



EQUIPMENT & DIAMOND TOOLING

PRODUCT CATALOG



INDUSTRIAL FLOOR GRINDERS

SIMIRON'S Industrial Grinders are designed for reliability and longevity. When paired with Simiron diamond tools, our planetary grinders provide an even floor surface. Our assortment of flexible grinders provides answers for every floor or job.



SG680 PROPANE Industrial Floor Grinder

The **SG680** propane floor grinder is engineered for the fastest and most effective removal of old concrete floors. It features an aluminum alloy gearbox, planetary gear drive, and Briggs & Stratton 27 HP 810cc Professional Series Engine. Integrated weights assist raise or reduce grinding pressure while grinding and polishing concrete floors.

Specifications

POWER SOURCE	Propane
OUTPUT POWER	20 HP (656 CC)
REQUIRED CIRCUIT	(3) 8.5" Heads
RPM	1,750 - 3,150
GRINDING WIDTH	680mm [27"]
GRINDING DISCS	3
MACHINE WEIGHT	950 lbs
Recommended Extractors - SV5, SV4	



SG780 Industrial Floor Grinder

The **SG780** electric floor grinder is manufactured by SIMIRON and uses 480-volt, 3-phase electricity and a 20-horsepower motor to operate a 4-disc planetary grinding head. The **SG780** accepts diamond tools and polishing pads. It also has a 6-gallon internal water capacity and a robust dust shield to reduce dust. It can be used for wet or dry grinding as well as vacuum grinding.

Specifications

POWER SOURCE	Electric
OUTPUT POWER	20 HP (15 kW)
REQUIRED CIRCUIT	3 Phase/460 volt/ 22 AMP
RPM	300 - 1,800
GRINDING WIDTH	780 mm [31"]
GRINDING DISCS	4
MACHINE WEIGHT	880 lbs
Recommended Extractors - SV5, SV4	



SG600 Industrial Floor Grinder

The **SG600** electric floor grinder prepares concrete for coating materials, removes existing coatings and underlayments, and polishes concrete. This grinder can grind wet or dry and has a 3-disc planetary grinding head. It has a 6-gallon water capacity and a vacuum port for dry grinding. The **SG600** is compatible with SIMIRON vacuum systems.

Specifications

POWER SOURCE	Electric
OUTPUT POWER	7.5 HP (5.5 kW)
REQUIRED CIRCUIT	1 or 3 Phase/220-240 volts/19 AMP
RPM	300 - 1,600
GRINDING WIDTH	600 mm [25"]
GRINDING DISCS	3
MACHINE WEIGHT	620 lbs
Recommended Extractors - SV5, SV4, SV3	



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SG500

Industrial Floor Grinder

The **SG500** concrete floor grinder is a great machine for smaller jobs and homes, offices, shops or warehouses. It can be used for coarse grinding, preparation, maintenance and polishing, making it very versatile. The size and weight allow for easy loading and unloading at the jobsite or to carry up to a mezzanine or landing. This machine uses standard 220 volt single phase power so no need for 240v electrical connection!

Specifications

POWER SOURCE	Electric
OUTPUT POWER	5.5 HP [4 kW]
REQUIRED CIRCUIT	1 Phase/220-240 Volt/19 AMP
RPM	300 - 1,600
GRINDING WIDTH	480 mm [18"]
GRINDING DISCS	3
MACHINE WEIGHT	410 lbs

Recommended Extractors - SV4, SV3



SG20

Industrial Floor Grinder

The **SG20** is a great machine for medium-sized grinding jobs. This machine is a double head (6 pads), cross rotation, which greatly improves work efficiency and saves labor costs. It's an economical and practical choice for many users.

