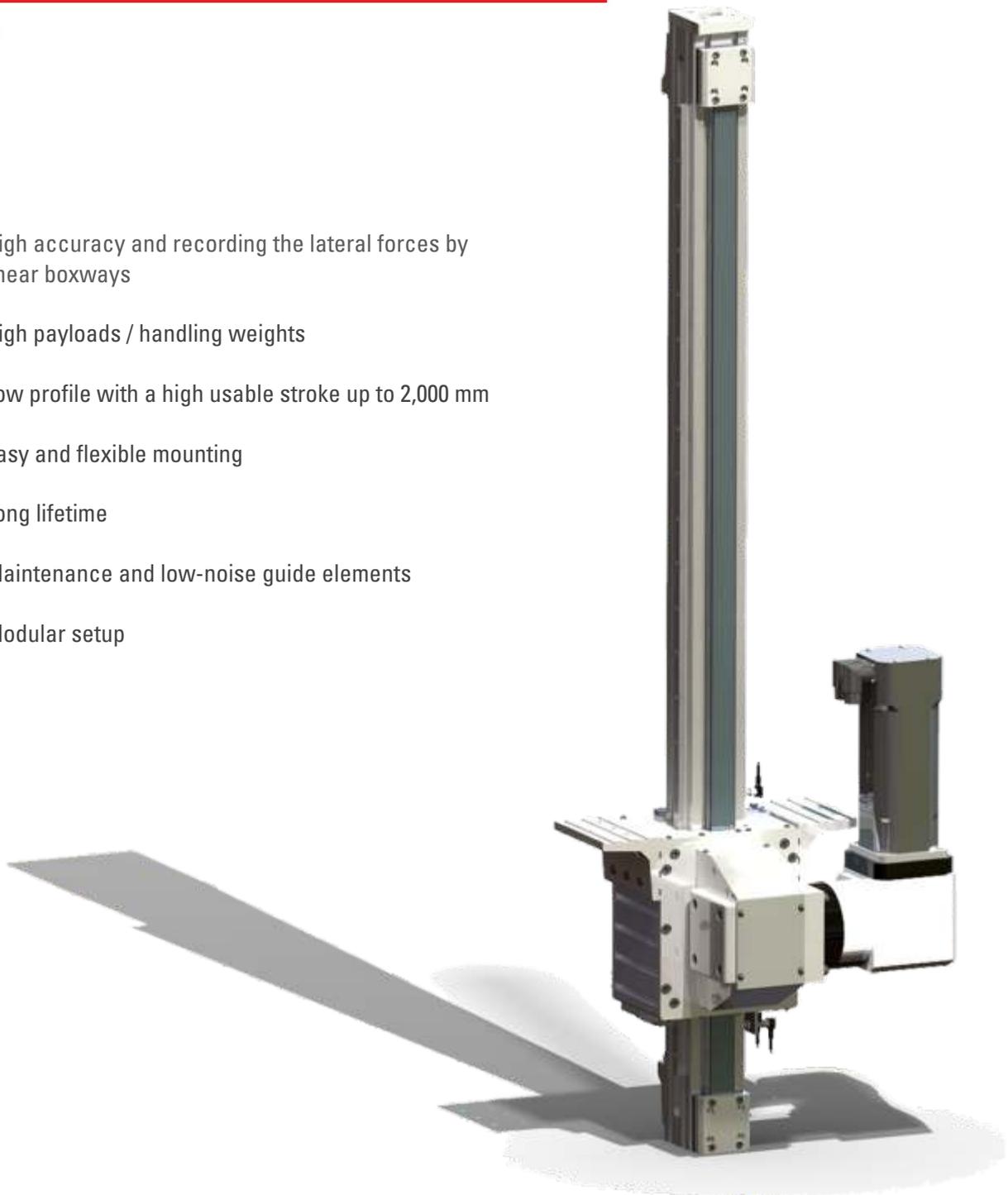


Portal axle for vertical applications

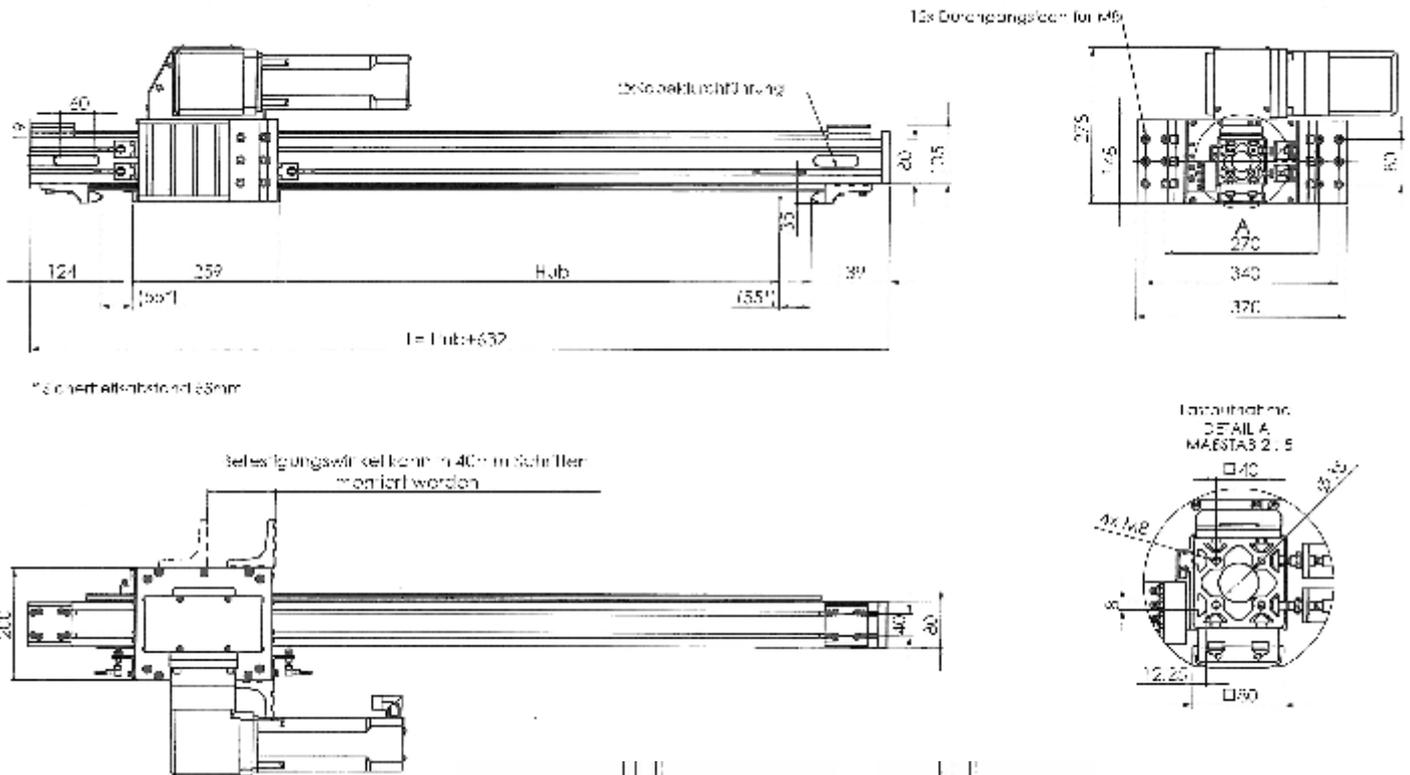
NC-80VC

FLG
AUTOMATION

- ✓ High accuracy and recording the lateral forces by linear boxways
- ✓ High payloads / handling weights
- ✓ Low profile with a high usable stroke up to 2,000 mm
- ✓ Easy and flexible mounting
- ✓ Long lifetime
- ✓ Maintenance and low-noise guide elements
- ✓ Modular setup



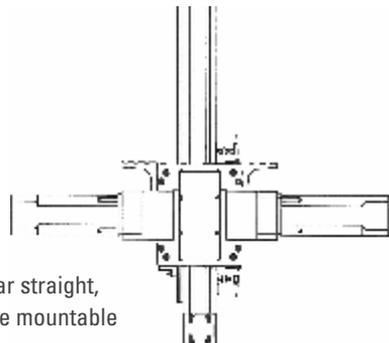
Drawing / installation dimensions



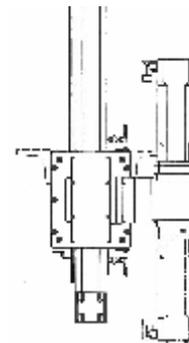
Drive options / motor positions

Different motor positions and gears allow a flexible and space-saving adaptation of the axis to the respective application.

