

## Integrated iMAIN maintenance support system

### Short description

It provides an extended modular CM system with improved decision support, including inferred sensors for frame components. It helps to predict critical parts and the remaining lifetime of press components and can visualize the data in the iMain cloud for specific users and uses. The demonstrator at industrial partner Gorenje will be the Reference System for documentation, demonstration and showcase purposes.

### Innovativeness introduced compared to already existing Products/Services

It is tailored specifically to forming presses, including all relevant components (especially the frame). In addition, monitoring and RUL estimation of frame components is executed with "inferred" (or "virtual") sensors. Moreover, a cloud framework for flexible integration of maintenance and RUL services and user-specific access to data and information, also from third parties, is defined.

