



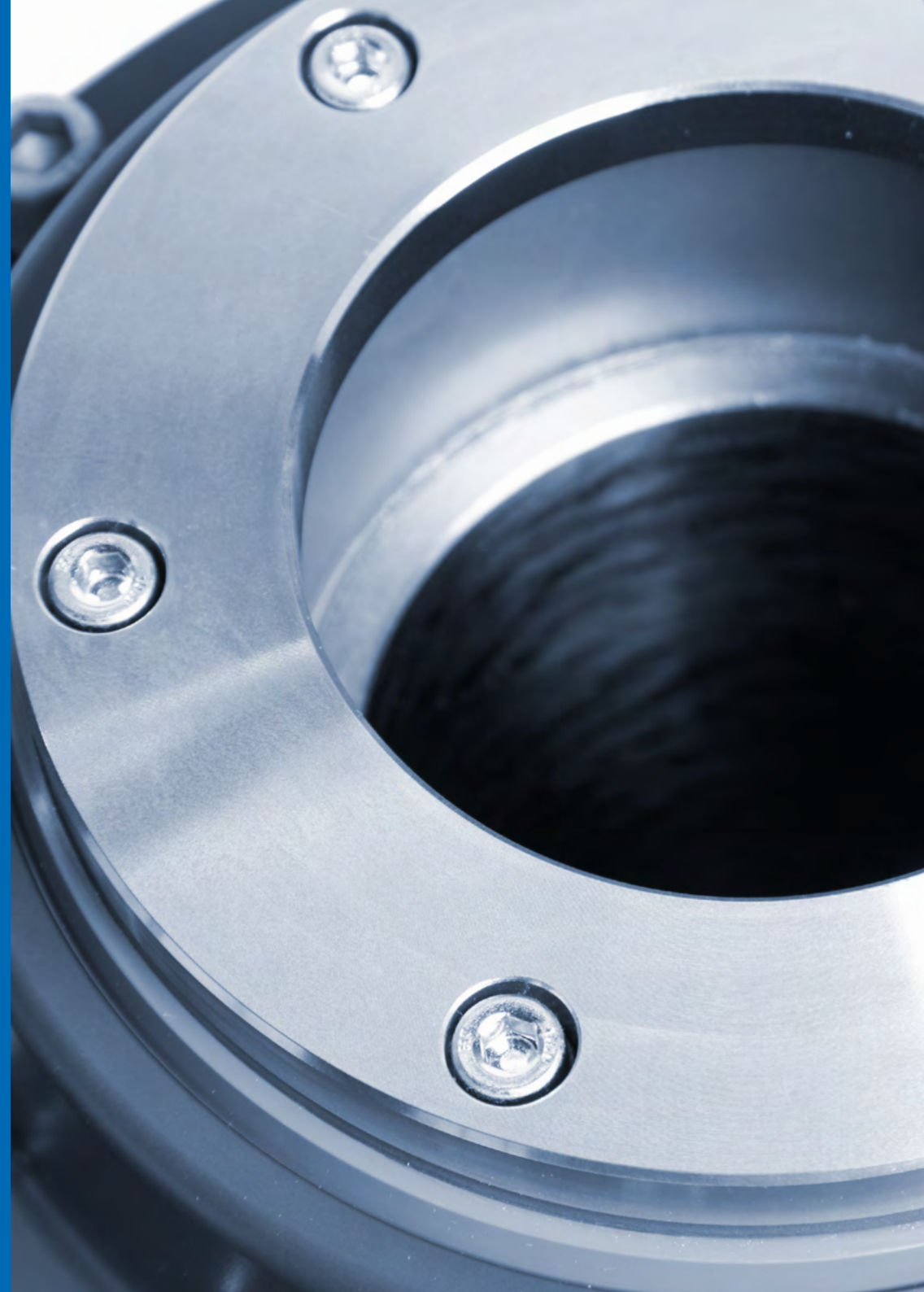
# ANP-ES GmbH

## Equipment Services

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ANP-ES Equipment Services GmbH is a subsidiary of ANP Systems GmbH based in Grabenstätt am Chiemsee in Bavaria, Germany.

It designs and manufactures installation, testing and monitoring systems for use in geotechnical engineering as well as in structural and civil engineering.