Motor with gear straight,
right or left side mountable



Motor with angular gear,
right or left side mountable



Technical specifications

Travel speed:	max. 6 m/s	Weight without engine/mechanical parts:	30 kg + 0,96 kg/100 mm
Acceleration:	max. 5 m/s ²	Driving torque:	max. 75 Nm
Usable stroke 2,000 mm:	2.000 mm		
Stroke per revolution of the drive shaft:	240 mm		
Payload / handling weight:	90 kg		
Belt tension:	max. 2.800 N		
Lateral force max.:	900 N		
Profile cross-section:	80 x 80 mm		
Repeatability:	± 0,2 mm		

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The System

Experience, quality and dynamics

With the portal axle NC 80VS varied handling and palletizing tasks can be solved inexpensively and easily. Regardless whether in use as a lift axis in a gantry or as simple handling axis, wherever large payloads have to be moved with large strokes, NC 80VS is the right choice.

Advantages

- High payload, this quiet running, high dynamics, backlash-free and precise positioning by double linear guides
- Extremely compact drive unit creates space height advantages over other axle systems
- Absorb high side forces and moments through warp-resistant profile and linear guides
- Freely accessible clamping elements allow easy adjustment of the belt tension.
- Low maintenance, optional: center, freely accessible site for the lubrication of the carriages
- In the profile sliding switch targets for safe shutdown and robust and damped end stops
- Prepared mounting holes for attaching the limit switch, whether electrical or mechanical, requiring no additional design effort

Safety

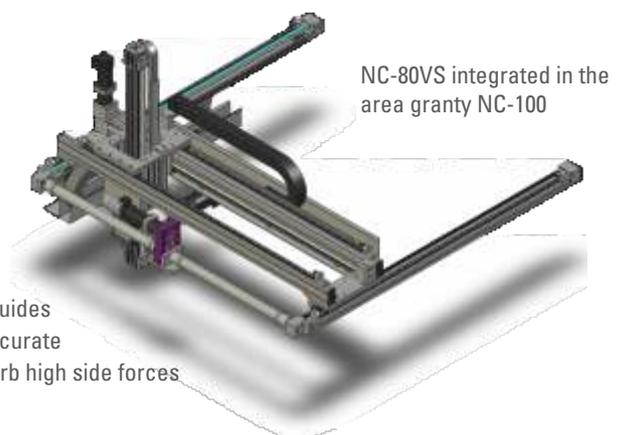
The in the profile displaced switching cams, as well as the robust running and damped end stops ensure a safe shutdown. Prepared mounting holes for attaching the limit switch, whether electrical or mechanical, requiring no additional design effort.

Areas of use

- Palletizing, feeding, unloading, loading, insertion
- stacking, order picking, warehousing
- loading of machine tools, injection molding machines

Dynamic and fast

In the production environment and in the packaging sector time and reliability are key factors. Modern handling systems must be measured against these requirements, and their task is performed precisely and smoothly. The NC 80VS has been specially designed and adapted for this task. Some redundant linear guides ensure smooth running and guarantee even with high dynamic play-free and accurate positioning. In addition, the guide elements and the rigid profile are able to absorb high side forces and torques.



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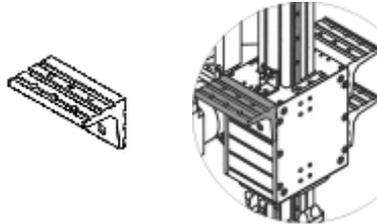
The System

Accessories and options

For easy and quick integration of the axle various standardized components are available.

