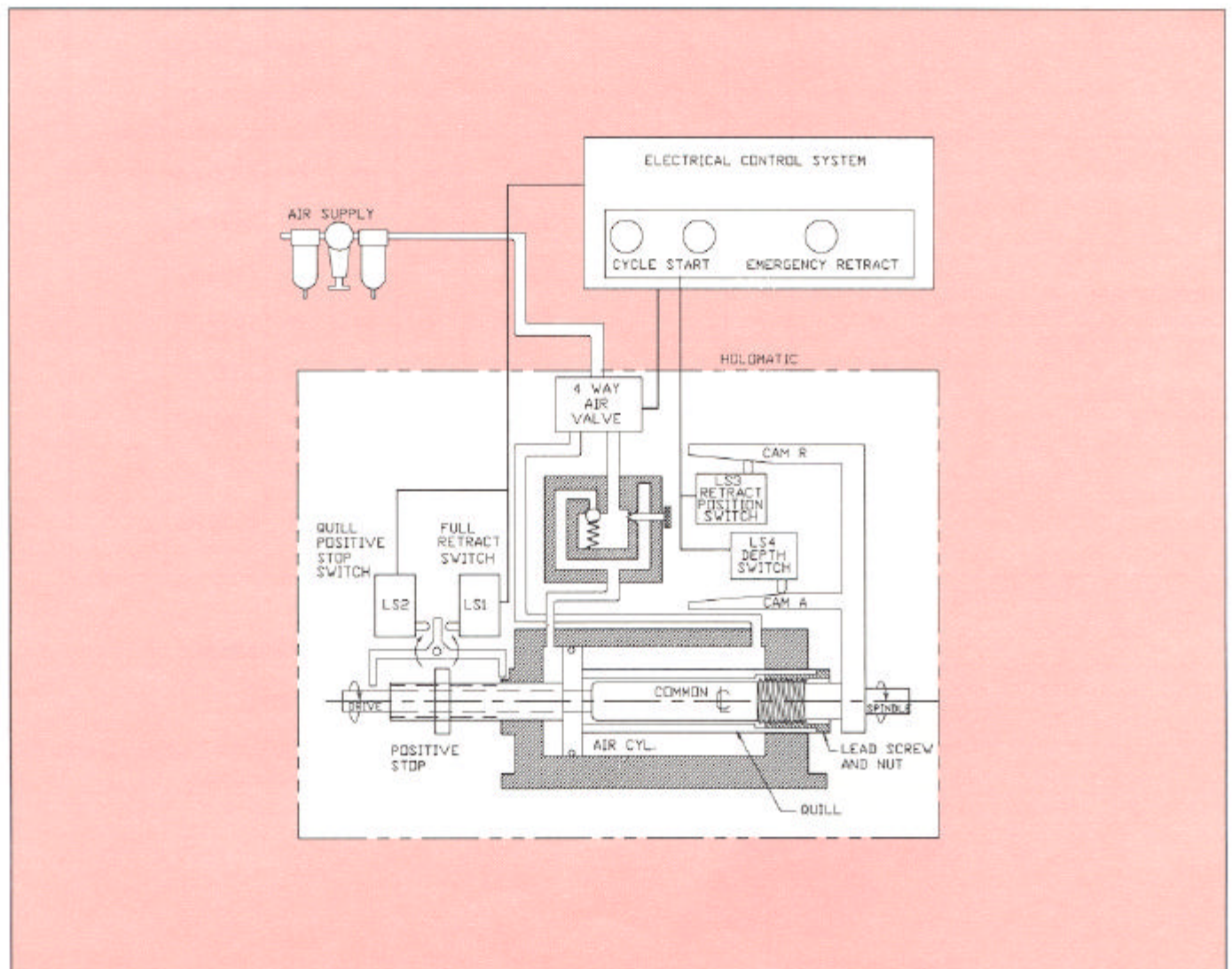
The Holomatic Air-Rapid Travel Power Feed System uses compressed air for rapid advance and retract. A motor driven Lead Screw rotates to advance the Spindle for tapping and threading operations. When it's necessary to change the thread pitch, the Lead Screw and Nut can be quickly changed to match the new pitch.

On cycle start, the 4-Way Directional Control Air Valve directs compressed air to the back side of a double acting Air Piston. An adjustable Needle Valve is furnished to control the speed of the rapid travel.

As the Quill and Spindle move forward they carry the Positive Stop until the Stop actuates the Positive Stop Switch which starts the Motor. The Motor rotates the Spindle Lead Screw through the Nut which further advances the Spindle to do the work. Cams "A" and "R" move forward with the Spindle. When the Depth Switch moves off Cam "A", the preset depth has been reached and the Motor reverses the rotation of the Lead Screw causing the Spindle and Cams to retract. When Cam "R" actuates the Retract Position Switch, the motor is stopped and the 4-Way Valve directs

compressed air to the front side of the Piston to achieve a rapid retract action of the Quill and Spindle. The Positive Stop returns with the Quill and Spindle until it contacts the Full Retract Switch which signals the end of the cycle.

If a "no-hole" or other obstruction occurs, de-actuation of the Positive Stop Switch will cause the Lead Screw to reverse and the Spindle to return to its full retract position. The operator can also manually retract the Spindle using an optional Emergency Retract Button.



## Lead Screw Systems

Capacity	Stroke Length	Lead Screw Feed	Rapid Travel-Hydraulic	Rapid Travel-Pneumatic	Rapid Travel Not Avail.	Torque - Lb.-In.	Motor Reverse	Threading Head	Mult. Spindle Head	Model	Series	New Models
<b>Standard</b> Capacity up to 600 Lbs.-in. Standard Torque Units  Up to 1"-8 Tap or Thread	2" 2"			x		600	x	xx	xx	7204	A7	
	4" 2"		x			600	x	xx	xx	3496	A3	
	4" 4"			x		600	x	xx	xx	7494	A7	
	4" 2"	x				600	x	xx	xx	5496	A5	
	6" 2"		x			600	x	xx	xx	3696	A3	
	6" 2"	x				600	x	xx	xx	5696	A5	
<b>High Torque</b> Capacity up to 3500 Lbs.-in. High Torque Units  Tap or Thread Over 1"-8	2" 2"			x		3500	x	xx	xx	7205	A7	
	4" 2"		x			3500	x	xx	xx	3497	A3	
	4" 4"			x		3500	x	xx	xx	7495	A7	
	4" 2"	x				3500	x	xx	xx	5497	A5	
	6" 2"		x			3500	x	xx	xx	3697	A3	
	6" 4"		x			3500	x	xx	xx	3698	A3	
	6" 2"	x				3500	x	xx	xx	5697	A5	
	6" 4"	x				3500	x	xx	xx	5698	A5	

x - Furnished on Unit Shown

xx - Optional Item



Model 7204 Shown

### Standard Features on All Models

- Motor Reverse Capability
- Switch Box and Control Switches