Specifications

POWER SOURCE	Electric
OUTPUT POWER	4 HP [3 kW]
REQUIRED CIRCUIT	1 Phase/220-240 Volt/15 AMP
RPM	300 - 1,600
GRINDING WIDTH	520 mm [20"]
GRINDING DISCS	2
MACHINE WEIGHT	300 lbs

Recommended Extractors - SV4, SV3



SG16

Industrial Floor Grinder

The **SG16** Grinder is a lightweight 110-volt grinder perfect for commercial projects, garages, basements, and difficult to access areas. The **SG16** utilizes innovative engineering and design to maximize user safety and productivity. The unique carriage design includes a floating head, which provides increased surface contact and reduced amp draw resulting in faster and more efficient operation.

Specifications

POWER SOURCE	Electric
OUTPUT POWER	1.5 HP
REQUIRED CIRCUIT	1 Phase/110 volt/ 9.5 AMP
RPM	165 - 300
GRINDING WIDTH	400 mm [16"]
GRINDING DISCS	1
MACHINE WEIGHT	135 lbs

Recommended Extractors - SV3

INDUSTRIAL DUST EXTRACTORS

SIMIRON Dust Extractors are designed to clean construction areas and be connected to electrical machines such as drills, grinders etc. The machine is suitable for picking up dry, non-flammable dust and debris in and indoor environment. It is not suitable for picking up liquids.



SV5 Dual Stage Industrial Extractor

The **SV5** dust extractor is designed to clean construction areas and is connected to tools and machines such as drills, grinders etc. With H12 HEPA filter and a drop-down longopac bag compatible for easy and fast loading/unloading, this tool is great for your home or workspace. The three-stage filtration is high efficiency at removing large particles and high suction capacity, which makes it ideal for light to medium duty applications.

Specifications

POWER SOURCE	Electric
OUTPUT POWER	1 Phase/110 volt/20 AMP
MOTOR OUTPUT	5 HP (3.6 Kw)
VACUUM (MBAR)	320
WATER LIFT	100 in.
CFM	345
FILTER CAPACITY	0.3 um
FILTER TYPE	H13 HEPA
WEIGHT	190 lbs
BAG TYPE	Continuous

Recommended Grinders - SG780, SG600, SG680 P



SV4 Industrial Extractor With Pre-Separator

The **SV4** vacuum is the industry standard for dust collecting. It utilizes centrifugal force and gravity to remove heavy, coarse particles from its airstream, resulting in a filter with a longer life and superior cleaning capabilities. Equipped with a Pre-Separator, the **SV4** is ideal for applications requiring the collection of low amounts of particles, such as food processing plants, boiler rooms, and industrial facilities.

Specifications

POWER SOURCE	Electric
OUTPUT POWER	1 Phase/110 volt/20 AMP
MOTOR OUTPUT	4 HP (3 Kw)
VACUUM (MBAR)	230
WATER LIFT	100 in.
CFM	265
FILTER CAPACITY	0.3 um
FILTER TYPE	H13 HEPA
WEIGHT	175 lbs
BAG TYPE	Continuous

Recommended Grinders - SG780, SG600, SG500, SG680 P



SV3 Concrete Dust Extractor

The **SV3** utilizes a single HEPA filter system for efficient cleaning performance. It is designed for use with SIMIRON Floor Preparation Equipment, or any application where dust collection is needed. The **SV3** is only for DRY materials, and should never be used for wet applications.

