UTP ABRADISC 6000

The logical alternative to long hours of hardfacing an economical solution to combat wear

UTP ABRADISC 6000

is a specially shaped abrasion-resistant disc, metallurgically formulated to give a hardness of 60 HRC right through. Each disc is plug-welded in a predetermined pattern onto the part to be protected, using a specially formulated electrode - UTP DISCWELD.

Cost-efficient

The system is economical because of its speed of application, reduced downtime and the need to replace only individually worn discs if necessary.

Labour- and time-efficient

UTP ABRADISC 6000 can be applied with a minimum of manhours - far less than comparable weld overlays.

Performance-efficient

The UTP ABRADISC system will extend the useful service life of many machine parts that are subjected to abrasive wear and tear.

Use UTP ABRADISC 6000 on

- Bulldozer blades
- Shovels
- Excavator buckets
- Slides
- Chutes
- Mixing paddles
- Scraper blades
- Screw conveyors
- Bulldozer track idler wheels

. . . and improve the EFFICIENCY of your wear-protection procedures!

UTP ABRADISC 6000 offers the following advantages:

Compared with weld overlays

- UTP ABRADISC 6000 can be applied to a given area in approx. one-tenth of the time of manual arc welding and approx. one-quarter of the time of semi-automatic welding.
- UTP ABRADISC 6000 gives a constant 60 HRC hardness through 5 mm thickness, whereas weld deposits show a hardness reduction due to base metal dilution.
- The application of UTP ABRADISC 6000 does not affect the base metal by excessive heat input. High heat input, which is often the case with welding procedures, can result in a reduction of the mechanical properties of the base metal.

Compared with wear plates

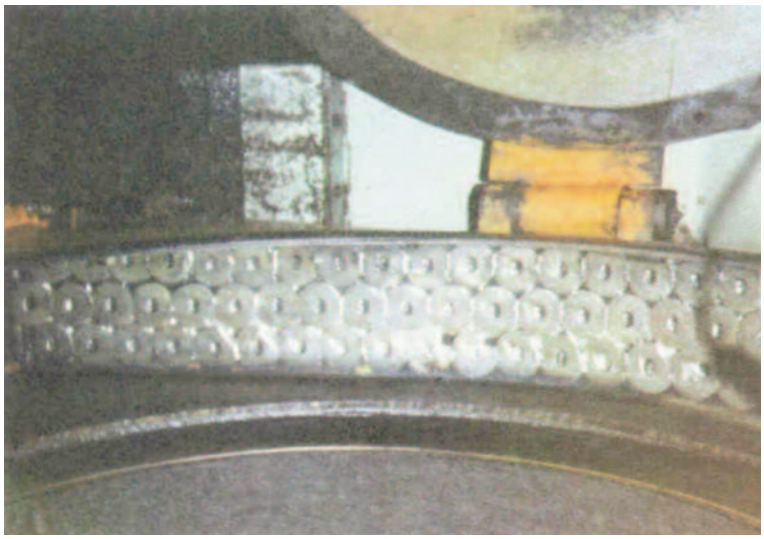
- UTP ABRADISC 6000 is of easily manageable size and weight, easily transported and stored.
- Being of one size and shape, there is no need to carry different sizes and shapes of wear plates.
- UTP ABRADISC 6000 can be applied in approx. half the time it takes to apply a wear plate, saving both an down-time änd labour costs.
- UTP ABRADISC 6000 weighs less than half that of a wear plate for the same area, so there is less load on operating systems and greater payload.
- As wear takes place it is necessary to replace only the individually worn discs, NOT the complete wear plate.
- The application patterns of UTP ABRADISC 6000 improve performance through product compaction in spaces between discs increasing abrasive wear-resistance.

