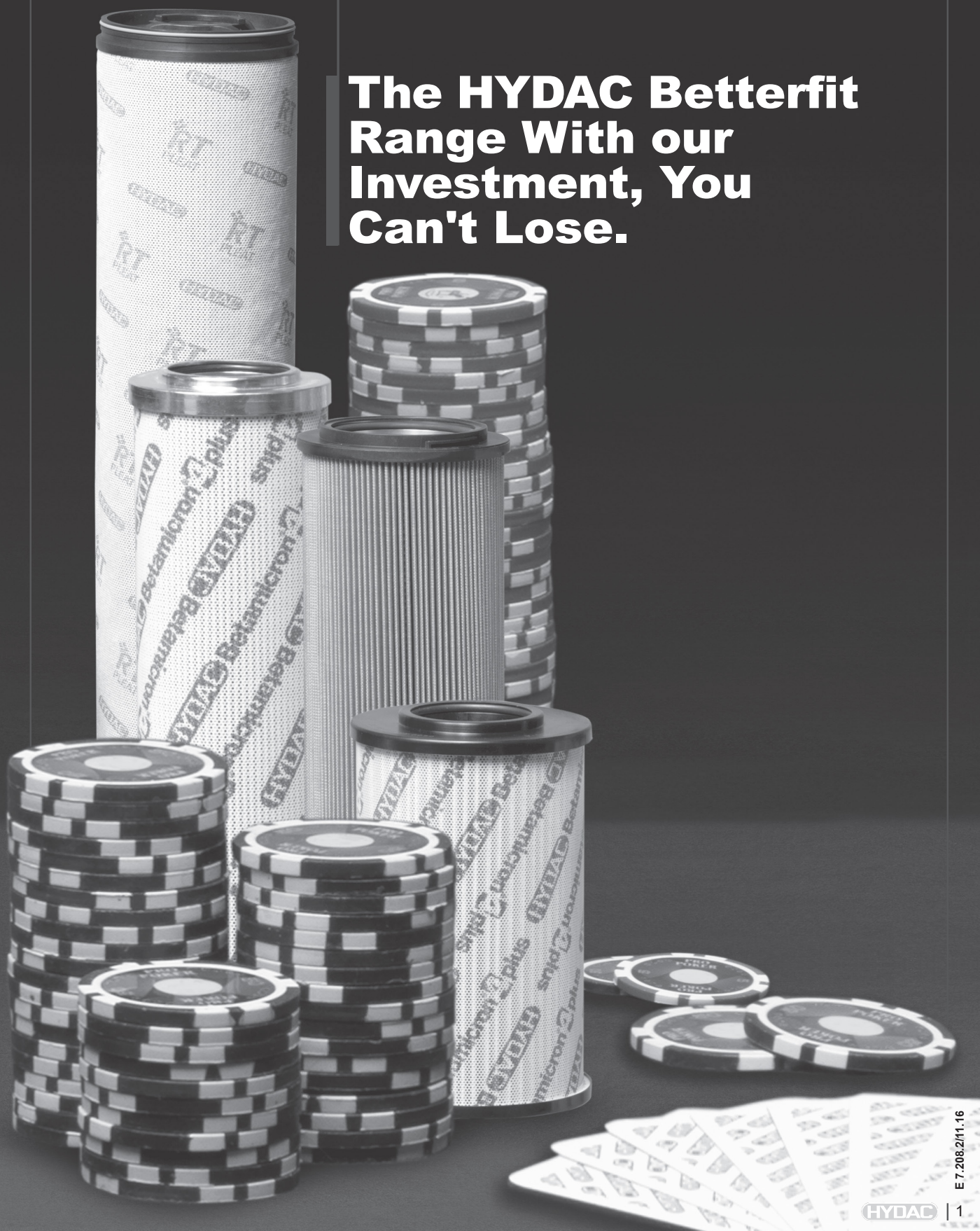


HYDAC INTERNATIONAL

**The HYDAC Betterfit
Range With our
Investment, You
Can't Lose.**



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HYDAC | 1

Knowledge is POWER – Motion Force Control is our Business

HYQUIP Limited New Brunswick Street Horwich Bolton Lancashire BL6 7JB UK

HYDAC

The HYDAC Betterfit Range: The Royal Flush in Filter Elements.

