

# Foundry Sand Preparation

Innovative Technology. Optimized Solutions.



Sand Preparation | Sand Testing | Sand Reclamation



**SIMPSON**  
A Norican Technology

## A Leader in Foundry & Process Technology

Maximize versatility, productivity, profitability, and efficiency within your foundry with

### Simpson Equipment

Achieve high casting quality levels and low-cost operations with **Simpson Sand Testing Equipment**

Maximize performance with **OEM Parts & Upgrades** designed for simpson equipment

Maximize performance & avoid unexpected downtime with our **Performance Partnership**

## The World's Largest Selection Of Foundry Sand Preparation And Control Technologies

**Simpson Multi-Cooler®**  
Sand Cooler And Pre-Mixer

**Simpson Mix-Muller®**  
Batch Mixer

**Simpson Speedmullor®**  
Batch Mixer

**Simpson Multi-Mull®**  
Continuous Mixer

**Simpson Hartley®**  
On-Line Control And Automation Systems

**Simpson Analytics**  
Sand Laboratory Instrumentation

**Simpson Pro-Claim®**  
Sand Reclaimer

**Simpson Service**  
Aftermarket Parts And Technical Support

### About Simpson

Founded in 1912, Simpson is a world leader in foundry and process industry technologies. Simpson is comprised of some of the world's largest and most innovative brands of metal casting technologies including Beardsley & Piper, Dietert Automation, Hartley Controls, R. Gerosa SRL, DISA (formerly Georg Fischer) sand laboratory testing equipment product lines, and Webac Gesellschaft für Maschinenbau mbH in Euskirchen, Germany.

- Molding Sand Cooling
- Molding Sand Preparation (Batch and Continuous Mulling)
- On-line Controls for Sand Preparation Systems
- Complete Sand Plant Engineering/Design
- Aerators
- Polygonal (Rotary) Screens
- Sand Reclamation Equipment
- Sand Testing Equipment
- OEM Spare Parts and Field Service
- Laboratory Testing and Rental Equipment
- Core Sand Preparation Equipment
- Core Making Equipment

### Our Value: Every Foundry Is Different.

To obtain the full potential from any green sand molding plant, Simpson brings a full portfolio of continually advancing technologies that can be matched to the specific needs of the foundry. Whether the application is for a small jobbing steel foundry or a high-production automotive iron or aluminum foundry, we deliver an optimized solution to maximize the competitiveness and profitability of the foundry. Specializing in the field of molding sand preparation and control, Simpson builds on more than 110 years of experience providing innovative, integrated technologies with uniquely effective performance to the world's metal casting industry.

By continuously developing a full range of proven, integrated sand preparation and control technologies, Simpson can benefit any size or type of foundry by providing a complete solution from a single source that best:

- Provides consistently high-quality sand preparation system performance with minimal process variation
- Minimizes the total cost of operation in terms of supervision, energy, raw materials and maintenance
- Minimizes the total capital cost to acquire and install the equipment.

These benefits create value for a foundry by enabling it to produce molding sand which maximizes the potential of their casting plant to produce high-value, high-profit metal castings.

# Simpson Solutions

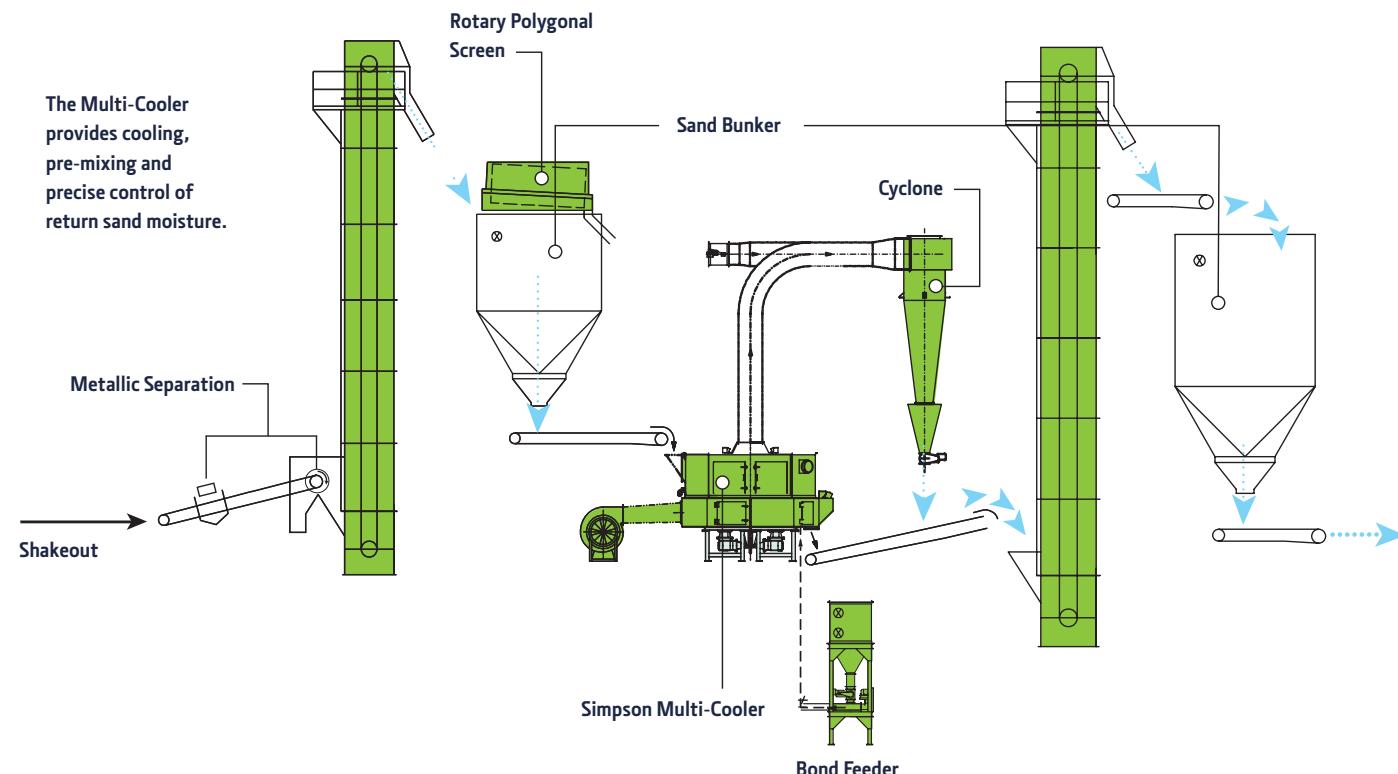
We deliver an optimized, integrated solution to every application to maximize versatility, productivity and efficiency within the foundry to effectively increase competitiveness and profitability.

# Mulling Is Power

All Simpson mixers are based on the mixing techniques of mulling. Mulling is a form of intensive mixing utilizing the application of controlled pressure and agitation through a unique compression, shearing and blending action. It is produced from a tool set consisting of a combination of muller wheels and plows.

