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Wear-Con . . .  . . . helping preserve your corner of the world.



Wear-Concepts, Inc. is a specialty supplier, designer, and installer of wear-resistant products for material handling systems. We are a company that continually strives to supply quality wear-resistant products and services at affordable prices, in order to help our customers minimize both the costs and downtime associated with operating their business.

Our support and sales staff has several decades of years combined service in the steel fabrication industry, and we constantly provide our customers with solutions to some of their toughest wear problems. Whether it is in conveying systems of coal-fired power plants, clinker handling systems in cement plants, crushing operations in quarries, pipelines in sand and gravel plants, cullet lines in the fiberglass industry, or moving grain from a silo to a railcar, Wear-Concepts is there to find a solution to the wear problems.

Wear-Concepts is also a company built on Biblical principles, and one that strives to be truthful and honest in business, as well as family relationships. We believe promises are to be kept, and that strong family values are to be practiced . . . always.



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Summary of Products and Services

Product and Services Summary

ALLOY STEELS

Wear Plate	WCT1, WC400, WC500
Stainless Steel	WC304, WC304HT, WC316, WC416
Wear Pipe	WC600P, WC700P, WC700P <i>Plus</i> and WC90P
Chrome Carbide	WC700, WC700 <i>Plus</i> , WC700XT, WC750 (Pins) , WC7143, WC7145, WC7150, and SHC800
Tungsten Carbide	WC900, WC910
Shafting	WC167, WC167TGP
Tool Steel	WCA6, WCD2, WCS7

SILICONE CAULKING

Clear, White, Black, Blue, Aluminum and High-Temp Red

CERAMICS

WC90 - Plain, Weldable, Scored, Hex Tile, Sleeves
 VB96 - Impact Resistant and Vacuum Bonded

CASTINGS

BI-METAL
 HIGH CHROME
 HIGH TEMP
 MANGANESE

HARD SURFACE ROD and Wire

WCE100, WCE143, WCE145, and WCE150 Chrome Carbide Electrodes
 WCW100, WCW143, WCW145, and WCW150 Chrome Carbide Wire

POLYMER PRODUCTS

UHMW	WCPGP100, WCPGP185, WCPGP188, WCPGP190
URETHANE	WCUR50, WCUR50EM, WCUR50SM WCUR70, WCUR70EM, WCUR70SM

REPAIR PRODUCTS

DEVCON
 LOCTITE

OEM REPLACEMENT PARTS

Babcock & Wilcox, ABB Raymond, Foster Wheeler, Riley
 Stoker, CE, Allen Sherman Hoff, Fuller, United Conveyor,
 Hydro-Ash, Sturtevant, Williams Crusher, American Crusher,
 Pennsylvania Crusher

FABRICATED LINERS ♦ MACHINED PARTS

WEAR BARS ♦ WEAR COATINGS

BOILER TUBE/TUBE SHIELDS ♦ SHIM STOCK/SLOTTED SHIMS

FASTENERS ♦ BEARINGS ♦ CONVEYOR BELTING

RUBBER PRODUCTS (Hose, Liners, Gaskets & O'Rings)

Engineering Services

Wear-Con has full-time engineers on staff with all the software and equipment needed to assist your business in getting the exact part you need for a repair, replacement or upgrade. Our engineer can even visit your plant to pre-measure and discuss specifics with you. Give us a call today at 816 587-1923 and put our Engineering Services to work for you.



Field Installation Services

Wear-Con can bring a crew to your location and help with every aspect of your repair or replacement. Our MSHA Part 46 Certified field crews are knowledgeable, efficient and get the job done right the first time! Call us at 816 587-1923 when you are ready to schedule your next repair, replacement or upgrade.



Maintenance Mgmt Services

Wear-Con can provide for your plant a temporary Superintendent to come in and oversee your next project whether it's big or small. With 35 years experience in plant work and project management, we have the experience necessary to fill that void. Give us a call today at 816 587-1923 and let our experience and availability save you the hassle of hiring someone fulltime.



Learn more about the services we offer by going to www.wearcon.com



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**WEAR-CON WC90
 CERAMICS**

Wear-Con ceramics are available in standard sizes, as well as custom sizes and shapes. There are several ways to install ceramics, including the use of silicone, tile adhesive, welding, or bolting. Wear-Con Ceramics provide resistance to wear from most other materials and working temperatures can be as high as 2300 degrees (F) and can be used to also line elbows and pipes.

Wear-Con also carries a line of Hex Tile which comes in several thicknesses, on 6" x 6" square webbing material. This provides more flexibility in installation.

**MECHANICAL
 PROPERTIES (typical)**

Hardness	Moh's Scale:9
Comprehensive Strength	300,000 PSI
Flexural Strength	45,000 PSI
Tensile Strength	24,000 PSI
Max Service Temp	2300 deg (F)

**STANDARD SIZES for
 PLAIN AND WELDABLE**

Thickness:	1/4", 1/2", 3/4", 1", 1 1/2", 2"
Sizes:	2 x 4, 2 x 6, 4 x 3, 4 x 6, 4 1/2 x 4 1/2, and 4 1/2 x 9

**STANDARD SIZES for
 HEX TILE**

Thickness:	1/8", 1/4", 1/2"
Sizes:	6 x 6

**SUGGESTED
 APPLICATIONS**

CEMENT INDUSTRY

- Coal Chutes
- Coal Piping Clinker Chutes
- Cyclone Lining
- Dust Collector Piping
- Coal Mill Pulverizer Lining
- Coal Mill Pulverizer Cone Lining
- Coal Mill Exhauster Lining

GRAIN INDUSTRY

- Dust Collection Piping
- Cyclone Liner
- Drag Conveyor Lining
- Truck Dump Hopper Lining
- Transfer Chute Lining
- Bean Spouts
- Fan Lining



**SUGGESTED USES FOR
WEAR-CON CERAMICS
(cont'd)**

SAND AND GRAVEL INDUSTRY

Transfer Chutes
Cyclone Linings

GRAIN INDUSTRY

Dust Collection Piping
Cyclone Liner
Drag Conveyor Lining
Truck Dump Hopper Lining
Transfer Chute Lining
Bean Spouts
Fan Lining

POWER INDUSTRY

Coal Handling Chute Liners
Downcomer Piper Lining
Stock Feeder Transition Lining
Stock Slide Gate
Pulverizer Housing Liner
Classifier Cone Liner
Coal Conduit Liner
Burner Feed Pipe
Fan Linings
Ash Pipe & Elbows
Glass & Fiberglass
Cullet Chutes & Hoppers
Add-Mix Transport Lines
Fan Housings
Trim Housings
Trim Boards

GLASS & FIBERGLASS INDUSTRY

Cullet Chutes & Hoppers
Add-Mix Transport Lines
Fan Housings
Trim Housings
Trim Boards



WEAR-CON VB96 CERAMIC Wear-Con VB-96 Vacuum Bonded Ceramic can be used in moderate impact areas which would otherwise be inappropriate for ceramic. It provides a strong bond with very thin high alumina content tiles. Wear-Con VB-96 Vacuum Bonded Ceramic can also be applied to existing parts and castings to provide extended life for the parts. It is the strongest attachment method available to insure the maximum wear life of ceramic.

