



**DEGUY-CONGE**

Implantée depuis plus d'un siècle en Haute-Marne, au cœur de l'un des plus importants bassins de coutellerie, la société Deguy-Conge fabrique des couteaux et lames destinés principalement à l'agriculture et à l'agroalimentaire.

## Forage harvester knives and shear bars

With your input, Deguy-Conge develops and produces knives and shear bars for self-propelled and towed forage harvesters. These knives are made of steel specially designed to meet the requirements for the most severe conditions of use. Our fully integrated production enables us to monitor the entire fabrication and to maintain the highest level of quality. We have the most modern production tools and thereby control all the operations required for manufacturing your knives. Our know-how is based on the control of each step of production such as heat treatment, forging, grinding and thermal spraying.

**We offer you the advantage of our long experience in materials, tooth definition and heat treatments:**

- Carbon steel, alloy steel,
- Machined aggressive teeth
- Single or multiple heat treatment
- Anti-wear coating (tungsten carbide)
- Parts reinforced by the addition of very hard materials.



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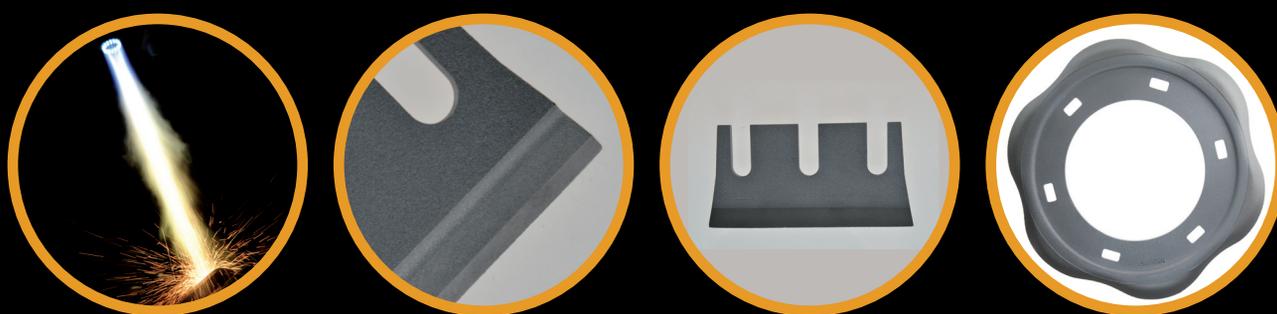


## Materials

For the manufacture of knives and shear bars for self-propelled and towed forage harvesters we use steel specially designed to meet the strictest requirements in terms of wear-resistance and cutting ability. According to your needs, we use carbon steel or alloy steel. The main elements of alloy are chrome, vanadium, manganese and boron. Thanks to these elements, in comparison to standard steel, we obtain superior hardness, better cutting durability and considerably improved wear-resistance.

## Heat Treatment

Our blades receive quenching and tempering heat treatments. This makes it possible to increase their hardness and therefore their lifespan. In addition, we perform double-heat treatments. This process provides the entire part with high impact strength and further reinforces the hardness of the cutting edge. The bevels are coated with additions of tungsten carbide, which ensures the durability of knives for the most extreme conditions. Very hard metal placed on the ridges of shear bars with combined surfacing ensures proper work and perfect wear-resistance. Heat treatments are characterised by hardness measurements, carried out internally. (And/ or by metallographic analysis)



## Company standard

More than 15 years ago Deguy-Conge initiated a quality approach to increase customer satisfaction. We are currently ISO 9001 certified by AFNOR (major certification body in France). In addition, we are regularly audited by our customers.



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