



WEAR SOLUTION

KenCast™



KenCast™

Wear Solution

Exclusively from Kennametal

Wear

A small word that describes a big problem. Wear translates to expensive equipment repair and replacement costs and can cause significant downtime.

We understand wear

We understand the importance of preventing wear damage to your equipment. That's why our wear experts developed KenCast.

KenCast helps equipment last longer, whether you're working above ground or underground, on the road or in the pit, crushing rock or pushing snow. With KenCast protection, you can avoid costly repairs and downtime.

Wear protection for every part

KenCast is extremely versatile and can fit nearly any machine for nearly any application. It is easily welded or attached mechanically into position.

WEAR APPLICATIONS



ROAD MAINTENANCE



SURFACE MINING



UNDERGROUND MINING



GRINDING/RECYCLING



AGGREGATES



QUARRIES



HIGHWAY CONSTRUCTION



TUNNELING



AGRICULTURE



RAILROAD



TRENCHING



SURFACE MINER

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Product Versatility

KenCast™ is exceptionally versatile. It can fit nearly any machine for nearly any application, with few limitations on size and shape. It is easily welded or attached mechanically into position.



KenCast Conical



Stabilizer Bar



Shingle Grinder Tip



Corner Protector, Crusher Tip



Weld Bar



Bucket Lip



Curb Guard



Block and Sleeve Protector

What is KenCast?

KenCast is tungsten carbide particles that have been metallurgically bonded to air-hardened steel. The result? A tough, durable, and extremely wear-resistant material — thanks to the combination of steel and carbide.

KenCast wear parts are proven to withstand extreme abrasive and high-impact applications.

KenCast is more than rectangular shapes. It's a versatile material that fits most machines and applications, and is easily welded or attached mechanically into position. Simply put, KenCast is wear protection for your equipment.

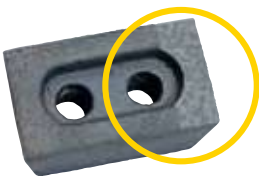
How Does KenCast Work?

Carbide granules give KenCast exceptionally long-lasting protection. Various sized tungsten carbide particles are blended to create the right combination of carbide protection for a particular application.

Although KenCast built a reputation on superior wear plates and rectangular bars, it continues to provide wear solutions across challenging environments. Our customer base has grown to include applications in manufacturing, agriculture, and even NASCAR®.

Kennametal produces standard and custom shapes and geometries to solve specific problems. Our KenCast experts are looking for new challenges, and can help you with your most challenging wear issues.

See It in Action



New grinder hammer tip with KenCast is used in horizontal and tub grinders in the recycling industry. The outer surface is smooth prior to use. Cut-away shows the KenCast carbide particles embedded in the steel.



KenCast grinder hammer tip after 40 hours of use in highly abrasive asphalt shingle recycling application. Notice the prominent carbide particles have sustained only moderate wear. This particular hammer tip continued grinding for a total of 90 hours, outperforming and **lasting up to 10 times longer** than competitive tools!

Successful Wear Applications/Proven Solutions

Machine/Equipment	Component/Part	Type of Wear
Road Maintenance/Construction		
Snow Plow	Snow Plow Shoes Curb Bumpers	Sliding Impact/Sliding
Graders	Plow Blade End Protectors/Guards	Impact/Sliding
Street Sweeper	Sweeper Skid Shoes	Sliding
Steel Wheel Compactor	Sheepsfoot	Abrasion
Railroad		
Tamping Equipment	Tamping Tools Ballast Regulator Z-Bars	Impact/Abrasion Sliding
Grinding/Recycling		
Horizontal Grinder	Grinder Hammer Tips	Impact/Abrasion
Tub Grinder	Swing Hammer	Impact/Abrasion
Aggregates & Quarries		
Track Equipment	Grouser bar	Abrasion sliding
Screening	Grizzlies	Impact wear
Bucket Loaders	Bucket Lips	Abrasion
Crushers/Sizers	Wall Plates Center Feed Disks Weld-On Teeth Conicals Hammers	Impact/Abrasion
Mining		
Longwall Miner	Vane Protection	Abrasion
Continuous Miner	Block and Pedestal Protection	Abrasion
Continuous Loading Arm (CLA)	CLA Tips	Sliding
Surface Mining Buckets	Bucket Lips Skid Plates Heel Bands Wing Shrouds	Abrasion
Tunneling		
Tunnel Boring Machine	Gage & Cutter Face Protection	Impact/Abrasion
Highway Construction		
Road Reclamation	Pedestal Protectors Side Cleaner Bars	Impact/Abrasion
Road Planer/Milling Machine	Kicker Plates, End Ring Protection Drag Shoes Block Protectors	Abrasion Sliding Impact/Abrasion
Foundation Drilling		
Foundation Drill	KenCast Weld-On Bars Block Protectors Scroll Protection Abrasion Resistance Conical	Cutting (Core Barrels)/Abrasion Impact/Abrasive Abrasion Abrasion
Trenching		
Trencher/Surface Miner	Base Plate Protection Block Protectors Pedestal Protectors	Impact/Abrasion
Agriculture		
Tillage	Tillage Tools	Abrasion
NASCAR® Racing		
Race Car	Underside Wear Plates	Sliding



Whether it's sliding, gouging, pushing, or impact, abrasive wear can add up to costly equipment repair and replacement costs.