**MECHANICAL
PROPERTIES**

Moh's Scale	9
Tensile Strength	6,000 PSI
Shear Strength	4,000 PSI
	24,000 PSI
Max Service Temp of Bonding Process	250 deg (F) dynamic applications 450 deg (F) static applications
Thickness:	1/16", 1/8", 1/4", 1/2", 1"

**SUGGESTED USES FOR
VB96 CERAMIC**

CEMENT INDUSTRY

Coal Exhauster Fan Blades
Coal Mill Classifier Vanes
Coal Mill Whizzer Blades
Clinker Reclaim Chutes
Limestone Feed Chutes
Clinker Dust Collector Pipe
Separator Blades
Separator Liners
Cyclone Liners
Feeder Pan Liners
Slurry Mixer Blades (Wet System)
Classifier Cone



**Wear-Con Triple-Bead 90
 Ceramic Wear-Compound**

Wear-Con's *Triple-Bead 90 Ceramic Wear-Compound* is resistant to all types of sliding abrasion and provides excellent resistance to fine particle abrasion up to 250 deg F. The ceramic beads are small enough for pump housings, yet large enough for coal chutes. Conforms to irregular and overhead surfaces due to its non-sag paste consistency. With our unique 1 to 1 mix ratio, Wear-Con's *Triple-Bead 90 Ceramic Wear-Compound* is simple to mix and use. Best if applied with expanded metal backing.

**MECHANICAL
 PROPERTIES**

Hardness	85-90 Shore D
Compressive Strength	10,500 PSI
Tensile Strength	4,100 PSI
Max Operating Temp	250 deg (F)
Mix Ratio Resin/Hardener	1 to 1
Working Time	20 - 40 minutes
Functional Time	6 - 8 hours
Color	Grey
Coverage (sf at 1/4" thickness)	28.6 lb kit - 11.83 sf 2.0 lb kit - .82 sf

STANDARD KIT SIZES

28.6 lb Kit	P/N 12490
2.0 lb Patch Kit	P/N 12491
2.0 lb Patch Kit XM	P/N 12492

**SUGGESTED USES FOR
 Triple-Bead 90 Ceramic
 Wear-Compound**

CEMENT INDUSTRY

Coal Pipe
 Dust Collector Pipe
 Separator Lining
 Exhauster Lining
 Pump Housing Repair
 Reject Chute Lining

POWER INDUSTRY

Coal Handling Chutes
 Downcomber Pipes
 Stock Feeder Transitions
 Pulverizer Housings
 Coal Conduit Pipe
 Ash Pump Housings
 Ash Pipe and Fittings

GRAIN INDUSTRY

Cyclone Linings
 Dust Collector Pipes
 Screw Conveyors
 Hammer Mill Transitions
 Grain Spouts
 Fan Linings
 Transfer Chutes

SAND & GRAVEL

Sand Slurry Pumps
 Slurry Pipe
 Transfer Chutes
 Screw Conveyors
 Dump Hoppers
 Cyclone Linings



**Wear-Con Triple-Bead 90
 High-Temp Ceramic
 Wear-Compound**

Wear-Con's *Triple-Bead 90 High-Temp Ceramic Wear-Compound* is resistant to all types of sliding abrasion and provides excellent resistance to fine particle abrasion up to 450 deg F continuous. The ceramic beads are small enough for pump housings, yet large enough for coal chutes. Conforms to irregular and overhead surfaces due to its non-sag paste consistency. With a standard 4 to 1 mix ratio, Wear-Con's *Triple-Bead 90 High-Temp Ceramic Wear-Compound* is simple to mix and use. Best if applied with expanded metal backing.

**MECHANICAL
 PROPERTIES**

Hardness	85-90 Shore D
Compressive Strength	10,500 PSI
Tensile Strength	4,100 PSI
Max Operating Temp	450 deg (F)
Mix Ratio Resin/Hardener	4 to 1
Working Time	20 - 40 minutes
Functional Time	6 - 8 hours
Color	Grey
Coverage (sf at 1/4" thickness)	28.4 lb kit - 11.83 sf 2.0 lb kit - .82 sf

STANDARD KIT SIZES

28.4 lb Kit	P/N 12590
2.0 lb Patch Kit	P/N 12591
2.0 lb Patch Kit XM	P/N 12592

**SUGGESTED USES FOR
 Triple-Bead 90 High-Temp
 Ceramic Wear-Compound**

CEMENT INDUSTRY

Coal Pipe
 Dust Collector Pipe
 Separator Lining
 Exhauster Lining
 Pump Housing Repair
 Reject Chute Lining

GRAIN INDUSTRY

Cyclone Linings
 Dust Collector Pipes
 Screw Conveyors
 Hammer Mill Transitions
 Grain Spouts
 Fan Linings
 Transfer Chutes

POWER INDUSTRY

Coal Handling Chutes
 Downcomber Pipes
 Stock Feeder Transitions
 Pulverizer Housings
 Coal Conduit Pipe
 Ash Pump Housings
 Ash Pipe and Fittings

SAND & GRAVEL

Sand Slurry Pumps
 Slurry Pipe
 Transfer Chutes
 Screw Conveyors
 Dump Hoppers
 Cyclone Linings



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S i l i c o n e



WEAR-CON PREMIUM SILICONE

Wear-Con Premium Silicone is an Industrial Grade caulking adhesive sealant which cures at room temperature to a tough rubbery solid. Wear-Con Premium Silicone can be applied overhead without sagging, and adheres to any clean surface such as metal, glass, most woods, ceramics, painted surfaces, and many other areas. It is designed to be used in temperatures ranging from -85 degrees to 450 degrees (F) continuously, and at 500 degrees (F) for intermittent exposures. It comes in your choice of Clear, White, Black, Blue, and Gray.

SUGGESTED USES:

- Installation of Ceramic Tiles
- Masking Gaskets
- Waterproofing
- Insulating
- Sealing Equipment Doors

SIZES:

- 3 oz Squeeze Tube
- 11 oz Squeeze Tube
- 10.3 oz Caulk Tube

WEAR-CON HI-TEMP RED SILICONE

Wear-Con Hi-Temperature Red Silicone is an Industrial Grade caulking adhesive sealant. Consisting of one part, the caulk cures to a tough rubbery solid at room temperature. Wear-Con Hi-Temp Red Silicone is designed to be used in temperatures ranging from -85 degrees to 600 degrees (F) continuously and at 650 degree (F) for intermittent exposure.

