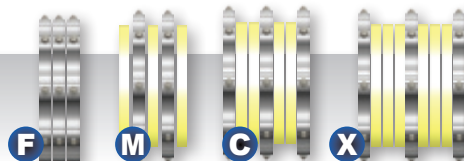


SMITH Cutter Selection Guide

Desired Surface Finish Textures (SP1-10) by selecting the right cutter drum, offset spacing pattern (F, M, C, X) and removal process we call SMITHing. Cutters can be set inline to groove and at narrower widths. Adding spacers increases cutting penetrations. (F) - 0 spacer; (M) - 1 spacer; (C) - 2 spacers; (X) - 3 spacers.



Drum Style Cutters								
Best Cutter Selection	Wire Brush	Prep-it strips	Star or Blunt Steel Cutters	Carbide Flails	4N1 Carbide Full-Widths	Carbide Millers	Carbide Scrapers	Carbide Picks
Cutter Drum Set-up	F	OFFSET	F M C	F M C X	F M	F M C	F M	OFFSET
Profile	SP1	SP3	SP3 – 5	SP4 – 9	SP3 – 6	SP3 – 6	SP3 – 6	SP9 – 10
Service Life	Short	Medium	Short	Long	Long	Long	Long	Long
Cost	\$	\$\$	\$	\$\$	\$\$	\$\$	\$\$\$	\$\$
Ease of Use	Easy	Moderate	Easy	Easy	Moderate	Moderate	Moderate	Easy
Best For: A - Asphalt C - Concrete S - Steel O - Other	Dirt, oil, grease, sealer, cure, flaking paint A • C • S • O	Brush blast, dirt, grease, sealer, cure, flaking paint A • C	Brush blast, cleaning, paints, cures, dirt, grease, sealer, cure A • C • S • O	Hard surfaces, paints, coatings, epoxies, leveling, profiling, grooving A • C • S • O	Stripping, control depth, grooving, cleaning, coating and paint removal A • C • O	Soft surfaces, coatings, tapes, thermosets, thermoplastics A • C	Mastics, glues, tapes, thermosets, plastics, joint compounds A • C	Leveling, bulk removal, fracturing A • C

Diamond Shavers	Rotary Style Cutters							
Best Cutter Selection	Wire Brush Rotary Disc	Carbide Pin Rotary Bits	Carbide Pin Rotary Bits	Carbide Pin Rotary Bits	Diamond Plugs	PCD Disc	Carbide Pick Rotary Disc	
F M	Cutter Style	6 BRUSHES	216-PIN	144-PIN	72-PIN	6 PLUGS	OFFSET	OFFSET
SP3 – 4	Profile	SP1	SP3	SP4	SP5	SP2	SP3 – 5	SP4 – 7
Long	Service-Life	Short	Long	Long	Long	Long	Long	Long
\$\$\$	Cost	\$	\$\$\$	\$\$	\$\$	\$\$\$	\$\$	\$\$
Moderate	Ease of Use	Moderate	Easy	Easy	Easy	Moderate	Moderate	Moderate
Leveling, grooving, grinding, shaving without microcracking C	Best For: A - Asphalt C - Concrete S - Steel	Dirt, oil, grease, sealer, cure, flaking paint A • C • S • O	Coatings/paints, non-skids, surface marks C	Thermosets, thermoplastics, overlays, high-build paints A • C	Thick coatings, thermoplastics, thermosets, tapes A	Pastes, fines and aggregates, surface marks C	Strips, cuts, slices, elastomeric, glue, epoxy, paint, urethane C • O	Hard material, surface leveling, bulk removal A • C • O

SP1	SP2	SP3	SP4	SP5	SP6	SP7	SP8	SP9	SP10
Brush, Acid Etch	Grind	Fine Erase, Shave, Prep-it™, Light Blast	Medium Erase, Very Fine (Strip, Mill, Scrape), Light/Medium Blast	Coarse Erase, Fine Scarify, Medium-Blast Fine (Strip, Mill, Scrape)	Medium Scarify, Medium-Heavy Blast, Medium (Strip, Mill, Scrape)	Medium-Coarse Scarify, Heavy Blast Coarse (Strip, Mill, Scrape)	Coarse Scarify, Scabbler, Fine Plane	Very-Coarse Scarify, Medium Plane	Coarse Plane