Key Benefits of KenCast

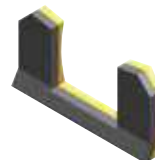
- Extreme versatility — Complex parts and geometries can be produced and customized to specific wear issues.
- Excellent wear resistance — Lowering repair costs and downtime.
- Additional protection for your equipment.
- Easy to apply in the field.
- Non-layered material



Ski



End Ring Protection



Base Protectors



Kicker Paddle

KenCast vs. Other Wear Protection Methods

KenCast consistently outperforms other wear protection methods:

Other Methods	KenCast
Brazed-on solid carbide tiles	Tougher
Hardfacing	Longer lasting More wear resistant Better steel protection
Standard or AR-type steels, chocky blocks, and chromium carbide plates	
Embedded weld overlays	



Proven Solution: KenCast

- Machine — Telsmith™ 24-21 HSI RAP Crusher
- Customer — Hawbaker®
 - 8 crushers, with 3 apron plates per crusher.
- Location — Pleasant Gap, PA.
- Competitive solution — Baldwin International has developed Tuffbraz 600 plate for industrial applications requiring the highest levels of strength and fatigue resistance.
 - Processed 10–15K tons of material before end of life.

- **Kennametal solution** — KenCast apron plates
 - Processed **74k tons** of material with minimal wear.
 - **7x life.**



Used apron plate with minimal wear after 74,000 tons



Telsmith 24-21 HSI RAP Crusher

KenCast: Product Versatility and Proven Performance

Bucket Lips | Drill Stabilizers | Grouser Bars
Shovel Protection | Dozer Blade Wear Areas

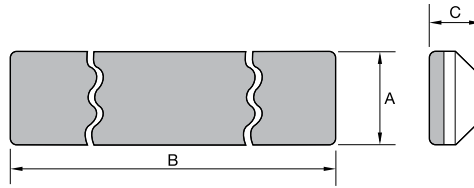
KenCast Hardness Properties

Hardness ranges for composite ingredients:

- Tungsten carbide = 86–91 HRA
- Matrix steel = 52–58 HRC (bonded to carbide)
- Base steel = 38–50 HRC

Wear Bar

- Standard weld bar with weld chamfer.
- Best for impact applications.