Modern mullers, coupled with advanced on-line control and automation systems are the most effective method of producing close-tolerance, cost-efficient molding sand. Simpson offers three different muller platforms in order to optimally match the equipment to the specified needs and process of each molding line.

## A | Cooling and Pre-Conditioning



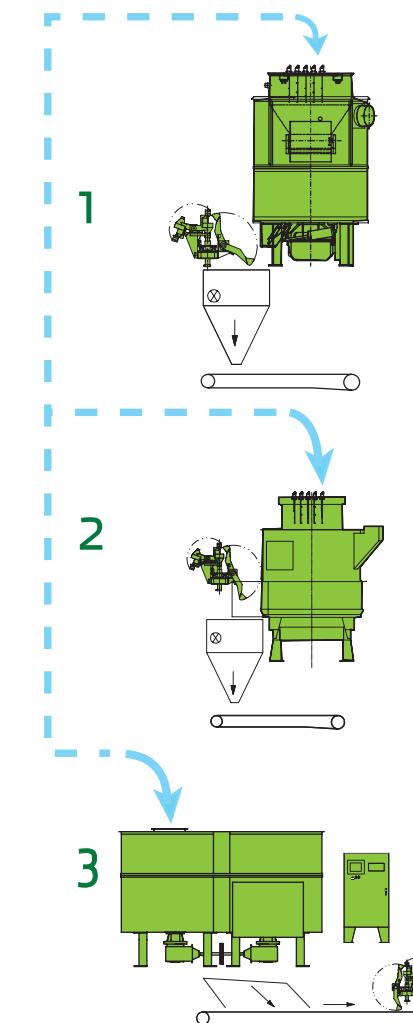
Simpson Multi-Cooler, in seven models, provides pre-mixing, cooling and moisture optimization before final mixing.

Three types of mullers, each in eight different models, provides an optimal solution for any size or type of sand mixing system mixing application.

Simpson Hartley on-line control and muller automation system, in two basic models, provides precise control, repeatability and versatility for the mixer group.

Simpson Sand Testing Equipment, with more than 70 instruments, provide accuracy and repeatability in order to control and monitor the sand preparation process.

## B | Mulling and Control

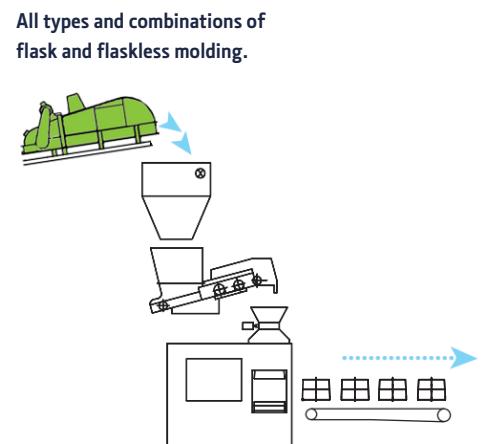


**Simpson Mix-Muller®**  
Batch Mulling for Small to Medium Sand Systems

**Simpson Speedmullor®**  
Batch Mulling for Medium to Large Sand Systems

**Simpson Multi-Mull®**  
Continuous Mulling for Medium to Very Large Sand Systems

## C | Molding



All types and combinations of flask and flaskless molding.

# Simpson Multi-Cooler®

As foundry sand preparation and molding plants become increasingly high-speed and quality-oriented, the control of return sand temperature is essential. The Simpson Multi-Cooler is specifically designed to provide the mixer group with sand that is cooled to temperatures that allow optimal mulling, pre-mixed to eliminate return sand variations and with a moisture content controlled within tight tolerances. The result is optimal mulling and high-quality, profitable castings.

**Description**  
Continuous sand cooler and pre-conditioning system operating on the principle of evaporative cooling.

**Application**  
Sand systems with return sand temperature above 120° F and/or wide variations in return sand properties.

**Features**  

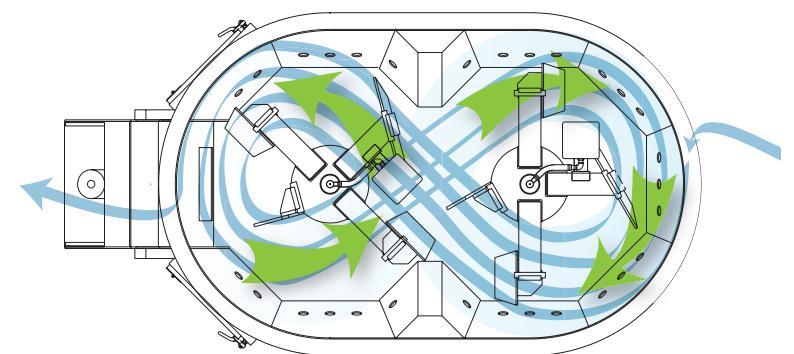
- Pre-mixing with back-blending and controlled retention
- High-efficiency cooling to below 120° F or 20° F over ambient
- Discharge moisture of 2.0% +/- 0.2%

**Upgrades**  

- Discharge Door and Controls Upgrade
- Moisture Controls Upgrade

## Cooling Pre-Mixing

Continuous back-blending of a large volume of retained sand from multiple molds eliminates any "first-in/first-out" effect and assures complete homogeneity of return sand prior to final mixing.



## Simpson Multi-Cooler Technical Data

Model	MC-25	MC-50	MC-100	MC-150	MC-200	MC-250	MC-300	
Capacity	tph	25	50	100	150	200	250	300
Length	in	95	145	172	209	242	293	293
Width	in	60	82	98	117	137	186	186
Height	in	105	133	135	160	173	239	239
Drive Motor	hp	15	30	50	100	150	200	250
Blower Motor	hp	15	20	40	60	75	100	100
Inlet Blower	ft³/min	2,650	5,300	10,600	15,800	21,100	26,400	31,700
Exhaust	ft³/min	3,530	6,600	13,100	19,700	26,200	32,800	39,400
Shipping Weight	lbs	5,955	10,900	16,350	26,500	43,200	64,400	64,400

