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SUPERIOR QUALITY

XCAL TOOLS takes pride in manufacturing and selling a full line of road planing, soil stabilization, reclaiming, grading, trenching and foundation drilling bits and carbide tooling products that are American-made. Our inhouse operations gives us the flexibility to quickly test and adapt to changing environments and customer needs. Our cost effective production methods, allows us to provide a exceptional product of the highest quality.

For over 20 years, our carbide producer XCAL INDUSTRIES, has been producing high quality carbide for the mining, roof drilling, snow and ice removal, road planing, wear products and metal cutting blanks, producing over fifty grades of cemented carbide and the capability to develop extra coarse, tougher grades to meet the demands of the industry.



SERVICE AND INNOVATION

These affiliates of JENNMAR, in collaboration with each other, can provide you with superior quality products and unmatched customer service. Our commitment to the customer is guided by three words; SAFETY, SERVICE, and INNOVATION. It's these words that form the foundation of our business. It's who we are





XCAL T⊛⊛LS

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Carbide Tips

We are an ISO 9001 certified facility that offers a wide range of carbide tips to match the various challenges that you might face. Producing over fifty grades of cemented carbide and the ability to create new ones, we can find a carbide grade to meet your needs. Our versatility helps us to check and respond easily to evolving conditions and customer needs. All of our tips provide superb penetration and maximum productivity – regardless of whether you work in soft, medium-hard or extremely hard and demanding conditions.



Valve-Seat Carbide Tips

Valve-Seat Carbide Tips have a valve-seat braze joint for increased strength and shear resistance. The tips provide excellent penetration, and the large carbide shoulder gives excellent protection against steel wash. These tips are best suited for use in soft to medium materials or conditions.









S-2000



The S-2000 is an innovative road grading system that uses rotating, replaceable tungsten carbide tools as a cutting edge, ideal for maintaining a variety of non-hard surfaced roads (e.g., ice, dirt, gravel, hauling roads, roads including public road districts, private construction contractors, federal land management, logging and mining roads).

It works by utilizing a replaceable conical tool installed in a heat-treated adapter board that allows better wear resistance and improved cutting capability over conventional steel blades and can be mounted on a motor grader in place of a conventional blade. It can also be mounted to an under body blade on a truck or a rear blade on a tractor.

Features and Benefits:

- Lower Grading Costs: Reduced equipment costs with a blade life equal to 5 to 15 sets of conventional blades
- Negligible Downtime: Easy handling and installation in the field with no heavy lift required
- Improves Road Surface: Cuts road surface instead of scraping providing an improved mix of materials
- Increases Productivity: Reduces dust and brings larger gravel particles to the top of the road surface
- Cost-Effective Asphalt Removal: Easily removes asphalt to the desired profile and granulates material to a uniform size to be re-used for fill

 Excellent Ice Removal System: Cutting action produces a grooved surface providing improved road traction

Applications:

- Gravel reclamation and maintenance
- Oil road reclamation
- Asphalt planing or following a milling machine to remove the final layer of asphalt
- Removal of potholes, washboards and rebuilding the crown for proper drainage on dirt or gravel roads
- Removal of temporary pavement marking
- Snow removal and ice shaving

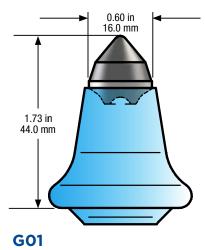




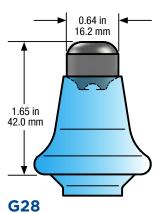


Features:

Multiple tip options for different applications



Valve-Seat Carbide Tip



1.57 in 40.0 mm **G27**

0.94 in

20.2 mm

Valve-Seat Carbide Tip

Valve-Seat Carbide Tip

Part Number	Shank (in, mm)	Tip Diameter (in, mm)	Base Diameter (in, mm)	Gauge (in, mm)	Pieces per Box	Pieces per Pallet
G01	0.87 in 22 mm	1.11 in 12.8 mm	0.60 in 16 mm	1.73 in 44 mm	65	3900
G28	0.87 in		0.64 in 16.2 mm	1.65 in 42 mm	65	3900
G27	0.87 in 22 mm	0.40 in 10.1 mm	0.94 in 20.2 mm	1.57 in 40 mm	65	3900