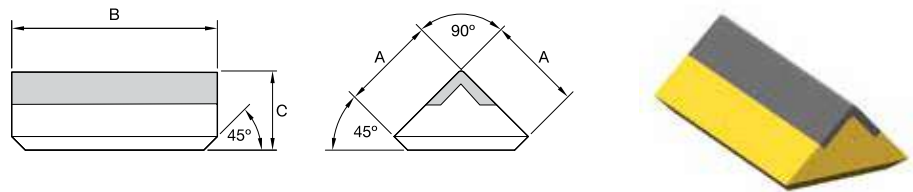
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		in	mm	in	mm	in	mm
KCWB-0083	1012442	0.50	12.70	2.75	69.85	0.75	19.05
KCWB-0201	1012504	0.63	15.88	4.00	101.60	0.75	19.05
KCWB-0254	1012544	0.63	15.88	2.00	50.80	0.75	19.05
KCWB-0378	1155344	0.75	19.05	5.00	127.00	0.75	19.05
KCWB-0084	1012443	1.00	25.40	4.00	101.60	1.00	25.40
KCWB-0096	1012447	1.00	25.40	10.00	254.00	0.75	19.05
KCWB-0097	1012448	1.00	25.40	12.00	304.80	0.75	19.05
KCWB-0246	1012536	1.00	25.40	2.00	50.80	0.50	12.70
KCWB-0055-20	1012633	1.00	25.40	2.00	50.80	0.75	19.05
KCWB-0055-30	1012634	1.00	25.40	3.00	76.20	0.75	19.05
KCWB-0055-35	1012635	1.00	25.40	3.50	88.90	0.75	19.05
KCWB-0055-40	1012636	1.00	25.40	4.00	101.60	0.75	19.05
KCWB-0055-50	1012637	1.00	25.40	5.00	127.00	0.75	19.05
KCWB-0055-60	1012638	1.00	25.40	6.00	152.40	0.75	19.05
KCWB-0055-80	1012639	1.00	25.40	8.00	203.20	0.75	19.05
KCWB-0367	1094287	1.00	25.40	2.00	50.80	0.50	12.70
KCWB-0067	1012436	1.50	38.10	5.00	127.00	0.75	19.05
KCWB-0186	1012492	1.50	38.10	10.00	254.00	0.75	19.05
KCWB-0362	1083967	1.50	38.10	2.00	50.80	0.75	19.05
KCWB-0471	1919347	1.50	38.10	6.00	152.40	1.00	25.40
KCWB-0022	1012423	2.00	50.80	10.00	254.00	1.00	25.40
KCWB-0105	1012452	2.00	50.80	12.00	304.80	1.00	25.40
KCWB-0284	1012573	2.00	50.80	13.00	330.20	1.25	31.75
KCWB-0342	1012628	2.00	50.80	10.00	254.00	0.75	19.05
KCWB-0056-20	1012640	2.00	50.80	2.00	50.80	0.75	19.05
KCWB-0056-35	1012641	2.00	50.80	3.50	88.90	0.75	19.05
KCWB-0056-40	1012642	2.00	50.80	4.00	101.60	0.75	19.05
KCWB-0056-60	1012643	2.00	50.80	6.00	152.40	0.75	19.05
KCWB-0056-80	1012644	2.00	50.80	8.00	203.20	0.75	19.05
KCWB-0438	1796637	2.00	50.80	12.00	304.80	1.00	25.40
KCWB-0496	2036144	2.00	50.80	6.00	152.40	1.25	31.75
KCWB-0206-NH	1719256	2.38	60.33	9.13	231.78	0.38	9.53
*KCWB-0394	1324494	2.50	63.50	8.00	203.20	0.75	19.05
*KCWB-0395	1324495	2.50	63.50	12.00	304.80	0.75	19.05
KCWB-0057-20	1012645	3.00	76.20	2.00	50.80	0.75	19.05
KCWB-0057-40	1012647	3.00	76.20	4.00	101.60	0.75	19.05
KCWB-0057-60	1012648	3.00	76.20	6.00	152.40	0.75	19.05
KCWB-0057-80	1012649	3.00	76.20	8.00	203.20	0.75	19.05
KCWB-0098	1012449	5.00	127.00	8.00	203.20	1.00	25.40
KCWB-0286	1012575	5.00	127.00	12.00	304.80	0.75	19.05
KCWB-0484	1996381	5.00	127.00	8.00	203.20	0.75	19.05
KCWB-0010	1714704	7.00	177.80	13.00	330.20	2.00	50.80
KCWB-0094	1083557	8.75	222.25	10.75	273.05	1.00	25.40

NOTE: Gray shading indicates carbide location on the part.
* Weld bevels along length only.

Drawings represent popular KenCast sizes. We make sizes to suit nearly any machine or application. Contact your local Kennametal Representative for more information.

Wedge

- Creates a cutting action allowing material flow.
- Application: block protection.

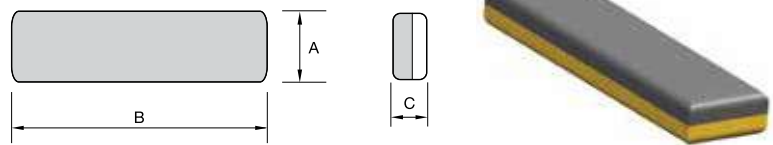


Description	Order Code	A		B		C	
		in	mm	in	mm	in	mm
KCWB-0243	1012534	1.50	38.10	1.50	38.10	1.25	31.75
KCWB-0290	1012579	1.50	38.10	3.25	82.55	1.25	31.75

NOTE: Gray shading indicates carbide location on the part.

Wear Bar (Thin)

- Thin plate with no weld chamfer.
- Provides maximum clearance.
- Not for impact applications.