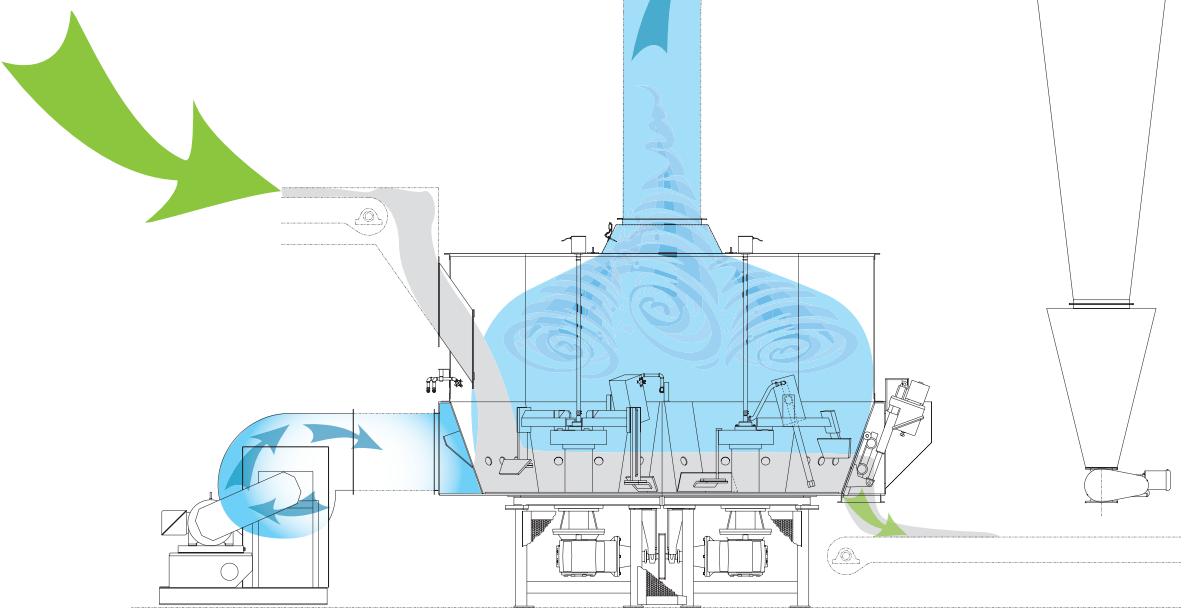
All figures are approximate and are subject to change depending upon your application.

## Pre-Conditioning

The mixer group can operate at optimal performance and efficiency when shakeout sand is continuously cooled, pre-mixed and the moisture is increased and stabilized within a narrow tolerance before final mixing.



1 A sophisticated control system measures the temperature of the exhaust air and the conductivity of the retained sand to add precisely the required amount of water. This achieves the desired cooling and residual moisture content.



2 Counter-rotating mixing tool sets mechanically fluidize the retained sand so that cooling air, provided by the inlet blower, and water can be in intimate contact with the sand; thus providing for efficient and effective cooling.

3 Based on sensors monitoring motor load, the control system adjusts the discharge door opening to maintain a constant volume of sand in the cooler at all times.

# Simpson Mix-Muller®

In small- to medium-sized sand systems or difficult mixing applications, versatility is critical. The Mix-Muller has been carefully designed and proportioned to achieve maximum performance, versatility and energy efficiency in these types of applications.

## Description

Medium-speed, high-intensity, muller-type mixer for batch operation.

## Application

Small- to medium-sized sand preparation systems, and the most difficult mixing applications.

## Features

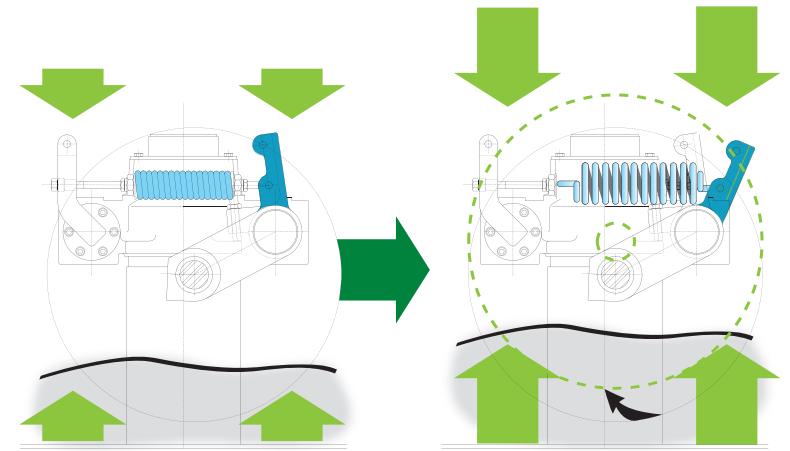
- Adaptive tooling
- Energy efficiency
- Large batch and longer available cycle
- Rugged design

## Upgrades

- Abrasion Resistant Polyurethane Liners
- Abrasion Resistant Polyurethane Wheels with Wear Indicators

## Versatility

**Adaptive Tooling.** Muller wheels are mounted on independent, springloaded suspensions. As the molding sand mixture increases in volume and strength, the mullers react by raising and increasing the mulling pressure. This is a versatile and inexpensive source of mixing energy which provides the kneading and compression action of mulling.



## Simpson Mix-Muller Technical Data - G Series

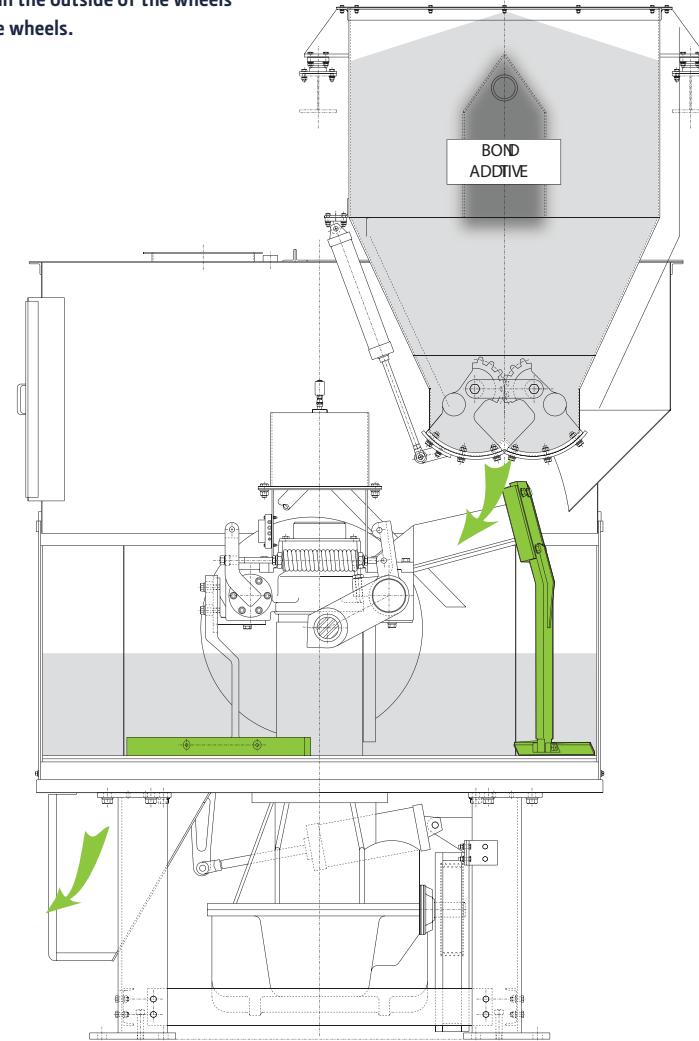
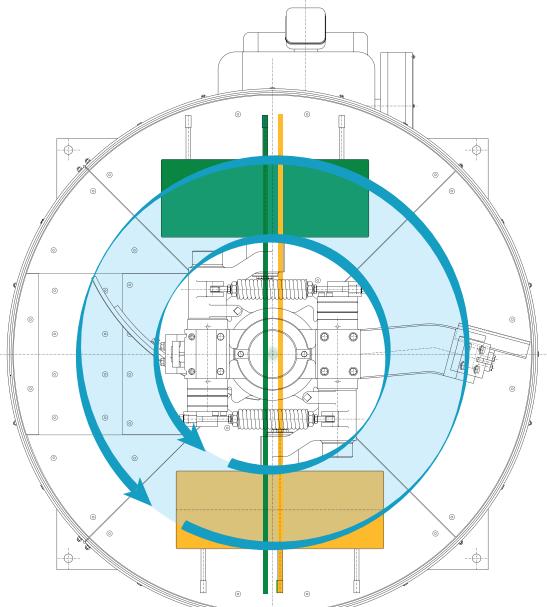
Model	LF	05	1F	1 1/2G	2G	2 1/2G	3G	6G
Batch Capacity	tph	44	300	525	1,200	2,500	3,600	5,000
OUTPUT	tph							
at 120s cycle	tph			7	18	37	54	75
at 180s cycle	tph			5	12	25	36	50
Crib Diameter	in	24	39.25	50	64	80	90	100
Crib Height	in	9	12	18	33	39	38	44
Height	in	43	54	88	120	140	170	180
Width	in	31	41	60	70	85	95	105
Length	in	40	47	60	85	105	115	120
Drive Motor	HP	1	3	10	25	50	75	125
Exhaust	ft <sup>3</sup> /min			660	1,080	2,000	2,700	4,000
Shipping Weight	lbs	1,280	1,400	4,100	8,100	13,000	21,000	26,550
								42,000

