

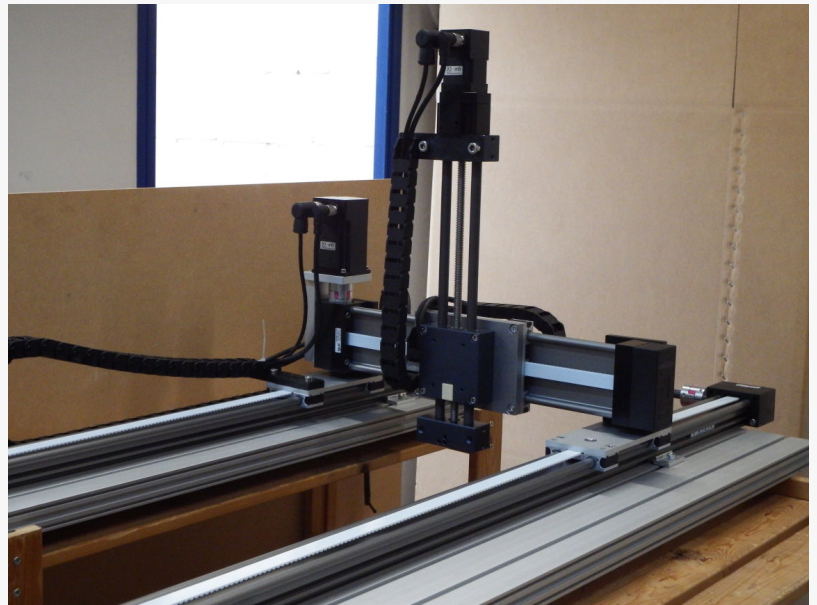
Igus® robots and the ST robot controller

Igus robots show improved performance and UI with the ST Robotics controller.

PRINCETON, NJ, USA, July 31, 2023 /EINPresswire.com/ -- Igus® Cartesian and Delta robots are great value. They can be easily assembled by anyone using clear instructions provided. They use 'Drylin' lubrication free linear axes. Married to the ST [robot controller](#) they perform better and are easier to program.

□ [R15 Linear Robot](#)

ST Robotics continues to offer large linear robots but for smaller systems (below 2m stroke) ST has adopted the Igus range adding the ST K11R robot controller.



A typical Igus based R15 linear robot

There are many advantages over the controller offered by Igus:

“

Igus robots are transformed with the ST controller with dramatic improvements in performance thanks to 24bit ADL inverse kinematics and the super fast DSP.”

CEO of ST Robotics, serial inventor David Sands

1. Simple English language software (RoboForth)
2. Automatic calibration
3. Much higher speeds thanks to dual processors with a Texas DSP (digital signal processor)
4. Zero resonance, quiet running and very low power consumption.
5. Control over parameters such as rate of change of acceleration to eliminate shake and overshoot
6. Resolution down to 0.01mm
7. Collision detection and recovery

ST simply substitutes the Igus for smaller linear robot applications, supplying the Igus robot along with the ST controller as part of the R15 Cartesian robot range. It is supplied fully wired with cable chains and cables, encoders and calibration sensors.

If it is preferred to build your own robot you can buy it from Igus and still buy the ST robot

controller with cables and firmware ready to go, tailored to the format and size of robot you are building. The advantage as stated above is speed and software and the advantage of the Igus is quite simply low cost as well as high reliability from the drylin axes.

The result is reliable German engineering with a British developed controller using American technology

The original ST Robotics R15 range is still available for very large sizes with speeds up to 2m/sec on dual recirculating cross roller bearings.

□ [R18 Delta Robot](#)

The first Igus robot to be married to an ST controller was the Igus Delta. ST markets this robot with the K11 controller as the R18.

Like all Delta robots the reach is limited but speeds are incredible as you can see from this video:

https://www.youtube.com/watch?v=73W82QNBg64&ab_channel=strobotics

The first section shows how easy it is to program. This is followed by the result running at 2 cycles per second, twice as fast as Igus' own claim. Not bad for a robot costing less than \$15000
Details of the R18 are here: <https://strobotics.com/delta-robot-arm.htm>

□ robot controller

The ST Robotics robot controller comes as a cased 19 inch rack certified to CE and FCC EMC standards. In addition to the advantages above it has many options such as opto-isolated I/O expansion, PLC compatibility and a wireless Bluetooth teach console.

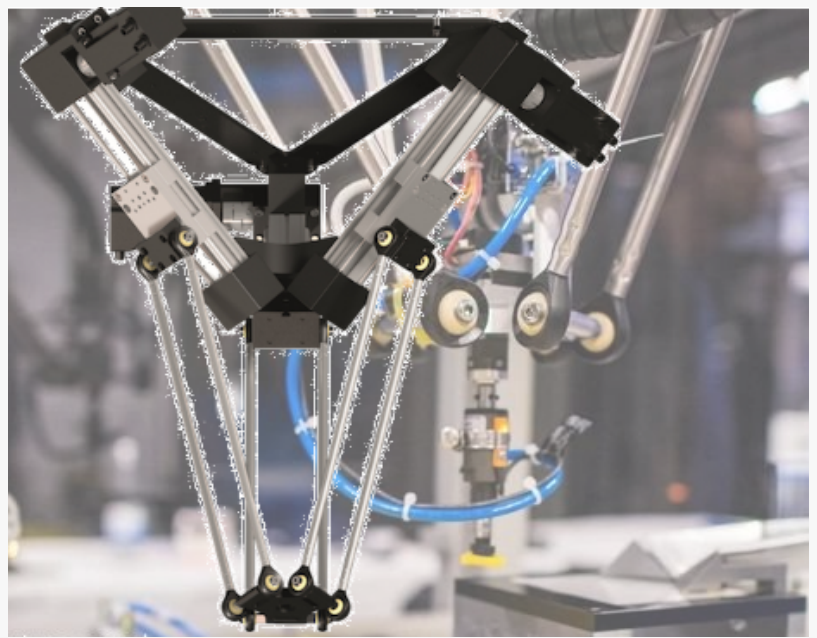
Details of the controller are here: <https://strobotics.com/k11r.htm>

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R18 Delta robot in 3 axis format



ST Robotics K11R controller

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