

P/M® It's a System
Not a Machine

SUBSTRATE TECHNOLOGY, INC. PREP/MASTER® GRINDERS

It's a System
P/M®
Not a Machine



www.SubstrateTechnology.com



SUBSTRATE PREP/MASTER

Multiple Applications

- Concrete Prep
- Concrete Polishing
- Terrazzo
- Marble
- Granite



Polished Terrazzo



Prep/Master® Jr.
Up to 1,000 SF (100 M²)

Motor	7.5 HP-3 phase (5.5kW)
Power Source	220-240V Single Phase, 40A
Weight	455 lbs. (206 kg)
Tool RPM	250-500 RPM Variable
Number of Tools	6
Tool Attachment Style	EG Proprietary Attachment System
Length x Width x Height	50 x 23 x 48 in. (127 x 58 x 122 cm)
Recommended Vacuum	PM3003AR (309 CFM) or equivalent
Vacuum Hose (sold separately)	3 in. (76 mm)

Production Rates

Mastic Removal:	200 SF / 20m ² per hr
Thin Set Removal:	200 SF / 20m ² per hr
Mil Coatings Removal:	200 SF / 20m ² per hr
Polished Concrete:	300 SF / 30m ² per hr



STI-2807
Up to 2,000 SF (200 M²)

Motor	7.5 HP-3 phase (5.5kW)
Power Source	220/230 VAC 1 or 3 Phase, 60 Hz 380/480 VAC 3 Phase, 50-60 Hz
Power Cord	30 ft. (8-4)
Weight	743 lbs. (337 kg)
Tool RPM	300-750 RPM variable
Number of Tools	6
Tool Attachment Style	EG Proprietary Attachment System
Length x Width x Height	57 x 28 x 51 in. (145 x 71 x 130 cm)
Recommended Vacuum	PM3003AR (309 CFM) or equivalent
Vacuum Hose (sold separately)	3 in. (76 mm)

Production Rates

Mastic Removal:	375 SF / 40m ² per hr
Thin Set Removal:	425 SF / 45m ² per hr
Mil Coatings Removal:	225 SF / 20m ² per hr
Polished Concrete:	575 SF / 60m ² per hr

ATE TECHNOLOGY, INC.

® ELECTRIC GRINDERS

PM® It's a System
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STI-2420

Up to 5,000 SF (500 M²)

STI-3030

Up to 10,000 SF (1,000 M²)

STI-4430

Up to 20,000 SF (2,000 M²)

Motor	20 HP-3 phase (14.7kW)
Power Source	220/230 VAC 1 or 3 Phase, 60 Hz 380/480 VAC 3 Phase, 50-60 Hz
Power Cord	30 ft. (8-4)
Weight	978 lbs. (444 kg)
Tool RPM	250-750 RPM variable
Number of Tools	12
Tool Attachment Style	EG Proprietary Attachment System
Length x Width x Height	72 x 28 x 50 in. (191 x 69 x 127 cm)
Recommended Vacuum	PM3003AR (309 CFM) or equivalent
Vacuum Hose (sold separately)	3 in. (76 mm)

Motor	30 HP-3 phase (22kW)
Power Source	220/230 VAC 1 or 3 Phase, 60 Hz 380/480 VAC 3 Phase, 50-60 Hz
Power Cord	30 ft. (6-4)
Weight	1,320 lbs. (599 kg)
Tool RPM	300-750 RPM variable
Number of Tools	12
Tool Attachment Style	EG Proprietary Attachment System
Length x Width x Height	86 x 30 x 52 in. (218 x 76 x 132 cm)
Recommended Vacuum	PM3003GP (318 CFM) with pre-separator or equivalent
Vacuum Hose (sold separately)	3 in. (76 mm)

Motor	30 HP-3 phase (22kW)
Power Source	220/230 VAC 1 or 3 Phase, 60 Hz 380/480 VAC 3 Phase, 50-60 Hz
Power Cord	30 ft. (6-4)
Weight	1,460 lbs. (662 kg)
Tool RPM	250-750 RPM variable
Number of Tools	24
Tool Attachment Style	EG Proprietary Attachment System
Length x Width x Height	80 x 44 x 52 in. (203 x 112 x 132 cm)
Recommended Vacuum	PM3003GP (318 CFM) with pre-separator or equivalent
Vacuum Hose (sold separately)	3 in. (76 mm)