All figures are approximate and are subject to change depending upon your application.

# Batch Mulling

Designed to utilize larger batch sizes and longer cycle times to provide better consistency and control. Larger batch sizes provide for better averaging of multiple molds and other variations in return sand. Longer cycle times provide for better control. Adaptive tooling provides for flexibility to adjust to variations in batch composition and property development.

1 Wide-faced mullers provide compression and shear. The muller wheels are set slightly off their true radius so that as they revolve, they skid to provide a shearing action. The inside edges of the wheels travel a shorter path than the outside of the wheels which causes a spatulating action across the face of the wheels.



2 Interchangeable, modular plows armored with tungsten carbide provide intensive blending and minimize maintenance costs.

# Simpson Speedmullor®

In medium- to large-sized sand systems, higher volumes of throughput demand greater productivity from the sand preparation plant. The Speedmullor is carefully designed and proportioned to achieve maximum mixing performance and energy efficiency while still providing some versatility in applications typical to these sizes of sand systems.

## Description

High-speed, high-intensity, muller-type mixer for batch operation.

## Application

Medium- to large-sized sand preparation systems that still require some versatility in throughput or product.

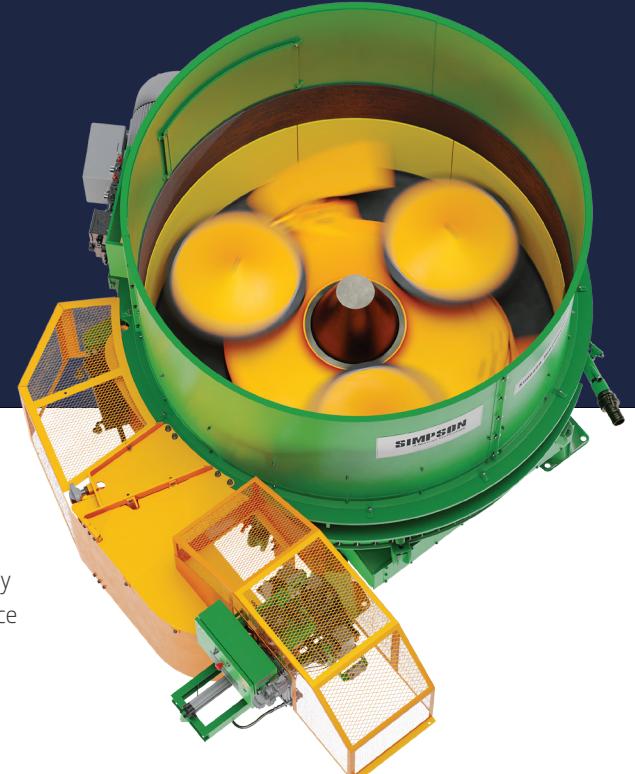
## Features

- The original Beardsley & Piper Speedmullor
- High productivity
- Smaller batch and shorter cycle times
- Secondary cooling

## Upgrades

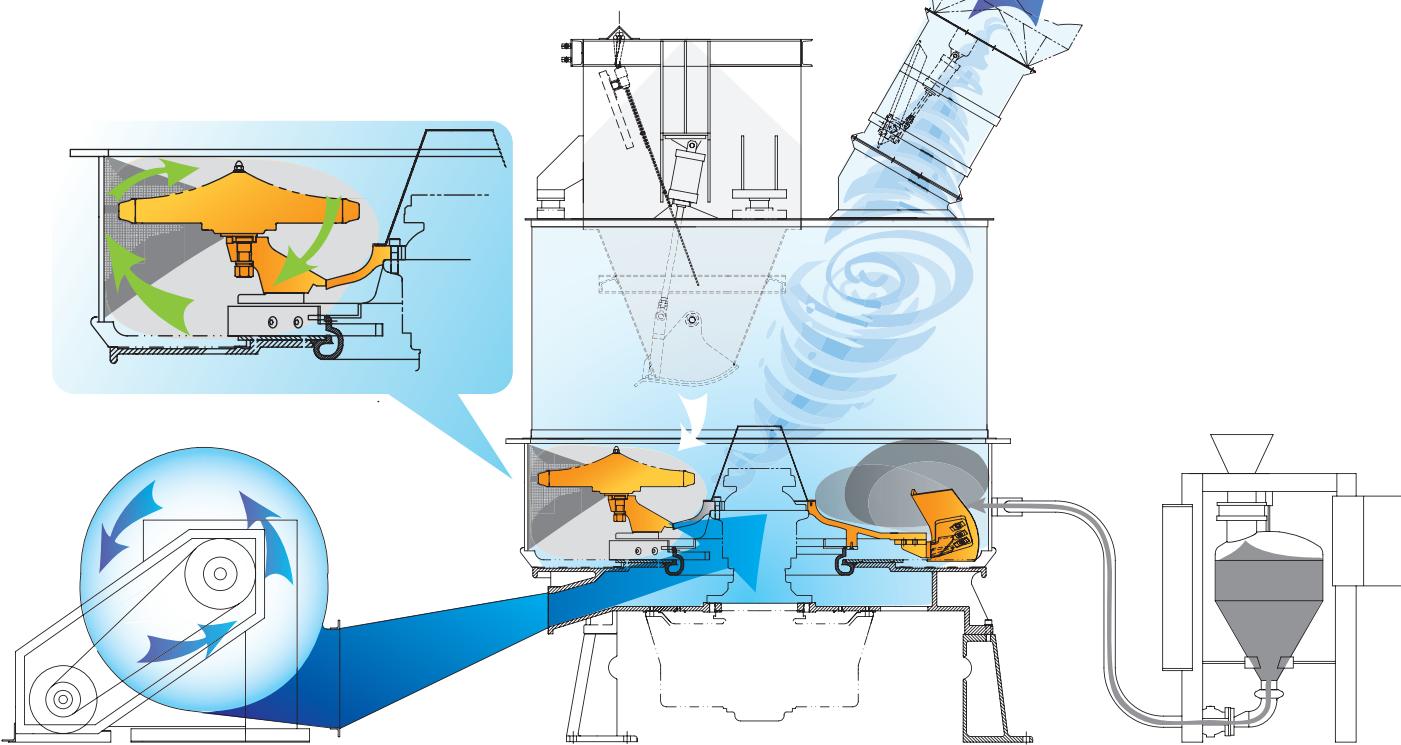
- Abrasion Resistant Polyurethane Liners and Tires
- Abrasion Resistant Ni-Hard Bottom Bowl Liner
- Carbide/Ceramic Plows
- HD Max Gearbox Upgrade