Specifications

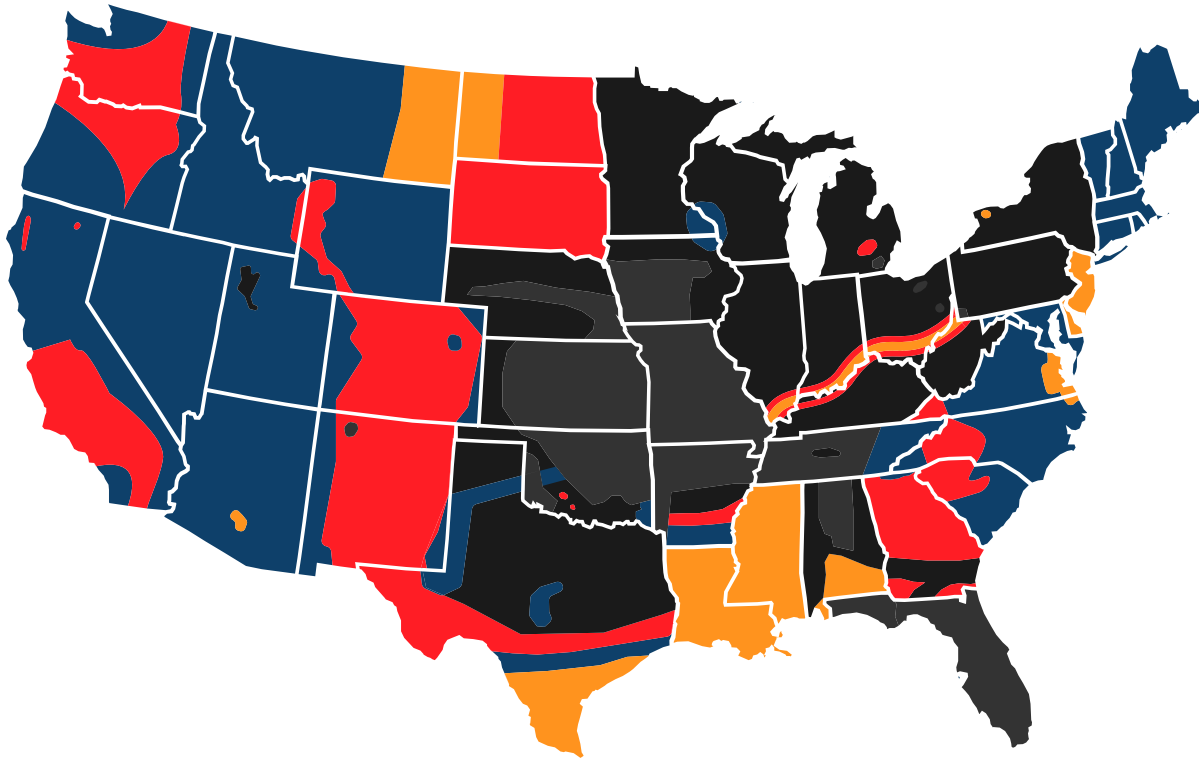
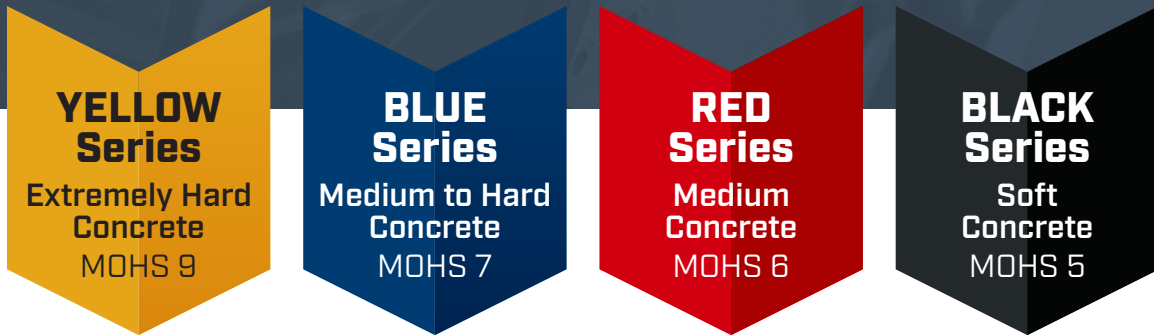
POWER SOURCE	Electric
OUTPUT POWER	1 Phase/110 volt/20 AMP
MOTOR OUTPUT	4 HP (3 Kw)
VACUUM (MBAR)	200
WATER LIFT	100 in.
CFM	265
FILTER CAPACITY	0.3 um
FILTER TYPE	H13 HEPA
WEIGHT	125 lbs
BAG TYPE	Continuous

Recommended Grinders - SG500, SG20, SG16

UNITED STATES AGGREGATE MAP FOR DIAMOND BLADE SELECTION

Contractors that cut and grind concrete must select diamond blades and abrasives based on the aggregate hardness in their region.

