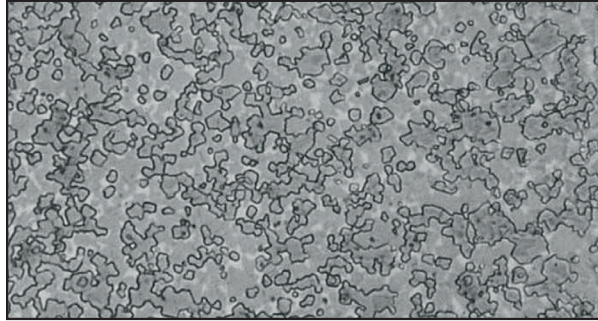


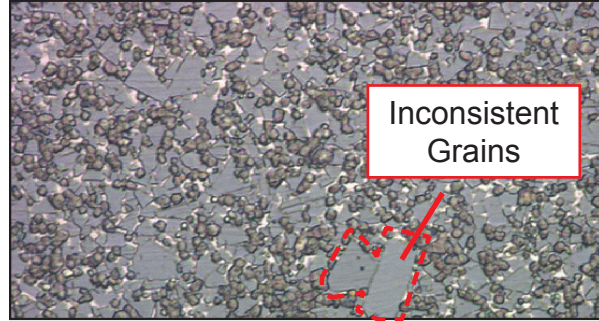
TECH DATA

CARBIDE GRAIN STRUCTURE



SAIT Carbide Matrix

Consistent size of carbide grains.
More carbide per tooth as grains are smaller.
Smaller grain = harder tooth, more durability.

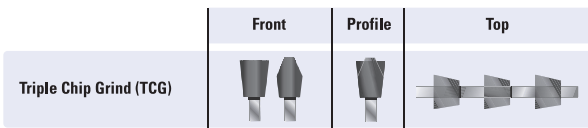


Inconsistent Grains

Competitor Carbide Matrix

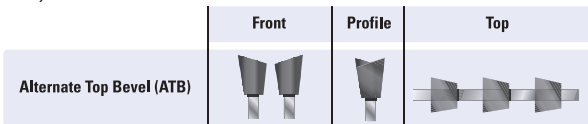
Very inconsistent size of carbide grains.
Less life due to larger grain sizes.

TOOTH CONFIGURATION



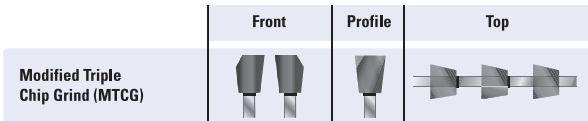
Triple Chip Grind (TCG):

- **FEATURE:** Maximizes blade life by reducing the size of the metal chips that are produced during the cutting operations. Also provides maximum tooth strength for longer life.
- **BENEFIT:** Cleaner and cooler cuts and less stress on material being cut.
- **WHERE USED:** Steelworker® (all sizes), 7-1/4" Stainless, 8", 10" and 12" Aluminum blades



Alternate Top Bevel (ATB)

- **FEATURE:** A multi-purpose grind that allows for durable, long life as well as productive work across a wide range of materials.
- **BENEFIT:** Clean, easy cutting without binding in the material.
- **WHERE USED:** 6-1/2" and 7-1/4" TMX, and 14" Aluminum Blades



Modified Triple Chip Grind (MTCG):

- **FEATURE:** Excels at reducing chip size for more effective cutting of material. Also improves cutting tooth durability.
- **BENEFIT:** Lower heat build-up and less blade stress while cutting.
- **WHERE USED:** 12" and 14" TMX and 14" Stainless Steel Blades

BLADE OPERATION TIPS

- Be sure to mount the blade with the rotational arrow positioned the same direction as the tool rotates.
- Follow circular saw manufacturer's warnings and instruction manual
- Check blade prior to use for any visible cracks, loose or missing teeth, etc. and change blade if found
- Use blade only on recommended material
- Mount blade between designated sides of blade washers matching arbor size and shape
- Always wear ANSI-approved eye protection and proper protective equipment
- Always wear gloves
- Adjust foot-plate of the saw to proper depth (check circular saw manual - 3 teeth exposed below material surface is a common rule of thumb)
- Always work in a clean and unobstructed work environment
- Never operate saw without working blade guard
- Do not use excessive pressure when cutting (this causes the blade to wear prematurely)
- Tighten blade bolt as instructed by saw manufacturer



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SAIT METAL-CUTTING CARBIDE BLADES



SAIT

• Premium micro grain carbide: Smaller grains mean more carbide per tooth – stays sharp and provides longer life over competitive blades •

STEEL WORKER

Fast, burr free cutting on:

- Angle Iron
- Pipe
- Rebar
- Threaded Rod
- Steel Plate
- C-Channel
- Channel Iron
- And other ferrous metals.

Cool cutting action with long life.