# Batch Mulling

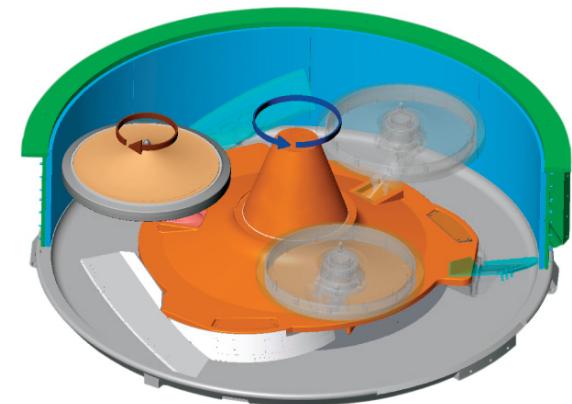


The Speedmullor combines all the best features of all the highintensity batch mixers into a single design — the mixing performance and energy efficiency of mulling with the productivity of a high-speed, high-intensity mixer. The Speedmullor will produce better molding sand, more consistently and at less cost than turbine mixers of the same capacity.

1 The Speedmullor's shorter cycle times result in high output allowing a more compact installation and reduced investment and installation costs.



## High-Speed



Intensive mulling in a Speedmullor is accomplished by horizontally mounted muller wheels compressing the sand against the mixer wall. Shearing and blending is provided by a series of plows mounted on the mixer crosshead. Rotating at high speed, the combination of muller wheels and plows provide full development of the bentonite and other additives.

## Simpson Speedmullor Technical Data - B Series

Model	75B	85B	100B	100B-250	150B
Batch Capacity	lbs	1,800	3,500	5,000	6,000
Output at 90s cycle	tph	36	70	100	120
Output at 120s cycle	tph	27	53	75	90
Muller Wheels		2	2	3	3
Cooling Blower	cfm	4,500	6,000	8,000	8,000
	hp	10	10	20	20
Width	in	98	114	140	140
Length	in	114	139	159	159
Height	in	134	141	148	160
Drive Motor	hp	100	125	200	250
Shipping Weight	lbs	15,800	27,500	29,000	34,500

All figures are approximate and are subject to change depending upon your application.

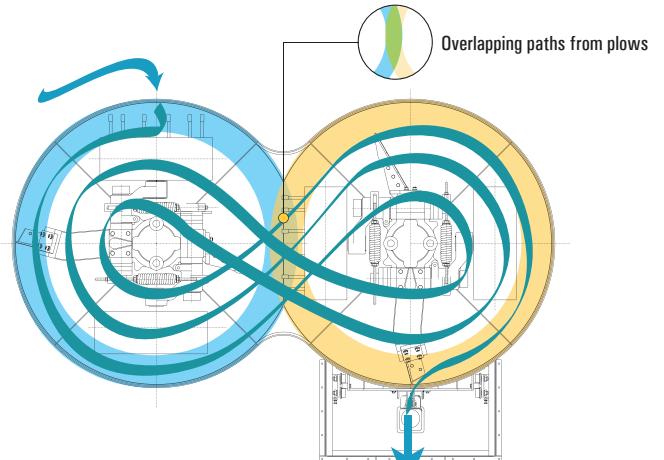
# Simpson Multi-Mull®

Foundries producing medium to very large volumes of castings on high-speed molding lines demand large volumes of prepared sand and maximum productivity from the sand plant. The Simpson Multi-Mull is specifically designed to provide medium to very large volumes of high-quality molding sand on a continuous basis and utilizes the same effective mulling technique as the Simpson Mix-Muller.

Description	Application	Features	Upgrades
Medium-speed, high-intensity, muller-type mixer for continuous operation.	Medium-to very large-sized sand preparation systems seeking consistently high volumes and maximum efficiency.	<ul style="list-style-type: none"> <li>Continuous mixing with back blending</li> <li>Maximum energy efficiency</li> <li>Controlled retention for consistency</li> </ul>	<ul style="list-style-type: none"> <li>Abrasion Resistant Polyurethane Liners</li> <li>Abrasion Resistant Polyurethane Wheels with Wear Indicators</li> <li>Discharge Door and Controls Upgrade</li> </ul>

## Efficiency

Two sets of counter-rotating mixing tools provide intensive mixing and continuous back-blending of a large volume of retained sand to eliminate any "first-in/first-out" effect and eliminate the variations in return sand properties. Based on sensors monitoring motor load, the control system adjusts the discharge door opening to maintain a constant volume of sand inside the mixer and/or change the retention time required for different applications.



## Simpson Multi-Mull Technical Data - G Series

Model	215G	22G	225G	23G-200	23G-250	26G-350	26G-400	26G-500	
Retained Capacity	lbs	2,500	4,900	7,080	9,700	12,180	16,500	19,500	22,500
at 90s Retention Time	tph	50	98	142	194	244	330	390	450
at 120s Retention Time	tph	37	73	106	145	183	247	292	337
at 150s Retention Time	tph	30	59	85	116	146	198	234	270
Crib Diameter	in	64	80	90	100	100	120	120	120
Crib Height	in	33	39	38	44	44	42	56	56
Height	in	100	105	125	130	130	140	160	160
Width	in	80	100	115	130	130	151	151	151
Length	in	125	155	175	195	195	232	232	232
Drive Motor	hp	50	100	150	200	250	300	400	500
Exhaust	ft <sup>3</sup> /min	2,100	3,800	5,100	7,600	7,600	11,000	11,000	11,000
Shipping Weight	lbs	15,000	25,000	38,200	56,000	60,000	80,000	83,000	100,000

All figures are approximate and are subject to change depending upon your application.

