





Silvano Baraldi spheroidal cast iron foundry



Machining tapered B5 tyres



Machining ADI 800 wheel centres

CNC lathe
CMM dimensional check
ONLY STANDARD TOOLS

WERE USED!!!

(nothing really exciting...)





Andrea Bracciali Manufacturing a

The first Liberty Wheel with fitted wheel centres



Shrink-fitting tyres on Liberty Wheel centres...



The «dream team» ... ©



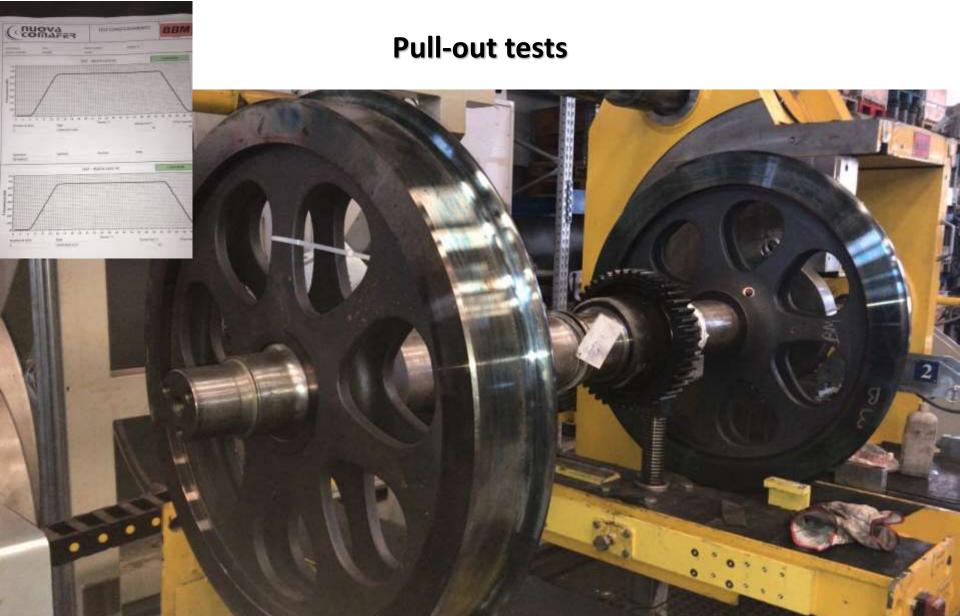
The job is done (with great satisfaction)







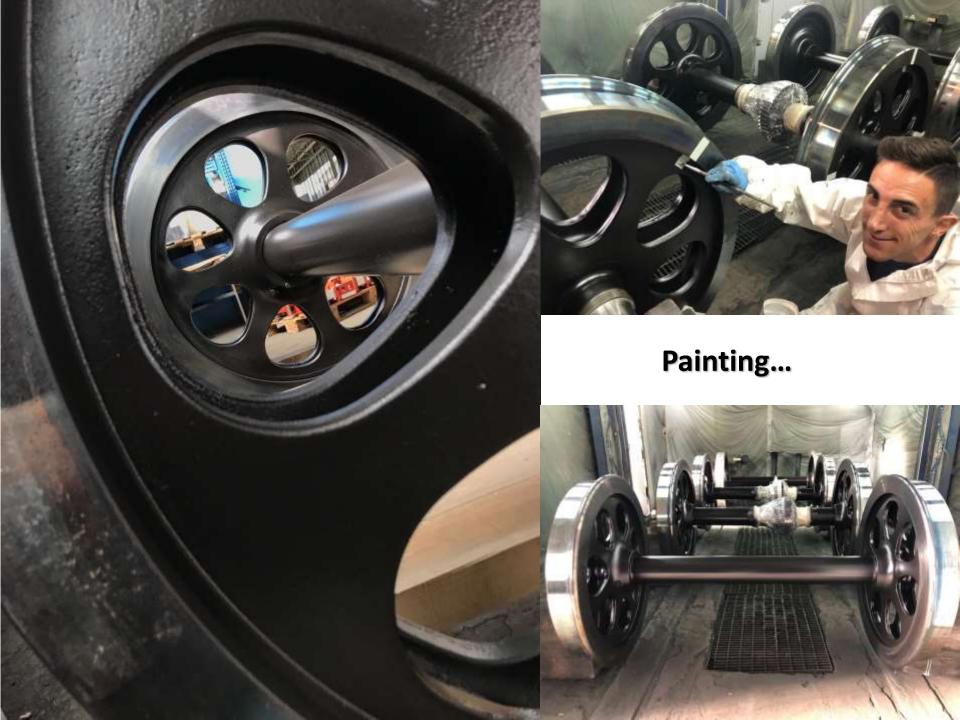




Incredibly, the wheelset is naturally balanced!!!















The maiden flight...



Preparing the measurement field...



A nice pass-by



Measuring the track decay rate





Measuring rail roughness



Measuring speed







Conclusions

- ➤ A new ADI wheel centre for conventional rail without tread braking was designed, manufactured and tested
- Everything went as expected
- Mass is lower, noise is lower
- Easy manufacturing, possibly more than one hundred suppliers in Europe
- ➤ Infinite life of axle and of wheel centre... see the other presentations!!!!