

# LAMINATED WEAR BLOCKS



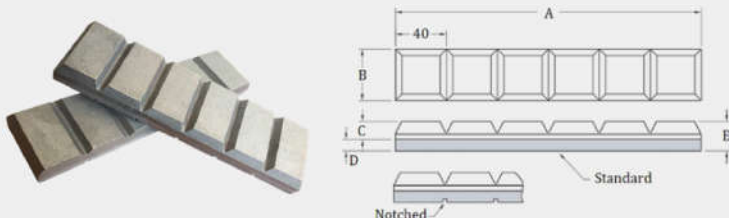
Laminated wear block is an exceptional laminated product that is resistant to impact and abrasion while retaining ductile characteristics by bonding High-Chromium white iron onto a mild steel backing plate. The bonding process is what we call "Copper Brazing", bonding strength is over 300Mpa and will not separate. The High-Chromium white iron has an extremely high hardness of brinell 700HB (63HRC) and mild steel backing plate can absorb high impacts, makes them weldable and easy to install with no pre or post heating when welding.



Typical products including chocky bar, wear button, wafer strips, wear plate, shredder hammer tips and much more other wear blocks, over 2,000 standard shapes and other customized sizes also available upon request.

## Chocky bars

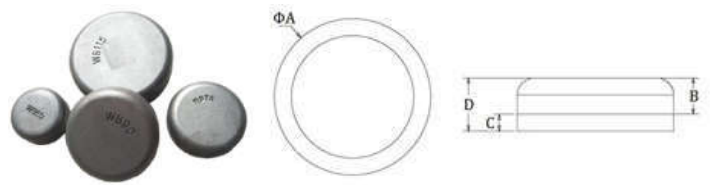
Chocky bar is one of the typical materials of Laminated wear blocks, which is a combination of high chrome white iron metallurgically bonded to a mild steel backing plate. The "V-groove" design allows chocky bars to be bent around a radius or separated to changed length requirement needed.



| Part No. | Size(mm)       | A   | B   | C  | D | E  | Weight(kg) |
|----------|----------------|-----|-----|----|---|----|------------|
| CB 25    | 240 x 25 x 23  | 240 | 25  | 15 | 8 | 23 | 0.9        |
| CB 40    | 240 x 40 x 23  | 240 | 40  | 15 | 8 | 23 | 1.5        |
| CB 50    | 240 x 50 x 23  | 240 | 50  | 15 | 8 | 23 | 1.9        |
| CB 65    | 240 x 65 x 23  | 240 | 65  | 15 | 8 | 23 | 2.5        |
| CB 80    | 240 x 80 x 23  | 240 | 80  | 15 | 8 | 23 | 3.2        |
| CB 90    | 240 x 90 x 23  | 240 | 90  | 15 | 8 | 23 | 3.5        |
| CB 100   | 240 x 100 x 23 | 240 | 100 | 15 | 8 | 23 | 3.9        |
| CB 130   | 240 x 130 x 23 | 240 | 130 | 15 | 8 | 23 | 5.3        |
| CB 150   | 240 x 150 x 23 | 240 | 150 | 15 | 8 | 23 | 6.0        |

## Wear buttons

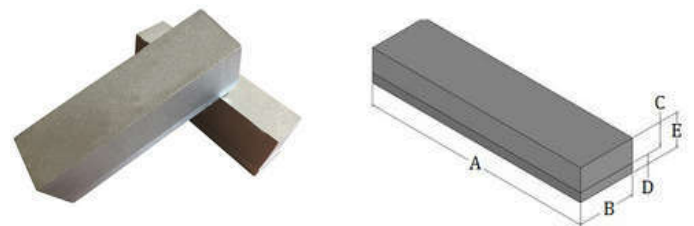
Wear Buttons & Donuts are the perfect material for wear protection of smaller areas, easy to install with no pre or post heating required, requires less welding time and material, The Donuts also offers flexible options with internal and external welding, Variability in size, Available in diameters from 60mm to 150mm.



| Part No. | Size(mm)  | Diameter (A) | Wear (B) | Backing (C) | Thickness (D) | Weight (kg) |
|----------|-----------|--------------|----------|-------------|---------------|-------------|
| WB60     | Φ60 x 27  | 60           | 17       | 10          | 27            | 0.7         |
| WB75     | Φ75 x 27  | 75           | 17       | 10          | 27            | 0.9         |
| WB90     | Φ90 x 27  | 90           | 17       | 10          | 27            | 1.4         |
| WB110    | Φ90 x 32  | 110          | 20       | 12          | 32            | 2.1         |
| WB115    | Φ115 x 32 | 115          | 20       | 12          | 32            | 2.5         |
| WB150    | Φ150 x 41 | 150          | 25       | 16          | 41            | 5.7         |