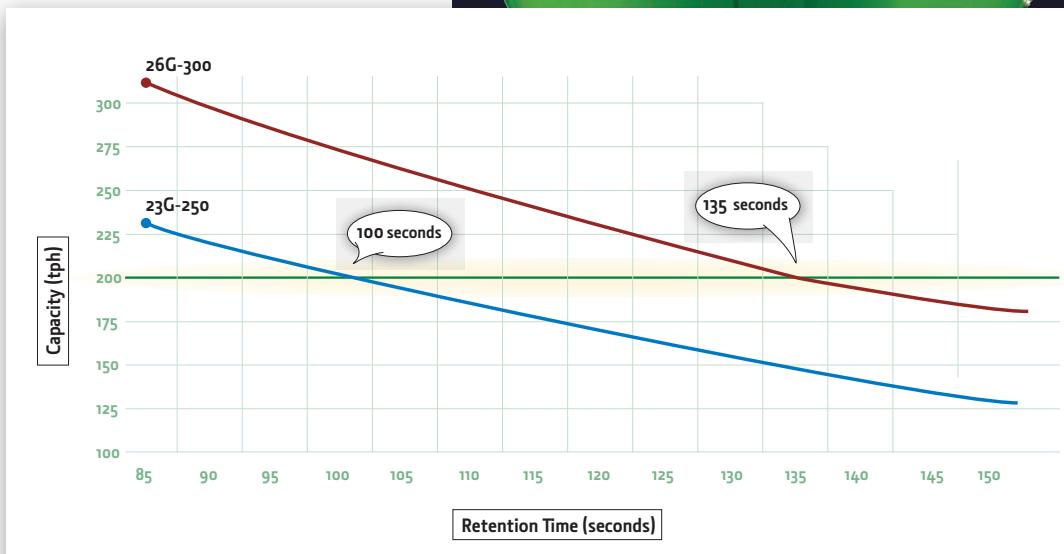
## Continuous Mulling

For high-volume, high-quality, cost-effective casting production, the Simpson Multi-Mull is the best solution. This technology produces larger volumes of molding sand at a lower cost of installation and operation than any other mixer in the world.



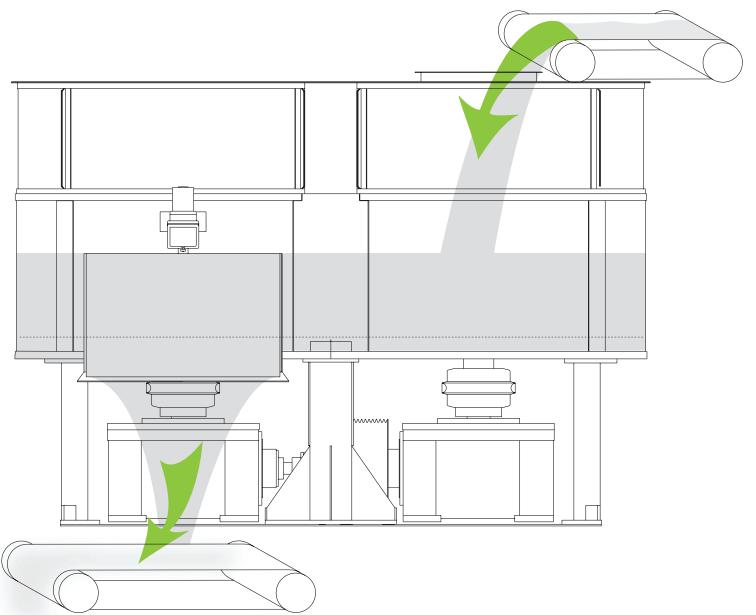
### 1 Production Capability

For a 200 tph application different models of the Multi-Mull can be selected depending on the required retention time. The 23G-250 allows for 100 seconds of retention while the 26G-300 would provide 135 seconds.



### 2 Lower Installation Costs

One Multi-Mull can easily exceed the combined output of two or more batch mixers and eliminate the cost of the additional mixers, control systems, additive dosing systems and their related maintenance and operating costs.



### 3 Lower Operating Costs

Working continuously, the starting and stopping of the muller is far less than a batch-type muller. Therefore, maintenance of muller components is comparatively also much less.

### 4 Productive and Efficient

No cycle time is used for charging or discharging, making the Multi-Mull more efficient in the use of expensive power and the application of energy to the mix than any batch-type mixer.

# Simpson Hartley®

## On-Line Control & Automation

Modern foundries worldwide demand continuous improvements in casting quality and process productivity as well as continuous reductions in process variability and costs. To achieve these goals, we have installed nearly 800 Simpson Hartley brand mixer group control & automation systems all over the world, in all types and sizes of foundries and on nearly all types of mixers.

Description	Application	Features	Upgrades
A complete green sand mixer group control and automation system.	Automation and control of mix preparation and machine function for any make and model of green sand mixer.	<ul style="list-style-type: none"> <li>Rugged design is easy to operate and maintain</li> <li>Complete automation of all mixer group functions</li> <li>Control of compactability to +/- 3 points in 90%+ of tests</li> <li>Data acquisition and reporting</li> </ul>	<ul style="list-style-type: none"> <li>New Hartley 2502-L1</li> <li>Compactability Controller</li> <li>mbNET Mini with VPN</li> </ul>

Simpson Hartley Technical Data				
Model	2502-L1	2552-B1	2552-C1	
Application	Batch Continuous	■ ■	■ ■ ■	
Measurements	Return Sand Conductivity Return Sand Temperature Batch Weight Compactability Green Strength Prepared Sand Moisture	■ ■ ■ ■ ■ ■	■ ■ ■ ■ ■ ■	■ ■ ■ ■ ■ ■
Capabilities	Mixer Group Automation Determine Available Bond Calculate Bond Addition Auto Tuning	■ ■ ■ ■	■ ■ ■ ■	■ ■ ■ ■
Features	Conductivity Sensors Temperature Sensors Operator Interface Data Collection Ethernet Compatable VPN Connectivity Remote Input/Output Water Addition Group	2 probes/3 points 3 probe/3 points 9" color ■ ■ ■ ■ ■ ■	2 probes/3 points 3 probes/3 points 10" color ■ ■ ■ ■ ■ ■	2 probes/1 point* 1 probe/1 point 10" color ■ ■ ■ ■ ■ ■
Control Cabinet	Deep (in) Width (in) Height (in) Weight (lbs)	10 36 42 210	10 36 72 400	10 36 72 400
Hartley Tester	Deep (in) Width (in) Height (in) Weight (lbs)	36 56 41 450	43 56 41 500	43 56 41 500

