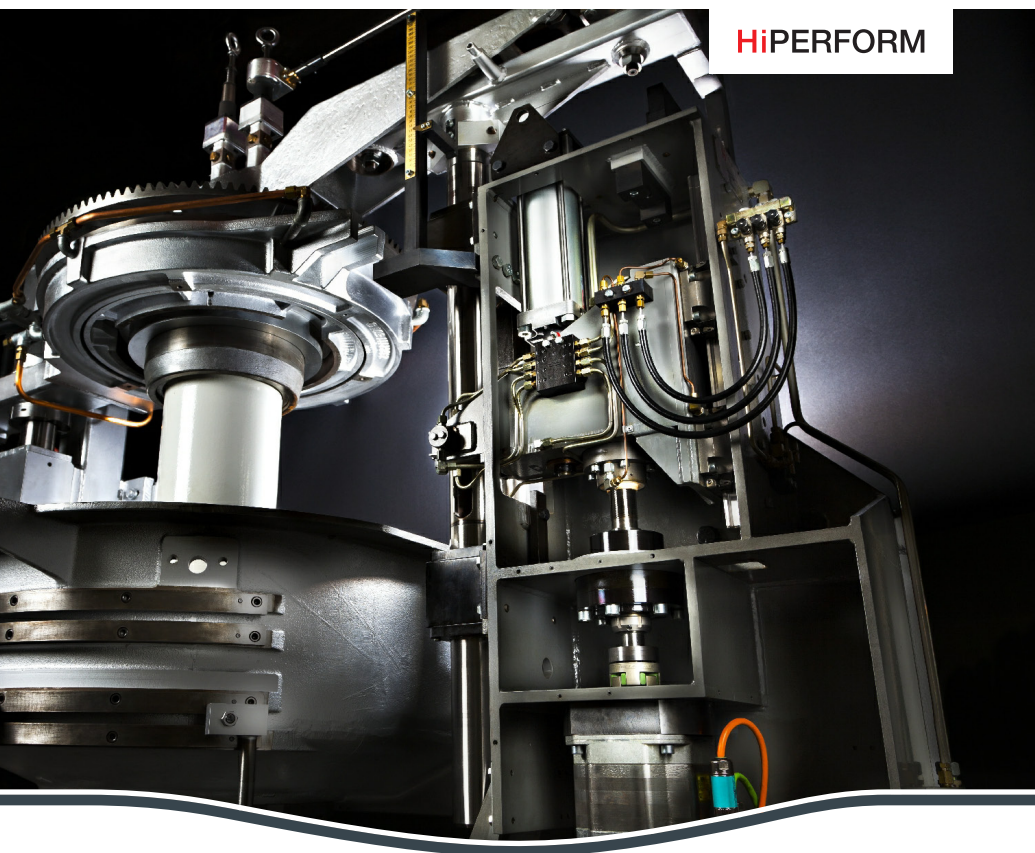


WE ARE GLASS PEOPLE

HEYE

SERVO PLUNGER

Type 2329



THE HEYE SERVO PLUNGER TYPE 2329

The Heye Servo Plunger is characterised in that a carriage is moved up- and downwards by a servo motor via a spindle. The upper and lower end position of the carriage is limited by rigid limit stops. The carriage transfers the stroke movement without any bending- and transverse force onto the plunger tube.

Function

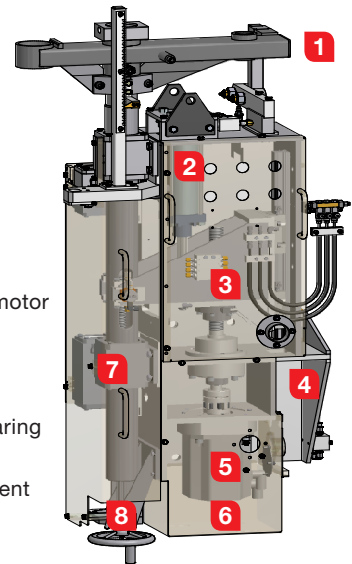
To compensate the gravity forces, a pneumatic cylinder takes effect to the carriage.

Stroke alterations through the whole stroke range of 170 mm do not require any changes at mechanisms.