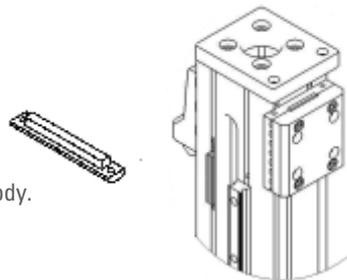
Mounting brackets

For the customer's connection to the axle. Set consisting of two angles.



Switch cam

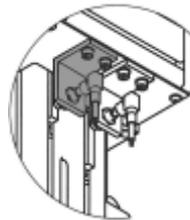
For a safe end position sensing in the outer profile groove in conjunction with electrical end position sensors. Switch lugs are variably adjustable in the profile body.



Initiators with brackets

Query for end positions. 2 initiators ØM8 with brackets.

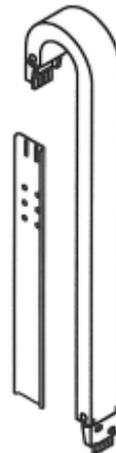
On request a kit for the mechanical query is also available.



Drag chain

With guide plate and bracket for axle connection. Cross section 20x40mm.

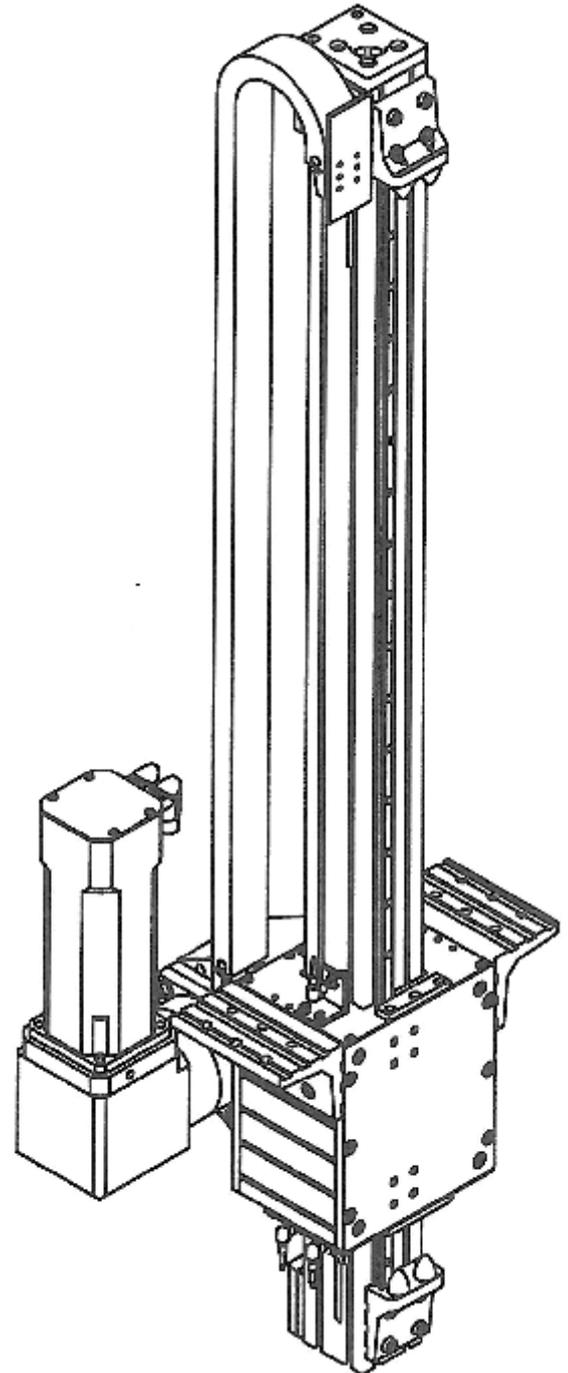
On request other cross-sections and additional dividers can be supplied.



Brushless AC servo motors and gears

And servo amplifier and cable sets tuned to the respective application.

For the design and selection of drive components and accessories, please contact our service team at your disposal!



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