

Hydraulic Lifting Device ANP-AHV



Determination of Anchor Forces

For installed prestressed strand anchors, it is often necessary to determine the existing prestressing force afterwards. Using the hydraulic lifting device ANP-AHV, this measurement can be carried out precisely and efficiently – even on strand anchors with smooth bearing plates and without external threads.

Our innovative design enables a safe and reproducible determination of the anchor force by hydraulically lifting the anchor under controlled tensile loading. During this process, the bearing plate is hydraulically clamped by a special clamping unit and supported via a tensioning rod.

The applied tensile force can be controlled either via the hydraulic pressure or via a force measuring cell. At the same time, the deformation of the anchor is recorded using a precision displacement gauge. This method allows the actual anchor force to be determined reliably and documented.

Thanks to its robust design and compact dimensions, the ANP-AHV is ideally suited for use on construction sites – both for temporary and permanent anchor systems.

Advantages at a Glance:

- Precise control and documentation of the anchor force
- Easy and safe handling
- Suitable for temporary and permanent anchors
- Can also be used on smooth bearing plates without external threads
- Bearing plate diameter measurement from 100 to 130 mm
- Compact design
- Aluminium and high-strength steel construction
- Universal bayonet locking system
- High repeatability of measurements
- Low-maintenance, durable construction

Technical Data ANP-AHV

General Specifications

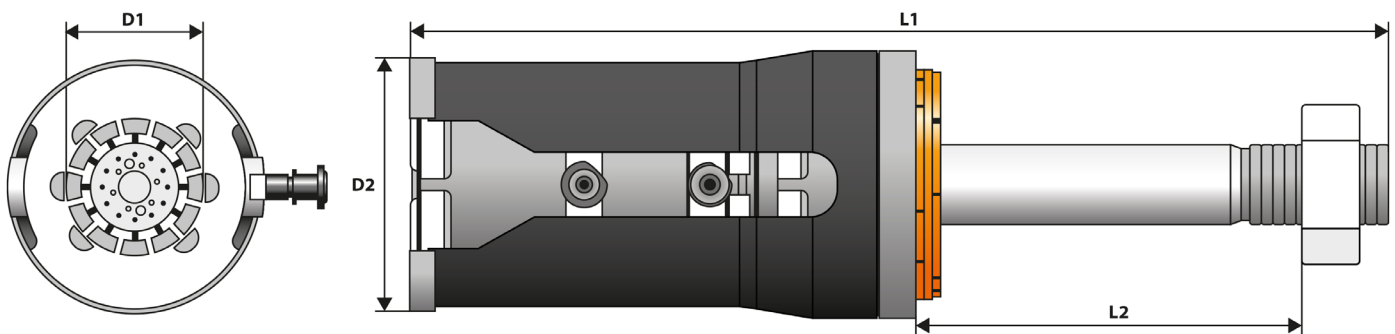
Designation:	Hydraulic Lifting Device AHV-1000
Maximum lifting force:	1000 kN
Maximum lifting stroke:	100 mm
Clamping force:	363 kN
Maximum operating pressure (advance):	700 bar
Maximum operating pressure (return):	700 bar
Weight:	127,50 kg

Main Dimensions

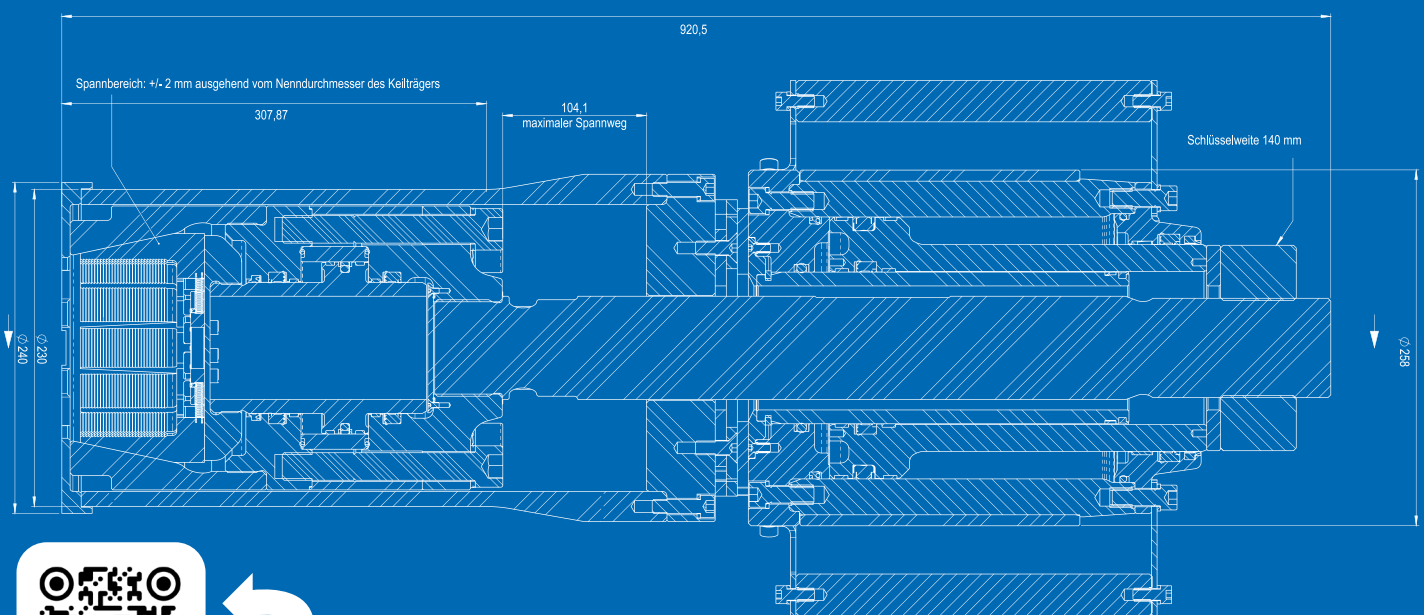
Overall length (max.) L1:	920.50 mm
Possible bearing plate diameter D1:	100 mm – 130 mm
Installation length tensioning rod L2:	391.50 mm
Outer diameter D2:	ø240 mm

Application

For lifting prestressed strand anchors with bearing plate diameters from 100 to 130 mm and a lifting force of up to 1,000 kN.



Dimensions ANP-AHV 1000



» link to
explanatory video