

POWER UP.



**MOST PEOPLE STRIVE
TO BE ABLE TO SEE PAST
ANY OBSTACLES AND TO
UTILIZE THEIR KNOWLEDGE
OPTIMALLY. WE HAVE
MADE THIS OUR AREA OF
EXPERTISE ALLOWING
YOU, OUR CUSTOMER,
THE POWER TO GROW
WITH MARKET LEADING
HYDRAULIC CYLINDERS.**

Stacke Hydraulik is one of the industry leaders in modern hydraulic cylinders and hydraulic systems for mobile and industrial applications. Development and manufacturing takes place in Skillingaryd, Sweden, but the products are used worldwide. You can find our cylinders anywhere – in construction equipment, forklifts and forest machinery, cranes, mining equipment and in a variety of industrial applications. Our products are manufactured with precision, skill and experience in a modern manufacturing process with a high degree of automation.

BOLD ENGINEERING.

Stacke Hydraulik delivers a complete, well thought through and proven solution for hydraulic cylinders and hydraulic systems. We work with a variety of well-known companies in various industries. Their common denominator is that they set the highest standards in the market. Our customers expect us to be a competent producer and flexible business partner that assists them with all their cylinder needs. Our vast knowledge, experience and curiosity is a guarantee for cylinder function and economy – through the entire product life span.

YOUR UNIQUE REALITY.

The majority of our products are used for control and transfer of forces and motion in mechanical equipment. Let us know what load the cylinder needs to handle, what working pressure the system has and which built in dimensions that are needed – we are happy to take care of the rest. This means you always have the right cylinder in the right place with the right function, according to your wishes and requirements. We can also offer a wide range of standard cylinders for immediate delivery.

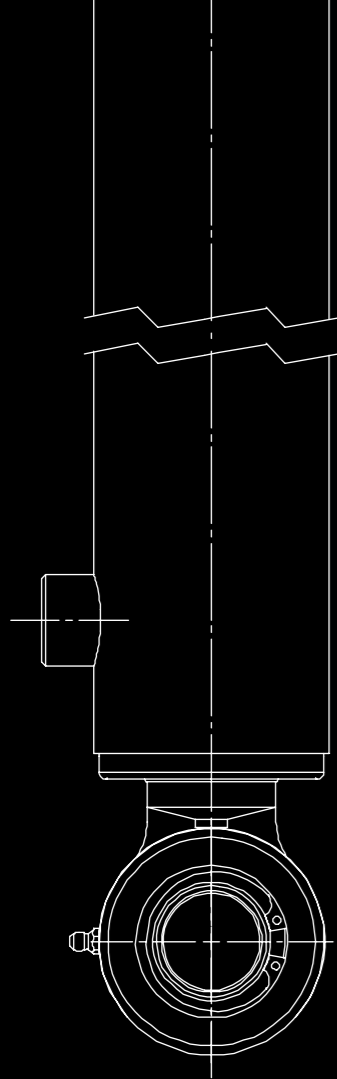


GET IN TOUCH.

You are always welcome to utilize our knowledge. We are an experienced partner with many long and successful collaborations. Contact us for professional advice and further discussion about your cylinder needs.

www.stackehydraulik.com

CYLINDERS.



When manufacturing our products, we have a variety of cylinder types with different properties. Single acting cylinders transfer the force in one direction, while double acting cylinders work in two directions. There are many features, additional functions and variations that can be customized to your needs. For us it is important to know how the cylinder is expected to perform and in what environment it will be used. Then we can assist in choosing the right cylinder and adjust it to your unique product for best results. We start with a number of cylinder modules and manufacture everything from control cylinders, telescopic cylinders and cylinders with cushioning, linear sensor and valve functions.

CYLINDERS WITH ADDITIONAL FUNCTIONS.



End cushioning

Cylinders with end cushioning are used to achieve a softer running in the end of the cylinder stroke. The attenuation can be applied on the traction side, pressure side or in both directions. To provide a dampening effect, the flow of oil is decreased during the last part of the cylinder stroke. The cylinders can be used to achieve shock-free end positions or where you are unable to integrate external damping.



