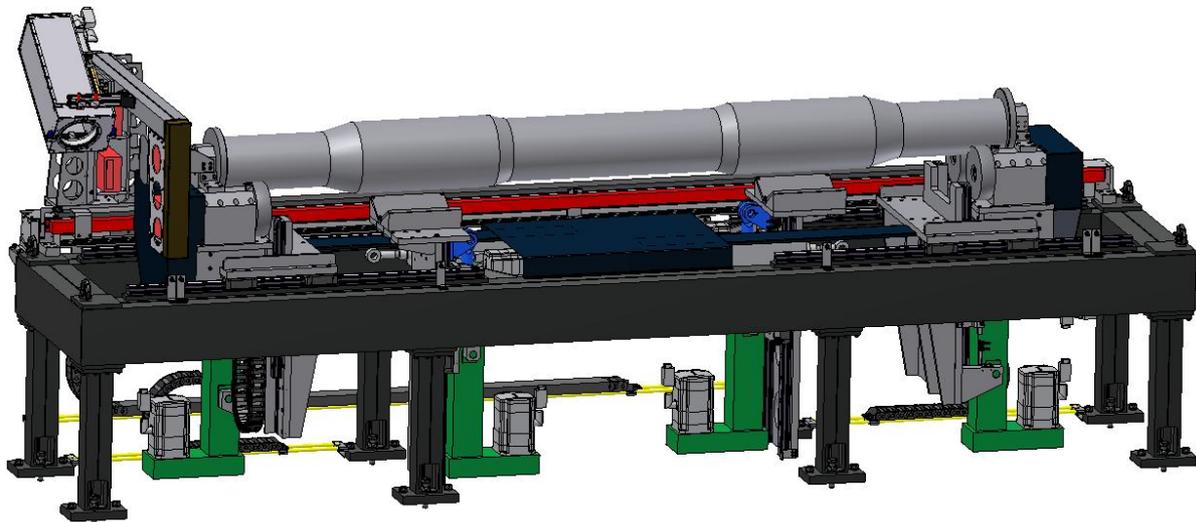


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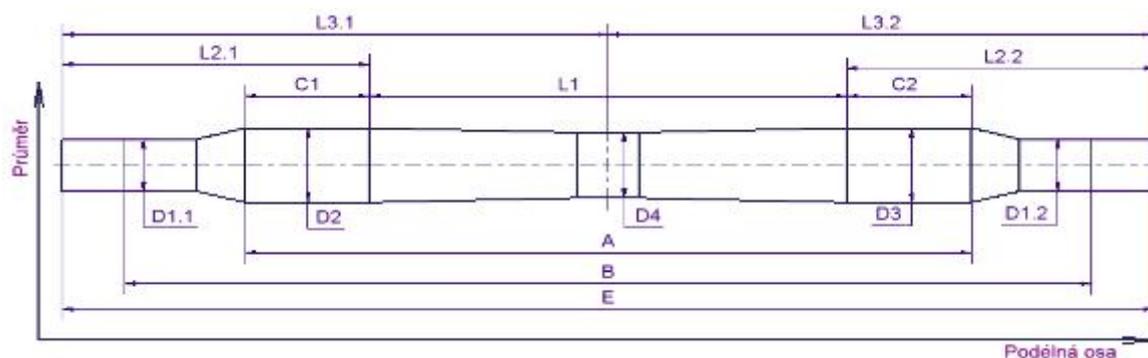
visual, dimensional and geometric checking device measurement of forged pieces of rail axes

This device is used to carry out visual, dimensional and geometric checks on forged pieces of rail axes. The measuring principle is based on assessing the profile of the forging; this profile is acquired from laser micrometer data (diameter) and a linear ruler (linear measure) as the measuring arm passes along the forged piece. The data from the laser and linear ruler is synchronised, giving the dependence of the diameter on the longitudinal axis of the forging.



Scope of axle forgings measured

diameter: D1 120 mm to 215 mm
D2, D3 120 mm to 280 mm
length: 2100 mm to 3000 mm
weight: max 1000 kg



The device is divided up into several functional units:

- Apparatus frame
- Measuring arm
- Left and right support
- Rollers
- Fixed prism
- Box with camera for reading data-matrix code (DMC code)
- Apparatus cover comprising outer enclosure and front control panel



 A screenshot of the Amest software interface. The interface shows a table with columns for 'Таблица 1', 'Код', 'Таб. №', 'Длина К', and 'Длина'. The table contains data for various components, including M12, M13, M14, M15, M16, M17, M18, M19, and M20. The data is organized into rows and columns, with some rows highlighted in blue.