

Specific advantages of linear motor axes from Jenny Science

Compact dimensions and lightweight construction

This allows you to build your machines smaller, saving space, specifically at the INTAX® linear motor axis with integrated servo controller and achieving higher productivity within the same production area. For longer travel distances, the installation space required for Jenny Science linear motor axes is extremely small in relation to the travel distance. With the lightweight design, less idling mass is set in motion. This means shorter cycle times, less vibration, less noise and less energy consumption.



Modular construction kit for your standardization

Our flexible modular system is absolutely unique to the market. With universal drive components from Jenny Science, you can build your machines more compact, with less effort and in less time. This reduces the costs of development, commissioning and accessories are easy to incorporate into your design.



Web browser operating menu

Simply enter the IP address in your web browser and Web-Motion® is ready for operation. No application needs to be installed on your laptop or PC and no registration is required. Commissioning a servo axis has never been easier.



Forceteq® force measurement technology

Forceteq® basic, is current-based and completely integrated in the XENAX® servo controller. The force is measured via the automatically calibrated motor current without a force sensor. Forceteq® pro, works with Signateq® measuring amplifier and commercial available DMS force sensor. The force value is transferred directly to the XENAX® servo controller. An external evaluation electronics box is not required.

- Force-stroke diagram with monitoring
- Force limitation
- Power pre-control



PLC bus communication

Easy integration of the market-leading Ethernet bus protocols such as EtherCAT, Profinet, Ethernet/IP, Powerlink and CANopen. With the supplied libraries, your machine programmers can work in the familiar development environment of the PLC and do not need any special knowledge. Furthermore, a complete ASCII command set is also available to operate the axes via the standard TCIP/IP socket or via COM interface.

EtherCAT

EtherNet/IP

CANopen

PROFINET
IRT (isochrone Real Time)

Ethernet TCP/IP

ETHERNET POWERLINK

Automatic motor recognition

All Jenny Science linear and rotary axes are automatically recognized and parameterized by the XENAX® Servocontroller. Commissioning, testing and fine tuning are then performed using the intuitive, HTML 5-based WebMotion® operating menu and web browser. The programming for a possible «stand alone operation» is also carried out via web browser.



Functional safety: SIL 2, PL d, Cat. 3

To guarantee the functional safety of the direct drive axes, the XENAX® Xvi 75V8S servo controller can be equipped with the Safety Motion Unit (SMU). This makes the various TÜV-certified safety functions STO, SS1, SS2 and SLS available. Furthermore, the axes can also be supplied in a UL certified version.

