

UNISIGN EXPERIENCE

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Logistics

Case study



Application

Machining of truck front axle beams

Material

Forged steel components

Customer

Parsan, Turkey

Machine type

UNITWIN

Benefits

- Simultaneous machining of left and right sides.
- Reduced cycle times through twin-spindle technology.
- Improved dimensional accuracy.
- Fast commissioning and user-friendly operation.

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Front axle production streamlined with a customized UNITWIN solution

About our customer

Founded in 1968, Parsan is one of Turkey's leading forging and engineering companies. The company operates two production facilities: one in Pendik, Istanbul, with a total area of 120.000 m², and another in Dilovasi, Kocaeli, covering 300.000 m². Together, these sites provide extensive forging, machining, heat treatment and assembly capabilities.



Parsan produces forged components ranging from 1 kg to 400 kg and serves major light, medium and heavy vehicle manufacturers throughout Europe.

Its product portfolio includes axle shafts, front axle beams and assemblies, crankshafts, camshafts, steering knuckles, gear

forgings and a wide range of other drive-train and engine components.

A need for greater production flexibility

"With our previous production method, we were unable to manufacture all front axles on a single machine; we needed several CNC machines to do so," say Mr. Göktürk Neşet Ayas, Investment Manager, and his colleague Mr. Burak Şamdan, Machining Manager at Parsan. "Thanks to the UNITWIN machine, we can now machine the front axle beams entirely on a single machine in a single setup."

Why Unisign

Mr. Ayas and Mr. Şamdan: "We were already familiar with Unisign's reputation in the market and considered the company's expertise in developing product-specific machine concepts a major advantage for Parsan." >>

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machine tools



The quotation process also played an important role in the final decision. Unisign provided a detailed and transparent proposal structure, allowing a thorough technical and commercial evaluation. In addition, several optional solutions were offered to further improve cycle times and ensure sustainable dimensional accuracy over the long term.”

“These factors, combined with Unisign’s willingness to adapt the machine concept to Parsan’s specific requirements, made the decision straightforward for us”, say Mr. Ayas and Mr. Şamdan.

Customized UNITWIN solution

For its Istanbul production facility, Parsan selected a UNITWIN machining center specifically designed around the requirements of its front axle products.

The machine’s twin-spindle configuration enables simultaneous machining of both the left and right sides of the axle component. This significantly reduces cycle times while also contributing to improved measurement consistency and dimensional accuracy.

Parsan particularly appreciated the flexibility of the Unisign engineering team, which successfully adapted the machine concept to the needs of the end users and production environment.

Fast implementation and reliable performance

Mr. Ayas and Mr. Şamdan go on to explain: “The UNITWIN was commissioned quickly and integrated smoothly into production. Since installation, the machine has proven easy to operate and continues to perform reliably in daily production. The CNC machine has delivered the expected results and successfully achieved the original objective of increasing production capability within a single machine platform.”

