

# RCS

## Rotary Compound Pouring Machine

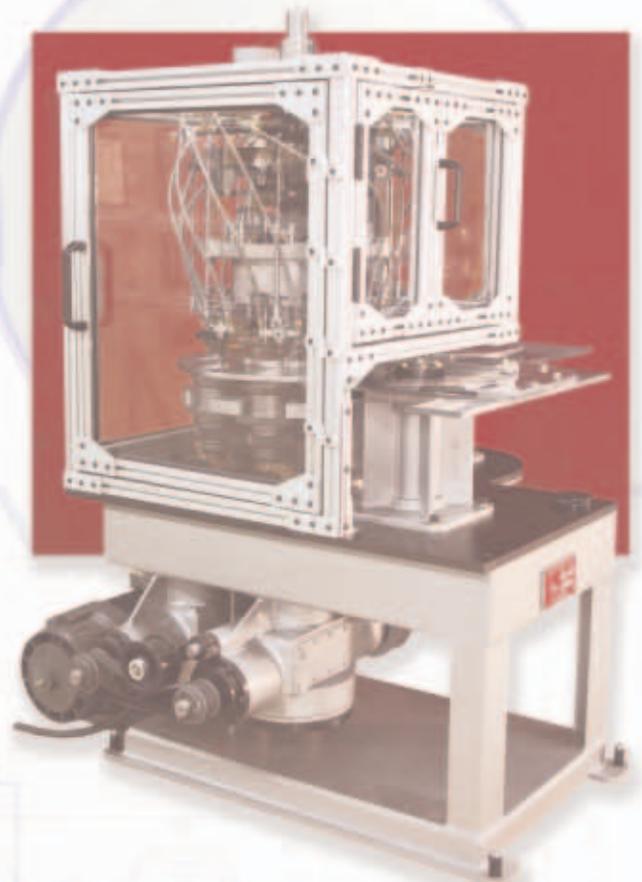
### Description

The RCS is a continuous rotary compound pouring machine with multiple stations. The RCS permits infinite adjustment of the point and angle of pour and a wide range of pour durations. Caps are fed to the infeed turret by a conveyor or a worm feed when more positive engagement is required. Worm feed is standard on the RCS-12. The infeed turret incorporates a detection system that prevents pouring when a cap is not present.

The main gearing is totally enclosed and runs in an oil bath. Lubrication fittings are provided for all key points to minimize wear. Machines are supplied with AC variable frequency controls. The RCS-8 is provided with a 3.0 HP AC brake motor, the RCS-12 with a 5.0 HP AC brake motor; PLC-based control packages are available.

### Operation

The infeed turret transfers caps to rotating magnetic chucks in the pouring head. Vacuum chucks are used for non-ferrous caps. Chuck rotation is proportional to machine speed and easily changed to suit the application. The pouring nozzles can be individually adjusted to pour into the center of the cap, annularly, or onto the sidewall. Nozzles are available in a series of orifice sizes to provide a range of compound flows. The duration of pour is adjustable, setting all stations simultaneously. The compound continually circulates through the nozzles to maintain temperature and viscosity. The standard RCS uses an arm to sweep off the caps, however, a discharge turret is available for cap sizes to 89 mm. The standard machine handles cap sizes to 120 mm. The RCS pouring machine is available as an RCS-8 with 8 stations and a maximum output of 800 caps per minute, or as an RCS-12 with 12 stations and a maximum output of 1200 caps per minute. When lower output is required an RCS-8 can easily be set up for an output of 400 caps per minute.



### Specifications

<b>Technology Brief:</b>	<i>High-speed, continuous rotary compound pouring machine; basic configuration includes 8 or 12 stations</i>
<b>Production Rate:</b>	<i>Max. 800 or 1200 caps per minute</i>
<b>Cap Size:</b>	<i>30mm – 120mm</i>
<b>Dimensions:</b>	<i>36" L x 42" W x 66" H; 3,000 lbs.</i>
<b>Utilities:</b>	<i>Electric service per customer's requirements; air requirement of 1.0 CFM @ 80 PSI</i>



## SWANGREN MACHINE DIVISION

Apex Tool Works Inc.  
3200 Tollview Drive  
Rolling Meadows, IL 60008  
www.apextool.com

phone 847.394.5810  
fax 847.394.2739  
apextool@apextool.com

*Concept Through Engineering to Manufacturing Solutions*