

# BIMETALLIC WEAR PRODUCTS



# IT'S A BIG WORLD LET'S MOVE IT!

**Hensley's Bimetallic Wear Resistant Products** are designed to protect your equipment from impact and high abrasion, reduce your maintenance costs, and keep your machines and attachments running for longer periods of time.

Available in a variety of shapes and sizes, these products are easily installed, and can be cut or bent prior to welding to provide customized protection for areas of high wear.

These products feature a high chromium white iron metallurgically bonded to a mild steel backing plate. The white iron has a hardness of at least 700 Brinell and provides incredible abrasion resistance while the mild steel backing plate is easily weldable with minimal preparation.

## **EXTREME PROTECTION FOR EXTREME APPLICATIONS**

#### APPLICATIONS

GET Adapters GET Wear Caps Bucket Protection Crusher Liners Conveyor Chutes Feeder Deck Plates Grizzly Screens Truck Beds

#### PRODUCTS

Chocky Bars Wear Buttons Bolt Protectors Skid Bars Wear Bars Grizzly Bars Trapezoidal Plates Truck Bed Liners

#### FEATURES

Abrasion Resistance Impact Protection Simple Installation Easily Weldable Many Applications Custom Fit Reduce Maintenance Extend Work Cycles



# **Bimetallic Wear Resistant Products**

## **Chocky Bars**





		Dimer	Weight				
Part Number		4	E	3	weight		
	in	mm	in	mm	lb	kg	
CB25N	1.0	25	9.4	240	2.1	1.0	
CB40N	1.6	40	9.4	240	3.5	1.6	
CB50N	2.0	50	9.4	240	4.3	2.0	
CB65N	2.6	65	9.4	240	5.7	2.6	
CB100N	3.9	100	9.4	240	8.7	3.9	
CB130N	5.2	131	9.4	240	11.7	5.3	

\*All Chocky bars have a pre-notched backing plate to make it easier to break apart and bend. Good for contoured surfaces.



		Weight								
Part Number	A		В		С		D		weight	
Number	in	mm	in	mm	in	mm	in	mm	lb	kg
WB60	2.4	60	0.8	20	0.4	10	1.2	30	1.4	0.6
WB75	3.0	75	0.8	20	0.4	10	1.2	30	2.2	1.0
WB90	3.5	90	0.8	20	0.4	10	1.2	30	3.2	1.5
WB115	4.5	115	0.8	20	0.6	15	1.4	35	6.2	2.8
WB150	5.9	150	1.0	25	0.6	15	1.6	40	12.0	5.4



	Dimensions										Weight	
Part Number	Α		В		С		D		E		weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
DLP1920	3.0	75	0.7	17	0.3	8	1.0	25	1.0	25	1.5	0.7
DLP1921	3.9	100	0.7	17	0.3	8	1.0	25	2.0	50	2.1	1.0
DLP1994	3.9	100	0.9	24	0.3	8	1.3	32	2.8	70	2.0	0.9

## **Wear Buttons**



## **Bolt Protectors**



# **Bimetallic Wear Resistant Products**

## **Skid Bars**







Type 2 - Trapezoid SB XXXR - right hand (shown) SB XXXL - left hand

WHITE IRON

MILD STEEL

Е

			Dimer					
Part Number	Туре		4	E	3	Weight		
		in mm		in mm		lb	kg	
SB205	1	11.0	279	3.0	75	11.2	5.1	
SB409	1	6.1	154	4.0	101	7.7	3.5	
SB410L	2	6.0	152	4.0	101	8.6	3.9	
SB410L	2	6.0	152	4.0	101	8.6	3.9	
SB403	1	8.4	214	4.0	101	10.9	4.9	
SB404L	2	8.5	216	4.0	101	11.6	5.3	
SB405R	2	8.5	216	4.0	101	11.6	5.3	
SB406	1	11.8	300	3.9	100	15.4	7.0	
SB407L	2	12.2	310	4.0	101	17.5	7.9	
SB408R	2	12.0	305	3.9	100	16.8	7.6	

Type 1: Rectangle Type 2: Trapezoid

## Wear Bars



Top View	Typical Drawing
Top View	Typical Drawing

	Dimensions											
Part Number	Α		В		С		D		E		weight	
Humbon	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
DLP4	11.8	300	1.5	38	1.0	25	0.3	8	1.3	33	6.5	2.9
DLP125	9.1	230	2.0	50	1.5	38	0.5	12	2.0	50	10.0	4.5
DLP184	5.9	150	3.0	75	1.1	29	0.4	10	1.5	39	7.6	3.4
DLP201	17.0	432	2.0	50	1.1	28	0.4	10	1.5	38	15.5	7.0
DLP201A	16.9	430	2.0	50	1.5	38	0.5	12	2.0	50	18.3	8.3
DLP270	10.0	254	2.0	50	0.5	12	0.3	8	0.8	20	4.1	1.9
DLP295	6.0	152	1.5	38	1.0	25	0.3	8	1.3	33	3.3	1.5
DLP352	8.0	203	8.0	203	0.9	22	1.4	36	2.3	58	39.4	17.9
DLP453	11.8	300	2.0	50	1.5	38	0.4	10	1.9	48	12.6	5.7
DLP569	7.9	200	3.0	75	1.1	29	0.4	10	1.5	39	10.0	4.5
DLP619	5.9	150	3.0	75	2.0	50	0.4	10	2.4	60	11.4	5.2
DLP995	12.0	305	5.9	150	0.7	18	0.2	5	0.9	23	19.8	9.0
DLP1191	11.8	300	1.0	25	0.6	15	0.4	10	1.0	25	3.2	1.5