## Wear bars

Wear Bars are the utility item of the CSW wear product line. Common applications are protection of inner & external wall of heavy earth moving buckets, chute & lip protection, build up points in impact zones etc.



| Part No. | Size(mm)       | Length(A) | Width(B) | Wear(C) | Backing (D) | Thickness (E) | Weight (kg) |
|----------|----------------|-----------|----------|---------|-------------|---------------|-------------|
| CSW919   | 200 x 25 x 25  | 200       | 25       | 15      | 10          | 25            | 1.0         |
| CSW1191  | 300 x 25 x 25  | 300       | 25       | 15      | 10          | 25            | 1.5         |
| CSW295   | 153 x 38 x 33  | 153       | 38       | 25      | 8           | 33            | 1.5         |
| CSW4     | 300 x 38 x 33  | 300       | 38       | 25      | 8           | 33            | 3.0         |
| CSW184   | 150 x 75 x 39  | 150       | 75       | 29      | 10          | 39            | 3.4         |
| CSW337   | 127 x 50 x 50  | 127       | 50       | 38      | 12          | 50            | 2.4         |
| CSW369   | 210 x 50 x 50  | 210       | 50       | 38      | 12          | 50            | 4.1         |
| CSW125   | 230 x 50 x 50  | 230       | 50       | 38      | 12          | 50            | 4.5         |
| CSW201A  | 432 x 50 x 50  | 432       | 50       | 38      | 12          | 50            | 8.5         |
| CSW1101  | 150 x 50 x 50  | 150       | 50       | 40      | 10          | 50            | 2.9         |
| CSW343   | 190 x 50 x 50  | 190       | 50       | 40      | 10          | 50            | 3.7         |
| CSW453   | 294 x 50 x 50  | 294       | 50       | 40      | 10          | 50            | 5.8         |
| CSW2017  | 300 x 50 x 50  | 300       | 50       | 40      | 10          | 50            | 5.9         |
| CSW2075  | 200 x 75 x 75  | 200       | 75       | 63      | 12          | 75            | 8.9         |
| CSW619   | 150 x 75 x 60  | 150       | 75       | 50      | 10          | 60            | 5.3         |
| CSW3015  | 300 x 150 x 60 | 300       | 150      | 48      | 12          | 60            | 21.1        |
| CSW4538  | 450 x 38 x 31  | 450       | 38       | 25      | 6           | 31            | 4.2         |
| CSW508   | 190 x 50 x 30  | 190       | 50       | 20      | 10          | 30            | 2.2         |
| CSW2199  | 65 x 50 x 50   | 65        | 50       | 38      | 12          | 50            | 1.3         |
| CSW2265  | 115 x 50 x 50  | 115       | 50       | 38      | 12          | 50            | 2.3         |
| CSW2230  | 600 x 50 x 50  | 600       | 50       | 38      | 12          | 50            | 11.8        |
| CSW528   | 150 x 75 x 50  | 150       | 75       | 40      | 10          | 50            | 4.4         |

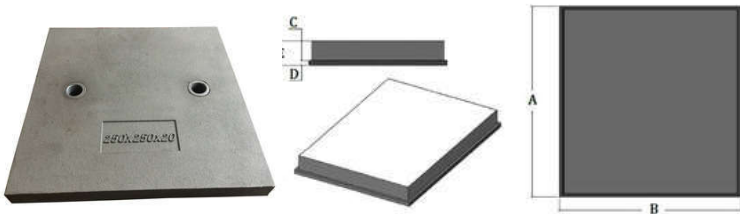


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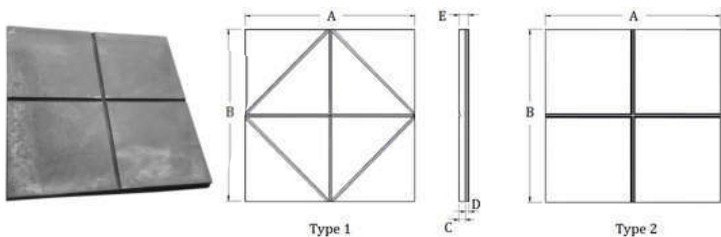
## Wear plates

