

Thanks to Grob you can now cross the Tauber without getting your feet wet



Those who live by a river are well acquainted with the situation that repeats itself every year – usually in spring. When the snow melts, the water level rises by the minute. Footbridges that normally make it possible to cross over the Tauber within 5 minutes are suddenly submerged in the torrent of water.

What now, when you want to get from one side of the Tauber to the other and the bridge is under water?

Where it used to take 5 minutes to get over the river, you now have to drive for an hour.

What is the alternative? Quite simple: the bridge is simply raised so that you can cross the Tauber again without getting your feet wet. That was the task. It sounds simple enough, but it needed a whole load of technical know-how in order to find an efficient solution.

It was achieved with 4 model BJ3 linear actuators that work in parallel. Each of these linear actuators can accept a maximum load of 250 kN. Thanks to this arrangement the footbridge raises itself as if by magic as soon as the Tauber reaches a critical water level.

The environmental conditions are entirely unusual. Therefore special precautions had to be taken in order to achieve a long service life. The spindles are protected by a bellows, in addition to which the spindles are made of stainless steel. The gearbox casings are coated with a special 3-layer protective coating.

Drive used: BJ3 with a maximum load of 250 kN and a stroke of 5,600 mm, plus a TR 80x10 spindle.

Would you like to know more about further application cases? No problem, just send us an email describing your application to: info@grob-antriebstechnik.de or phone [07261/92630](tel:0726192630)



Cubic linear actuators from the MJ/BJ series can accept static loads from 2.5 to 500 kN. Typical applications are: paper machines, warehouse and transport technology, shipbuilding, luggage conveying systems, oil rigs, beverage filling plants, etc.