SUGGESTED USES:

- Sealing Heating Elements in Appliances
- Sealing Baghouse Doors and Filters
- Sealing Manifolds
- Applying Ceramic Tiles

SIZES:

- 3 oz Squeeze Tube
- 11 oz Squeeze Tube
- 10.3 oz Caulk Tube



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WEAR-CON 400 WEAR PLATE

Wear-Con 400 Wear Plate is a premium-grade wear plate. This high brinell, through hardness wear plate provides excellent abrasion resistance as well as impact resistance. Wear-Con 400 can be used as a basic component or as a liner in all types of material handling equipment. Easily weldable with a E7018 rod. Drilling can be done with any high-speed drill. Formability can be done in cold forming conditions. Available in thickness of 3/16" to 4".

MECHANICAL PROPERTIES (typical)

Hardness	360-440BHN
Yield Strength	140 ksi
Tensile Strength	180 ksi
Elongation	16%

CHEMICAL PROPERTIES (typical)

Element	Percent
C	.14
Mn	1.42
P	.007
S	.003
Si	.45
Mo	.25
Cr	.04
B	.0018

WELDING PROCEDURES

Use a low hydrogen rod such as AWS spec. E-70XX, E-100XX, or E110-XX.

SUGGESTED USES FOR WEAR-CON 400 PLATE

CEMENT INDUSTRY

- Primary Crusher Liners
- Secondary Crusher Liners
- Skirtboard Liners
- Chute & Hopper Liners
- Separator Blades
- Separator Liners
- Clinker Chute Liners
- Dozer Blades
- Haul Truck Bed Liners
- Fan Housing Liners
- Screw Conveyors



**SUGGESTED USES FOR
WEAR-CON 400 PLATE
(continued)**

POWER INDUSTRY

Skirtboard Liners
Downcomer Spout Liners
Pulverizer Housing Liners
Classifier Vanes
Pyrite Liners
Ash Hopper Liners
Dozer Blades
Screw Conveyors

GRAIN INDUSTRY

Dozer Blades
Drag Conv. Liners
Cyclone Liners
Dryer Plate
Screen Holders
Chute Liners
Hammers
Screw Conveyors

SAND & GRAVEL INDUSTRY

Skirtboard Liners
Chute Liners
Haul Truck Bed Liners
Dozer Blades

GLASS & FIBERGLASS INDUSTRY

Cullet Chutes & Hoppers
Fan Housing Liners
Fan Blades
Transitions
Trim Boards
Hammers
Screw Conveyors



WEAR-CON 500 WEAR PLATE

Wear-Con 500 Wear Plate is specially designed to reach nominal hardness of 500 BHN. Built in strength and through hardness gives Wear-Con 500 exceptional resistance to both impact and sliding abrasion. Hardness of material increases in the center. Because of the fine grain structure, this is an excellent material to form. Easily weldable with a E7018 rod. Available in thickness of 1/8" to 4".

MECHANICAL PROPERTIES (typical)

Hardness	477-555 BHN
Yield Strength	190 ksi
Tensile Strength	250 ksi
Elongation	12%

CHEMICAL PROPERTIES (typical)

Element	Percent
C	.28
Mn	.84
P	.025
S	.001
Si	.50
Mo	.25
Cr	.25
B	.0013

WELDING PROCEDURES

Use a low hydrogen rod such as AWS spec. E-7018, E-100XX, E110-XX, or E120XX.

SUGGESTED USES FOR WEAR-CON 500 PLATE

- CEMENT INDUSTRY**
 Primary Crusher Liners
 Secondary Crusher Liners
 Skirtboard Liners
 Chute & Hopper Liners
 Separator Blades
 Separator Liners
 Separator Cones
 Clinker Chute Liners

(continued next page)



**SUGGESTED USES FOR
WEAR-CON 500 PLATE
(continued)**

POWER INDUSTRY

Dozer Blades
Haul Truck Bed Liners
Fan Housing Liners
Fan Blades
Ball Mill Liners
Coal Handling Liners
Coal Crusher Liners
Skirtboard Liners
Downcomer Spout Liners
Pulverizer Housing Liners
Classifier Vanes
Classifier Cones
Pyrite Liners
Ash Hopper Liners
Dozer Blades
Fan Housing Liners
Fan Blades

GRAIN INDUSTRY

Dozer Blades
Drag Conv. Liners
Cyclone Liners
Dryer Plate
Screen Holders
Chute Liners
Hammers

SAND & GRAVEL INDUSTRY

Skirtboard Liners
Chute Liners
Haul Truck Bed Liners

GLASS & FIBERGLASS INDUSTRY

Cullet Chutes & Hoppers
Fan Housing Liners
Fan Blades
Transitions
Trim Boards
Hammers



**WEAR-CON WC600P
 INDUCTION HARDENED
 WEAR PIPE**

Wear-Con WC600P provides outstanding wear resistance for pipelines used in transporting solids or slurries. WC600P features an inner wall with a hardness of 600 Brinell and outer wall hardness of 250-300 Brinell. WC600P will last 6 to 8 times longer than mild steel pipe in high abrasion/erosion applications. WC600P is easy to install, fabricate or repair in the field. WC600P can also be ultrasonically monitored to allow for well-timed rotations or replacement.

**MECHANICAL
 PROPERTIES**

ID Hardness	600 Brinell
OD Hardness	250 Brinell
Yield Strength	700 KSI (unhardened state)
Tensile Strength	100 KSI (unhardened state)
Service temp	450° F

AVAILABLE SIZES

Nominal Pipe Diameters	2½" - 40"
Wall Thickness	Standard & Extra Heavy
Pipe Lengths	5 to 50 feet

AVAILABLE FABRICATIONS

Elbows	Wyes
Tees	Laterals
Bends	Reducers
Spooled to length	Adjustment of flanges, weld rings & couplings

**SUGGESTED INDUSTRY
 APPLICATIONS**

CEMENT

Raw Material Slurry Pipe & Elbows
 Coal Conduit Pipe and Elbows
 Clinker Handling Pipe and Elbows
 Finish Cement Piping and Elbows
 Waste Fuels Piping and Elbows

GRAIN

Raw Grain Pipe and Elbows
 Cracked Bean Spouts

SAND & GRAVEL

Wet Sand Piping and Elbows
 Finish Sand Piping and Elbows

GLASS & FIBERGLASS

Cullet Pipe and Elbows
 Raw Silica Pipe and Elbows
 Trim Fan Housing Piping

POWER PLANT

Coal Conduit Pipe and Elbows
 Ash Handling Pipe and Elbows
 Waste Fuel Piping and Elbows



**WEAR-CON 700 CHROME
CARBIDE WEAR PLATE**

Wear-Con 700 Chrome Carbide Wear Plate is a unique chromium carbide overlay on a mild steel base plate. It is designed for areas with severe impact and abrasion. Wear-Con 700 can be formed, rolled and cut to your specific needs.