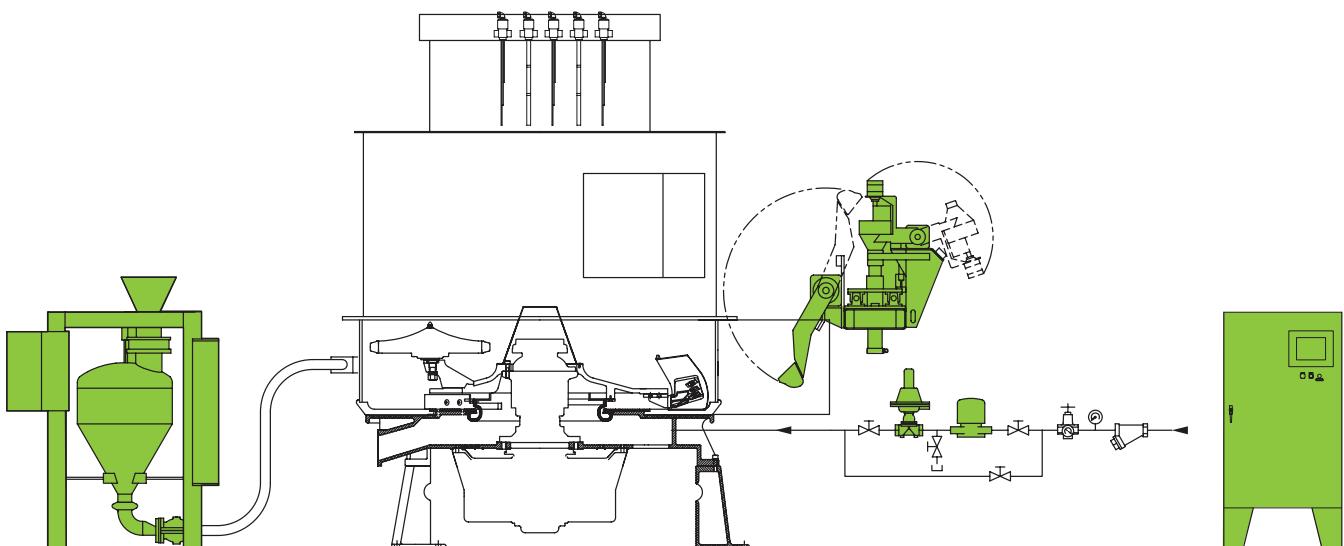
\*For model 2552-C1, the one zone is continuously fed into the system. All figures are approximate and subject to change depending upon your application.

## On-Line Control

1 Measurements of the return sand temperature, moisture and actual batch weight are taken in the batch hopper prior to dosing to the mixer.



2 On discharge, the Hartley tester obtains a sample of the sand and conducts tests on the compactability, green strength (model 2552 only) and moisture. The results are compared to the desired targets and the process control logic is adjusted accordingly.



3 The data from each test (available for display or can be exported to a data system) on all model testers includes: time of day, test number, return sand temperature, return sand conductivity, target compactability, actual compactability, target water addition, actual water addition, maximum muller drive motor amperage, target bond weight, actual bond weight and compactability deviation. The model 2552 additionally provides green compression strength, available bond percentage and the available bond average (last five tests).

4 Once the process inputs have been measured, the Hartley Controller calculates the required water addition to be added through a water injection system consisting of a positive displacement pulse flow meter and diaphragm valve to maintain a targeted compactability. The model 2552 additionally calculates the needed bond addition automatically. Weight based bond additions are added to the muller with the 90Mk2 for the 2552-B1 and Bond Addition System for the 2552-C1. The 2502-L1 adds bond based on a set weight determined by the foundry.



5 The control system is based on a high-performance, industrial programmable logic controller and has a touchscreen operator interface. The touchscreen provides display of, and the ability to adjust, all important parameters as well as diagnostic messages.

# Simpson Pro-Claim®

Save up to 75 to 90% of the cost of new sand by reclaiming with the Simpson Pro-Claim® sand reclaimer

Foundries all over the world are using the Simpson Pro-Claim® to inexpensively reclaim large volumes of bentonite or chemically bonded sand for reuse in the molding systems resulting in significant savings in raw material and disposal costs as well as increasing casting quality. This is the most energy efficient method of reclamation with a small environmental footprint and high throughput.

## Description

Continuous sand reclaimer working on the principle of pneumatic scrubbing.

## Application

For reclaiming green sand for reuse in green sand or chemically bonded sand for reuse in chemically bonded sand systems.

## Features

- Continuous operation requires no operator
- No moving parts in contact with sand, requires minimal maintenance
- Simple yet versatile operation effectively reclaims sand at a very low cost

## Effective

Sand enters the machine and is propelled up a blast tube with air provided by a turbo blower. As the sand accelerates up the tube to impact a conical target intensive sand scrubbing is achieved to remove layers of binder material. Removed binder and unwanted fines are exhausted to the dust collection system. Sand can be recirculated within the same cell or passed to successive cells. After the desired amount of cleaning has been achieved the sand is discharged over a final screening operation before being returned to the sand system.



## Simpson Pro-Claim Technical Data

Model	EVEN-FLO 2-CELL	PRO-CLAIM 2-CELL	PRO-CLAIM 4-CELL
Capacity	tph	1-2	3-5
Height	in	181	150
Width	in	70.5	117
Length	in	195	188
Supply Fan	hp/rpm/cfm	40/3, 600/1, 350	75/3, 600/2, 700
Shipping Weight	lbs	7,300	9,900
			15,500

**In today's competitive market you can't afford to miss the savings and technical advantages available from reclamation.**

Sand is the largest foundry process waste, typically constituting about 70% of total waste volume. Fortunately, most foundry sands are reclaimable and can be effectively reused.

## The basic reasons for reclaiming sand

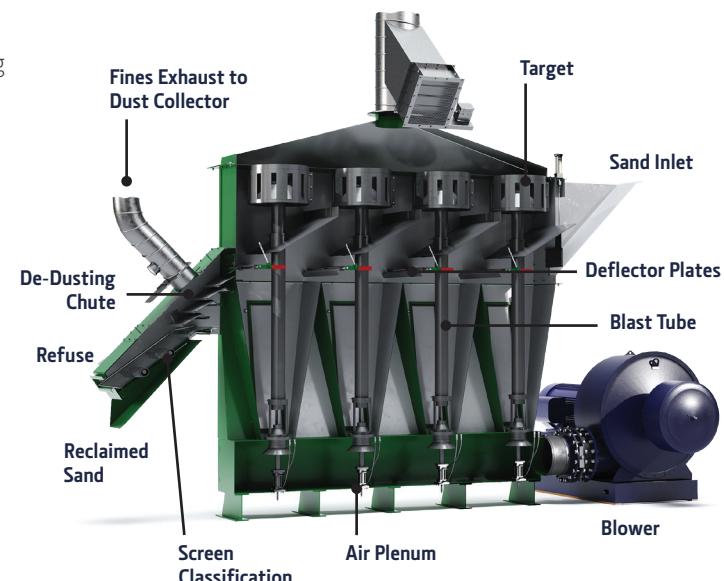
### It's Cost Saving.

The costs of molding and core sand continue to increase significantly and cut into foundry profitability. To lower the cost of producing a casting foundries desire to reduce total sand cost which includes the purchase cost, delivery cost, unloading, storing, handling and disposal costs including, in some instances, ever more expensive landfill fees.

### It's Environmentally Responsible.

Environmentally it's becoming increasingly more difficult to dispose of great quantities of waste sand into a landfill. Environmental agencies of the local, state and federal governments want to know what chemicals are in all refuse and what amounts might be leached from the sand.