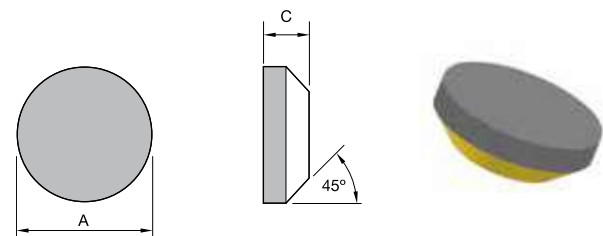


Description	Order Code	A		B		C	
		in	mm	in	mm	in	mm
KCWB-0132	1012461	0.50	12.70	4.00	101.60	0.50	12.70
KCWB-0300	1012586	0.75	19.05	4.00	101.60	0.50	12.70
KCWB-0114	1012454	1.00	25.40	4.00	101.60	0.50	12.70
KCWB-0277	1012566	1.00	25.40	8.00	203.20	0.25	6.35
KCWB-0301	1174410	1.00	25.40	3.00	76.20	0.50	12.70
KCWB-0188	1012494	1.50	38.10	5.00	127.00	0.50	12.70
KCWB-0216	1012515	1.50	38.10	6.00	152.40	0.25	6.35
KCWB-0091	1012444	2.00	50.80	6.00	152.40	0.50	12.70
KCWB-0092	1012445	2.00	50.80	3.00	76.20	0.50	12.70
KCWB-0095	1012446	2.00	50.80	15.75	400.05	0.50	12.70
KCWB-0100	1012450	2.00	50.80	8.00	203.20	0.50	12.70
KCWB-0210	1012512	2.00	50.80	2.00	50.80	0.25	6.35
KCWB-0278	1012567	2.00	50.80	8.00	203.20	0.25	6.35
KCWB-0329	1012614	2.00	50.80	5.25	133.35	0.50	12.70
KCWB-0065	1012435	3.00	76.20	4.00	101.60	0.50	12.70
KCWB-0241	1012532	3.00	76.20	6.00	152.40	0.25	6.35
KCWB-0249	1012539	3.00	76.20	6.00	152.40	0.50	12.70

NOTE: Gray shading indicates carbide location on the part.

Round (Tapered Face)

- Applications: drilling, bucket protection.

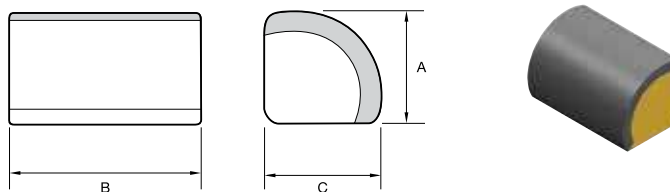


Description	Order Code	A		B		C	
		in	mm	in	mm	in	mm
KCWB-0127	1012457	1.50	38.10	—	—	0.75	19.05
KCWB-0279	1012568	1.50	38.10	—	—	0.50	12.70
KCWB-0280	1012569	2.00	50.80	—	—	0.50	12.70
KCWB-0281	1012570	3.00	76.20	—	—	0.50	12.70

NOTE: Gray shading indicates carbide location on the part.

Quarter Round

- Protects inside corners.
- Helps material flow.

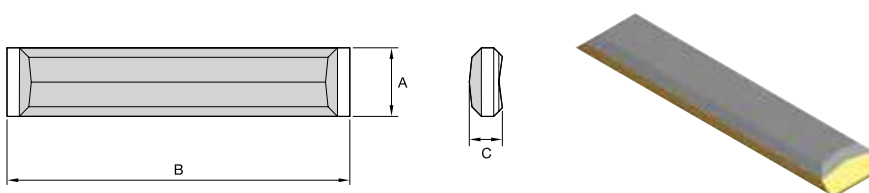


Description	Order Code	A		B		C	
		in	mm	in	mm	in	mm
KCWB-0285	1012574	1.75	44.45	2.88	73.03	1.75	44.45
KCWB-0526	2426055	1.75	44.45	8.00	203.20	1.75	44.45
KCWB-0526-4 INCH	3902019	1.75	44.45	4.00	101.60	1.75	44.45
KCWB-0526-7 INCH	3902020	1.75	44.45	7.00	177.80	1.75	44.45

NOTE: Gray shading indicates carbide location on the part.

Chevron

- Unique geometry.
- Application: stabilizer bar to prevent belt wear.

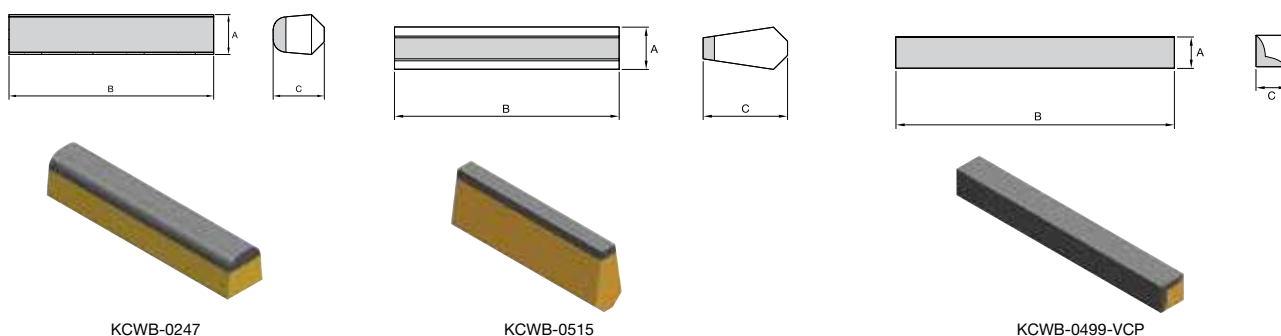


Description	Order Code	A		B		C	
		in	mm	in	mm	in	mm
KCWB-0126	1012456	2.00	50.80	10.00	254.00	1.00	25.40
KCWB-0128	1012458	2.00	50.80	10.00	254.00	0.75	19.05

NOTE: Gray shading indicates carbide location on the part.

