

# SERVOPAC<sup>®</sup>

Concrete Products Machine



Besser leads the way in innovation with the rugged, quality-built Servopac. This unique and exciting concrete products machine sets a whole new standard for performance by significantly increasing production flexibility.

**BESSER**  
Trusted Since 1904

# INNOVATIVE, FLEXIBLE AND VERSATILE

Continuing the Besser tradition with proven technology



## Mold Clamps

In less than 5 minutes, a mold and height change can be completed. A complete mold and height change, including the agitator grid and cut off bar, can be completed in less than 15 minutes. The new design allows for the dramatic time reduction. The clamps provide positive alignment and stability of the mold for maximum productivity.



## Color Graphics Control Station

The machine operator monitors all machine functions, makes production adjustments and references the machine diagnostics from the color graphics control station. Additionally the control station stores product recipes for production repeatability.



## Vibration System

The vibration can be tailored to meet today's challenging production requirements. Utilizing proven technology, four servo motors work in two pairs to provide fully independent control of vibration frequency and amplitude. Consistent vibration makes the production of precise, high-quality concrete products, including slabs, brick, standard and architectural block and segmental retaining wall products possible, cycle after cycle.

## Machine Frame

Simplified architecture. The rugged bolt-together construction is designed, manufactured and assembled to the highest standards. Its fully adjustable inner frame makes it easy to quickly change product from one height to another. Its open architecture, with all parts clearly visible, is simple to maintain and clean.



## Feed Belt

Precisely metered material feeds directly into the feedbox for maximum control. The belt can be rolled in or out of the machine to easily access different parts of the machine.

## Feedbox

Variable speed and stroke movement and variable speed agitation reduce cycle time. A fully programmable cut-off bar can rise to any position during the cycle while traveling forward and backward for even distribution of material.



## Round Slide Shafts

The four round slide shafts positively guide and stabilize the head to ensure the production of uniform height products. Round shafts eliminate the need for adjustments.



## Mold Adaptors

All existing Besser molds, as well as competitors' molds, can be used by the Servopac. This advantage is made possible with the use of adaptors.

## Vibration Lubrication System

Extensive testing of Vibrator bearing life has resulted in an Air Oil vibrator lubrication system as standard on the Servopac. The Air Oil lubrication drastically lowers the bearing operating temperature, resulting in longer life. Special Besser bearing closures were designed to provide optimum flow to the vibrator bearings.



## Pallet Placing and Walking Beam Pallet Delivery System

Exceptionally smooth handling and pallet movement are made possible through the superior design of the walking beam, which is controlled by a servo motor. This gentle movement creates less dust and noise than conventional systems and provides the ability for pallet accumulation.



Model	3 and 4 at-a-time	5 and 6 at-a-time
Width	9' - 2" (2794 mm)	10' - 5" (3175 mm)
Height	14' 1/4" (4274 mm)	
Length	14' 4-9/16" (4382 mm)	
Weight	46,000 lbs (18,144 kg)	54,000 lbs (24,494 kg)
Product Delivery Height	3' 1/4" (921 mm)	
Pallet Sizes	26" x 18.5" - 3 (660 x 470 mm) 38.5" x 18.5" - 4 (978 x 470 mm) Other pallet sizes available	42" x 18.5" - 5 (1067 x 470 mm) 52" x 18.5" - 6 (1321 x 470 mm) Other pallet sizes available
Product Height	1" - 12" (25 - 300 mm)	

Note: Cycle rate - up to 8.5 cycles per minute



## OPTIONAL ENHANCEMENTS

### Quick Mold Change Device (QMCD)

The addition of the QMCD provides automated storage and retrieval of molds. A shuttle removes a mold from the Servopac, places it onto a rack and then automatically places a new mold into the machine. Constructed of rugged structural steel tubing, and outfitted with proportional hydraulics, the motion of the QMCD is smooth, quiet and effortless.

### Horizontal Core Pullers

The use of core pullers expands the variety of concrete products that can be produced on the Servopac. Many of the complex concrete unit designs popular today feature horizontal openings that are formed using a core puller. Some of these units are cored brick manufactured on edge, concrete units with fake mortar beds, retaining wall units with tongue and groove locking, and erosion control units.



Horizontal Core Pullers

### Rear Core Puller

The core puller attaches to the Servopac underneath the feedbox apron plate. This eliminates the need to mount it in front of the machine every time you need to use it. When the mold is placed into the machine the forming cores are automatically attached to the puller. A hydraulic cylinder, with two guide rods, ensures accurate insertion and removal of the cores.

### Side Core Puller

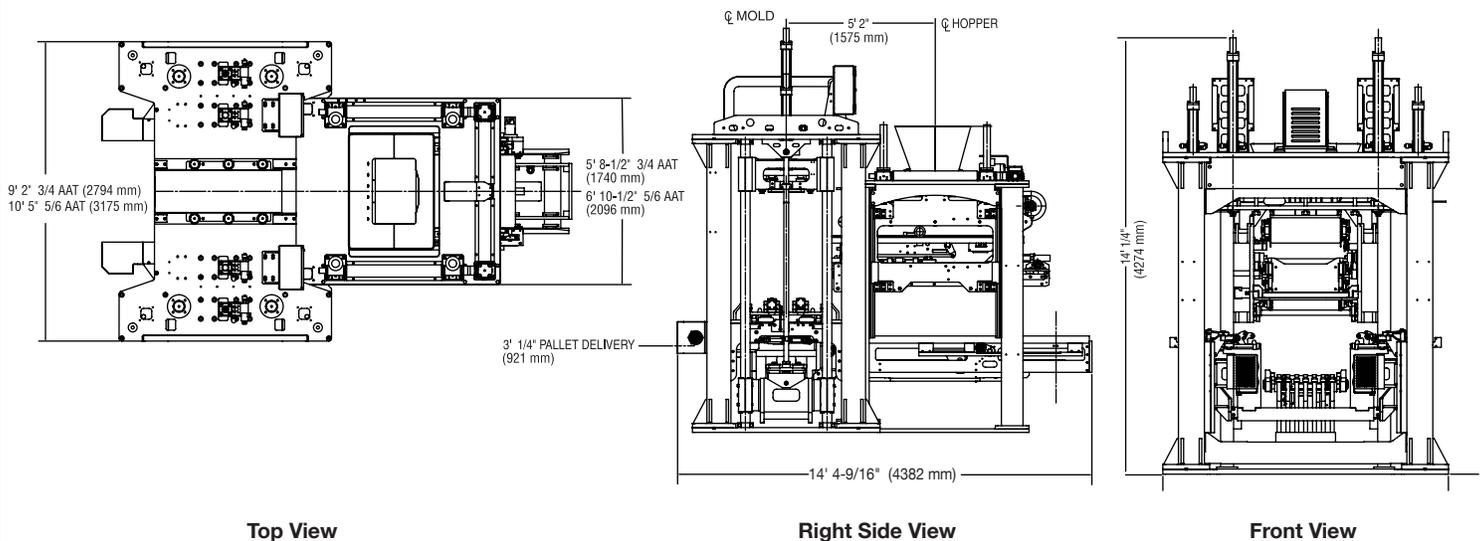
The Servopac's design, which incorporates four slide shafts, keeps the sides of the machine open. This open design allows forming cores to enter the mold from both sides creating unlimited opportunities for new concrete product designs.



Side Core Puller

### Parts Pod

A fully stocked Parts Pod is available to ensure maximum uptime by having critical wear parts when you need them.



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