**MECHANICAL
PROPERTIES (typical)**

Hardness	56-62 Rockwell C
Max Service Temp	1000° F
	Overlay can be supplied with single and double pass

**CHEMICAL
PROPERTIES (typical)**

Element	Percent
C	5.27
Mn	2.10
P	0.022
S	0.016
Si	0.50
Cr	26.1 - 30.0

WELDING PROCEDURES

Wear-Con 700 can be welded with a low hydrogen rod such as AWS spec. 7018 on the base metal. The cover pass at the overlay section should be 60 RC Hardsurface Rod (i.e. Stoodite XHC, McKay Hard Alloy 58, or Rockmount Omega N).

STANDARD SIZES

3/8" x 48"x96"	3/8" x 60"x120"
1/2" x 48"x96"	1/2" x 60"x120"
3/4" x 48"x96"	3/4" x 60"x120"
1" x 48"x96"	1" x 60"x120"

Our Wear-Con 700 Chrome Carbide Wear Plate can be supplied with a single pass or double pass application. Wear-Concepts can also service your needs for special size and thickness.

**SUGGESTED USES FOR
WEAR-CON 700 CHROME
CARBIDE PLATE**

CEMENT INDUSTRY
Primary Crusher Liners
Secondary Crusher Liners
Skirtboard Liners
Raw Material Chutes & Hoppers
Separator Blades
Separator Liners
(continued next page)



**SUGGESTED USES FOR
WEAR-CON 700 CHROME
CARBIDE WEAR PLATE
(continued)**

Separator Table Liners
Separator Cones
Clinker Chute Liners
Fan Housing Liners
Fan Blades
Front End Loader Wear Pads
Drag Line Bucket Teeth and Wear Pads

POWER INDUSTRY

Coal Handling Chute Liners
Coal Crusher Liners
Skirtboard Liners
Exhauster Fan Blades
Exhauster Spider Wear Pads
Pulverizer Classifier Cones
Pyrite Liners
Ash Hopper Liners
I.D. Fan Housing Liners
I.D. Fan Blades

GRAIN INDUSTRY

Dozer Wear Pads
Drag Conv. Liners
Cyclone Liners
Dryer Plate
Prater DF Series Liners
Champion Series Liners
Chute Liners

SAND & GRAVEL INDUSTRY

Skirtboard Liners
Chute Liners
Front End Loader Wear Pads

GLASS & FIBERGLASS INDUSTRY

Cullet Chutes & Hoppers
Fan Housing Liners
Fan Blades



**WEAR-CON 700 Plus
 CHROME CARBIDE WEAR
 PLATE**

Wear-Con 700 *Plus* Chrome Carbide Wear Plate is a unique chromium carbide overlay on a mild steel base plate. It is designed for areas with severe impact and abrasion. Wear-Con 700 *Plus* can be formed, rolled and cut to your specific needs. The 'Plus' denotes the extra chrome carbide content, which results in longer wear.

**MECHANICAL
 PROPERTIES (typical)**

Hardness 60 - 64 Rockwell C
 Max Service Temp 1000° F
 Overlay is applied to the width of the plate

**CHEMICAL
 PROPERTIES (typical)**

Element	Percent
C	4.0 - 5.0
Mn	0.3%
P	0.02
Si	1.1%
Cr	28%-32%

WELDING PROCEDURES

WC 700 *Plus* can be welded with a low hydrogen rod such as AWS spec. 7018 on the base metal. The cover pass at the overlay section should be 60 RC Hardsurface Rod (i.e. Wear-Con VP100).

STANDARD SIZES

(Size of plate in metric)	(Approx equiv in standard mea)
6.35mm x 1200mm x 2400mm	1/4" x 48" x 96"
10 mm x 1200mm x 2400mm	3/8" x 48" x 96"
12 mm x 1200mm x 2400mm	1/2" x 48" x 96"
20 mm x 1200mm x 2400mm	3/4" x 48" x 96"
6.35mm x 1500mm x 3000mm	1/4" x 60" x 120"
10 mm x 1500mm x 3000mm	3/8" x 60" x 120"
12 mm x 1500mm x 3000mm	1/2" x 60" x 120"
20 mm x 1500mm x 3000mm	3/4" x 60" x 120"

**SUGGESTED USES FOR
 WEAR-CON 700 CHROME
 CARBIDE PLATE**

CEMENT INDUSTRY
 Primary Crusher Liners
 Secondary Crusher Liners
 Skirtboard Liners
 Raw Material Chutes & Hoppers
 Separator Blades
 Separator Liners
 (continued next page)



**SUGGESTED USES FOR
WEAR-CON 700 *Plus*
CHROME CARBIDE WEAR
PLATE (continued)**

Separator Table Liners
Separator Cones
Clinker Chute Liners
Fan Housing Liners
Fan Blades
Front End Loader Wear Pads
Drag Line Bucket Teeth and Wear Pads

POWER INDUSTRY

Coal Handling Chute Liners
Coal Crusher Liners
Skirtboard Liners
Exhauster Fan Blades
Exhauster Spider Wear Pads
Pulverizer Classifier Cones
Pyrite Liners
Ash Hopper Liners
I.D. Fan Housing Liners
I.D. Fan Blades

GRAIN INDUSTRY

Dozer Wear Pads
Drag Conv. Liners
Cyclone Liners
Dryer Plate
Prater DF Series Liners
Champion Series Liners
Chute Liners

SAND & GRAVEL INDUSTRY

Skirtboard Liners
Chute Liners
Front End Loader Wear Pads

GLASS & FIBERGLASS INDUSTRY

Cullet Chutes & Hoppers
Fan Housing Liners
Fan Blades



**WEAR-CON 700 XT
CHROME CARBIDE WEAR
PLATE**

Wear-Con 700 XT Chrome Carbide Wear Plate is a complex Chrome Carbide Overlay on a stainless steel base plate. It is designed for areas of severe impact and abrasion, and can also be used where high service temperatures or extreme PH conditions exist. Wear-Con 700 XT can be formed, rolled, and cut to your specific needs.