Production Rates

Mastic Removal:	475 SF / 50m ² per hr
Thin Set Removal:	525 SF / 55m ² per hr
Mil Coatings Removal:	325 SF / 30m ² per hr
Polished Concrete:	925 SF / 90m ² per hr

Production Rates

Mastic Removal:	600 SF / 60m ² per hr
Thin Set Removal:	600 SF / 60m ² per hr
Mil Coatings Removal:	425 SF / 40m ² per hr
Polished Concrete:	1,200 SF / 120m ² per hr

Production Rates

Mastic Removal:	725 SF / 70m ² per hr
Thin Set Removal:	725 SF / 70m ² per hr
Mil Coatings Removal:	575 SF / 60m ² per hr
Polished Concrete:	5,025 SF / 500m ² per hr

SUBSTRATE TECHNOLOGY PREP/MASTER® PM

STI Reputation

Superior Products
Make All the Difference
in the World!

Substrate Technology, Inc. is known around the world as the manufacturer of superior products that are unparalleled in the flooring industry.

STI machines and diamonds work synergistically as a complete system that produce unprecedented results. We guarantee it!



Polished Marble



STI-2818LP
Up to 2,000 SF (200 M²)

<i>Motor</i>	Kawasaki 18HP LP
<i>Motor RPM</i>	2,200 - 3,650 RPM
<i>Weight</i>	829 lbs. (376 kg)
<i>Tool RPM</i>	366-500 RPM
<i>Number of Tools</i>	6
<i>Tools Attachment Style</i>	EG Proprietary Attachment System
<i>Length x Width x Height</i>	73 x 30 x 50 in. (185 x 76 x 127 cm)
<i>Recommended Vacuum</i>	PM3003AR (309 CFM) or equivalent
<i>Vacuum Hose (sold separately)</i>	3 in. (76 mm)

Production Rates

<i>Mastic Removal:</i>	375 SF / 40m ² per hr
<i>Thin Set Removal:</i>	425 SF / 45m ² per hr
<i>Mil Coatings Removal:</i>	225 SF / 20m ² per hr
<i>Polished Concrete:</i>	575 SF / 60m ² per hr



STI-2418LP
Up to 5,000 SF (500 M²)

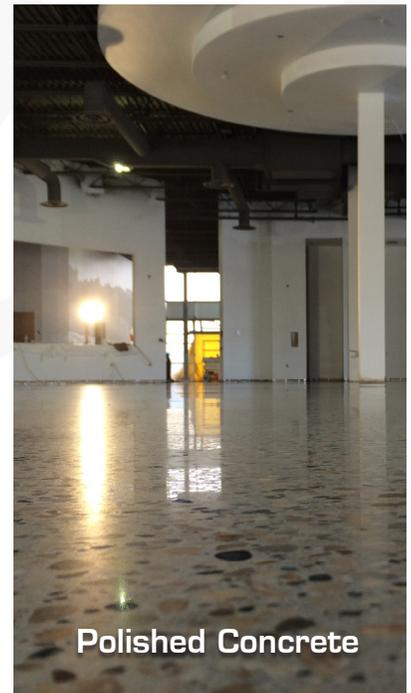
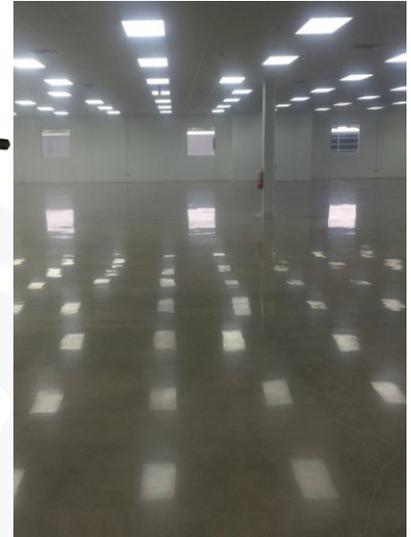
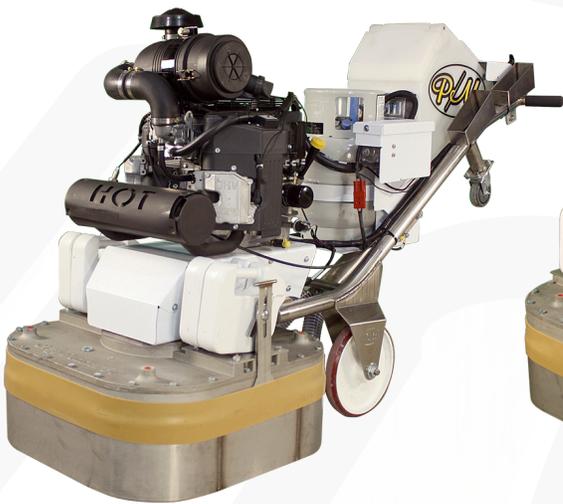
<i>Motor</i>	Kawasaki 18HP LP
<i>Motor RPM</i>	2,200 - 3,650 RPM
<i>Weight</i>	895 lbs. (406 kg)
<i>Tool RPM</i>	366-500 RPM
<i>Number of Tools</i>	12
<i>Tools Attachment Style</i>	EG Proprietary Attachment System
<i>Length x Width x Height</i>	78 x 27 x 48 in. (198 x 69 x 122 cm)
<i>Recommended Vacuum</i>	PM3003AR (309 CFM) or equivalent
<i>Vacuum Hose (sold separately)</i>	3 in. (76 mm)