Grouser

- Track machine applications: extend track pad life, provide extra traction.

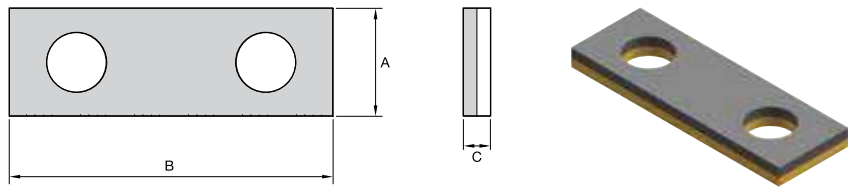


Description	Order Code	A		B		C	
		in	mm	in	mm	in	mm
KCWB-0247	1012537	0.75	19.05	4.00	101.60	1.00	25.40
KCWB-0515	2259012	0.75	19.05	4.00	101.60	1.50	38.10
KCWB-0541	2271390	1.00	25.40	1.50	38.10	0.78	19.81
KCWB-0499-VCP	2039770	2.25	57.15	20.00	508.00	2.25	57.15
KCWB-0389	1308317	0.62	15.75	3.00	76.20	1.00	25.40

NOTE: Gray shading indicates carbide location on the part.

■ Plate with Holes

- Similar to standard wear bar.
- Holes allow use of plug weld or bolt-on.

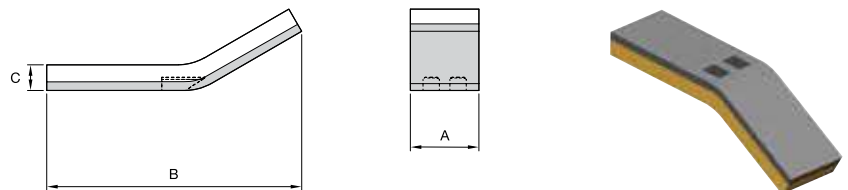


Description	Order Code	A		B		C	
		in	mm	in	mm	in	mm
KCWB-0091-2H	1012663	2.00	50.80	6.00	152.40	0.50	12.70
KCWB-0570	1012494	1.00	25.40	2.00	50.80	0.50	12.70

NOTE: Gray shading indicates carbide location on the part.

■ Wear Ski (Weld-On)

- Great for slide abrasion.
- Applications: housings on sweepers and milling machines, plow shoes.

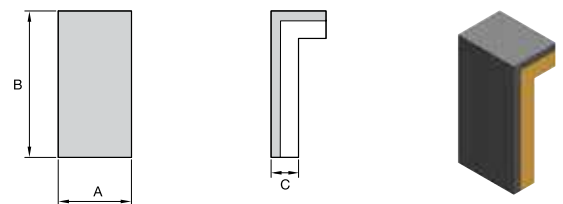


Description	Order Code	A		B		C	
		in	mm	in	mm	in	mm
KCWB-0311	1012596	2.00	50.80	7.50	190.50	0.75	19.05
KCWB-0312	1012597	3.00	76.20	7.50	190.50	0.75	19.05

NOTE: Gray shading indicates carbide location on the part.

■ L Shape VCP

- L shape to protect corners.
- Application: weld to face of steel crusher teeth.

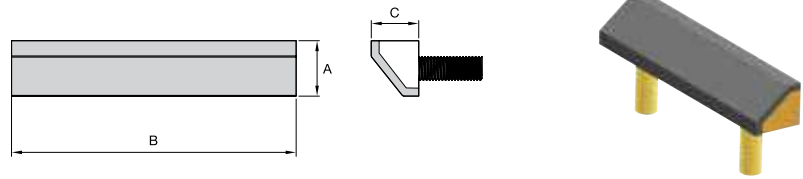


Description	Order Code	A		B		C	
		in	mm	in	mm	in	mm
KCWB-0447-VCP CORNER	1829225	2.00	50.80	4.00	101.60	0.75	19.05
KCWB-0457-VCP	1850291	4.00	101.60	2.00	50.80	0.75	19.05

NOTE: Gray shading indicates carbide location on the part.

Reclaimer Bar

- Application: wear protection for drums.
- Bolt-on parts, eliminates welding.