**MECHANICAL
PROPERTIES (typical)**

Hardness	56-62 Rockwell C
Max Service Temp	1400° F

**CHEMICAL
PROPERTIES (typical)**

Element	Percent
C	5.27
Mn	2.10
P	0.022
S	0.016
Si	0.50
Cr	26.1 - 30.0

WELDING PROCEDURES

Wear-Con 700 XT can be welded with a 309 or 310 Stainless Steel Rod on the base metal. The cover pass at the overlay section should be 60 RC Hardsurface Rod (i.e. Stoodite XHC, McKay Hard Alloy 58, or Rockmount Omega N).

STANDARD SIZES

3/8" x 60"x120"
1/2" x 60"x120"
3/4" x 60"x120"
1" x 60"x120"

Our Wear-Con 700 XT Chrome Carbide Wear Plate can be supplied with a single pass or double pass application. Wear-Concepts can also service your needs for special size and thickness.

**SUGGESTED USES FOR
WEAR-CON 700 CHROME
CARBIDE PLATE**

CEMENT INDUSTRY
Primary Crusher Liners
Secondary Crusher Liners
Skirtboard Liners
Raw Material Chutes & Hoppers
Separator Blades



WEAR-CON 750 CHROME ALLOY PINS

Wear-Con 750 Chrome Alloy Pins are a Air Hardened Style Overlay which will work harden to a 65 RC. They are designed to withstand the most severe wear in metal to metal applications, and will typically outlast OEM and manganese pins used in dragline shovel bucket applications. They are also rebuildable, which can provide a significant cost savings over time.

MECHANICAL PROPERTIES (typical)

Hardness	52-58 Rockwell C (will work harden to 60-65 RC)
Tensile Strength	160,000 PSI
Yield Strength	130-135,000 PSI
Max Service Temp	900° F

CHEMICAL PROPERTIES (typical)

Element	Percent
C	0.20
Mn	1.20
P	0.015
S	0.010
Si	0.40
Ni	4.0
CH	26.0
Mo	0.50

STANDARD SIZES

2 1/2" dia Minimum
 9" dia Maximum
 Up to 64" Length
 Typical Tolerance +-0.010

SUGGESTED USES FOR WEAR-CON 750 CHROME ALLOY PINS

CEMENT INDUSTRY

Primary Crusher Hammer Shafts and Pins
 Secondary Crusher Hammer Shafts & Pins
 Screw Conveyor Coupler Shafts
 Dragline Bucket Pins
 Clam Shells Bucket Pins
 Clinker Cooler Wheels
 Sheave Pins

MINING INDUSTRY

Drag Line Bucket Pins
 Clam Shell Bucket Pins
 Crusher Shafts and Pins
 Back Hoe Pins
 Sheave Pins

POWER INDUSTRY

Coal Crusher Shafts and Pns
 Screw Conveyor Stub Shafts
 Screw Conveyor Coupler Shafts
 Sheave Pins



**WEAR-CON WC700P Plus
 CHROME CARBIDE
 WEAR PIPE**

Wear-Con WC700P *Plus* provides excellent resistance to severe abrasion, erosion and impact. WC700P *Plus* will last up to 12 times longer than mild steel pipe and is easy to install, offers lower life cycle costs and can be custom fabricated to aid pipe design or replacement. The 'Plus' denotes the extra chrome carbide content, which results in longer wear.

**MECHANICAL
 PROPERTIES**

Hardness 60-64 HRc
 Service Temperature 1000° F

AVAILABLE SIZES

Nominal Pipe *Inside Diameters* 6", 8", 10", 12"
 14" and 16" (are measured *OD*)
 Pipe Lengths up to 118"
 Wall Thickness 3/8" (10mm) for all, except 6" pipe
 is 5/16" (8mm) wall thickness

**AVAILABLE
 FABRICATIONS**

Spoiled to length
 Bends
 Tees
 Wyes
 Laterals
 Attachment of flanges, weld rings & couplings

**SUGGESTED
 APPLICATIONS**

<p><u>CEMENT</u> Raw Material Slurry Pipe & Elbows Coal Conduit Pipe and Elbows Clinker Handling Pipe and Elbows Finish Cement Piping and Elbows Waste Fuels Piping and Elbows</p> <p><u>GLASS & FIBERGLASS</u> Cullet Pipe and Elbows Raw Silica Pipe and Elbows Trim Fan Housing Piping</p>	<p><u>GRAIN</u> Raw Grain Pipe and Elbows Cracked Bean Spouts</p> <p><u>SAND & GRAVEL</u> Wet Sand Piping and Elbows Finish Sand Piping and Elbows</p> <p><u>POWER PLANT</u> Coal Conduit Pipe and Elbows Ash Handling Pipe and Elbows Waste Fuel Piping and Elbows</p>
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WEAR-CON SHC800 SOLID HIGH-CHROME WEAR PANELS

Wear-Con's SHC800 Solid High-Chrome Wear Panels are cast from High Chrome white iron with a hardness of 55-58 HRC. These wear panels are unsurpassed in abrasion resistance and are easily installed. The chromium carbides provide maximum abrasion resistance along with the ability to withstand higher temperatures. Wear-Con's SHC800 Wear Panels will out last alloy plate and will perform to abrasion standards similar to ceramics.

BENEFITS

Superior abrasion resistance
 Withstands temperatures of 900° F
 Installs easily
 Corrosion and erosion resistant
 Cost beneficial wear-life

APPLICATIONS

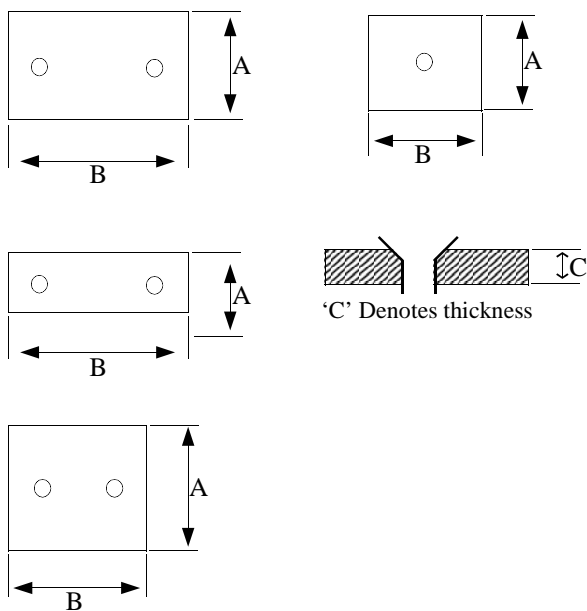
Mixer Tanks	Rail Cars
Chutes and Transitions	Mixer Liners
Classifiers	Pug Mills
Conveyor Casings	Scrap Bins
Dust Collectors	Skip Cars
Cyclone Separators	Fan Casings
Feeders	Wear Panels

INSTALLATION

The most common method of installation is by bolting. Each panel has counter-sunk holes to facilitate usage of plow bolts or the panels could be plug-welded with 309/310 Stainless.

