



Osborn • SPO • Sutter • Herman

Sutter Core Machines

High Production, GF Series Continuous Clamping Core Machines

In today's competitive environment, all core shops must produce high quality cores. The **GF 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 **advanced machine design** built around proven core making technology, the GF 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 GF 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 **state of the art, 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, 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 EMI GF Series consists of **state of the art, continuous clamping core machines** designed for all cold processes utilizing horizontally and multi-parted tooling. The high production GF series provides the ultimate solution for **dimensional accuracy and repeatability** in core production.

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

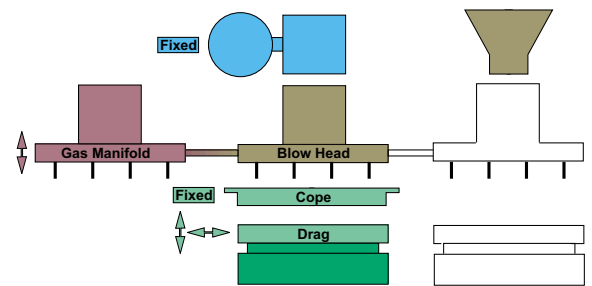
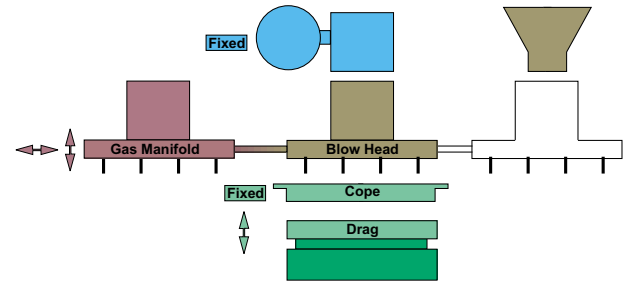
Features and Options include:

- Continuous hydraulic clamping during the entire core making process
- 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

GF Model Configuration



GFT Model Configuration

EMI GF Series Core Machine Specifications

TECHNICAL DATA		GF	GFT
Tooling Configuration:			
Horizontal		•	•
Multi-parted (utilizing drawback devices)		•	•
Process:			
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	38x44x16 inches 965x1120x410 mm
3242	80-250 lbs 30-94 liters	32x42 inches 815x1070 mm	42x48x16 inches 1070x1220x410 mm
4040	100-350 lbs 38-132 liters	40x40 inches 1020x1020 mm	50x46x20 inches 1270x1170x510 mm
5050	200-1000 lbs 75-375 liters	50x50 inches 1270x1270 mm	61x57x24 inches 1425x1425x610 mm
5055	250-1200 lbs 94-450 liters	50x55 inches 1270x1400 mm	60x62x30 inches 1550x1575x760 mm

STANDARD FEATURES	GF	GFT
Continuous hydraulic clamping during entire core making 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.