Instructions for use

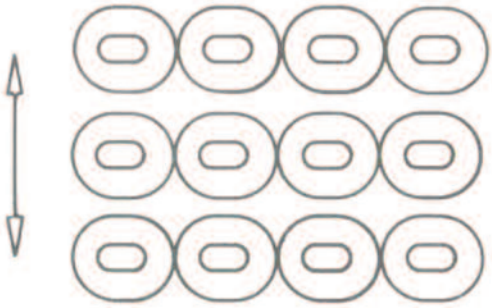
- Clean weld area with wire brush
- Check that area being protected is smooth and flat. The entire circumference of the disc should be in contact with the Base metal.
- Place discs in the wanted pattern (see detail above right)
- Make sure that the surface of the disc marked "D" is facing downwards (the "D" must NOT be visible)
- Use only UTP DISCWELD electrodes (70 - 100 Ampere, AC or DC +), supplied in sufficient quantity in each pack of UTP ABRADISC 6000.
- Plug weld disc by means of a fillet weld right around the central hole. No need to weld the disc an the outer circumference.

UTP DISCWELD electrodes are suited to join the UTP ABRADISC 6000 to structural steel, carbon steel, low-alloy, high-alloy and manganese steel.

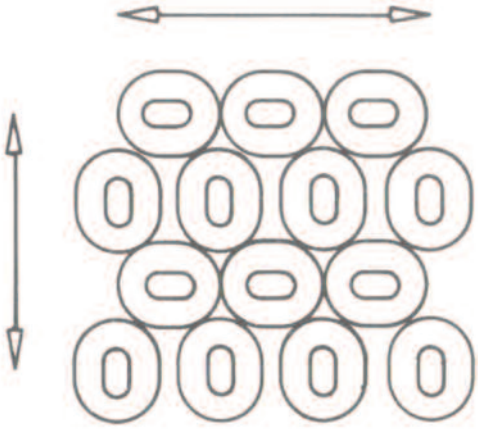
UTP ABRADISC 6000 can even be welded onto curved surfaces provided the plug weld can be securely deposited to the base metal.



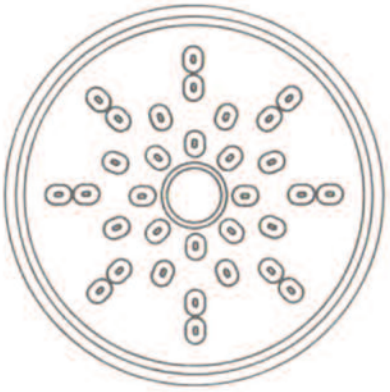
Earthware mixing unit



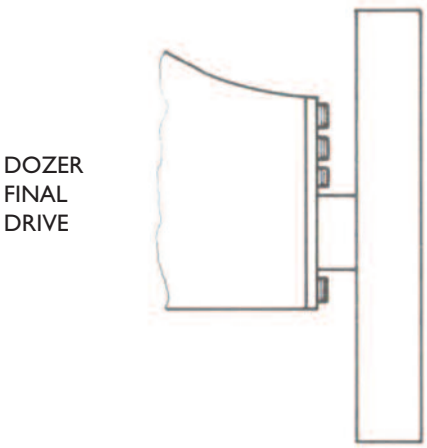
Discs touching at curved edge. Rows parallel and 10 mm apart. Used where material flow is in direction of the arrow.



Each disc touches the adjacent curved surface. Primarily used where material flow is in all directions.



Pattern to be used on wheels (i. e. track idler wheel) or turning discs etc.



Final drive casing protected by ABRADISC 6000 to combat wear from primary material trapped between the housing and drive sprocket. Discs application was easy, due to the reduced amount of welding and minimal heat input causing no cracking in the housing.

Sales Program

Welding consumables:	Stick electrodes for welding nickel and nickel alloys Stick electrodes for hardfacing Special stick electrodes for welding different kinds of steel Stick electrodes for welding cast iron Stick electrodes for chamfering and cutting Stick electrodes for welding non-ferrous metals Stick electrodes for welding stainless, acid- and heat resistant steels Silver solders, brazing alloys, soft solders Fluxes Stick electrodes for welding low- and medium-alloyed steels MIG/MAG wires and TIG rods Flux-cored wires Submerged arc welding wires and fluxes
Flame and Plasma spraying powders:	Metal powders EXOBOND powders UNIBOND powders HABOND powders PTA powders (Plasma)

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If it can be welded – we know how.

UTP is a certificated company.
TÜV Certification according to DIN EN ISO 9001
DIN EN ISO 14001