AVAILABLE SIZES

See chart below



Nominal Dimensions			
Part#	Dimensions	Part#	Dimensions
5053-1-1	A = 12" B = 18" C = 1/2"	5053-1-2	A = 12" B = 18" C = 3/4"
5053-2-1	A = 6" B = 18" C = 1/2"	5053-2-2	A = 6" B = 18" C = 3/4"
5053-3-1	A = 12" B = 12" C = 1/2"	5053-3-2	A = 12" B = 12" C = 3/4"
5053-4-1	A = 6" B = 6" C = 1/2"	5053-4-2	A = 6" B = 6" C = 3/4"



WEAR-CON 900 TUNGSTEN CARBIDE

Wear-Con 900 Tungsten Carbide Wear Plate is a unique tungsten carbide overlay on a mild steel base plate. It is designed for areas with severe impact and abrasion. Wear-Con 900 can be formed, rolled and cut to your specific needs.

MECHANICAL PROPERTIES (typical)

Hardness	73-75 Rockwell C
Max Service Temp	1000 Deg (F)
	Overlay can be supplied with single and double pass

CHEMICAL PROPERTIES (typical)

Element	Percent
C	5.27
Mn	2.10
P	0.022
S	0.016
Si	0.50
Cr	26.1-30.0
W	35.0

WELDING PROCEDURES

Wear-Con 900 can be welded with a low hydrogen rod such as AWS spec 7018 on the base metal. The cover pass at the overlay section should be 60 RC Hard surface Rod (I.e. Stoodite XHC, McKay Hard Alloy 58, or Rock-mount Omega N).

STANDARD SIZES

- 3/8" x 42 1/2" x 92 1/2"
- 1/2" x 42 1/2" x 92 1/2"
- 3/4" x 42 1/2" x 92 1/2"
- 1" x 42 1/2" x 92 1/2"

Our Wear-Con 900 Tungsten Carbide Wear Plate can be supplied with a single pass or double pass application. Wear-Concepts can also service your needs for special size and thickness.

SUGGESTED USES FOR WC900 TUNGSTEN CARBIDE

- CEMENT INDUSTRY**
 Primary Crusher Liners
 Secondary Crusher Liners
 Skirtboard Liners
 Raw Material Chutes and Hoppers
 Separator Blades
 (continued on next page)



**SUGGESTED USES FOR
WEAR-CON 900 TUNGSTEN
CARBIDE WEAR PLATE
(continued)**

Separator Liners
Separator Table Liners
Separator Cones
Clinker Chute Liners
Fan Housing Liners
Fan Blades
Front End Loader Wear Pads
Drag Line Bucket Teeth and Wear Pads

POWER INDUSTRY

Coal Handling Chute Liners
Coal Crusher Liners
Skirtboard Liners
Exhauster Fan Blades
Exhauster Spider Wear Pads
Pulverizer Classifier Cones
Pyrite Liners
Ash Hopper Liners
I.D. Fan Housing Liners
I.D. Fan Blades

GRAIN INDUSTRY

Dozer Wear Pads
Drag Conv. Liners
Cyclone Liners
Dryer Plate
Prater DF Series Liners
Champion Series Liners
Chute Liners

SAND & GRAVEL INDUSTRY

Skirtboard Liners
Chute Liners
Front End Loader Wear Pads

GLASS & FIBERGLASS INDUSTRY

Cullet Chutes & Hoppers
Fan Housing Liners
Fan Blades



**WEAR-CON WC910
TUNGSTEN CARBIDE**

WC910 Tungsten Carbide tiles provide a more economical way of extending the life of parts and castings as compared to manufacturing them completely out of Tungsten Carbide. WC910 is applied by induction brazing with strict quality control, insuring permanent placement of the Tungsten Carbide and consistency in every application. WC910 Tungsten Carbide can provide up to 50 times the life of mild steel. Special carbide grades can be applied where higher impact, sliding, or corrosion resistance is required.

**MECHANICAL
PROPERTIES (typical)**

Hardness	Impact Grade - 68 RC Non-Impact Grade - 93 RA
Tensile Strength	Same as base metal to which applied
Shear Strength	20,000 PSI Min 50,000 PSI Max
Max Service Temp	800 Deg (F)

STANDARD SIZES

Thickness: 1/16", 1/8", 3/16"
Length/Width: 1/4", 3/8", 1/2", 3/4", 1", 1 1/2"

**SUGGESTED USES FOR
WC910 TUNGSTEN
CARBIDE**

CEMENT INDUSTRY
Coal Mill Exhauster Blades
Coal Mill Whizzer Blades
Coal Mill Exhauster Bullnose
Classifier Vanes
Bolt Protectors
Angle Deflectors
Vane Deflectors
Modular Panel Liners
Transition Chutes
Waste System Cutter Blades



WEAR-CON AR PLATE

Wear-Con AR Plate is a high abrasion resistant carbon wear plate. It has a 235-250 brinell hardness which provides wear protection in many applications with relatively low cost. Wear-Con AR Plate will outlast hot rolled carbon steel by a wide margin. Wear-Con AR Plate can easily be drilled, machined, punched, and welded. Moderate amounts of forming are also applicable. Available in thickness of 3/16" to 1".

MECHANICAL PROPERTIES (typical)

Hardness	235-250
Yield Strength	70,000 PSI
Tensile Strength	110,000 PSI

CHEMICAL PROPERTIES (typical)

Element	Percent
C	.35
Mn	1.20
Mo	---
Cr	---
B	---

WELDING PROCEDURES

Use a low hydrogen rod such as AWS spec. E-70XX, E-80XX, E90XX, E-100XX, E-110XX, and E120XX.

SUGGESTED USES FOR WEAR-CON AR PLATE

CEMENT INDUSTRY

Chute Hopper Liners
 Separator Liner & Parts
 Fan Blades
 Screw Conveyor

SAND & GRAVEL INDUSTRY

Skirtboard Liners
 Chute Liners
 Screw Conveyors

POWER INDUSTRY

Coal Handling Chute Liners
 Skirtboard Liners
 Classifier Vanes
 Dampers
 Fan Blades
 Screw Conveyors

GRAIN INDUSTRY

Drag Conveyor Liners
 Drag Conveyor Paddles
 Dryer Paddles
 Screen Holders
 Chute Liners
 Hammers

GLASS & FIBERGLASS INDUSTRY

Fan Blades
 Transistions
 Trim Boards
 Hammers
 Screw Conveyors



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Fax: 816 587-2055 eSales@wearcon.com www.wearcon.com

The logo for Stainless Steel, featuring a large, stylized red letter 'S' inside a blue square, followed by the text "tainless Steel" in a blue, sans-serif font.