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	Tool Capacity	Bolt Size (in, mm)	Length (ft, m)	Part Number
-	24	0.625 in 15.875 mm	3 ft .914 m	GB223658
Features	32	0.625 in 15.875 mm	4 ft 1.219 m	GB224858
Tool s Multi-	24	0.75 in 19.05 mm	3 ft .914 m	GB223634
mana	32	0.75 in 19.05 mm	4 ft 1.219 m	GB224834

- Tool spacing 1.50" / 38.1 mm
- Multi-piece assembly allows for manageable installation





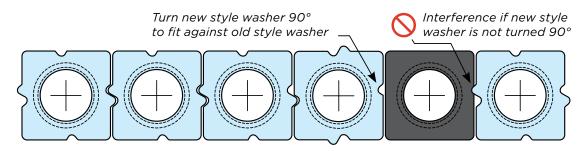
S-2000 Square Washers

Benefits:

- New "gear tooth" arrangement prevents washers from sliding and opening a gap between the tools
- Compatible with old-style square washer and end protectors
- Pre-compressed retainer for easy installation
- Enhances tool rotation eliminating premature wear of carbide tips
- Eliminates washer rotation, preventing wear between washer and mating surface
- Provides support and stability to the tool with an extruded cone that fits neatly into the bore of the adapter board



 The S-2000 square washers act as a replaceable "armor plate" wear surface preventing material buildup to allow the tool to rotate freely for improved cutting ability. The square design eliminates washer rotation preventing wear between the washer and the adapter board.

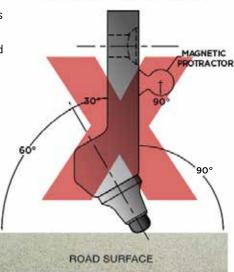


S-2000 Square Washers With Interlocking Feature (For 22 mm and 25 mm Tools) *Patent-Protected Square Washer

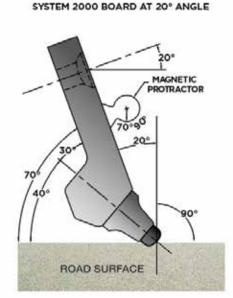
Why the angle makes a difference:

The unique operating angle of the board, that is 20° back from vertical, creates a mixing action that produces a homogeneous blend of material. This can significantly reduce the need to add new gravel.



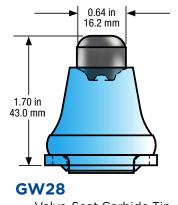


SYSTEM 2000 BOARD AT 0° ANGLE

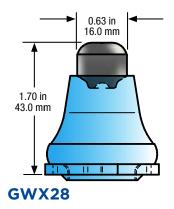








Valve-Seat Carbide Tip



Valve-Seat Carbide Tip

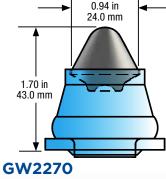
Features:

- Square washer "gear tooth" arrangement prevents washer movement allowing gap between tools
- Precompressed retainer for easier installation
- Enhances tool rotation
- Serves as replaceable wear plate/surface
- GWX28 has hex shape tail allowing tool to spin and clean out fines for better rotation

Part Number	Shank (in, mm)	Tip Diameter (in, mm)	Base Diameter (in, mm)	Gauge (in, mm)	Pieces per Box	Pieces per Pallet
GW28	0.87 in 22 mm	0.64 in 16.2 mm	0.64 in 16.2 mm	1.70 in 43 mm	50	3000
GWX28	0.87 in 22 mm	0.64 in 16.2 mm	0.63 in hex 16 mm hex	1.670 in 43 mm	50	3000

