

CASE STUDY

↳ Dillidur Impact



↳ Steel specialists IMS UK, one of Europe's largest specialist steel processors and stockholders of abrasion resistant and high yield steel, are making an impact in the UK market with the exclusive supply of Dillidur Impact, a water quenched and tempered steel ideal for use in earthmoving and loading machines, buckets, grabs and knives.

DILLIDUR HAS EXCLUSIVE IMPACT IN EXTREME ABRASION WEAR MARKET

“Until recently it was hardly possible to subject components to the demands placed on modern machinery. Where Dillidur Impact differs from other wear resistant steels is its ability to withstand some of the severest temperatures and working environments”

↳ **Adrian Hance, Abraservice UK**
Divisional Director

DILLIDUR IMPACT is a wear resistant steel with exceptionally high resistance to cracking. It has a nominal hardness of approximately 340 HB in its delivery condition, and its outstanding mechanical properties are obtained by water quenching and subsequent tempering. Dillidur Impact is successfully applied where high resistance to abrasion is required together with very high toughness to resist impact wear.

A tough steel, even at low temperatures, DILLIDUR IMPACT is proven to be highly resistant to high impact and wear, even in the severest of working conditions. This new grade of wear resistant steel is also more flexible with regards to pre-heating and post-heating processes and is easier to weld compared with standard 400 & 450 HB water quenched grades, especially where deep thicknesses are concerned.

In addition, by speeding up the repair and replacement process without the risk of cracking and due to the increased wear life of components, DILLIDUR IMPACT also offers exceptional cost saving benefits over other abrasion resistant steels.

Cutting edges of shovels, grabs and scoops are subjected to extreme abrasion wear and impact, which 'normal' steels can't withstand in the long term but DILLIDUR IMPACT is outstanding for such repair work.

↳ **Key Technical Data, DILLIDUR IMPACT**

A wear resistant steel that combines extreme resistance to abrasion with a high level of toughness, available in plate sizes from 40 to 120 mm.

Applications	Crane booms, mining and earthmoving equipment, bridges, material handling, trailers and agricultural equipment.											
Hardness	340 HB											
Composition	C	Si	Mn	S	Cr	P	Mo	Nb	B	V	Ni+Cu	
	0.20	0.60	1.80	0.010	1.50	0.020	0.70	0.04	0.005	0.09	3.00	
Thickness	40-120mm											

contact Abraservice UK for full technical data sheet.

↳ **Benefits, DILLIDUR IMPACT**

- Exceptionally high resistance to cracking effect
- Very high toughness to resist impact wear, even at low temperatures
- More flexible with regards to pre-heating and post-heating
- Easier to weld compared with standard 400 & 450 HBW
- Withstands some of the severest temperatures and working environments

↳ **Processing Facilities**

- CAD/CAM Profiling
- Perforating
- Plasma Profiling
- Forming
- Laser Profiling
- Drilling and Countersinking
- Oxy-gas Profiling
- Beveling
- DXF Compatible
- Welded Fabrications

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