Part No.	Diameter	Teeth	Grind	Arbor	RPM	Max Mat'l Thickness	Triple Chip Grind (TCG)			Machine
							Front	Profile	Top	
77915	5-3/8" 137mm	30	MTCG	20mm (10mm Bushing)	4,200	.157"	Front	Profile	Top	Machine
77920	6-1/2" 165mm	40	TCG	5/8" 16mm	5,800	.236"	Front	Profile	Top	Machine
77936	7" 178mm	36	TCG	20mm	5,800	.315"	Front	Profile	Top	Machine
77930	7-1/4" 184mm	40	MTCG	5/8" 16mm Diamond	5,800	.315"	Front	Profile	Top	Machine
77940	8" 203mm	42	MTCG	5/8" 16mm Diamond	5,800	.394"	Front	Profile	Top	Machine
77947	9" 229mm	48	TCG	1" 26mm	3,200	.472"	Front	Profile	Top	Machine
77953	10" 254mm	52	TCG	5/8" 16mm	5,200	.551"	Front	Profile	Top	Machine
77962	12" 305mm	60	TCG	1" 26mm	2,000	.787"	Front	Profile	Top	Machine
77972	14" 356mm	72	MTCG	1" 26mm	1,800	1.181"	Front	Profile	Top	Machine

TYPICAL END USERS / INDUSTRIES

- Steel Fabricators
- Electricians
- Welding
- Weld Shops
- Plumbers
- Power Generation
- Metal Contractors
- Manufacturing / Fabrication
- Maintenance / Repair

Thin Metal Xtra

Fast, burr free cutting on:

- Thin Metals
- Metal Studs
- Duct Work
- Galvanized Roofing
- Sheet Metals
- Thin Walled Pipe
- Conduit
- Strut Channel

Cool cutting action with long life.



Part No.	Diameter	Teeth	Grind	Arbor	RPM	Max Mat'l Thickness	Alternate Top Bevel (ATB)			Machine
							Front	Profile	Top	
77921	6-1/2" 165mm	48	ATB	5/8" 16mm	5,800	.079"	Front	Profile	Top	Machine
77931	7-1/4" 184mm	68	ATB	5/8" 16mm Diamond	5,800	.112"	Front	Profile	Top	Machine
77965	12" 305mm	80	MTCG	1" 26mm	2,000	.197"	Front	Profile	Top	Machine
77975	14" 356mm	90	MTCG	1" 26mm	1,800	.276"	Front	Profile	Top	Machine

TYPICAL END USERS / INDUSTRIES

- General Contractors
- Plumbers
- Roofing Contractors
- Maintenance / Repair
- Electricians
- Power Generation Contractors
- Heating and Air Conditioning

ALUMINUM

Fast, burr free cutting on: Aluminum, other non-ferrous metals and pipe

Cool cutting action with long life and minimal melting of aluminum.



Part No.	Diameter	Teeth	Grind	Arbor	RPM	Max Mat'l Thickness	Alternate Top Bevel (ATB)			Machine
							Front	Profile	Top	
77917	5-3/8" 137mm	50	ATB	20mm (10mm Bushing)	4,200	.157"	Front	Profile	Top	Machine
77922	6-1/2" 165mm	60	ATB	5/8" 16mm	5,800	.315"	Front	Profile	Top	Machine
77937	7" 178mm	54	ATB	20mm	5,800	.472"	Front	Profile	Top	Machine
77932	7-1/4" 184mm	60	ATB	5/8" 16mm Diamond	5,800	.472"	Front	Profile	Top	Machine
77942	8" 203mm	60	TCG	5/8" 16mm Diamond	5,800	.591"	Front	Profile	Top	Machine
77955	10" 254mm	80	TCG	5/8" 16mm	5,200	.787"	Front	Profile	Top	Machine
77966	12" 305mm	80	TCG	1" 26mm	2,000	.984"	Front	Profile	Top	Machine
77976	14" 356mm	80	ATB	1" 26mm	1,800	1.181"	Front	Profile	Top	Machine

TYPICAL END USERS / INDUSTRIES

- Aluminum Contractors
- Aluminum Foundries
- Aluminum Grating and Fencing Contractors

STAINLESS

Fast, burr free cutting on:

- Stainless Steel Plate
- Tubing
- Bars
- Pipe

Cool cutting action with long life and minimal discoloration.



Part No.	Diameter	Teeth	Grind	Arbor	RPM	Max Mat'l Thickness	Triple Chip Grind (TCG)			Machine
							Front	Profile	Top	
77938	7" 178mm	48	TCG	20mm	5,800	.118"	Front	Profile	Top	Machine
77933	7-1/4" 184mm	48	TCG	5/8" 16mm Diamond	5,800	.118"	Front	Profile	Top	Machine
77977	14" 356mm	90	MTCG	1" 26mm	1,800	.236"	Front	Profile	Top	Machine

TYPICAL END USERS / INDUSTRIES

- Stainless Steel Contractors / Fabricators
- Water Treatment Contractors
- Kitchen Equipment Manufacturing
- Power Generation Contractors

* Low RPM Metal Cutting Saw

• Designed for use on professional metal-cutting saws • Cuts cool and fast • Reduced fire hazards and less dust: Metal blades cut cleanly with minimal sparks •