SPLIT HOPKINSON PRESSURE AND TENSILE BARS

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HARDIS PROJECT

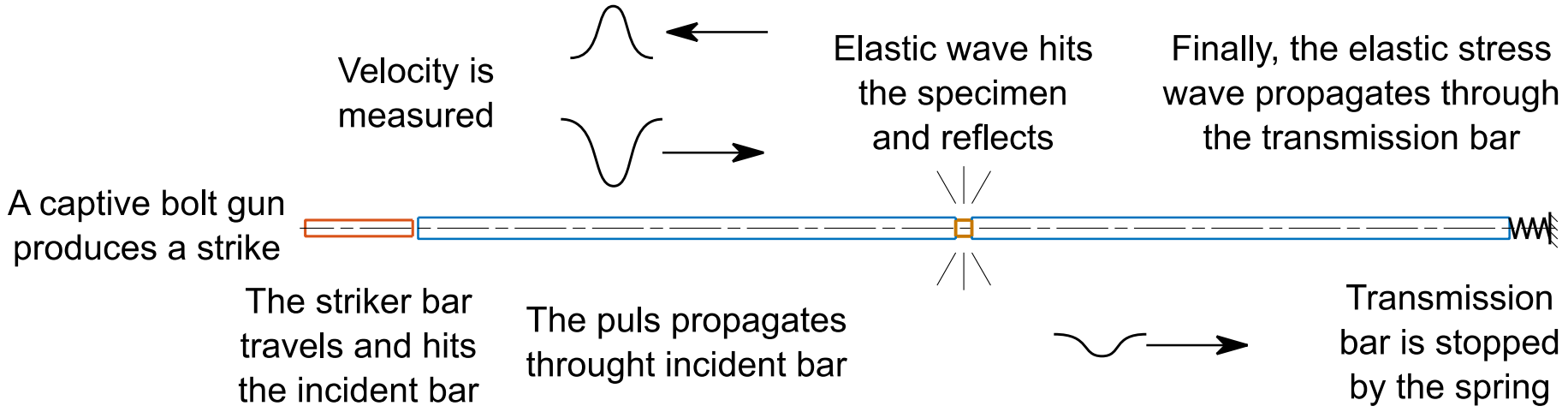
Interreg Austria-Czech Republic
European Regional Development Fund

EUROPEAN UNION

This work is an output of project HARDIS “Mechanical disintegration of hardwood” (ATCZ21) created with financial support by the European regional development fund from the Interreg Austria–Czech Republic programme.