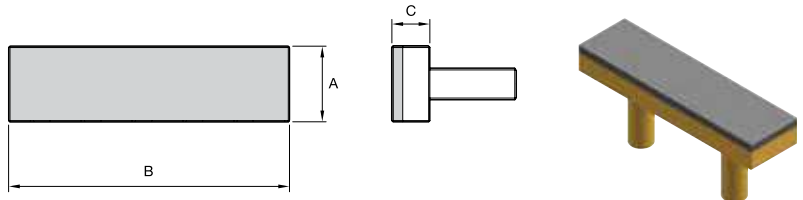


Description	Order Code	A		B		C	
		in	mm	in	mm	in	mm
KCWB-0420	1731649	1.75	44.45	9.00	228.60	1.50	38.10

NOTE: Gray shading indicates carbide location on the part.

Bolt-On Wear Protection

- Threaded studs on back of casting.
- Can be bolted vs. welded.

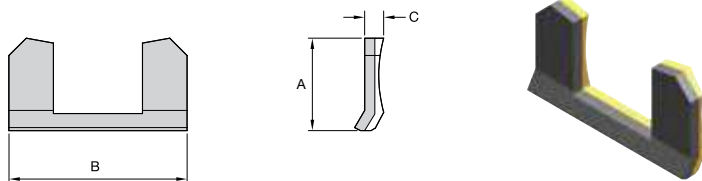


Description	Order Code	A		B		C	
		in	mm	in	mm	in	mm
KCWB-0406	1542508	1.75	44.45	6.50	165.10	0.88	22.23

NOTE: Gray shading indicates carbide location on the part.

Base Protector

- Protect Kennametal quick-change bases.

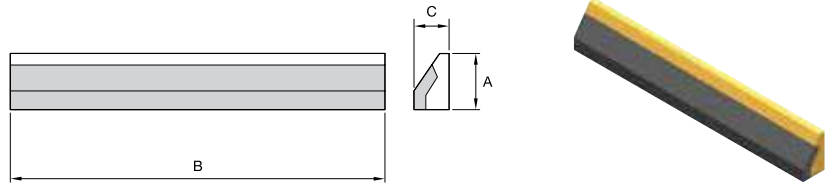


Description	Order Code	A		B		C	
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KCWB-0464	1858536	1.91	48.51	3.50	88.90	0.38	9.53
KCWB-0413	1621388	2.12	53.85	2.75	69.85	0.38	9.53
KCWB-0412	1621288	2.19	55.63	3.50	88.90	0.38	9.53

NOTE: Gray shading indicates carbide location on the part.

Ramp

- Wedge shape helps deflect material.
- Application: prevent wear on chute liners.

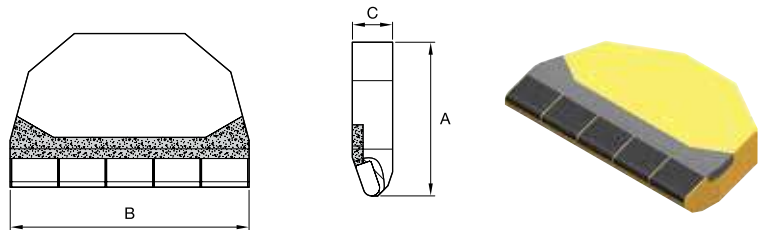


Description	Order Code	A		B		C	
		in	mm	in	mm	in	mm
KCWB-0191	1012496	1.19	30.16	8.00	203.20	0.75	19.05
KCWB-0591	1012503	3.00	76.20	12.00	304.80	1.00	25.40

NOTE: Gray shading indicates carbide location on the part.

Tamper

- Solid inserts cast into part for extended life.
- Application: tamping railroad ballast.

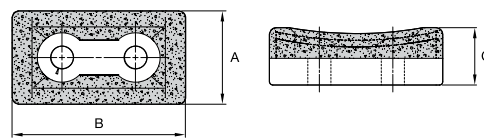


Description	Order Code	A		B		C	
		in	mm	in	mm	in	mm
KCWB-0001-3	1012650	3.00	76.20	4.50	114.30	0.75	19.05
KCWB-0766	6360017	3.62	91.95	5.63	143.00	0.94	23.88

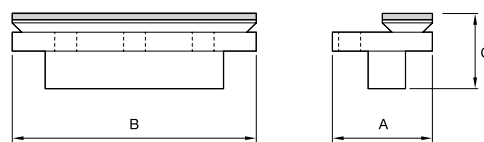
NOTE: Gray shading indicates carbide location on the part.

Bolt-On Wear Protection

- Weldment made with KenCast.
- Application: kicker plate for milling machine.