# Hydraulic hollow piston cylinder

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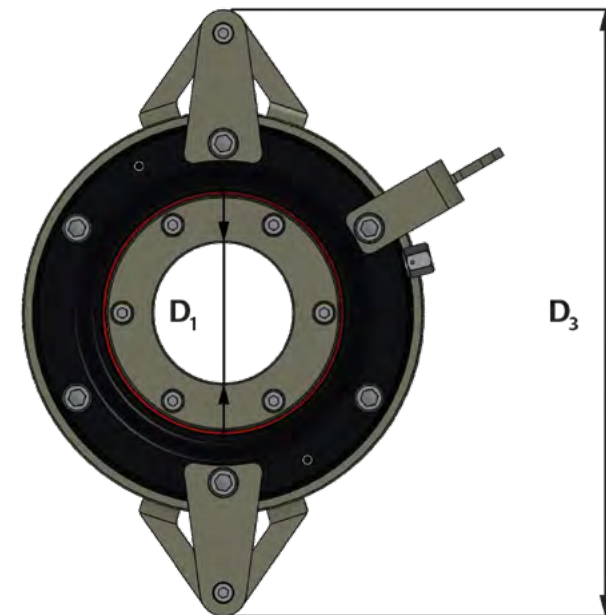
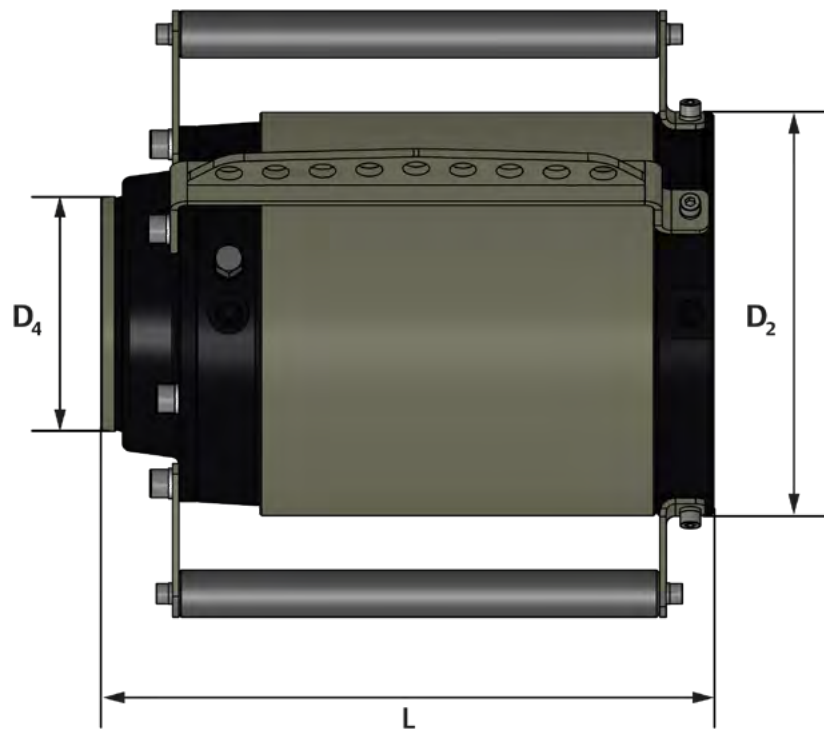
## General information

Our lightweight aluminium tensioning jacks are designed for tensioning and testing grouted anchors, rock or ground nails and micropiles, and are also used in tensioning applications in building construction and civil engineering, as well as for lifting, lowering and shifting.

Thanks to our in-house development and production, we are able to cater for the individual requirements of specific projects in terms of lifting force, press stroke and dimensions.



## Product details - dimensions:



## Product overview:

Description: Hydraulic hollow piston cylinder	Press force	Stroke	Max. operating pressure	Passage D <sub>1</sub>	Length L	Outer diameter D <sub>2</sub>	Max. outer diameter D <sub>3</sub>	Diameter of pressure piece D <sub>4</sub>	Dry weight
	{kN}	{mm}	{bar}	{mm}	{mm}	{mm}	{mm}	{mm}	{kg}
HKZ_Alu_1200-200-90	1,319.00	200.00	700.00	90.00	392.50	258.00	388.00	149.00	54.35
HKZ_Alu_1200-150-90	1,319.00	150.00	700.00	90.00	342.50	258.00	388.00	149.00	46.75
HKZ_Alu_1200-100-90	1,319.00	100.00	700.00	90.00	292.50	258.00	388.00	149.00	39.16
HKZ_Alu_1200-80-90	1,319.00	80.00	700.00	90.00	272.50	258.00	388.00	149.00	36.12
HKZ_Alu_1200-50-90	1,319.00	50.00	700.00	90.00	242.50	258.00	388.00	149.00	31.57
HKZ_Alu_1700-350-110	1,854.00	350.00	700.00	110.00	552.50	295.00	425.00	179.00	96.17
HKZ_Alu_1700-250-110	1,854.00	250.00	700.00	110.00	452.50	295.00	425.00	179.00	77.34
HKZ_Alu_1700-150-110	1,854.00	150.00	700.00	110.00	352.50	295.00	425.00	179.00	58.74
HKZ_Alu_1700-100-110	1,854.00	100.00	700.00	110.00	302.50	295.00	425.00	179.00	49.45
HKZ_Alu_1700-50-110	1,854.00	50.00	700.00	110.00	252.50	295.00	425.00	179.00	40.17
HKZ_Stahl_3500-500-155	3,748.00	500.00	700.00	155.00	368.50	376.00	477.00	239.00	339.83
HKZ_Stahl_3500-300-155	3,748.00	300.00	700.00	155.00	518.50	376.00	477.00	239.00	243.81

The cylinders listed in the table above are our standard products.

We can also manufacture customised cylinders on request to suit your requirements in terms of press force, stroke and dimensions.



## What makes our cylinders so special?

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Our cylinders are characterised by their high quality and durability combined with a low operating weight. The aluminium components, which we have made lighter by optimising their topology, are encased in an impact- and shock-resistant steel jacket that protects them from physical damage, making the device extremely rugged and suitable for use on building sites. Our unique and innovative overflow valve prevents pressure loss even at high pressure, unlike conventional hydraulic cylinders with piston rods, thus ensuring superior quality when testing and clamping.

## Accessories

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Our range of hollow piston cylinders is complemented by a large range of accessories for clamping, testing, maintenance and lifting applications as well as a maintenance, repair and calibration service, and we can also design and manufacture clamping collars, reset discs, front rings, etc. to meet your specific needs.





## Rental service

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As one of our customers, you have the option of hiring the equipment you need from our extensive rental park. No matter whether you need equipment for a short-term job or want to hire a clamping press with a power pack for a longer period then you're in the right place.

## Repair service

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Our workshop ensures that our rental equipment as well as equipment for sale is in perfect working order, but should any problems arise, our experienced and highly trained staff are on hand to provide rapid assistance. We are also happy to repair and carry out maintenance on customer-owned equipment from any manufacturer.

## Calibration service

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We have three test benches to carry out recurring calibration of tensioning jacks and load cells from any manufacturer in accordance with DIN 51308.

## **Equipment Services**

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