Valve function

A cylinder with valve functions can be used in a variety of areas where there is a need for increased safety and performance. The valve functions can be built into the cylinder, or mounted directly on the cylinder. Common types of valves are known as safety valves, check valves and load-holding valves. Suitable applications include person lifts, forklifts and cranes where you want to ensure that a load that is lifted does not fall freely if a hose should break.



Built-in linear transducer

A cylinder with a built-in linear transducer gives direct feedback on the position of the piston rod. With built-in linear transducer, even the speed in the end positions can be controlled to provide a dampening effect. Linear sensors are often built into the cylinder and are therefore protected from external damage. These cylinders are recommended where there is a need of positioning and feedback.

ACTING CYLINDERS.



Single acting

The cylinder transfers the hydraulic force in one direction – either pulling or pushing. It is designed with one oil connection with piston sealed design, or as plungers without the piston seal. Suitable areas of use include applications with lift cylinders or with brake and lock cylinders.

TELESCOPIC CYLINDERS.

Single acting

Single-acting telescopic cylinders are constructed of an outer cylinder with an added number of steps. In this way we achieve a short build-in, but a long stroke. Single-acting telescopic cylinders generate a thrust of hydraulic power. For the cylinder to return to its original position, a force in the opposite direction is needed. Suitable areas of use include tipping cylinders for vehicle-mounted systems and elevator cylinders.



Double acting

Double-acting telescopic cylinders generate a hydraulic force in two directions - both pulling and pushing. The cylinders are often provided with piston rings where the piston seals are not entirely free from the leakage. Each cylinder is usually equipped with one oil connection to the tension side and one oil connection to the pressure side. Suitable areas of use include both horizontal and vertical applications with a short build-in and a long stroke.



Double acting

A double-acting cylinder transmits hydraulic power in two directions, with both pulling and pushing force. It can be used wherever there is a need to create hydraulic power in both directions.




STANDARD RANGE.

In addition to our unique products, we offer a wide range of standard cylinders. The standard range includes double acting hydraulic cylinders as well as single and double acting telescopic cylinders. Our standard range of modular and double acting hydraulic cylinders is called the DA250. The products in the range can be combined with various mounting options. They can be supplied in cylinder tube sizes from a diameter of 25 to 250 mm, adding great versatility regarding possible applications. In addition to the different installation options, there are also possibilities to add options like end cushioning, linear sensors and built-in valves. The cylinders can also be adapted to meet different corrosion requirements.

This spread shows examples of cylinders from our standard range. The rod attachment is combined with the cylinder design you require. Contact us for more information.

The cylinders in the standard range are painted black (RAL 9005). Other colors are available upon request.



PLEASE NOTE THAT...

Detailed information on part numbers, attachments, finishes, dimensions, variants, charts and technical specifications are available on:

www.stackehydraulik.com

ACTING CYLINDERS.



DA0101, Spherical bearings

DA250 cylinder with bearings attachment on both piston rod and cylinder tube. Maximum working pressure is 25.0 MPa (250 bar). The DA0101 is available in a number of sizes and stroke lengths. Contact us for more information.



DA0302, Body trunnion

DA250 cylinder with body trunnion on cylinder tube and external screw thread on piston rod. Maximum working pressure is 25.0 MPa (250 bar).



DA0404, Clevis

DA250 cylinder with clevis attachment both on piston rod and cylinder tube. Maximum working pressure is 25.0 MPa (250 bar).



DA0502, Front flange

DA250 cylinder with front flange and external screw thread on piston rod. Maximum working pressure is 25.0 MPa (250 bar).



DA0601, Back flange

DA250 cylinder with back flange and bearings on piston rod. Maximum working pressure is 25.0 MPa (250 bar).



DA0707, Narrow bushing

DA250 cylinder with narrow bushing on both piston rod and cylinder tube. Maximum working pressure is 25.0 MPa (250 bar).

TELESCOPIC CYLINDERS.



Double acting, 2 steps (AY)

Piston rod fed telescopic cylinder with both connections in the piston rod end. This cylinder type is not meant to hold hauling cargo. Maximum working pressure is 17.5 MPa (175 bar).