The console is prepared to flange-mount the tube-mechanism.

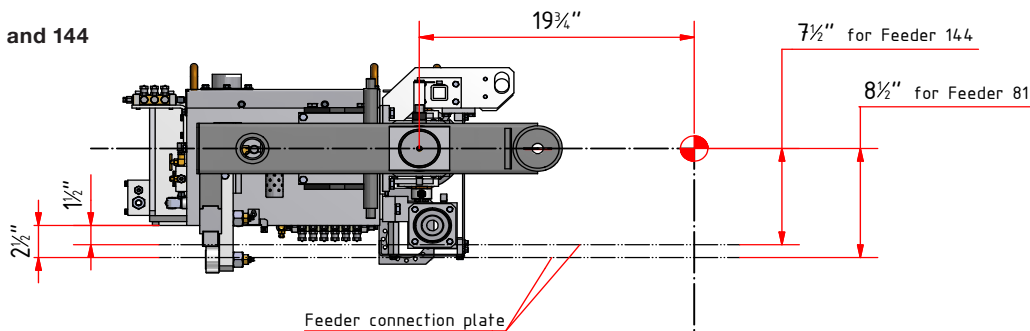
The plunger base adjustment is carried out by a crank-handle as usual.

- 1 Plunger carrier
- 2 Pneumatic cylinder
- 3 Carriage
- 4 Base frame
- 5 Drive unit with servo motor
- 6 Motor cover
- 7 Plunger- and tube bearing
- 8 Plunger base adjustment

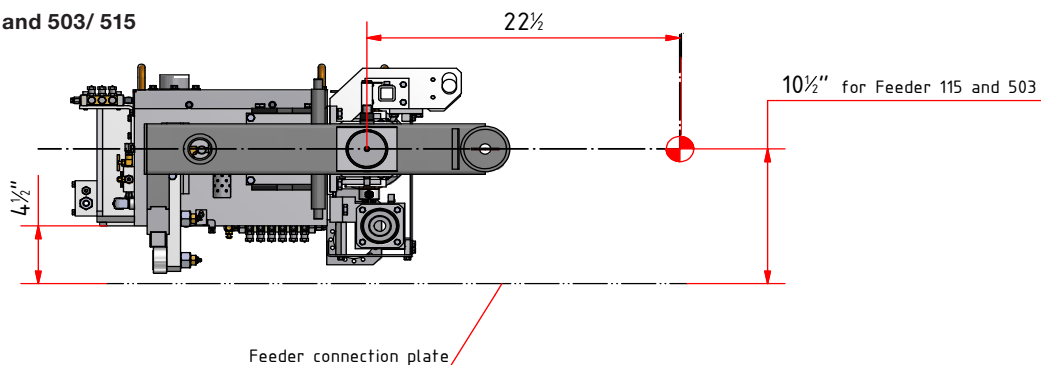


COMBINATION OF PLUNGER WITH DIFFERENT FEEDER SIZES

For feeders 81 and 144



For feeders 115 and 503/ 515



CONTROL UNIT

To control the servo motor the Heye Simotion® Servodrive is used. Also please see product description

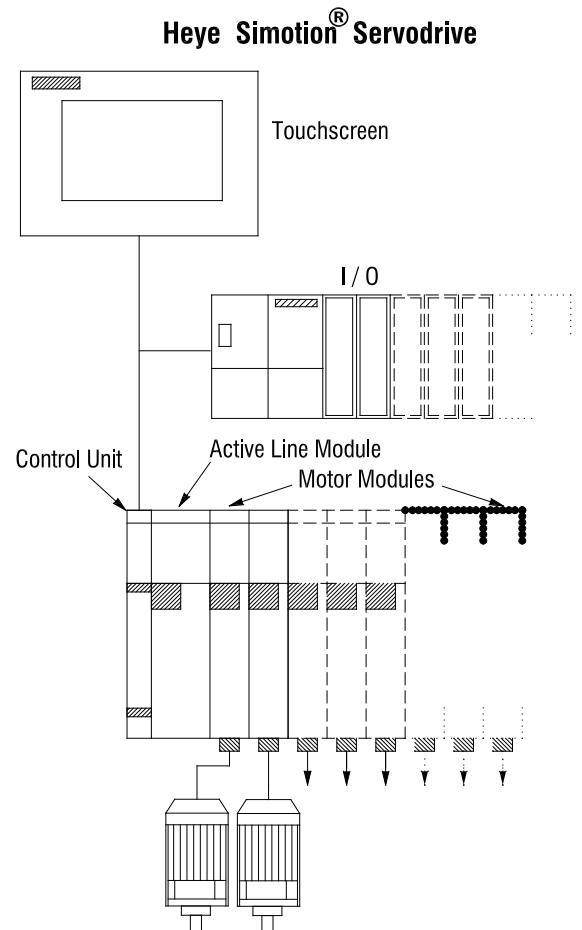
“Heye Simotion® Servodrive”

