

**√ARIACTO®**  
AKTIVIERT DEN ERFINDERGEIST

iwis antriebssysteme

**iwis**  
wir bewegen die welt



[www.variacto.com](http://www.variacto.com)



**Need more lift?  
No problem!**

Adjustments to the chain  
station according to  
customer requirements  
are possible!

ACTIVATES  
CREATIVITY

## Pioneering in Drive Technology

With **VARIACTO®**, entirely new solution approaches arise. With this unique push-pull chain drive, you achieve more goals than before – pushing farther and higher. Change the drive type with **VARIACTO®** and optimize the use of space in your system layout. **VARIACTO®** opens up numerous new possibilities, whether in vertical or horizontal thrust. Thanks to its flexible use, **VARIACTO®** outperforms conventional linear drives.



### Minimal Space Requirement

With **VARIACTO®**, you only need minimal space. The low housing height and the re-direction of the chain by 90° in the drive unit or 180° in the chain station enable uniquely flat designs and open up new possibilities in construction. With the minimal height of the drive, you can still move heavy loads over long distances. Unlike traditional linear drives, the space of the drive is decoupled from the space requirement of the chain lifting element.



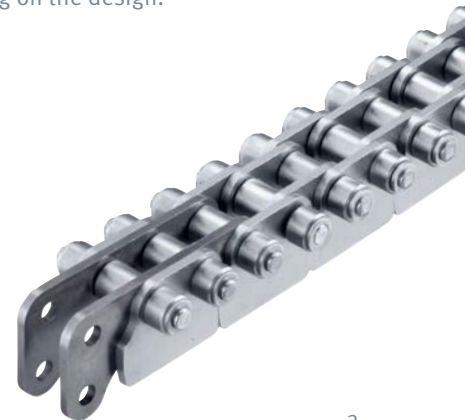
### Maximum Performance

iwis push-pull chains are based on well-tested roller chains and are thus optimized for maximum performance and efficiency. With a compact push-pull chain drive, users can move large loads with minimal effort. Thanks to the clever redirection of the chain, the combination of load-free feeding and a thrust phase with maximum load is achieved.



### (nearly) Unlimited Range

Limited drive technology is a thing of the past. Move heavy loads individually over long distances with the **VARIACTO®** push-pull chain drive. While conventional linear drives are strictly limited in their range, the **VARIACTO®** push-pull chain drive overcomes distances of up to 15 meters, depending on the design.





## Product Extensions

**VARIACTO**® can be integrated into existing applications and easily adapted. A wide selection of initial lubricants ensures successful operation even in challenging environments. The modular chain station can be easily expanded to accommodate the required chain length. Various options for connecting the chain to the application ensure compatibility with your machine.



## An Alternative to Conventional Drives

In comparison to conventional drives, **VARIACTO**® is a very clean and quiet solution. Since the drive does not include hydraulic or pneumatic lines, and hydraulic aggregates are not necessary, there is no risk of leakage. Noise from pumps and compressed air leakage is also eliminated.



## Sustainable Drive Solution

The **VARIACTO**® push-pull chain drive is a mechanical system with high efficiency and suitability for direct electric drive. Problematic materials are not used in the production of the system. The high wear resistance and maintenance-friendly design of **VARIACTO**® ensure sustainable operation throughout its entire lifespan.

## New Paths. Thinking Ahead.

Unable to reach your goal via a straight line? With **VARIACTO**®, we can bypass construction-related obstacles by redirecting the chain up to 180° as needed. Contact us regarding this type of custom solution.

## Application Areas

Stage Technology (Lift Platform, Stage Platforms)

Pallet Trucks

Lift Platforms (Scissor Lifts)

Automatic Tool Change Applications





# NEW GOALS: HIGHER AND FARTHER



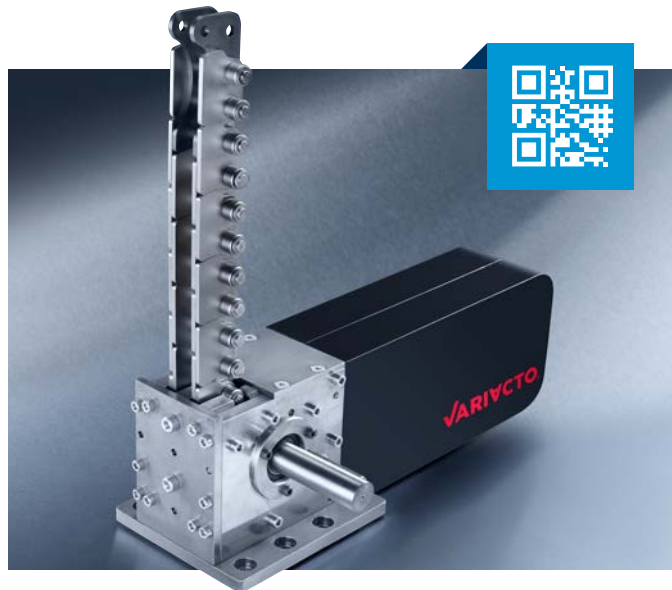
## About iwis

With our dedicated push-pull chain development and testing facility in Munich, Germany, iwis has continuously increased its expertise in the development of push-pull chain drives.