Identifying the aggregate type in concrete or asphalt affects blade performance and bit selection. Stone, gravel, and sand used in concrete vary by area and geographic region.



This map illustrates the range of abrasive and medium-hard aggregates found around the world, from the soft, talc-like talc to the hard, flint-like chert, and the different medium-to-medium-hard levels and abrasive characteristics in between. As a general guidance for sawing and drilling blade selection, it illustrates the aggregate and hardness that are likely to be encountered in each state. Even while aggregate size and type might vary widely within a particular region, it is typically true that aggregates in specific geographic regions are similar in size and composition. Aggregate from across the United States is increasingly being delivered to this region due to a lack in local supply of a particular sort of material. This aggregate map provides an overview of the most frequent aggregates in the area.

METAL BOND

Simiron has a complete range of metal bond tooling designed to ensure maximum life and performance rate for all concrete floors depending on hardness. Every metal bond series corresponds with the MOH's hardness scale, helping contractors confidently know what metal bond series to use on every concrete grinding project.

BLACK Series—Soft Concrete

MOHS 5



DIAMOND Metal Double Segment—Soft Bond

GRIT	DESCRIPTION	PART #
6	Designed for coating removal, thin mastic removal, exposing large aggregate, and prepping concrete for applying coatings 10-25 mils.	40006839
16	Designed for coating removal, thin mastic removal, exposing large aggregate, and prepping concrete for applying coatings 10-20 mils.	40001099
30	Designed for coating removal, thin mastic removal, exposing large aggregate, and prepping concrete for applying coatings under 10 mils.	40001104

BLUE Series—Hard to Medium Concrete

MOHS 7



DIAMOND Metal Double Segment—Hard to Medium Bond

GRIT	DESCRIPTION	PART #
6	Designed for coating removal, thin mastic removal, exposing large aggregate, and prepping concrete for applying coatings 10-25 mils.	40006822
16	Designed for coating removal, thin mastic removal, exposing large aggregate, and prepping concrete for applying coatings 10-20 mils.	40001101
30	Designed for coating removal, thin mastic removal, exposing large aggregate, and prepping concrete for applying coatings under 10 mils.	40001106

RED Series—Medium Concrete

MOHS 6



DIAMOND Metal Double Segment—Medium Bond

GRIT	DESCRIPTION	PART #
6	Designed for coating removal, thin mastic removal, exposing large aggregate, and prepping concrete for applying coatings 10-25 mils.	40006815
16	Designed for coating removal, thin mastic removal, exposing large aggregate, and prepping concrete for applying coatings 10-20 mils.	40001100
30	Designed for coating removal, thin mastic removal, exposing large aggregate, and prepping concrete for applying coatings under 10 mils.	40001105



ROUND Metal Double Segment—Medium Bond

GRIT	DESCRIPTION	PART #
70	Designed as a first step for new concrete polishing, honing concrete, and removing scratches from courser grits. Ideal for concrete stains.	40006501



CAP-CUTTER Metal Double Segment—Medium Bond

GRIT	DESCRIPTION	PART #
16	Designed to remove the dense cap on a hard-troweled concrete floor more efficiently than standard tools. The alternating layers of hard and soft metal/diamond and 16 grit diamond make are more effective than tools with larger size diamonds.	40006792

METAL BOND

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RED Series—Medium Concrete

MOHS 6



RECTANGLE Metal Double Segment—Medium Bond

GRIT	DESCRIPTION	PART #
25	Single segment diamond for smaller grinders with less head pressure. Designed for coating removal, thin mastic removal, exposing large aggregate, and prepping concrete for applying coatings under 10 mils.	40006808