KCWB-0750-VCP
KCWB-0741-VCP



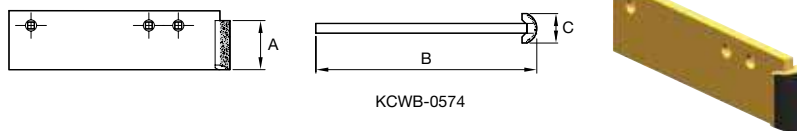
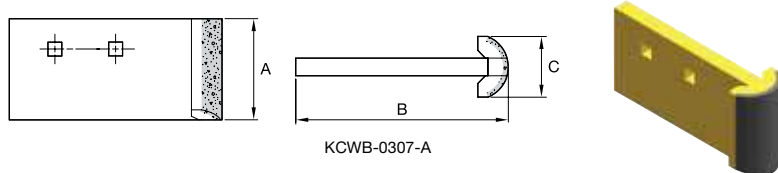
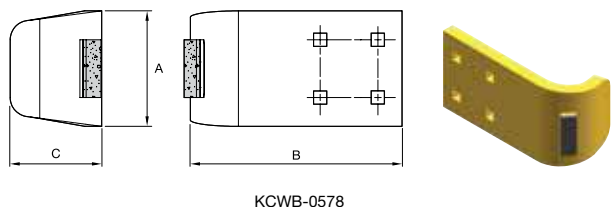
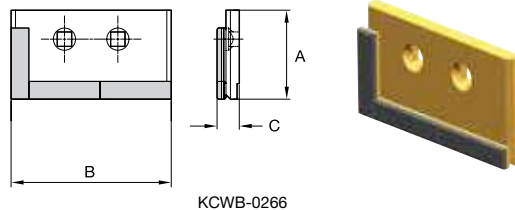
KCWB-0540
KCWB-0556

Description	Order Code	A		B		C	
		in	mm	in	mm	in	mm
KCWB-0750-VCP	6167313	3.50	88.90	6.50	165.10	2.15	54.60
KCWB-0741-VCP	6134828	3.50	88.90	9.50	241.30	2.15	54.60
KCWB-0540	2243688	4.00	101.60	9.75	247.65	3.00	76.20
KCWB-0556	3033385	4.00	101.60	5.53	140.67	3.00	76.20

NOTE: Gray shading indicates carbide location on the part.

■ **Plow Blade Guard**

- Weldment made with KenCast.
- Application: protects end of snow plows and grader blades.



Description	Order Code	A		B		C	
		in	mm	in	mm	in	mm
KCWB-0266	1012556	5.00	1.27	9.0	228.60	1.25	31.75
KCWB-0578	3390176	6.00	152.40	12.20	309.88	4.50	114.30
KCWB-0307-A	1012592	5.00	127.00	10.51	266.95	3.00	76.20
KCWB-0574	3336844	6.00	152.40	22.51	571.75	3.00	76.20

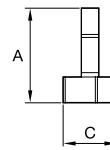
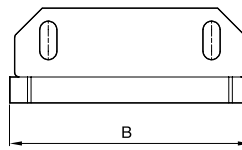
NOTE: Gray shading indicates carbide location on the part.



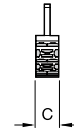
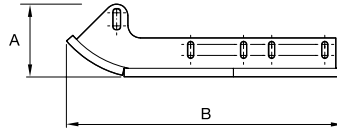
For more information, please visit kennametal.com to access the Snow Removal Catalog.

■ Wear Ski (Bolt-On)

- Solid inserts prevent gouging of road surface.
- Application: bolt-on wear protection for milling machines.



KCWB-0638



KCWB-0639

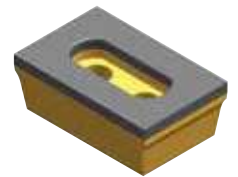
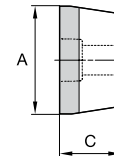
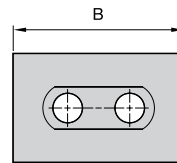


Description	Order Code	A		B		C	
		in	mm	in	mm	in	mm
KCWB-0638	4099269	1.50	38.10	7.00	177.80	0.75	19.05
KCWB-0639	4110656	6.50	165.10	24.66	626.36	2.03	51.60

NOTE: Carbide inserts embedded in the bottom of the ski.

■ Grinder Tip

- Applications: asphalt shingle, waste material grinding/recycling.



Description	Order Code	A		B		C	
		in	mm	in	mm	in	mm
KCWB-0480	1981905	3.50	88.90	5.50	139.70	2.00	50.80

NOTE: Gray shading indicates carbide location on the part.



Grinder Tips

...for Tilt and Horizontal Machines



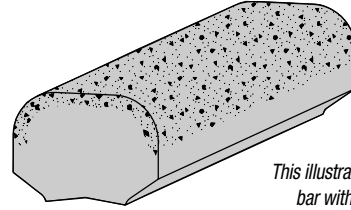
For more information, please visit kennametal.com to access the Grinder Tips Catalog.

Product Versatility

KenCast™ is exceptionally versatile. It can fit nearly any machine for nearly any application, with few limitations on size and shape. It is easily welded or attached mechanically into position.