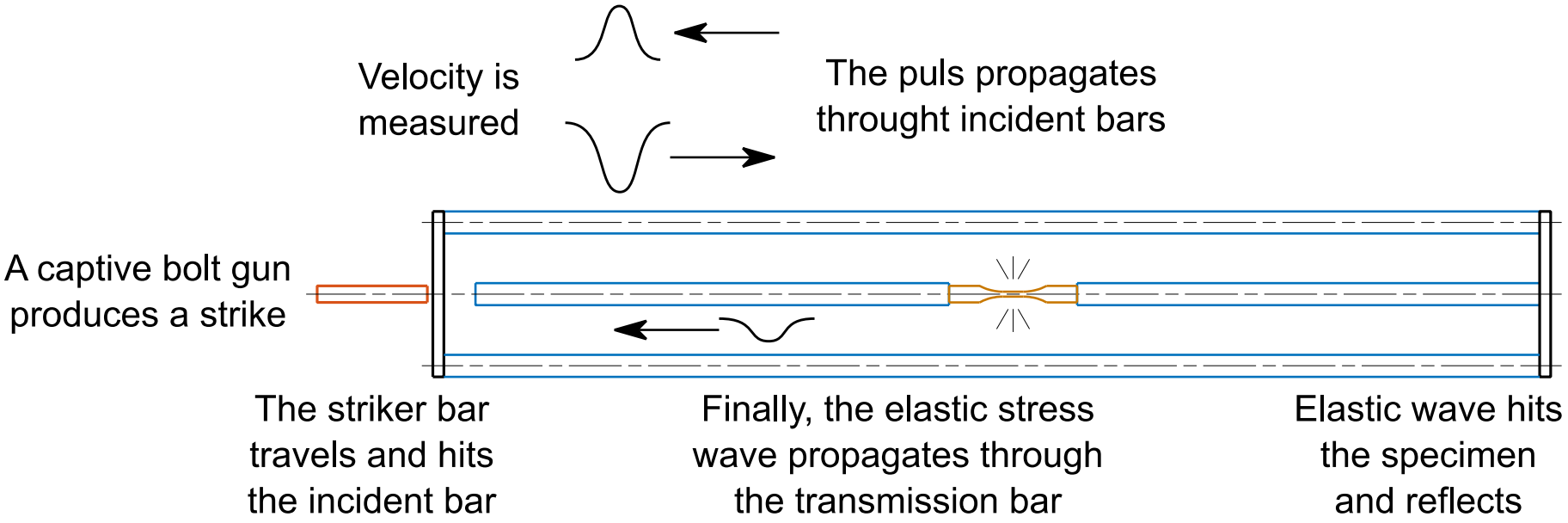
Split Hopkinson pressure bar

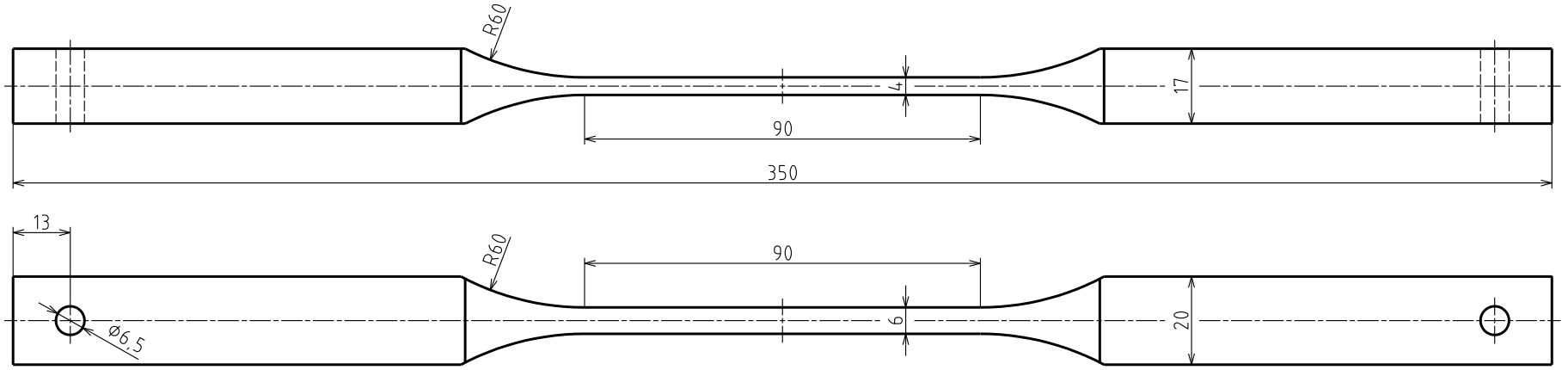
- Strain gauges are attached to the incident and transmission bars in order to capture the elastic stress wave propagation
- The specimen behavior may be traced by some optical method (laser sensor, high speed cameras – digital image correlation)
- F. Šebek, P. Kubík, M. Brabec, J. Tippner, Modelling of impact behaviour of European beech subjected to split Hopkinson pressure bar test, *Composite Structures*, Volume 245, 2020, 112330, ISSN 0263-8223.



Split Hopkinson tensile bar

- It works basically on the same basis as the pressure bar





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Thank you for your attention!

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