



ADDITIVE MANUFACTURING

You need it, we make it!

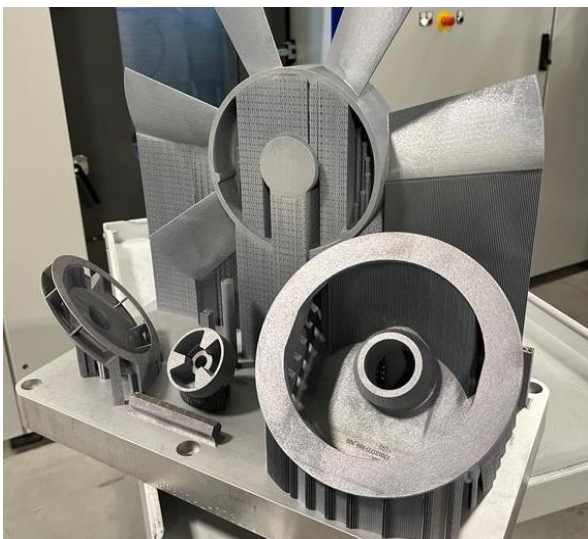


Metal & polymer part 3D printing for railway applications to support you with lead-time & obsolescence challenges.

After years of successful achievements in Freight, Wabtec, a leading supplier to the railway industry, introduces its **3D printing capabilities for Transit applications.**

With the latest **fleets of 3D printing machines** (including fire smoke capabilities) and more than 10000 parts already in service, Wabtec offers a full and comprehensive range of services specifically designed for railway - Wabtec and non-Wabtec parts.

By combining expertise on railway equipment manufacturing & 3D printing, Wabtec can offer you the best-in-class service during all the steps of the process, from **design** to **logistic & support** all around the world.

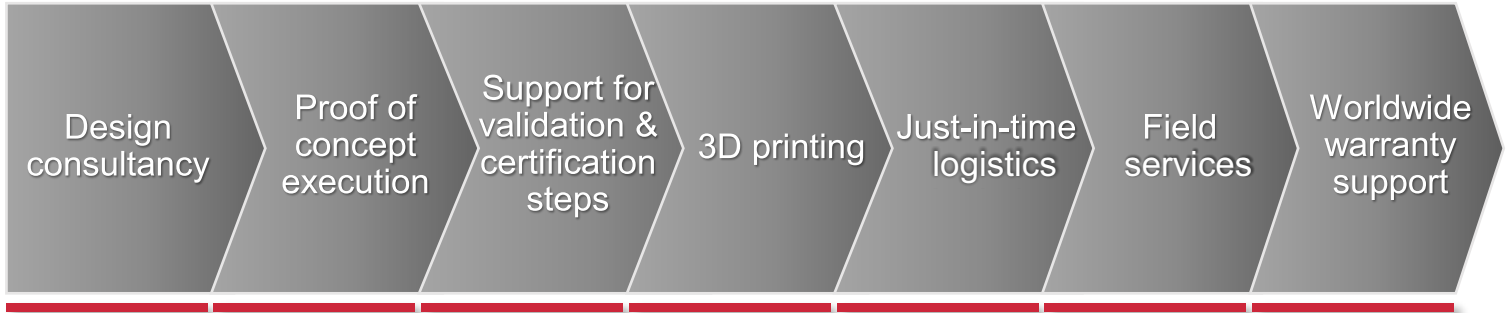


- **Overcomes parts / tooling obsolescence**
- **Full value-chain Wabtec offering**
- **Allows low volumes & minimizes inventory**
- **Reduces lead-time** (from months to days!)
- **Provides Wabtec warranty**
- **Worldwide industrial footprint & field services support**



A full services offer

Wabtec can support you at any steps of your needs and offer you a customized solution



- Optimize part/tool designs
- Provide support to define the best AM geometry
- Realize a part/tool according to railway norms in AM
- Full support from design phase to final certification according to railway norms
- Wabtec & non Wabtec parts
- More than 15 printers available
- Delivery of the part where you need it
- Support during 3D part installation in its environment or / & commission the integration of the part

Production capabilities

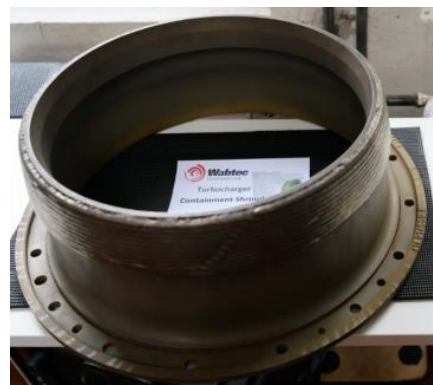
METALS	Maximum dimensions	POLYMERS	Maximum dimensions
SS316L	390 x 390 x 265mm <i>15,3 x 15,3 x 10,4 inch</i>	Nylon	380 x 284 x 380mm <i>14,9 x 11,2 x 14,9 inch</i>
IN718	245 x 245 x 360 mm <i>9,6 x 9,6 x 14,2 inch</i>	Flexible	1000x1000x1000mm <i>39,4 x 39,4 x 39,4 inch</i>
AlSi10Mg	500 x 280 x 850mm <i>19,7 x 11 x 33,5 inch</i>	Fire & Smoke	300x300x630mm <i>11,8 x 11,8 x 14,2 inch</i>
		High Strength	1000x1000x1000mm <i>39,4 x 39,4 x 39,4 inch</i>



Battery rack



Jigs



Turbo ring



Brake panel

