



TECHNICAL ARTICLE

High-load Ball Screws Enable Safe And Efficient Motion For Cobots

Collaboration robots (cobots) provide the strength, consistency and reliability of industrial robots with the judgement and flexibility of human operators. Cobots are increasingly used in large-scale production applications that involve continuous lifting operations but still require a human touch. While cobots have been in use for at least a decade and continue to grow, applications have been limited by the gearing systems that control motion. A French cobot maker, however, has developed a [solution](#) that uses ball screw and cable actuators instead of gears, setting a new benchmark for cobot efficiency and safety.



"Load capacity is a key differentiator for cobots. Ball screws enable handling of higher loads than gears, and the Thomson ball screws had the highest load capacity of those we evaluated. We also liked the fact that they get there with two leads," M. Measson said.

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