

Orvar 2M makes the difference

In Sweden, the use of pellets as an energy source is a growing area. Pellets are not as expensive as oil, and more environmentally-friendly. The raw material is chips and waste from sawmills.

The matrix (die) in a pelletizer is conventionally made out of a case-hardened tool steel and can last between 100-1000 hours. The variation in lifetime depends on unpredictable material problems such as chipping, wear and deformation. This material problem caused poor production at the plant of a prospective customer, who had the goal of achieving 2000 hours production out of a matrix.

The Uddeholm Swedish sales company solved the problem with a matrix made out of **Orvar 2M**. The lifetime is now 4000 hours, i.e. twice the expected lifetime. Another advantage realized with Orvar 2M is more efficient manufacture of the matrix: in contrast to the former material, Orvar 2M can be machined without accompanying vibrations. This means that turning after heat treatment can be done in order to achieve a completely round die.

Uddeholm delivers turned, round and hollowed material to the customer, who performs the rather complicated machining. The number of holes in a matrix can amount up to 2200.



Figure 2: Matrix for manufacturing of pellets



Figure 1: Machine



Figure 3: Cross-section

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