Stainless Steel



**WEAR-CON 304
STAINLESS STEEL**

Wear-Con 304 Stainless Steel is the most widely used of the stainless and heat-resisting steels. Great corrosion resistance to many chemical corrodents as well as industrial atmospheres. Very formable and can be readily welded.

**MECHANICAL
PROPERTIES (typical)**

Hardness	180 BHN
Yield Strength	35 ksi
Tensile Strength	85 ksi
Max Operating Temp	1600 deg (F)

**CHEMICAL
PROPERTIES (typical)**

Element	Percent
C	.08 max
Mn	2.00 max
Si	1.00 max
Cr	18.00-20.00
N	8.00-11.00

**SUGGESTED USES FOR
WEAR-CON 304 STAINLESS
STEEL**

CEMENT INDUSTRY

Burner Pipe
Acid Holding Tank
Coal Chute Liners
Screw Conveyors

GLASS & FIBERGLASS INDUSTRY

Transitions
Trim Boards
Screw Conveyors

POWER INDUSTRY

Boiler Tube Shields
Boiler Tube Shield Clips
Burner Pipe
Burner Barrel Tips
Coal Chute Liners
Water Screen Parts
Screw Conveyors

SAND & GRAVEL INDUSTRY

Skirtboard Liners
Chute Liners
Screw Conveyors

GRAIN INDUSTRY

Drag Conveyor Liners
Drag Conveyor Paddles
Chute Liners
Screw Conveyors



**WEAR-CON 304HT
STAINLESS STEEL**

Wear-Con 304HT Stainless Steel is a corrosion resistant and wear resistant stainless steel. This material has been pre-work hardened to 350 BHN. Once installed, it will work harden to 500 BHN. Wear-Con 304HT also provides a very slick surface due to the compression of the metal. It also provides a low coefficient of friction.

**MECHANICAL
PROPERTIES (typical)**

Hardness	350 BHN
Yield Strength	100,000 PSI
Tensile Strength	140,000 PSI

**CHEMICAL
PROPERTIES (typical)**

Element	Percent
C	.03 max
Mn	7.0-9.0
Si	1.0
Cr	15.0-17.0
N	1.5

STANDARD SIZE

1/4" x 48" x 96"

WELDING PROCEDURES

Use a 309 or 310 S.S. rod

**SUGGESTED
APPLICATIONS**

CEMENT INDUSTRY

Skirtboard Liners
Chute & Hopper Liners
Screw Conveyor
Screens

**GLASS & FIBERGLASS
INDUSTRY**

Cullet Chutes and Hoppers
Screw Conveyors
Trim Boards
Add-Mix Reclaim Lines

POWER INDUSTRY

Coal Handling Chute Liners
Skirtboard Liners
Coal Buckets
Rail Unloading Hoppers
Rail Hopper Cars
Downcomer Spout Liners
Screw Conveyors

GRAIN INDUSTRY

Screw Conveyors
Bean Dryer Plates
Drag Conveyor Liners
Screen Holders
Cyclone Liners

SAND & GRAVEL INDUSTRY

Chute & Hopper Liners
Skirtboard Liners
Haul Truck Bed Liners



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WEAR-CON PGP-100 WHITE UHMW and WEAR-CON PGP-190 BLACK UHMW

Natural 100% Virgin UHMW Polymer produced from resin exhibiting the highest molecular weight available. PGP-100 products exhibit flatness and thickness tolerance. It meets compliance with the FDA for use in food contact applications. PGP-100 White UHMW provides answers for wear and friction for moving wet, sticky, or fine particles in hoppers and chutes. It provides high resistance to corrosive chemicals and impact. PGP-100 is lightweight and easy to install with standard tools. PGP-100 White UHMW provides a lower coefficient of friction than glass.

PGP-190 Black Industrial grade UHMW polymer is produced to provide higher wear and UV resistance compared to PGP-100.

MECHANICAL PROPERTIES

Hardness	67 Shore D
Yield Strength	3400 PSI
Tensile Strength	4,000 - 6,300 PSI
Water Absorption	Nil
Max Service Temp	180 Deg (F)

STANDARD THICKNESS

1/4", 3/8", 1/2", 3/4", & 1"

STANDARD SIZES

48" x 96", 48" x 120", and 60" x 120" sheets
 1/2" dia to 6" dia Rod in 10' lengths
 Cut sizes of Rod or Sheets are also available

SUGGESTED USES FOR WEAR-CON PGP-100 and PGP-190

CEMENT INDUSTRY

- Slurry Chutes
- Vibrating Feeder Pans
- Sand Apron Drags
- Shale Bin Hoppers
- Pan Conveyor Segments
- Limestone Bin Hoppers
- Coal Bunker Linings
- Conveyor Belt Guides
- Conveyor Belt Wipers
- Conveyor Belt Skirtboards

GRAIN INDUSTRY

- Drag Conveyor Paddles
- Air Slide Gates
- Sprockets Chain Guides
- Conveyor Belt Guides
- Conveyor Belt Wipers
- Conveyor Belt Skirtboards



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Engineering Services

816 587-1923 or email joem@wearcon.com

Wear Concepts, Inc. has an engineering department capable of offering a superior abrasion resistant solution to meet your business needs. We have extensive experience in heavy industry including cement and power and have over thirty-five years of direct experience in the cement business.

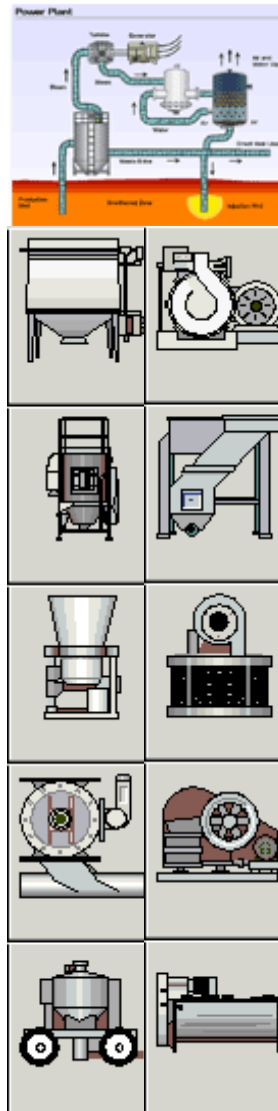
"Your engineer was very knowledgeable and had great experience in the field and proved to be very helpful in showing other possible ideas for the wear application."

Product support includes the capability of traveling to the job site as needed to investigate the wear problem, gather the necessary dimensional data and finally, produce electronic documents useable for manufacturing of the solution for the wear problem.

