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## Press Release

Forged Technologies

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### Berco Bopis Life platform – updated mobile and web applications

- User-friendly software, with intuitive dashboard
- Detailed reports on the state of wear of individual components
- Spares optimisation, and significant reduction in TCO for dealers

Berco, a global leader in the production and supply of undercarriage components for the world's main manufacturers of tracked earthmoving machinery, is launching new versions of its Bopis Life mobile and web applications.

Bopis Life is a cloud-based platform allowing customers to monitor the rate of wear of each undercarriage component, and thus to know the parts remaining service life. As well as providing extremely important information for end users, the data collected in the field and archived by Bopis Life allows Berco to improve its own technology constantly, in terms of product development and production processes.

**Luca Bellintani, Berco's Field Engineer** explains: "The undercarriage is a source of high maintenance costs for owners of tracked machines. Berco is therefore continuing to develop more user-friendly, all-round digital solutions to monitor the wear of components. Bopis Life allows the customer to monitor the wear of components, and to optimise planning of warehouse provision and operational efficiency, leading to a significant reduction in TCO (Total Cost of Ownership)".

The updated version of the Bopis Life application, which can be installed on any PC, tablet or smartphone, allows dealers or Field Engineering technicians to upload the properties of the machine inspected, along with the location data. With a clear context for analysis, technicians can begin the inspection, and record on the Bopis Life app all the data gathered from measurements of the undercarriage parts. Assessments can be taken with manual tool kits, or with ultrasound devices connected via Bluetooth to the tablet or smartphone. Ultrasound devices give more accurate values and cut the time needed for measurement and data processing.

The data gathered using the Bopis Life mobile app is uploaded to the cloud and compared with the wear limits shown in the Berco (Bopis) online product catalogue. This gives the rate of wear and the remaining service life of the component concerned. The undercarriage parts measured are the chains and their sub-components (links, bushing and shoes), carrier rollers, track rollers, idlers and sprockets.



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On the Bopis Life web portal, the accredited user will find a clear dashboard showing the geographical details of the location of the machines and the list of individual inspections, with the details of who carried them out. A second display shows the condition of each component and any sub-components, identified with photos; position on left and right side of the machine; code; operating hours; rate of wear and remaining lifespan, calculated at 100% and 120%. The latter limit is identified by Berco as that beyond which structural collapse may occur.

In the updated web version of Bopis Life, easy-to-read graphs are given showing hours of use for each component, and remaining service life expected for each sub-component (chains) and most worn part, with warnings appearing when the wear rate exceeds 100% and 120%. Further graphs are present, showing the wear rate of each component, measured on the right and left sides, so that any deformities are noted immediately. All the information is then available to the customer, together with suggestions for minimising the need for emergency intervention.

The Bopis Life platform is used throughout the world and can be widely accessed.

Berco also uses data relating to the numerous inspections carried out up to the present. Collected through Bopis Life for benchmarking, they confirm the performance levels of its products as similar to and in some cases even better than those of the leading manufacturers. The Platinum Line for the Aftermarket, developed to operate in extreme conditions, of high impact and high abrasiveness, belong to the latter category: having exceptional results, with performances 25% to 60% better than on original installation.

#### About Berco:

Berco is a global leading manufacturer and supplier of undercarriages for heavy machinery. With over 100 years of experience, the Italian company creates tailor-made undercarriage solutions for all types of machinery that range in weight from 1 to 330 tons. A market leader in components for Compact Track Loaders (CTL) and a main player in the mining sector, the industries the company supplies include construction, forestry and agriculture. One in every five chain-driven construction vehicles relies on Berco systems. The company's commitment to innovation is demonstrated by its continual investment in R&D as well as by its supplying of best-performing, long-life solutions to leading OE manufacturers.

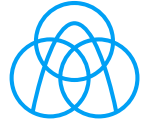
For the Aftermarket, the company provides drive sprockets, idlers, rollers, track chains, track shoes and undercarriage systems. Its ranges are available in three product lines: Platinum, Original and Service. Berco's main factory is located in Copparo, Italy and the company has four other facilities in Italy, Brazil and the US, with an overall workforce of around 1,800 employees. Berco has been part of the thyssenkrupp group since 1999, and in 2018 joined the Forged Technologies business unit – the world's largest forging company.

#### About thyssenkrupp Forged Technologies

thyssenkrupp Forged Technologies is a diversified supplier of components and system solutions for a wide range of different industries and markets. The forging group has a unique global footprint by operating more than 50 forging presses in 15 locations worldwide, including in Germany, Italy, Bulgaria, the USA, Mexico, Brazil, India and China. With sales of over 1 billion euro, the company specializes in the production of components and systems for the automotive, truck and construction machinery industries.



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