

Stud Welding



Wear Studs

- Reduces wear on surfaces exposed to abrasion by forming a barrier between the machinery and the material being moved.
- Consists of applying high-chromium and high-carbon abrasion resistant studs to machinery in close formation.
- Easy to handle, fast application welding gun saves time and labour costs.



FEATURES & BENEFITS

- High abrasion resistance
- Quick & easy application on site
- Permanent protection
- Save on time, power and labour
- Minimise costs and machine down time
- Extend machinery wear life

APPLICATIONS

- Deep Mining Industry
- Open Pit Mines
- Quarries
- Tunneling
- Steelworks
- Ore Preparing

Stud Welding



Effectiveness of AVT wear studs in different ground conditions

Ground Condition	Rock-Box-Effect	Impact	Effectiveness
Sand	★★★★	Low	★★★★
Sand & gravel	★★★★	Low	★★★★
Gravel & earth, loose	★★★★	Low	★★★★
Earth, loose	★★★★	Low	★★★★
Earth & clay	★★★★	Low	★★★★
Clay & shale loose	★★★★	Low	★★★★
Shale, tight, blasted	★★	High	★★
Shale & coal, tight, blasted	★★	Moderate	★★
Shale & coal, loose	★★★★	Low	★★★★
Lignite, sub bituminous coal	★★★★	Moderate	★★★★
Bituminous coal, blasted	★	Moderate	★★
Anthracite, blasted	★	Moderate	★★
Limestone, blasted	★	High	★
Sandstone & earth, loose	★★★★	Moderate	★★
Sandstone, tight, blasted	★	High	★
Phosphate loose or blasted	★★★★	Low	★★★★
Uranium ore, loose	★★★★	Moderate	★★★★
Copper ore, loose	★★★★	Moderate	★★★★
Mineral ores, loose	★★★★	Moderate	★★★★
Tight areas, blasted	★	High	★
High quartzite, loose or blasted	★	High	★

★ = Poor ★★ = Fair ★★★ = Good

Available in 3 specifications:

Note that all studs include ceramic shield. Other sizes available on request.

Standard

- 16mm with 13mm neck; and
- 20mm with 17mm neck
- Length is 15mm
- Fits standard chucks
- Made for Australian conditions
- Hardness 58-60HRC

Premium

- 16mm with 10mm neck
- Length is 15mm
- Tapered top fits perfectly into the chuck
- Fast loading
- Fits standard chucks
- Hardness 58-60HRC

High Performance

- 16mm with 12mm neck
- Length is 15mm
- Tungsten Carbide insert for higher wear resistance
- Use across 10-20% of total surface area for additional durability
- Insert Hardness is HV1,200



Solutions for the Mining, Minerals Processing
& Infrastructure Industries

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