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# **Bimetallic Wear Resistant Products**

## **Grizzly Bars**





DIMENSIONS Weight Part Α В Number in mm in mm lb kg DLP2075 5.9 150 5.9 150 31.4 14.2 DLP2076 5.6 141 5.6 141 29.1 13.2 DLP2077 5.2 131 5.2 131 27.0 12.2 DLP2078 4.8 122 4.8 122 24.8 11.2 DLP2079 113 4.4 4.4 113 23.0 10.4 DLP2080 4.1 103 4.0 102 20.0 9.1 DLP2081 3.7 94 3.3 84 12.5 5.7 DLP2082 11.2 3.3 84 3.0 75 5.1

		DIMEN	Weight				
Part Number		4	E	3	weight		
	in	mm	in	mm	lb	kg	
DLP2067	5.9	150	5.9	150	30.4	13.8	
DLP2068	5.4	138	5.4	138	28.2	12.8	
DLP2069	4.9	125	4.9	125	25.2	11.4	
DLP2070	4.4	113	4.4	113	22.4	10.2	
DLP2071	3.9	100	3.9	100	19.9	9.0	
DLP2072	3.5	88	3.5	88	17.1	7.8	
DLP2073	3.0	75	3.0	75	13.7	6.2	
DLP2074	2.5	63	2.5	63	10.9	4.9	

## **Specialty Liners**





1 WHITE

IRON

in (mm)

in (mm)

#### WELDING PROCEDURES

- 1. Ensure that the surface to which the bimetallic part will be attached is as flat as possible and the area to be welded is clean.
- 2. Clamp and tack weld bimetallic part into position.
- 3. Stitch weld, laying 2" (51 mm) max length on each run, alternating ends or similiar to minimize heat imput.

**<u>Do not</u>** deposit weld within **2 mm** from the joint line between white iron and steel backing plate (**Fig. 1**).

**<u>Do not</u>** weld continuously. Use stich weld method. Continuous welding may cause warpage, delamination and cracking.

#### HENSLEY RECOMMENDS LOW HYDROGEN WELD RODS OR GAS COVERED CORED WIRE.

Gas shielded solid MIG wire - 3/64" (1.2 mm) dia. max. Flux cored wire - 1/16" (1.6 mm) dia. max. Low hydrogen electrode - 1/8" (3.25 mm) dia. max.



CAUTION! TOO MUCH HEAT INPUT MAY CAUSE CRACKING AND SEPARATION

#### **BENDING CHOCKY BARS**

1. Clean the surface to which "chocky" bar will be welded.

#### For outside curves:

2a. Tack weld one end of "chocky" bar (per welding procedures) in at least 3 places using at least <u>15 mm</u> of weld in each deposit (Fig.1). Hammer down unwelded end of bar so that the bar bends and follows the curve (Fig.2).



#### For inside curves:

2b. Tack weld one end of "chocky" bar (per welding procedures) in at least 3 places using at least <u>15 mm</u> of weld in each deposit (Fig. 3a). Starting in the center strike bar so that the bar bends and follows the curve (Fig. 3b).



Stitch weld (per welding procedures) until bar is firmly in place.



### **CUTTING CHOCKY AND WEAR BARS**

High pressure abrasive water cutting is the preferred cutting method when available. If not available, cutting by abrasive disc is recommended.

Thermal cutting using an oxyacetylene torch, arc-air or plasma is <u>NOT</u> recommended due to high localized heat input and high risk of cracking and delamination.

#### **CUTTING "CHOCKY" BARS**

- 1. Place "chocky" bar in vise/clamp.
- 2. Cut through to white iron bond area (Fig.1).
- 3. Wrap "chocky" bar with a rag and carefully hit it with a hammer. The piece should break cleanly at the notch.



#### **CUTTING WEAR BARS**

- 1. Place wear bar in vise/clamp.
- 2. Cut through to white iron bond area (ref. Fig.1).
- 3. Cut a notch in the white iron a **minimum of 1/8**" deep and parallel to the cut in the mild steel backing (Fig.2).
- 4. Wrap the wear bar with a rag and carefully hit it with a hammer. The piece should break cleanly at the notch.
- NOTE: The deeper the notch in the white iron, the cleaner the break.



HENSLEY RECOMMENDS YOU ALWAYS USE A SOFT-FACE HAMMER AND ANSI-APPROVED (Z87.1) EYE PROTECTION DURING CUTTING AND BENDING PROCEDURES

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# **Bimetallic Wear Resistant Applications**















For more product details and contact information, please visit our website.



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