Standard part sizes and shapes available:

- Thickness – minimum 1/4" (6mm) to a maximum of 8" (200mm)
- Width – up to a maximum of 20" (500mm)
- Length – up to a maximum of 20" (500mm)



This illustration shows a crusher bar with KenCast carbide particles on three sides

Attachment Guidelines

These are general guidelines on how to apply KenCast to your equipment. However, weld applications may vary substantially, depending on the material to which KenCast is applied. Consult a local welding representative or contact your Kennametal Representative for recommendations on your particular application.

Weld Material

.052" (13,2mm) wire (flux cored)	<ul style="list-style-type: none"> • 7100 ESAB or equivalent, shielded with carbon dioxide • 22–24 volts and 200–235 amps
1/8" (3,1mm) weld rod	<ul style="list-style-type: none"> • 7018M or equivalent, low hydrogen • 21–33 volts/135–185 amps
<p><i>These specifications are for welding to low- to medium-carbon steels. When welding to specialty steels, such as stainless and manganese, contact your Kennametal Representative for welding recommendations.</i></p>	

Welding Instructions

KenCast parts must be welded properly to achieve optimum performance:

- Always attach castings with the steel side against the surface to be protected.
- The carbide surface side, painted black to identify the wear side, faces outward.
- Welding the carbide surface can cause cracking and is detrimental to carbide particles.

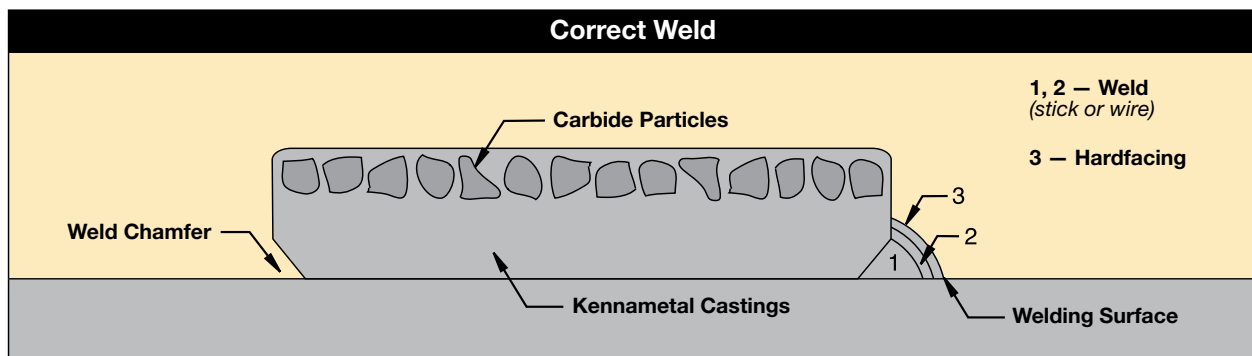
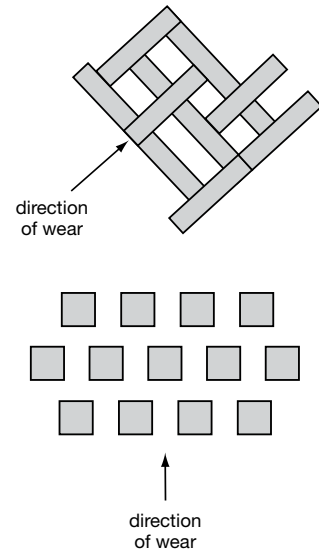
Cutting Instructions

There are two ways to cut KenCast:

- Option #1** Score the steel side with an angle grinder or chop saw with corundum wheel, then strike with a hammer.
or
- Option #2** Plasma or waterjet.

Recommendations

- Protect welds by using weld chamfers, hardfacing over the welds, or positioning the KenCast part to avoid wear on the welds.
- When using KenCast parts to cover large areas, create a “dead-bed” effect by positioning the castings so that the work material packs between the KenCast pieces (see illustrations).
- Stagger the placements of the KenCast parts to avoid wearing troughs between the parts.
- Parts to be welded should be about 70°F (21°C).
- The KenCast part should not exceed 600°F (315°C) at any time during welding.
- First tack weld parts lightly to ensure proper placement before total welding is done.
- Pre-heating and post-heating of KenCast parts is not usually necessary. However, if the material to which the KenCast part is being applied requires heating, then pre-heat the KenCast part up to 600°F (315°C) (do not exceed 600°F [315°C]). Our KenCast parts have been welded to 4130 and 4140 steel with no pre- or post-heating. Pre-heating is recommended to prevent underbead cracking when KenCast parts are applied to oil-and-gas string components and to high-manganese steels.
- If weld washout is a concern, we recommend applying hardface material over the welds.
- **Do not weld** on the carbide layer of the KenCast part.
- For identification, the carbide wear surface of the KenCast part is painted black. This is especially helpful for small or irregular shaped KenCast parts. If the KenCast part is marked with a part number, that number is always cast into the steel side of the part.







KenCast™

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