Laminated wear plate is also a combination of Chrome white iron wear casting vacuum brazed onto mild steel base, with Hardness of 63HRC/700BHN, the wear surface is smooth and flat, wear life normally 1.5-2 times of clad plate and 6-8 times of AR 400 steel plate, Suitable for applications such as: chutes, hoppers, bins, liners, impact walls, rock boxes etc, very easy to use, no pre or post heating when welding, weld-on or bolt-on studs or bolt holes can be easily added upon customer's requests



| Part No.   | Size(mm)       | Length(A) | Width(B) | Wear(C) | Backing (D) | Thickness (E) | Weight (kg) |
|------------|----------------|-----------|----------|---------|-------------|---------------|-------------|
| WP 2020-18 | 200 x 200 x 18 | 200       | 200      | 12      | 6           | 18            | 5.7         |
| WP 2020-20 | 200 x 200 x 20 | 200       | 200      | 14      | 6           | 20            | 6.3         |
| WP 2525    | 250 x 250 x 20 | 250       | 250      | 14      | 6           | 20            | 9.8         |
| WP 249-A   | 294 x 144 x 30 | 294       | 144      | 20      | 10          | 30            | 10.2        |
| WP 249-B   | 294 x 294 x 30 | 294       | 294      | 20      | 10          | 30            | 20.4        |
| WP 3015-20 | 300 x 150 x 20 | 300       | 150      | 14      | 6           | 20            | 7.0         |
| WP 3015-25 | 300 x 150 x 25 | 300       | 150      | 19      | 6           | 25            | 8.8         |
| WP 3015-30 | 300 x 150 x 30 | 300       | 150      | 20      | 10          | 30            | 10.6        |
| WP 3030-18 | 300 x 300 x 18 | 300       | 300      | 12      | 6           | 18            | 12.7        |
| WP 3030-20 | 300 x 300 x 20 | 300       | 300      | 14      | 6           | 20            | 14.1        |
| WP 3030-25 | 300 x 300 x 25 | 300       | 300      | 19      | 6           | 25            | 17.7        |
| WP 301     | 301 x 200 x 28 | 301       | 200      | 18      | 10          | 28            | 13.2        |
| WP 305     | 305 x 150 x 24 | 305       | 150      | 18      | 6           | 24            | 8.6         |
| WP 445     | 445 x 445 x 25 | 445       | 445      | 19      | 6           | 25            | 38.9        |

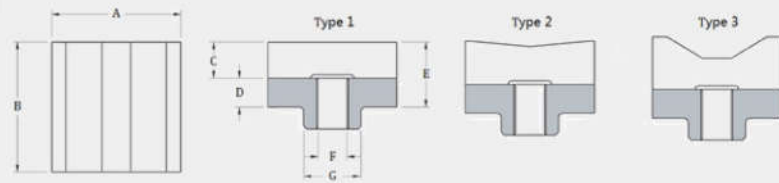
## Notched wear plates



| Part No. | Type | Length(A) | Width(B) | Wear(C) | Backing (D) | Thicknes (E) | Weight (kg) |
|----------|------|-----------|----------|---------|-------------|--------------|-------------|
| CSW2180  | 1    | 400       | 400      | 15      | 8           | 23           | 28.7        |
| CSW2747  | 2    | 200       | 200      | 6       | 6           | 12           | 3.8         |
| CSW2748  | 2    | 300       | 300      | 6       | 6           | 12           | 8.5         |

## Sugar mill shredder hammer tips

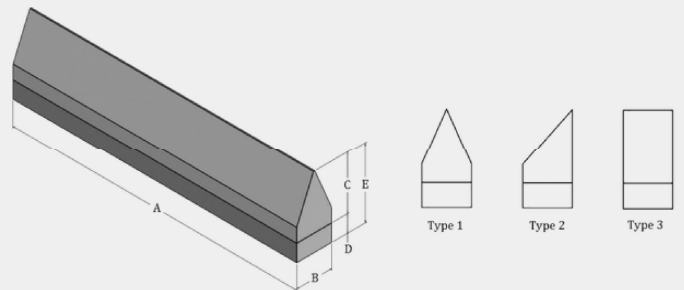
CSW shredder hammer tips are designed specially for the sugar industry, which is the most cost effective alternative to expensive, labour intensive hard-facing methods. Machined steel base allows for quick & easy installation through bolt on or weld on. Tips can be rotated for maximum wear life, no need to rebuild edges.