Double acting, 3 steps (AY)

Piston rod fed telescopic cylinder with both connections in the piston rod end. This cylinder type is not meant to hold hauling cargo. Maximum working pressure is 17.5 MPa (175 bar).



Single acting (AK)

The single acting telescopic cylinder is available with 5 different mounting options in a variety of sizes and stroke lengths. The attachments are ball-ball, ball-cradle, ball-trunnion, bearing-bearing and bearing-trunnion. Maximum working pressure is 21.0 MPa (210 bar).



DA0808, Wide bushing

DA250 cylinder with wide bushing on both piston rod and cylinder tube. Maximum working pressure is 25.0 MPa (250 bar).



DAXX02, External screw thread

DA250 cylinder with external screw thread on piston rod. XX refers to the optional cylinder tube attachment. Maximum working pressure is 25.0 MPa (250 bar).



DAXX03, Internal screw thread

DA250-cylinder with internal screw thread on piston rod. XX refers to the optional cylinder tube attachment. Maximum working pressure is 25.0 MPa (250 bar).

CONCEPT CYLINDERS.



Twin cylinder

Double acting cylinder for construction machines or other tool carrying machines with quick tool changes.



Telescopic cylinder

Single- or double acting cylinder for mobile or fixed equipments.



Support cylinder

Hydraulic cylinder for cranes, elevators and vehicle mounted applications.



Lift cylinder

Hydraulic cylinder for cranes and heavier construction machines.



Lift cylinder

A single acting cylinder for forklifts and other applications.



Reach cylinder

Horizontally working cylinder for applications where space is limited.



Industrial cylinder

Single- and double acting cylinders for industrial- automation- and sawmill industry.

A hydraulic cylinder from Stacke Hydraulik can end up just about anywhere. You choose where to mount it and what function it should have. Our cylinders are, if possible, built of modules that are tailored to your requirements. Our standard range is based on a number of standard modules that can be used for most applications. If the possibilities available within the standard range should not meet your needs, we will construct a unique product for you.

Some cylinders may need to be adapted, i.e. to withstand harsh environments. All you need to do is provide us with basic information about power performance, working pressure and dimensions. The length of the cylinders vary from 20 cm and up depending on the stroke length. The inner diameter ranges from 25 to 400 mm. Here are some examples of cylinders for various applications.

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HIGHER WORKING PRESSURE?

Stacke Hydraulik also delivers cylinders for working pressure above 25,0 MPa (250 bar). Contact us for further information.

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THE ART OF LEADING.

Stacke Hydraulik was founded back in the early 1920s. Through the years, our knowledge has deepened and we have gained solid experience of developing and manufacturing hydraulic cylinders. We have mastered the art of modern hydraulic engineering. Our motto is to create products that make everyday life easier for our customers and to maximize the customer value. That's basically all you need to remember about Stacke Hydraulik.

A STRONG ENTIRETY.

We offer our customers a wide standard range – from standard hydraulic cylinders available for immediate delivery to fully customized products. As a customer, you will always find a consistency in the design solutions throughout our standard component selection. We are happy to help you all the way from concept, construction, and serial production to delivery and after sales with flexible solutions that meet your requirements. It is up to you how involved you want Stacke Hydraulik to be in your project. We can provide our expertise where it is needed, or take full responsibility of the project. This means we often work in close collaboration with design engineers to find the optimal and complete solutions based on the requirements of the product.

MODERN & FLEXIBLE PRODUCTION.

Stacke Hydraulik designs and manufactures all products in Skillingaryd, Sweden. We use a well-proven concept of standard modules in a modern production facility with an effective machine park. Our hallmark is customer-specific solutions with a holistic approach that creates the best possible conditions for high quality, efficient production and short lead times. Our products are manufactured with high expertise in which our craft is as important as advanced robotics. Production is dependent on a developed interaction between man and machine. It allows us to produce large volumes in an efficient, modern and accurate manner.



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GET IN TOUCH.

You are always welcome to contact Stacke Hydraulik for competent advice and further discussion about your cylinder needs. Scan the code with your mobile phone to add our contact information.

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