## Linear Drive Technology: Rethinking Familiar Paths

| Performance Data              | VARIACTO L                        |
|-------------------------------|-----------------------------------|
| Push-Pull Chain               | M1611RSCUS                        |
| Chain Pitch                   | 1" / 25.40 mm                     |
| Chain Tensile Strength (Pull) | 90,000 N                          |
| Chain Tensile Strength (Push) | 105,000 N (at 670 mm free length) |
| Max. Dynamic Load             | 10,000 N / Approx 1,000 kg        |
| Max. Stroke Unguided          | Standard 500 mm / Up to 700 mm    |
| Max. Stroke Guided            | 15 meters                         |
| Min. Height                   | 142 mm                            |
| Max. Speed                    | 100 mm/s                          |

| Performance Data           | VARIACTO L                                                        |
|----------------------------|-------------------------------------------------------------------|
| Number of Sprocket Teeth   | 8                                                                 |
| Dimensions (500 mm Stroke) | 450 x 150 x 148 mm                                                |
| Chain Weight               | 6.6 kg per meter<br>(4.7 kg for 500 mm stroke)                    |
| Drive and Station Weight   | 13.6 kg                                                           |
| Max. Speed                 | 28.8 rpm (at 100 mm/s stroke)                                     |
| Max. Torque                | 331.9 Nm (at 10 kN load)                                          |
| Compliance                 | RoHS, REACH                                                       |
| Declaration of Conformity  | according to the Machinery Directive,<br>EG2006/42/EG, Annex II B |

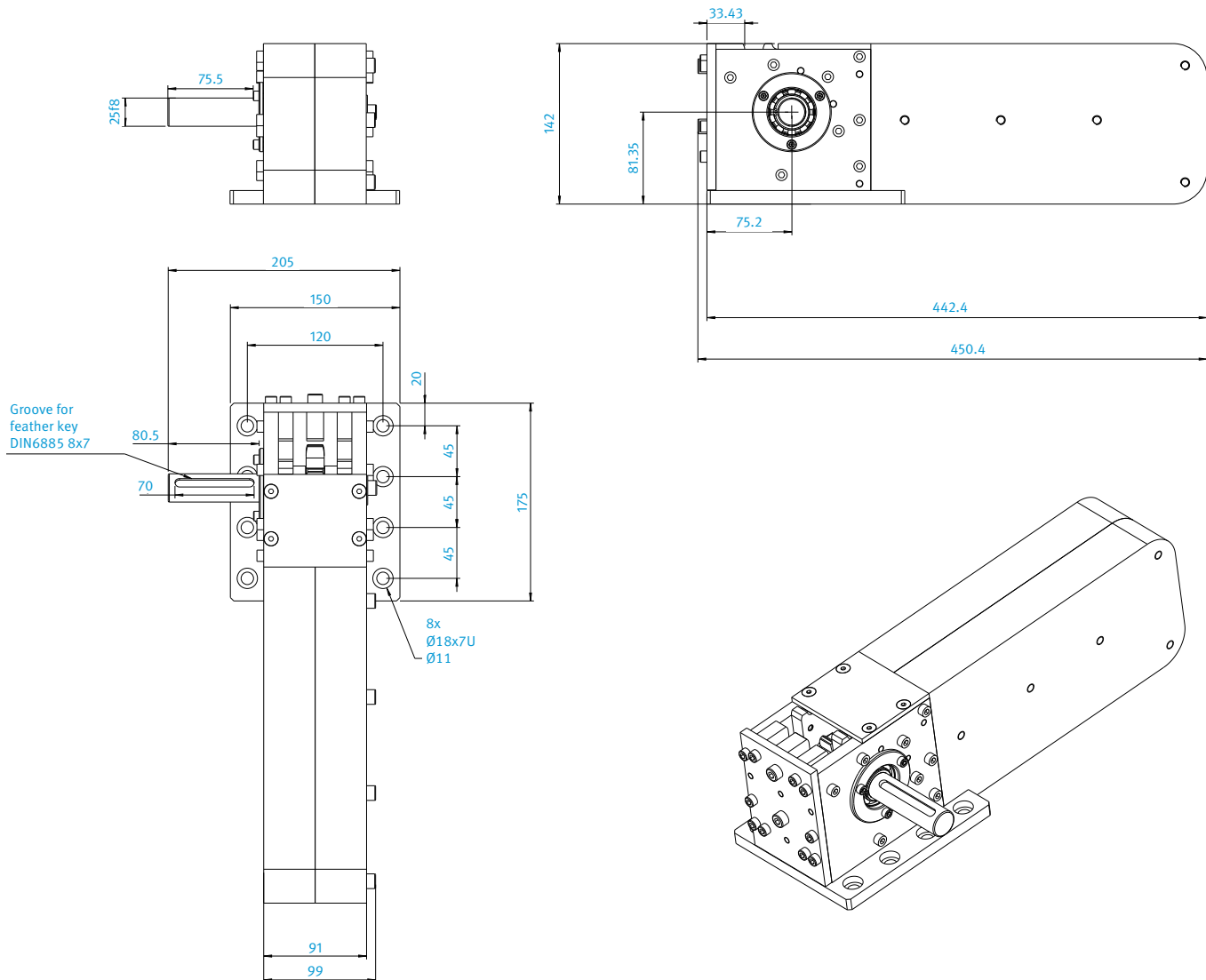


ENGINEERING TEAM

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## Dimensions



# iwis

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