Heye Simotion® Servodrive

This highly-flexible control is based on the future-proof multi axis drive System Simotion® of Siemens. Excellent reliability of the electronic components in combination with the application of a compact servo motor with robust resolver guarantee a reliable non-stop operation. Even with respect to servicing this control is perfect as it is easy to handle. If control components should have to be exchanged complicated manual addressing or programming is not necessary because the configuration data are stored on a memory board. When the control is started the data are automatically transferred. Hence, the commissioning times and downtimes in case of servicing are short, the training effort for the service staff is less. Fault and operating messages that appeared are registered by the control unit with date and time and can be read in detail on the touchscreen anytime.

The synchronisation of the Plunger with the system pulse of the IS-Machine is automatically carried out by the controller. The most common motion profiles are programmed and can be selected graphically. The parameter settings and the adaption of the Plunger to the production conditions are carried out by means of an operating panel (touchscreen) located in the control cabinet.

In addition, all operating conditions of the plunger can be controlled by a control box located near the plunger. Alterations of process parameters are also possible during run.



OVERVIEW

Advantages

- Usable on all feeder sizes and -types
- Easy operation
- Parameter setting via dialogue (on site as well)
- Reproducible motions
- Nearly maintenance-free operation
- Production speed up to 250 cuts per minute
- Low energy consumption

Scope of Delivery

- Plunger mechanism
- Control cabinet with connection cables
- Control box (local operation)
- A compressed air section ready for connection.
(The supply pipe to the compressed air section and from the compressed air section to the Servo Plunger has to be made available by the customer)

Options

- Plunger mounting
- Plunger Horizontal Adjustment
- Plunger Vertical Adjustment
- Weight control by incorporating the Heye Process Control into one control loop
- Assortment production possible in connection with the Heye Dual Motor Shears Type 2323 and optional control software

Technical Data

- Max. production speed 250 cuts /min
- Dimensions
width/height/depth 800 / 1600 / 410 mm
- Weight
(according to type) approx. 450 kg
- Current consumption approx. 0.4 kW at 220 cuts/min

Emissions

- The A-weighted permanent sound pressure level of this system is below 70 dB(A)

Compatible control units*

Heye Simotion® Servodrive

Up to 10 servo axes can be operated
(depending on combination of drives and cabinet width)

- Dimensions
width/height/depth 800 / 2200 / 600 mm
1000 / 2200 / 600 mm
1200 / 2200 / 600 mm
- Weight 320 - 400 kg
- Power input with two active ventilators depending on the number of axes
- Mains supply three-phase 400 - 480 V ± 10%
PE, no neutral wire
- Mains frequency 50/60 Hz ± 6%
- Mains fuse 35 A slow-blow (to be made available by the customer)
- Ambient temperature for the control unit max. 35°C

Heye Simotion® Servodrive Compact

Up to 4 servo axes can be operated
(depending on combination of drives)

- Dimensions
width/height/depth 400 / 2200 / 600 mm
- Weight 170 kg
- Power input depending on the number of axes
- Mains supply three-phase 400 - 480 V ± 10%
PE, no neutral wire
- Mains frequency 50/60 Hz ± 6%
- Mains fuse 35 A slow-blow (to be made available by the user)
- Ambient temperature for the control unit max. 35°C

* For further information on the control unit and respective combination of drives please have a look at our separate brochure.