Part	Shank	Tip Diameter	Base Diameter	Gauge	Pieces	Pieces
Number	(in, mm)	(in, mm)	(in, mm)	(in, mm)	per Box	per Pallet
GW2270	0.87 in 22 mm	N/A	0.94 in 24 mm	1.07 in 43 mm	40	2400

Part Number	Length (ft, m)	Bolt Size (in, mm)	Tool Capacity
GB223658G	3 ft / .914 m	0.625 in 15.875 mm	21
GB224858G	4 ft / 1.219 m	0.625 in 15.875 mm	28
GB223634G	3 ft / .914 m	0.75 in 19.05 mm	21
GB224834G	4 ft / 1.219 m	0.75 in 19.05 mm	28



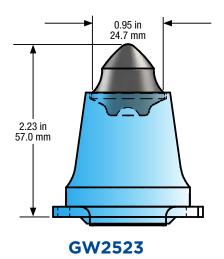
Valve-Seat Carbide Tip

- Tool spacing is 1.72"/43.7 mm
- Tool bores feature internal clip groove for use with any style retainer
- Multi-piece assembly allows for manageable installation







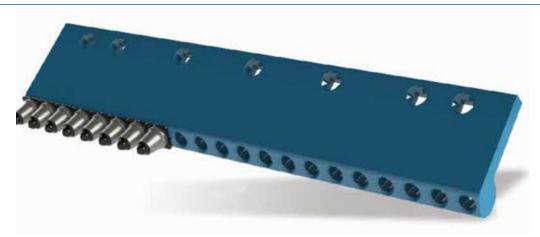


Valve-Seat Carbide Tip

Features:

- "Gear Tooth" washer protects board mating face.
- Pre-compressed retainer for easy installation.
- 25 mm shank.

Part Number	Shank (in, mm)	Tip Diameter (in, mm)	Base Diameter (in, mm)	Gauge (in, mm)	Pieces per Box	Pieces per Pallet
GW2523	0.98 in 25 mm	0.68 in 17.3 mm	0.95 in 24.7 mm	2.23 in 57mm	30	1800



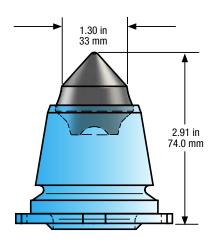
Part Number	Part Number Length (ft, m)		Tool Capacity
GB2536	3 ft .914 m	0.75 in 19.05 mm	21
GB2548	4 ft 1.219 m	0.75 in 19.05 mm	28

- Tool spacing is 1.72"/43.7 mm
- Multi-piece assembly allows for manageable installation









GW3520

Valve-Seat Carbide Tip

Features:

- Heavy Duty Body
- Square washer enhances tool rotation
- Serves as a replaceable "armor plate" wear surface

Part Number	Shank (in, mm)	Tip Diameter (in, mm)	Base Diameter (in, mm)	Gauge (in, mm)	Pieces per Box	Pieces per Pallet
GW3520	0.98 in 25 mm	0.68 in 17.3 mm	1.30 in 33 mm	2.91 in 74 mm	8	480



Length **Bolt Size Part** Tool Number (ft, m) (in, mm) Capacity 4 ft 1.219 m 1 in GB3548 19 25.4 mm

- Tool spacing is 2.50"/63.5mm
- Multi-piece assembly allows for manageable installation





Accessories





Curved Knock Out Punch

 Tool remover with carbide tip for extended life

Part Number Product Code

A-ACKP



Air Hammer Punch

- 3/8" chuck. For removal of conical tools from blocks
- Hardened tip provides long life
- Fits light-duty air-hammer guns with 3/8-inch chucks

Part Number Product Code

A-AH38



Air Hammer Punch

- 1/2" chuck. For installation of conical tools into blocks
- Fits light-duty and heavy-duty air-hammer guns with 1/2" chuck

Part Number Product Code

A-AH12







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