

# STOKES®

NEW SERIES 580

TRI-PACT™

ROTARY TABLET PRESSES

provide up to 200% increase in  
dwell time under pressure  
at maximum press speed

**MODEL 580-1**—45 stations; capable of producing tablets with diameters up to  $\frac{7}{16}$ ", at rates from 525 to 2100 tpm.

**MODEL 580-2**—35 stations; capable of producing tablets with diameters up to  $\frac{5}{8}$ ", at rates from 400 to 1600 tpm.

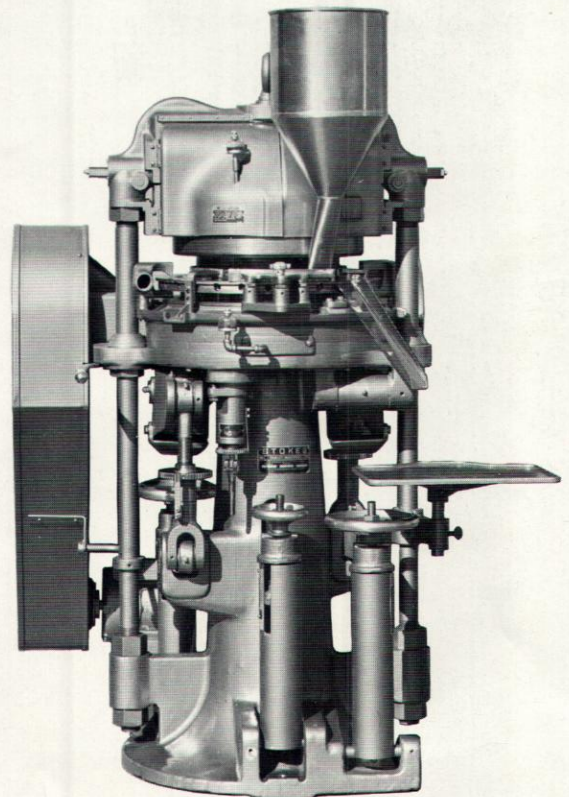
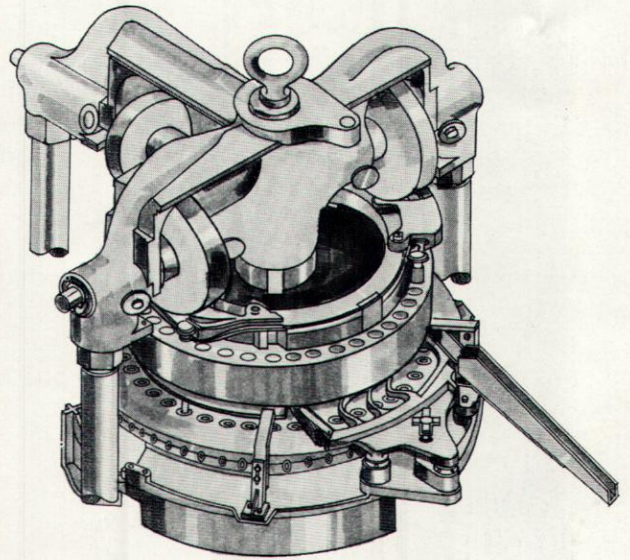
## Outstanding design advantages furnished as standard equipment

**Dual pre-compression.** Material passes through two pre-compression stations prior to final compaction, providing high-speed production by increasing dwell time of material under pressure by as much as 200%. Harder, denser tablets are produced because dual pre-compression completely expels entrapped air, thus eliminating laminating and capping. Cohesive properties of materials are also improved; the gradual application of pressure increases material slip and bonding during compacting.

**Adjustable upper pre-compression and final compression rolls.** Provides for changing compression point in die bores to extend tool life and minimize side-wall friction during ejection.

**Independently adjustable spring releases at pre-compression and final compression stations.** Permit compression ranges of 0 to 1 ton for the first pre-compression; 0 to 2 tons for the second pre-compression; 0 to 4 tons for final compaction.

**Three-piece Chord-Loc™ rotary head with steel plate die table section.** Provides for maximum strength and life. Includes Stokes patented Chord-Loc arrangement to decrease peripheral speed requirements at any speed range for a 60% increase in feeding time and dwell time under pressure.

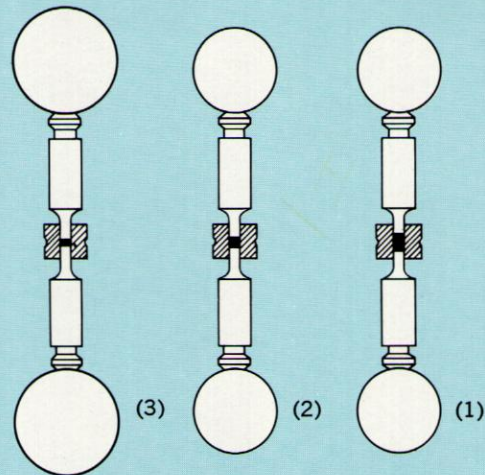


## OPTIONAL EQUIPMENT

**Force-Flo® Die Feeding System.** De-aerates fine, dry-blended powders to permit direct compacting of "difficult" materials. Reduces laminating and capping of these materials due to entrapped air. Produces high-quality tablets at high speed. Provision for the Force-Flo system is furnished as standard equipment.

**Metering Hopper.** Uniformly feeds materials which tend to pack up in the hopper or offer fluid-flow characteristics. The metering hopper feeds materials into the press feed frame or into the Stokes Force-Flo die feeding system.

For complete details and specifications write Stokes Tableting Equipment Department, Pennsalt Chemicals Corporation, Box 100, Warminster, Pa. 18974.



Dual pre-compression increases dwell time of material under pressure by 200%. Pressure is increased gradually, assuring maximum bonding characteristics.

## SPECIFICATIONS—Series 580 Tri-Pact Rotary Presses

	Model 580-1	Model 580-2		Model 580-1	Model 580-2
Maximum production rate (tablets per minute)	2100	1600	Needle bearings in drive shaft for high-speed operation		S.E.
Number of tool sets	45	35	Keywayed upper & lower punch sockets for operation with special punches & dies		S.E.
Number of compression stations—total:	3	3	Drive specifications:		
Consisting of:			Electrical service: volts	220/440	
First pre-compression station		1	cycles	60	
Second pre-compression station		1	phases	3	
Final compression station		1	Motor: horsepower	3	
Operating pressures			rpm	1800	
First pre-compression	0 to 1 ton		Variable speed drive (4 to 1 speed range)		S.E.
Second pre-compression	0 to 2 tons		Speed range (tpm)	525 to 2100	400 to 1600
Final compression	0 to 4 tons		Stop-start switch		S.E.
Upper punch entrance adjustment			Motor starter control		S.E.
First pre-compression	1/8" to 3/8"		T.E.F.C. motor		S.E.
Second pre-compression	1/8" to 3/8"		Dimensions & weights		
Final compression—adjustable	1/8" to 3/8"		Over-all height	64"	
Upper punch stroke	1 1/4"		Floor to bottom of discharge chute	31"	
Lower punch stroke	3/4"		Width	36"	
Depth of fill (adjustable)	0 to 1 1/16"		Depth	34"	
Maximum tablet diameter	7/16"	5/8"	Net weight	2000 lbs.	
3-point support for feed frame with handwheel locking arrangement		S.E.	Shipping weight	2350 lbs.	
			Boxed for export	77 cu. ft.	