"...it is rare that you have someone so knowledgeable that is also mobile to go to customers, take measurements and share ideas for wear applications!"

Recommendations can be offered when indicated, for the re-design of existing equipment to further extend customer equipment wear life.

And of course, we always perform a final quality control audit to ensure that the part has been manufactured to meet your specific requirements. Call us today and take advantage of this excellent service.



816 587-1923

Field Installation Services

816 587-1923 or email dennist@wearcon.com

Wear Concepts provides top-quality field installation services through their MSHA Part 46 Certified field crews that can professionally install or make repairs at your plant. Available 24x7 year-round, our crews are dedicated to quality and performance and know that their work is Wear-Con's signature on your plant. Something none of us takes lightly.

"I wanted to thank you for a job well done on the ceramic lining of the Pulverizer exhauster fan housings. You and your crew did an excellent job and we appreciate your willingness to work around our equipment availability."

One main component of the entire field installation concept is having the tools and equipment to do the job right the first time. Our crew comes in with all they need along with their many years of experience and leaves with your wear-problem solved.

"We have found the hourly rates of the craftsmen associated with Wear-Concepts to be competitive with almost anyone else in the surrounding area and closest states."

Covering all 50 states, our crews will even work week-ends and possibly even holidays to fit your schedule. Professional, affordable and knowledgeable. Why do it yourself? Call us and take advantage of this excellent service we offer.

816 587-1923



Operations/Field Spvr



Assistant Field Spvr





Maintenance Mgmt Services

816 587-1923 or email dennist@wearcon.com

Wear-Con can provide a temporary Superintendent/Project Manager to come in and oversee your next project—large or small. With almost 35 years experience in plant work and in project management, we can bring much needed experience to your project.

"What a relief to know I could trust my project to someone capable of performing true project management"

Here are just a few highlights:

- provides single point of contact for the overall project;
- Analyze project requirements and specifications;
- Coordinate the estimating, scheduling and budget;
- Coordinate all communications with the owner;
- Direct and establish process materials flow sheets and engineering data;
- Oversee and coordinate the field installation work to completion, project checkout and acceptance by the owner
- Chart the progress of the project and coordinate with owner

"The cost of hiring someone to oversee this project was minimal compared to having to keep someone on staff that has extensive project management experience AND years of field experience"

Managing a project of any size often requires skill and expertise, but mostly experience. We offer all three. Give us a call today and see if our Maintenance Management Service is something your business could benefit from.

816 587-1923



Change Control Documentation

Current Version: **7.7** a/o Nov 25, 2008

Version 7, Nov 3, 2005 (non-major change)

- Page 1-Title Page (version number added)
- Page 9-Wear-Con VB96 Ceramic (typo correction)
- Page 19-Wear-Con WC700 Chrome Carbide (layout correction)
- Page 38-Field Services (layout change, photos removed, new photos added)

Paper Catalog Status: all pages with changes were reinserted into all existing binders in stock.

CD and Web PDF Status: Updated

Version 7.1, Dec 8, 2005 (non-major change)

- Change Control page added
- Change Control indicator moved from Title page to Change Control Page

Status: New Change Control Page and new Title Page will be inserted into each binder that goes out. All users in the building will receive these new pages 12/09/05.

CD and Web PDF Status: Not updated. Will update next 'major' change

Version 7.2, Jan 12, 2006 (major change)

- New pages added for WC700 *Plus* Wear Plate
- New page added for WC700P *Plus* (pipe)
- New page added for new Wear-Con Solid High-Chrome Wear Panels SHC800
- Modified Product and Services Summary Page to reflect new products

Status: New Change Control Page and new pages just bulleted above will be inserted into each binder that goes out. All users in the building will be notified that these new pages exist. They will receive:

New control page, new Products and Services Summary, WC700 *Plus*, WC700P *Plus*, and SHC800.

CD and Web PDF Status: PDF versions for CD and Web updated.

Version 7.3, July 10, 2006 (major change)

- New page added for WC² Wear-Compound
- Change TOC page (reformatted and retitled heading)
- Minor change to Field Installation Services page (MSHA rating)
- Changes to Product and Services Summary (removed WC960 Wearconite)

Status: New Change Control Page and modified pages bulleted above will be inserted into each binder that goes out. **New control page, new Products and Services Summary, new TOC, new WC2 page, new Field Installation Services page.**

CD and Web PDF Status: PDF versions for CD and Web updated

Version 7.4, April 17, 2007 (major change)

- Title page changed to reflect new version number
- Table of Contents changed
- Product and Services Summary page modified
- Wear-Compound page modified to reflect new product name



Change Control Documentation

Current Version: **7.7** a/o Nov 25, 2008

(cont'd)

- Deleted page about website ordering
- Changed Family of Services title page to VIII

Status: New Change Control Page and modified pages bulleted above will be inserted into each binder that goes out. **New Title Page, New TOC page, new Products and Services Summary, new wear-compound page, deleted website page (section VIII), new Family of Services title page.**

CD and Web PDF Status: PDF versions for CD and Web updated

Version 7.5, April 04, 2008 (major change)

- Page 1 - Title Page (version number changed)
- Page 5 - Changed Product and Services Summary (removed DAP, CRC)
- Page 7 - WC90 (added "elbows and pipes" wording to first paragraph)
- Page 8 - (layout change)
- Replaced Page 11 (removed Pneu-Wear product and added Triple-Bead 90 High Temp)
- Page 22 - (added 1/4" pipe and modified layout of measurements. Changed measurements per Dennis Todd.
- Page 24 - WC700 XT Chrome Carbide Wear Plate (corrected wording in first paragraph)
- Page 27 - WC700 Plus Wear Pipe (modified 'Available Sizes' section to add and correct

Status: New Change Control Page and modified pages bulleted above will be inserted into each binder that goes out. **New Triple-Bead 90 High-Temp page.**

CD and Web PDF Status: PDF versions for CD and Web updated

Version 7.6, June 03, 2008 (major change)

- Page 1 - Title Page (version number changed)
- Page 5 - Changed Product and Services Summary (removed ARS-316)
- Removed Section VI Title page - Hardsurface Rod
- Page 35—Removed ARS-316 Hardsurface Rod
- Changed all pages from 35 forward due to section number change

Status: New Change Control Page and modified pages bulleted above will be inserted into each binder that goes out and hard-surface rod will be removed.

CD and Web PDF Status: PDF versions for CD and Web updated

Version 7.7, November 25, 2008 (major change)

- Company Address changed throughout
- Logo changed throughout

Status: New binders will need to be issued to all users

CD and Web PDF Status: PDF versions for CD and Web updated