**It Has Technical Advantages.** Technically, reclamation is of interest because many foundries report that better castings can be made, at lower costs, from reclaimed sand.



## Cost Improvement Opportunity

### With Nobake and Coldbox Resins

- Reuse Up To 90% Of Reclaimed Sand
- Reduce Adv/Ph Of Reclaimed Sand
- Reduce Loi Of Reclaimed Sand
- Reduce Agglomerations

### With Green Sand Systems

- Reuse Up To 90% Of Reclaimed Sand
- Reduce Afs Clay While Saving Mb Clay
- Reduce Loi Of Reclaimed Sand
- Reduce Agglomerations

# Simpson Sand Testing Equipment

To achieve the highest casting quality levels and the lowest costs of operation, modern foundries demand laboratory instrumentation that is accurate, easy to use and calibrate, repeatable and dependable.

## Description

A complete line of more than 70 advanced sand testing equipment and accessories.

## Application

Testing the properties of prepared bentonite or chemically bonded sands or raw materials.

## Features

- More accurate and repeatable than conventional equipment.
- Easy to use and calibrate to traceable standards.
- Economical to purchase and maintain
- Advanced designs allow for better testing.

## Accurate

Simpson Sand Testing Equipment product line is the combination of the former the Simpson+Gerosa and +GF+/DISA sand testing equipment product lines into the world's largest, most advanced line of sand laboratory testing instrumentation. More foundries, foundry suppliers and research centers around the world use Simpson Sand Testing Equipment (including former Simpson+Gerosa and +GF+/DISA) sand testing equipment than any other brand. Simpson Sand Testing Equipment features advanced technologies for testing the characteristics of raw materials, bentonite bonded sand, chemically bonded sand, core sand and shell/corning sands.

Sand testing is an essential tool in the development and maintenance of quality and efficiency in a large or small metalcasting plant.



## Knowledge

Critical operational and quality control decisions in foundry operations are made every day based on the results of laboratory analysis of foundry processes and materials. In modern, high-production foundries, casting defects and process inefficiencies can quickly reduce foundry profitability and competitiveness. To give you better understanding of, and control over your materials and processes, Simpson is committed to the continuous development of sand testing equipment. We have incorporated the latest advancements in electronics, sensors and process technology to achieve increased accuracy and repeatability, improved ease of use, lower cost of operation and better test results. A complete product line of more than 70 different pieces of equipment is available to test all of the characteristics of prepared sand or raw materials. With better process data, foundries will make better decisions and higher-quality, more profitable castings.

# Simpson Parts & Service

## Spare Parts

### Maximize Performance With OEM Parts & Upgrades

By dealing directly with the original equipment manufacturer (OEM) you will benefit from fast delivery, parts produced from original drawings, access to design improvements, comprehensive documentation and manuals. We have a multi-million dollar inventory of parts and accessories strategically located in the heart of North America and in Central Europe. Our offices in Germany and India also maintain a local inventory of high demand parts and offer services for customers in their area.



## Manuals And Operation Documentation

You can order a new set of manuals and general arrangement drawings covering your Simpson or Beardsley & Piper equipment. We retain documentation on the design of most of our equipment going back more than 50 years and can recreate a documentation package for you from the serial number of the machine.

Contact us at [parts@simpsongroup.com](mailto:parts@simpsongroup.com)

## Performance Partnership

### Maximize Performance & Avoid Unexpected Downtime

As an owner and operator of Simpson equipment you want to be sure it is operating at peak performance. As a Performance Partner, a fully qualified service engineer will visit your plant to inspect your Simpson equipment on a regularly scheduled basis. You will benefit from preventive maintenance, equipment inspection, calibration and annual training with priority scheduling and preferred pricing. Refresher training for existing staff or basic training for new personnel is available at any time.

Simpson is the only authorized provider of calibration and repair services for your Simpson equipment. Our detailed knowledge of each instrument allows for accurate and dependable adjustment and calibration.

See the benefits "Customer A" takes advantage of by being a Performance Partner compared to "Customer B" who is not.

	CUSTOMER "A"	CUSTOMER "B"
Performance Partner Member	✓ Quarterly Visits	None
Professional Fees	Receives Up To 25% Discount On Regular Rates	Regular Rates
Travel And Living Expenses (T&L)	Expenses for the trip are distributed evenly to all customers on that trip. In many cases the expenses can be split between 5 or more customers	Expenses are billed in total to the customer who ordered the service
Time Billed	No minimum hours billed and travel time billed at a discounted rate	8 Hour minimum plus round trip travel time from point of origin
Emergency Visits	Emergency visits made in addition to regular scheduled visits are billed at the discounted rate, but t&l expense are billed in full	All fees and costs are billed at Standard rates
Scheduling Priority	✓	Scheduled upon availability

Contact us at [service@simpsongroup.com](mailto:service@simpsongroup.com)



## Simpson Technologies Corporation

2135 City Gate Lane Suite 500

Naperville, IL 60563

USA

Tel: +1 (630) 978 0044

[sales@simpsongroup.com](mailto:sales@simpsongroup.com)

[sandtesting@simpsongroup.com](mailto:sandtesting@simpsongroup.com)

[parts@simpsongroup.com](mailto:parts@simpsongroup.com)

[service@simpsongroup.com](mailto:service@simpsongroup.com)



## Norican Group Asia Pacific Headquarters

Room 2106-2107, Tower 1, Shanghai

Jin Hong Qiao International Center

No.523, Loushanguan Road

Changning District 200051, Shanghai

China

Tel: +86 021 61131777

[info-china@noricangroup.com](mailto:info-china@noricangroup.com)



## Norican Group de Mexico

Rectangulos 214 Parque Industrial

Arco, Vial MX-66023

Tel: +52 81 1946 1000

[Sales.MX@noricangroup.com](mailto:Sales.MX@noricangroup.com)



## DISA India Limited

World Trade Center (WTC),

6th Floor, Unit no S-604,

Brigade Gateway Campus, 26/1,

Dr Raikumar Road,

Malleswaram-Rajajinagar, 560055 Bangalore

India

Tel: +91 80 2249 6700

[bangalore@noricangroup.com](mailto:bangalore@noricangroup.com)



## Simpson Technologies GmbH

Thomas-Eßer-Str. 86

D - 53879 Euskirchen

Germany

Tel: +49 (0) 2251-9460-0

[info.de@simpsongroup.com](mailto:info.de@simpsongroup.com)

[sales.de@simpsongroup.com](mailto:sales.de@simpsongroup.com)

[service.de@simpsongroup.com](mailto:service.de@simpsongroup.com)



## Norican Group Global Headquarters

Højager 8

DK-2630

Taastrup

Tel: +45 44 50 50 50

[disa.industries@disagroup.com](mailto:disa.industries@disagroup.com)

Selected Simpson products are also produced under license by:



## In South America

Küttnerdo Brasil Equipamentos Siderúrgicos Ltda

Rua Santiago Ballesteros, 610

Contagem - MG 32010-050

BRAZIL

Tel: +55 (031) 3399 7200

**simpsongroup.com**