



Osborn • SPO • Sutter • Herman

Sutter Core Machines

High Production, Economical SP Series Core Machines

In today's competitive environment, all core shops must produce high quality cores. The **SP Series core machines** will provide you with the cores that not only meet today's stringent quality requirements, but will also prepare you for the increasing demands of tomorrow.

By utilizing **robust machine design** built around proven core making technology, the SP Series core machine produces unsurpassed core quality while providing **highly reliable machine operation**.

With a wide range of base machine frame sizes, blow capacities and production configurations, the SP Series is able to provide the best, **no-compromise machine** configuration for both your present and future core production requirements.

In addition, the built-in modularity and flexibility of our base design means that **most existing tooling can be utilized** and **special machine features can be easily integrated**.

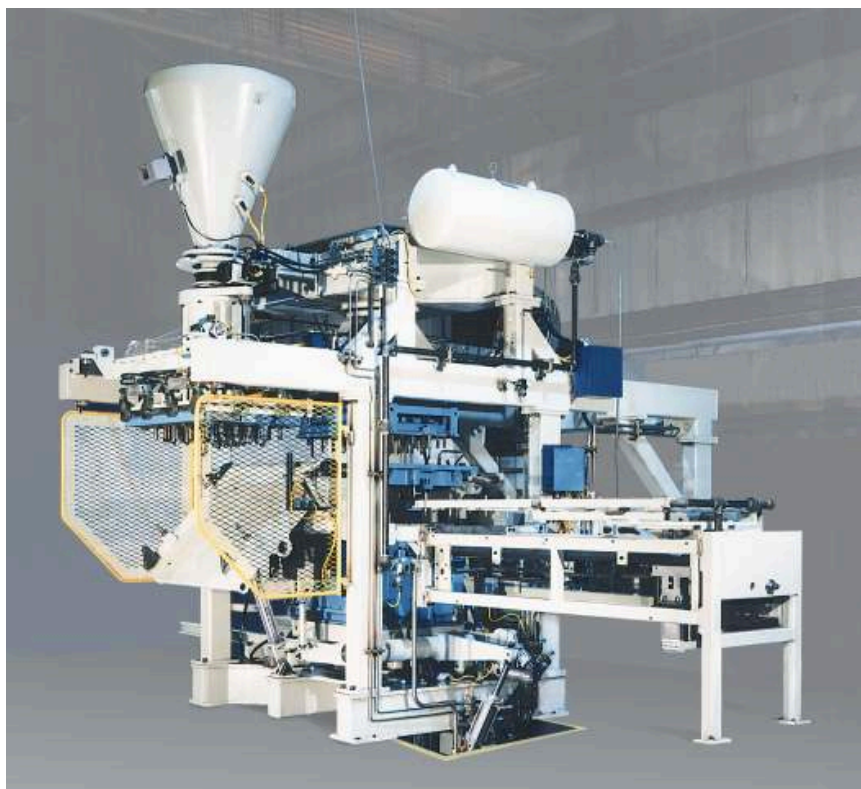
This unique combination of features and flexibility allows EMI to supply your foundry with an **economical high performance** core machine custom fit to your core making requirements.

If your requirements go beyond individual core machines, EMI can provide the equipment and level of system integration required to fulfill your core system needs.

A wide range of auxiliary equipment is available and designed to match each core machine's level of performance.

And like our core machines, all of our auxiliary equipment is easily customized to meet your exact system specifications.

With many years of experience in producing custom core equipment and over 1300 core machines delivered to satisfied customers worldwide, Sutter Core Machines by EMI is your best choice for core making equipment and expert technical support.



At EMI, we have your specific solutions to your molding and core room production requirements.

We offer both NEW and REMANUFACTURED equipment to satisfy your budget.

The Sutter SP Series consists of **low maintenance , robust core machines** designed for all cold processes utilizing horizontally and multi-parted tooling. The high production SP series provides a **flexible and economical solution** to a wide range of core making applications.

Three base configurations are available and can be easily customized to accept to accept your existing tooling and meet your exact production requirements.

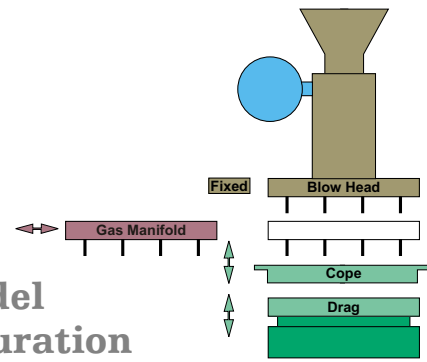
Features and Options include:

- Custom adaptation to existing tooling
- High efficiency shooting system
- Self-cleaning exhaust system
- Drag and cope tooling core ejection
- Automatic tooling clamping
- Automatic tooling change
- Proportional control valves and linear transducers for critical movements
- CRT-based operator interface
- Machine diagnostics
- Recipe-style corebox data storage and retrieval system
- Production statistic reporting
- Low maintenance design

