

New dimensions for precision work in steel

Annealing furnace in bungalow format is certainly releasing the tension

As one of leading specialists for large heavy flame-cut parts and complex, ready-for-installation welded assemblies, Jebens GmbH has again extended its range of systems. The company, based in Korntal-Münchingen near Stuttgart, will soon offer seven-stage manufacturing expertise for unit weights of up to 160 tons. This also includes the option of annealing on contract basis, in order to optimize the material properties of such weighty welded constructions. With an annealing furnace having dimensions 15 x 5.8 x 3.8 meters, Jebens GmbH is setting standards far beyond South Germany.

A precise thermal pre- or post-treatment is indispensable to provide the forged, welded or cast components the required mechanical properties. During normalizing, coarse, irregular microstructures of hot formed components are refined and homogenized. The thus improved ductility, stability and temperature resistance of the material increases the durability of components and also the lifetime and productivity. Tensions, which arise when forming the components such as press frames, make components exposed to extreme loads susceptible to breaking and cracking. Stress relief annealing unfailingly minimizes this workpiece clamping. With increasing size of the elements to be machined, a corresponding infrastructure is also required besides the special-know-how.

As a subsidiary of Dillinger Hütte, a leading manufacturer of heavy plates in Europe, making big things happen is routine in Jebens GmbH. The company manufactures customized components from heavy plates and slabs, which are up to 4,000-millimeter-wide and 15,000 millimeters long, in enormous machining formats. Subsequently, the workpieces remain in the modern, large-size annealing furnaces up to two days for normalizing. With customizable and

accurately controlled temperatures of up to 700 °C, it can be ensured that the components are normalized reliably or stress-relieved. In the head office of Jebens GmbH in Korntal-Münchingen, components with unit weights of up to 50 tons are a part of everyday life for many years. So far, large components exceeding these dimensions had to be transported sometimes through half of Germany for annealing. The still young, second location of the company in Nördlingen is also equipped for such challenges now. In one of the largest annealing furnaces of Southern Germany – 15-meter-long, 5.8-meter-wide and 3.8-meter-high – large components with maximum unit weights of up to 160 tons are prepared optimally for their further use. Be it for tension releasing of workpieces or for preheating of machine parts before welding jobs: Customers of heavy machines and plant manufacturing benefit more than ever from the integral expertise of experienced specialists. For flame-cut parts and welded assemblies in XXL format, Jebens is the very place for all the processes right from flame-cutting, chamfering, boring, milling to annealing on contract basis and radiating.

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