

DILER RELIES ON DANIELI HEAT-TREATMENT TECHNOLOGY

Danieli Olivotto Ferré to supply new bell-type plant for quality and flexibility in annealing wire rod coils

Diler Iron and Steel Industry and Trade Inc., a part of Diler Holding, has ordered a new bell-type annealing plant from Danieli Olivotto Ferré, for heat treating wire rod coils in a protective atmosphere. This new plant, which will be installed in at Dilovası, Kocaeli (Turkey), is designed mainly for spheroidizing annealing of wire rod coils with outside diameters ranging from 1,250 to 1,400 mm, wire diameters from 4.5 to 27 mm, and will accommodate charges stacked up to 1,900 mm high (for reference, charge weights will range from 1,650 to 2,350 kg). The plant will process coils under a protective nitrogen protective atmosphere and will consist of three bases designed for a maximum workload capacity of 40 tons, plus two bell furnaces and a cooling hood. The useful workspace volume for both diameter and height is 4,000 mm: large dimensions allow each base to load stacks of up to seven coils, ensuring the highest production flexibility and charge configuration. Performances are will be guaranteed by a high-convection system: each base is will be provided with a powerful centrifugal fan capable of recirculating up to 190,000 m³/h of annealing atmosphere. These characteristics, together with a perfect sealing system for each base, will allow the plant to heat treat 25,000 tpy while respecting the highest technological standards required by the market. In particular, the annealed coils will exhibit no additional visible decarburization (NO-AVD, as per EN-ISO3387) and spheroidization rate $\geq 95\%$ (as per SEP1520, PA3.2). Established in 1984, Diler Iron and Steel Industry and Trade Inc., is a leading Turkish company specializing in wire rod coils for automotive applications.