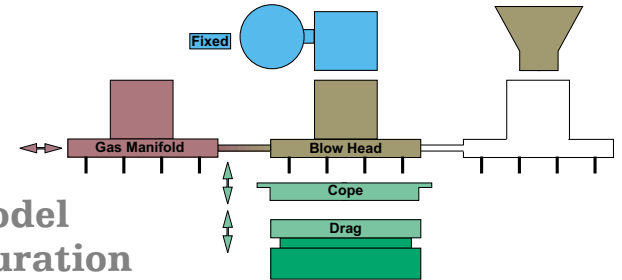
We also offer a complete line of accessories that include:

- Core handling
- Tooling delivery and storage systems
- Tooling cleaning and inspection stations
- Gas generators
- Core sand mixers
- Gas scrubbers
- Integrated core production centers

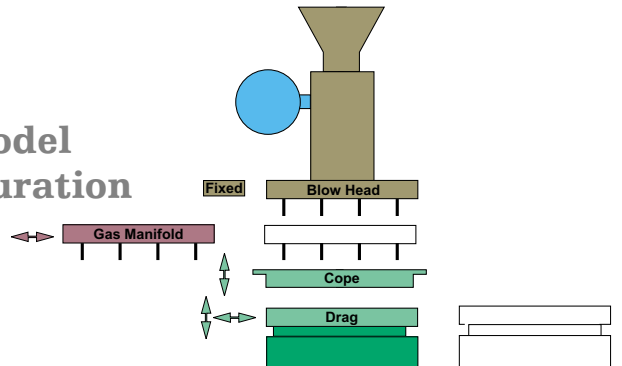
EMI-Sutter Core Machine Specifications



SP Model Configuration



SPC Model Configuration



SPT Model Configuration

TECHNICAL DATA

Tooling Configuration:

- Horizontal
- Multi-parted (utilizing drawback devices)

Process:

- Cold
- Hot (electrically heated)

	SP	SPC	SPT
Horizontal	•	•	•
Multi-parted (utilizing drawback devices)	•	•	•
Cold	•	•	•
Hot (electrically heated)		•	

MAXIMUM VALUES

SIZE	Shooting Capacity	Shooting Area (WxL)	Corebox Dimensions (WxLxH)
2838	80-200 lbs. 30-75 liters	28x38 inches 715-965 mm	33x43x16 inches 840x1095x410 mm
3242	80-250 lbs 30-94 liters	32x42 inches 815x1070 mm	37x47x16 inches 940x1194x410 mm
4040	100-350 lbs 38-132 liters	40x40 inches 1020x1020 mm	45x45x20 inches 1145x1145x510 mm
5050	200-1000 lbs 75-375 liters	50x50 inches 1270x1270 mm	56x56x24 inches 1425x1425x610 mm
5055	250-1200 lbs 94-450 liters	50x55 inches 1270x1400 mm	56x61x30 inches 1425x1550x760 mm

STANDARD FEATURES	SP	SPC	SPT
Hydraulic clamping during blow and curling process	•	•	•
High efficiency shooting system	•	•	•
Self cleaning exhaust system	•	•	•
Corebox exhaust venting through table and guide shafts	•	•	•
Core ejection from drag tooling	•	•	•
Blowplate / sand chamber cleaning station		•	
Automatic tooling clamping	•	•	•
Automatic tooling changing	•	•	•
Hydraulic operated movements	•	•	•
Proportional control valves for critical movements	•	•	•
Linear position transducers for critical machine motions	•	•	•
True 'sinusoidal' motion w/crank-arm type actuators	•	•	•
CRT-based operator interface			
OPTIONAL FEATURES			
Adaption to existing tooling	•	•	•
Loose piece / drawback controls	•	•	•
Core ejection from cope tooling	•	•	•
Universal gassing manifold	•	•	•
Core tamping	•	•	•
Multiple sand chambers level section	•	•	•
Tooling blow-off sections	•	•	•
Tooling exchange system	•	•	•
Tooling cleaning / inspection station	•	•	•
Automatic centralized lubrication			
Machine diagnostics	•	•	•
Recipe-style corebox data storage and retrieval system	•	•	•
Production statistic reporting	•	•	•
Environmental machine enclosure	•	•	•
UNLOADING OPTIONS			
Manual			•
Fork Style	•	•	•
Walking beam	•	•	•
Tray system (w/core ejection from cope tooling)	•	•	•
Vacuum pickoff			•
Robotic handling	•	•	•

EMI's Growth Continues...

EMI has acquired the exclusive rights to the Sutter Product line, worldwide, and the North American rights to the IMPACT Molding Systems from DISA.

EMI also distributes and services Lüber gas generators and core sand preparation systems.