| Part No.         | Type | A   | B   | C  | D  | E  | F           | G    | Weight |
|------------------|------|-----|-----|----|----|----|-------------|------|--------|
| <b>PLAIN</b>     |      |     |     |    |    |    |             |      |        |
| CSW653           | 1    | 90  | 90  | 25 | 20 | 45 | 7/8"-14 UNF | 40   | 2.9    |
| CSW920           | 1    | 90  | 50  | 25 | 20 | 45 | 7/8"-14 UNF | 40   | 1.6    |
| CSW996           | 1    | 50  | 50  | 20 | 18 | 38 | 3/4"-16 UNF | 32   | 0.7    |
| CSW1052          | 1    | 80  | 80  | 25 | 20 | 45 | 7/8"-14 UNF | 40   | 2.4    |
| CSW1115          | 1    | 100 | 100 | 25 | 20 | 45 | 7/8"-14 UNF | 40   | 3.6    |
| CSW1208          | 1    | 64  | 64  | 20 | 20 | 40 | 3/4"-16 UNF | 31.3 | 1.2    |
| CSW1340          | 1    | 80  | 56  | 25 | 20 | 45 | M20 X 1.5P  | 35   | 1.6    |
| <b>FLARED</b>    |      |     |     |    |    |    |             |      |        |
| CSW1654          | 2    | 90  | 90  | 30 | 20 | 50 | 7/8"-14 UNF | 40   | 3.0    |
| CSW2038          | 2    | 80  | 56  | 30 | 20 | 50 | M20 X 1.5P  | 35   | 1.8    |
| <b>BUTTERFLY</b> |      |     |     |    |    |    |             |      |        |
| CSW1927          | 3    | 90  | 90  | 35 | 20 | 55 | 7/8"-14 UNF | 40   | 3.1    |
| CSW2014          | 3    | 90  | 50  | 35 | 20 | 55 | 7/8"-14 UNF | 40   | 1.8    |
| CSW2039          | 3    | 90  | 56  | 35 | 20 | 55 | M20 X 1.5P  | 35   | 1.9    |

## Sugar mill knife edges

CSW 700BHN Knife Edges are much more superior when compared with Q&T knife edges and Hard-facing edges, with superior edge retention & sharpness, which offering greater wear life. Easy to install, maintain & replace, hence increased production & cutting efficiency



| Part No.              | Type | Length(A) | Width(B) | Wear(C) | Backing (D) | Thickness (E) | Weight (kg) |
|-----------------------|------|-----------|----------|---------|-------------|---------------|-------------|
| <b>ARROWHEAD</b>      |      |           |          |         |             |               |             |
| CSW1065-16            | 1    | 203       | 16       | 38      | 12          | 50            | 0.9         |
| CSW1065-19            | 1    | 203       | 19       | 38      | 12          | 50            | 1.1         |
| CSW1065-22            | 1    | 203       | 22       | 38      | 12          | 50            | 1.3         |
| CSW1065-25            | 1    | 203       | 25       | 38      | 12          | 50            | 1.5         |
| CSW1265-16            | 1    | 305       | 16       | 38      | 12          | 50            | 1.4         |
| CSW1265-19            | 1    | 305       | 19       | 38      | 12          | 50            | 1.6         |
| CSW1265-22            | 1    | 305       | 22       | 38      | 12          | 50            | 1.9         |
| CSW1265-25            | 1    | 305       | 25       | 38      | 12          | 50            | 2.2         |
| <b>HALF ARROWHEAD</b> |      |           |          |         |             |               |             |
| CSW1065A-16           | 2    | 203       | 16       | 38      | 12          | 50            | 1.0         |
| CSW1065A-25           | 2    | 203       | 25       | 50      | 12          | 62            | 1.7         |
| CSW1265A-25           | 2    | 305       | 25       | 40      | 16          | 56            | 2.5         |
| <b>BLUNT</b>          |      |           |          |         |             |               |             |
| CSW1301-19            | 3    | 203       | 19       | 38      | 12          | 50            | 1.6         |
| CSW1301-25            | 3    | 203       | 25       | 38      | 12          | 50            | 2.1         |
| CSW1301-28            | 3    | 203       | 28       | 38      | 12          | 50            | 2.3         |

The sizes and shapes of 700BHN laminated wear blocks including but not limited to above nominated sizes, other size can be customized upon customers requests.