3" 10-SEGMENT Metal Double Segment—Medium Bond

GRIT	DESCRIPTION	PART #
16	Excellent for grinding medium to hard concrete as a first step in the polishing process. Extremely long life and excellent scratch pattern for concrete polishing process.	40008192
30	Excellent for grinding medium to hard concrete as a first step in the polishing process. Extremely long life and excellent scratch pattern for concrete polishing process.	40006518
70	Excellent for grinding medium to hard concrete as a first step in the polishing process. Extremely long life and excellent scratch pattern for concrete polishing process.	40006525
120	Excellent for grinding medium to hard concrete as a first step in the polishing process. Extremely long life and excellent scratch pattern for concrete polishing process.	40006532



LIGHTNING 7" Cup Wheel—Medium Bond

GRIT	DESCRIPTION	PART #
30	Very fast and aggressive cup wheel designed for the removal of coatings. Will leave a uniform finish for a great first step in polishing or coating application.	40006259



S-SHAPE 7" Cup Wheel—Medium Bond

GRIT	DESCRIPTION	PART #
30	The aggressive S segment shape has more leading edges to expose more diamonds leading to faster prep and coating removal.	40006266



ARROW 7" Cup Wheel—Medium Bond

GRIT	DESCRIPTION	PART #
30	High performance cutting wheel. The unique arrow shape segments work great for cutting hard surfaces and removing thin glue.	40006273



DOUBLE ROW 7" Cup Wheel—Medium Bond

GRIT	DESCRIPTION	PART #
30	Double row diamond segments are designed for smooth grinding and extra life. Can be used wet or dry.	40006549

REMOVAL

Simiron has a complete line of removal tooling to maximize the efficiency of removing thin to thick coatings or systems. Using these removal tools saves REMOVAL time and money to finish the job as quickly as possible.

REMOVAL TOOLING



PCD Pirahna Large Tooth

TOOLING CATEGORY	DESCRIPTION	PART #	SIDE
REMOVAL	The most aggressive removal tool available. These PCD diamonds are designed to rip through the toughest and thickest of coatings.	40006938	R
REMOVAL	The most aggressive removal tool available. These PCD diamonds are designed to rip through the toughest and thickest of coatings.	40006846	L



PCD 3 Round With Wear Bar

TOOLING CATEGORY	DESCRIPTION	PART #	SIDE
REMOVAL	Removal tool for thick coating removal. Designed with a wear bar that helps remove guage marks during the removal process saving time and money.	40006921	R
REMOVAL	Removal tool for thick coating removal. Designed with a wear bar that helps remove guage marks during the removal process saving time and money.	40006860	L



PCD Pirahna Small Tooth

TOOLING CATEGORY	DESCRIPTION	PART #	SIDE
REMOVAL	Very aggressive and fast removal tool designed to rip through the tough coatings.	40006914	R
REMOVAL	Very aggressive and fast removal tool designed to rip through the tough coatings.	40006853	L



PCD 7" Cup Wheel—9 - 1/4"

TOOLING CATEGORY	DESCRIPTION	PART #
REMOVAL	PCD Cup Wheels are designed for fast removal of epoxy, paint, glue, acrylics, mastics, adhesives, urethane, elastic coatings, etc. concrete surfaces. The quarter-round segments on our wheels are for thicker coatings up to 3mm (1/8 in) and provide longer wheel life than PCD chip segment wheels.	40006280



PCD 7" Cup Wheel—12 - 1/8"

TOOLING CATEGORY	DESCRIPTION	PART #
REMOVAL	These advanced PCD Cup Wheels are more aggressive and last longer than your traditional diamond cup wheels. They're designed for fast productivity for removal of adhesives, epoxy, urethane, paint, mastic, and other floor coatings.	40006303



PCD 7" Cup Wheel—6 - 1/4"

TOOLING CATEGORY	DESCRIPTION	PART #
REMOVAL	PCD Cup Wheels are designed for fast removal of epoxy, paint, glue, acrylics, mastics, adhesives, urethane, elastic coatings, etc. concrete surfaces. The quarter-round segments on our wheels are for thicker coatings up to 3mm (1/8 in) and provide longer wheel life than PCD chip segment wheels.	40006297

Simiron Ceramic Cup Wheels make edgework easy. These cup wheels eliminate the need for metal bond cup wheels and eliminate steps off edging while providing great results.