Production Rates

<i>Mastic Removal:</i>	475 SF / 50m ² per hr
<i>Thin Set Removal:</i>	525 SF / 55m ² per hr
<i>Mil Coatings Removal:</i>	325 SF / 30m ² per hr
<i>Polished Concrete:</i>	925 SF / 90m ² per hr

TECHNOLOGY, INC. PROPANE GRINDERS

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STI-3038LP

Up to 10,000 SF (1,000 M²)

Motor	Kawasaki 38HP LP
Motor RPM	2,200 - 3,650 RPM
Weight	1,084 lbs. (492 kg)
Tool RPM	366-500 RPM
Number of Tools	12
Tools Attachment Style	EG Proprietary Attachment System
Length x Width x Height	86 x 30 x 48 in. (218 x 76 x 122 cm)
Recommended Vacuum	PM3003GP (318 CFM) with pre-separator or equivalent
Vacuum Hose (sold separately)	3 in. (76 mm)

Production Rates

Mastic Removal:	600 SF / 60m ² per hr
Thin Set Removal:	600 SF / 60m ² per hr
Mil Coatings Removal:	425 SF / 40m ² per hr
Polished Concrete:	1,200 SF / 120m ² per hr

STI-4438LP

Up to 20,000 SF (2,000 M²)

Motor	Kawasaki 38HP LP
Motor RPM	2,200 - 3,650 RPM
Weight	1,315 lbs. (596 kg)
Tool RPM	366-500 RPM
Number of Tools	24
Tools Attachment Style	EG Proprietary Attachment System
Length x Width x Height	78 x 44 x 50 in. (198 x 112 x 127 cm)
Recommended Vacuum	PM3003GP (318 CFM) with pre-separator or equivalent
Vacuum Hose (sold separately)	3 in. (76 mm)

Production Rates

Mastic Removal:	725 SF / 70m ² per hr
Thin Set Removal:	725 SF / 70m ² per hr
Mil Coatings Removal:	575 SF / 60m ² per hr
Polished Concrete:	5,025 SF / 500m ² per hr

Polished Concrete

PREP/MASTER® REMOTE CONTROL

STI Results

Save time, labor, AND
get great results?
Absolutely!!

STI products are designed to get the job done fast and have long usage life. The less it costs per SF/M² in labor savings and tool cost savings – the more time and money for you!

How do we do this?

- We only use high quality materials in all our products
- STI machines are hand-built with our guarantee to last
- STI diamonds are manufactured in a factory that has two ISO Certifications and one TUV audit - unheard of in the industry!

CREATES A TRUE MECHANICAL POLISH.

- The better a floor is refined during the polishing process, the longer it will last.
- There is absolutely NO need for a guard to add that “pop” to the final floor.
- Unlike coatings that wear off, the STI shine lasts for years to come.