CERAMIC—Cup Wheels



CERAMIC 7" Cup Wheel

GRIT	DESCRIPTION	PART #
30	Ceramic grinding cup wheels are designed to replace metal grinding cups. They cut far faster than metals and leave a smooth scratch pattern for such an aggressive grinding tool. Excellent for concrete polishing	40006310



CERAMIC 7" Cup Wheel

GRIT	DESCRIPTION	PART #
50	Ceramic grinding cup wheels are designed to replace metal grinding cups. They cut far faster than metals and leave a smooth scratch pattern for such an aggressive grinding tool. Excellent for concrete polishing	40006327



CERAMIC 7" Cup Wheel

GRIT	DESCRIPTION	PART #
100	Ceramic grinding cup wheels are designed to replace metal grinding cups. They cut far faster than metals and leave a smooth scratch pattern for such an aggressive grinding tool. Excellent for concrete polishing	40006334



CERAMIC 7" Cup Wheel

GRIT	DESCRIPTION	PART #
200	Ceramic grinding cup wheels are designed to replace metal grinding cups. They cut far faster than metals and leave a smooth scratch pattern for such an aggressive grinding tool. Excellent for concrete polishing	40006341



CERAMIC 7" Cup Wheel

GRIT	DESCRIPTION	PART #
400	Ceramic grinding cup wheels are designed to replace metal grinding cups. They cut far faster than metals and leave a smooth scratch pattern for such an aggressive grinding tool. Excellent for concrete polishing	40006358



POLISHING PAD—Hybrid



DRY Hybrid Resin Polishing pad

GRIT	DESCRIPTION	PART #
30	Can be the starting point on a cream or salt and pepper application. Sometimes needed to remove cure and seal from new construction.	40006365



DRY Hybrid Resin Polishing pad

GRIT	DESCRIPTION	PART #
50	Can be the starting point on a cream or salt and pepper application. Removed 30 grit resin scratches.	40006372



DRY Hybrid Resin Polishing pad

GRIT	DESCRIPTION	PART #
100	Can be the starting point on a cream or salt and pepper application. Removed 50 grit resin scratches.	40006389



DRY Hybrid Resin Polishing pad

GRIT	DESCRIPTION	PART #
200	Removes 100 grit resin scratches or next step after transitioning from hybrid resins.	40006396



DRY Hybrid Resin Polishing pad

GRIT	DESCRIPTION	PART #
400	Removes 200 grit resin scratches or next step after transitioning from hybrid resins.	40006402



DRY Hybrid Resin Polishing pad

GRIT	DESCRIPTION	PART #
800	Removes 400 grit resin scratches or next step after transitioning from hybrid resins.	40006419



DRY Hybrid Resin Polishing pad

GRIT	DESCRIPTION	PART #
1500	Removes 800 grit resin scratches or next step after transitioning from hybrid resins.	40006426



DRY Hybrid Resin Polishing pad

GRIT	DESCRIPTION	PART #
3000	Removes 1500 grit resin scratches or next step after transitioning from hybrid resins.	40006433

ADAPTERS

These SIMIRON approved adapters easily attaches to floor grinding machines, and allows the fast change system to be outfitted with diamond tools. Installation is very simple and quick which simply slides in the adapter and attach the tooling.

ADAPTERS—Quick Change



HUSQVARNA Quick Change Adapter

DESCRIPTION	PART #
Quick change adapter will attach to a Husqvarna machine allowing the use of Simiron tooling.	40006945



SASE Quick Change Adapter

DESCRIPTION	PART #
Quick change adapter will attach to a SASE machine allowing the use of Simiron tooling.	40006969



HTC Quick Change Adapter

DESCRIPTION	PART #
Quick change adapter will attach to a HTC machine allowing the use of Simiron tooling.	40006976



LAVINA Quick Change Adapter

DESCRIPTION	PART #
Quick change adapter will attach to a Lavina machine allowing the use of Simiron tooling.	40006396





SIMIRON™