81.6 Gloss Meter reading of polished concrete after using the EGT Diamond System



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3030-RC Up to 10,000 SF (1,000 M²)

Motor	30 HP-3 phase (22kW) 220/230 VAC 1 or 3 Phase, 60 Hz
Power Source	380/480 VAC 3 Phase, 50-60 Hz
Power Cord	30 ft. (6-4)
Weight	1,320 lbs. (599 kg)
Tool RPM	300 -750 RPM variable
Number of Tools	12
Tool Attachment Style	EG Proprietary Attachment System
Length x Width x Height	86 x 30 x 52 in. (218 x 76 x 132 cm)
Recommended Vacuum	PM3003GP (318 CFM) with pre-separator or equivalent
Vacuum Hose (sold separately)	3 in. (76mm)

Production Rates

Mastic Removal: 600 SF / 60m ² per hr
Thin Set Removal: 600 SF / 60m ² per hr
Mil Coatings Removal: 425 SF / 40m ² per hr
Polished Concrete: 1,200 SF / 120m ² per hr

4430-RC Up to 20,000 SF (2,000 M²)

Motor	25 HP-3 phase (18.6kW) 220/230 VAC 3 Phase, 50-60 Hz
Power Source	380/480 VAC 3 Phase, 50-60Hz
Power Cord	30 ft. (6-4)
Weight	1,850 lbs. (839 kg)
Tool RPM	250-750 RPM variable
Number of Tools	12
Tool Attachment Style	EG Proprietary Attachment System
Length x Width x Height	97 x 30 x 64 in. (246 x 76 x 163 cm)
Recommended Vacuum	PM3003GP (318 CFM) with pre-separator or equivalent
Vacuum Hose (sold separately)	3 in. (76mm)

Production Rates

Mastic Removal: 725 SF / 70m ² per hr
Thin Set Removal: 725 SF / 70m ² per hr
Mil Coatings Removal: 575 SF / 60m ² per hr
Polished Concrete: 5,025 SF / 500m ² per hr

STI DIAMOND SYSTEMS

SURFACE PREPARATION

#00 Prep Tool — Leaves a Rough Profile



The #00's are fast cutting, aggressive metal bond tools that are used to remove black mastic, epoxy, adhesive, and thin-set quickly and efficiently.

- The #00 leaves a rough profile and is not recommended when polishing is to be provided.

#0 Prep Tool — Leaves a Smooth Profile



The #0's are productive metal bond tools used to remove black mastic, epoxy, adhesive, and thin-set.

- The #0 leaves a smooth profile and is recommended when polishing is to be provided.

[#0 is also available in hard and soft bonds to combat any flooring condition.]

POLISHED CONCRETE



Whether you use EGT or CLC for concrete polishing, contractors know that STI diamond systems are truly unrivaled in the flooring industry.

Time after time, these tools get fast results in less time — which equals more savings for you! Both systems create a true mechanical shine that lasts, making it extremely easy to maintain for years to come. *We guarantee it!*



POLISHED TERRAZZO



The TPS Diamond System is designed specifically for epoxy terrazzo floors. This system preps and polishes new or existing terrazzo floors easily in seven simple steps.

And, to obtain even better results, make sure to use the STI grout pans for filling up to 95% of the pin holes before final polishing.



STI Grout Pans For Concrete and Terrazzo Floors

While most projects budget two-three days for grouting—with the STI Grout Pans, all you need is **two days to grout and cut** in order to get results that are impossible to achieve by conventional methods!

These patent-pending grout pans attach to your grinding machine and mechanically **fill up to 95% of pin holes** using marble flour and epoxy to increase the final shine.



Service • Support • Success

CONTACT US

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At STI, we are proud to offer products that deliver “real world” solutions for our customers. Due to our combined experience of over 100 years of contracting, ISO-certified suppliers, patent-pending products, dedicated staff, superior customer service, and no fear of hard work – we are confident to say – you are using the best products in the industry!

Through subsequent successes & failures over the past couple decades, our leaders, manufacturers, and sales personnel have developed a strong, proven system of machinery and diamond tooling that can truly be relied upon to deliver the fastest, most predictable results – guaranteed!

We at STI truly know what matters to you in the flooring business – because it mattered to us first! STI products are cutting-edge systems ready to deliver you solutions that are profitable, as well as predictable.

And, definitely, let us know how our products work for you – we love to have feedback from our customers!

LEED APPROVED

Concrete polishing is a green product and contributes to environmental sustainability through economic and energy savings, reducing the need to bring in additional coverings or coatings that end up in landfills.