The Best Combination. Every Time. On Paper and in Practice.

With HYDAC and the HYDAC Betterfit Range you hold all the aces when it comes to conditioning your fluids:

Global Presence.

HYDAC forges close links with its customers by providing engineering advice and fluid engineering in over 45 international subsidiaries and over 500 distributors and service partners worldwide.

Specialist expertise.

HYDAC has developed expertise in the research, development and production of filter housings, filter systems and filter elements over many decades.

Industry competence.

HYDAC industry competence forged through close cooperation with the most exacting international clients in almost all industries in the world.

Complete range.

HYDAC filter elements provide a comprehensive range to suit all applications and also almost all competitor filters. Our customer-focused service package is included, ranging from specialist advice to availability at short notice.

Quality from the ground up.

In the HYDAC Fluid Care Center, which is our own state-of-the-art industrial laboratory for basic research, functionality and quality testing as well as application-specific development, we explore the most efficient fluid technology solutions. This results in high-end quality filters and elements with maximum efficiency.

Strongest link in the chain.

As a system partner with wide-ranging industrial experience, HYDAC does its utmost to ensure each filter element is one of the most efficient links in the functionality chain of fluid technology systems. HYDAC therefore guarantees the greatest possible component protection for the longest possible service life.

Better is better than good enough.

The HYDAC Betterfit range combines the best ideas and the best in fluid engineering – filter elements which stand up to every comparison and every challenge.



Don't fall for a cheap bluff.



Using elements of inferior quality have drastic consequences:

- Poorer cleanliness classes in the customer's system
- Inadequate component protection
- Shorter filter lifetimes
- Threat to operating reliability and even risk of system failures
- Restricted system availability
- Increased Life Cycle Cost for the customer

**Never trust a poker face.
Don't let yourself be taken in!
Trust HYDAC,
Your system will thank you for it!**

The shocking evidence of these no-name elements which have collapsed shows exactly what happens to cheap filter elements after just a few hours operation. The often unseen damage caused to control components and systems can sometimes have the effect of paralysing whole production systems.

By contrast, with HYDAC filter elements and their rigorous and systematic quality, you will have the winning hand for every application.





Betterfit Range

B-E-T-T-E-R-F-I-T Better for quality and efficiency.

Here you are guaranteed to find the right element.

The HYDAC Betterfit range covers a wide variety of replacement elements in the dimensions used by competitors, particularly all well-known filter element manufacturers.

Our Betterfit elements are made predominantly from the tried-and-tested Betamicon[®]4 element technology (other materials, such as synthetic fibre or wire mesh are also available).

Put your money on genuine quality equipment and opt for Hydac replacement elements – your system will thank you for it!

By using our Betterfit elements you will benefit from the whole Hydac service package – from oil sampling to oil analysis. This also includes identifying the source of faults and designing filtration concepts.

Hydac supports you at every stage and in all aspects of fluid service.

Just as our motto says "With our investment, you can't lose" we will take care of your system, leaving you to concentrate fully on your core competence.

Steady expansion of the Betterfit range.

Since launching the Betterfit range the number of replacement filter elements has increased daily. We respond to your request. If the required element is not yet available, we will endeavour to add it to the Betterfit product range as quickly as possible once we have examined the design.

Today there are approximately 23,000 replacement elements in the Betterfit line of elements and the number is growing day by day.

BETAMICON[®]4

Decades of experience and ongoing further development in the field of hydraulic and lubrication oil filtration have given HYDAC the technological edge in top quality filter element technology.

The high performance Betamicon[®]4 is the predominant material used in the **Betterfit element product range**.

This innovative glass fibre media will convince you with its exceptionally high contamination retention capacities, excellent filtration efficiency and optimized $\Delta p/Q$ characteristics.

Particular customer benefits of HYDAC filter elements:

Energy cost savings

thanks to particularly low pressure drops

High quality component protection and long system life

due to excellent filtration efficiency

Long service life and low operating costs due to particularly high contamination retention capacities

High degree of operating reliability because of compact and robust construction

EFFICIENCY

Global and yet local.

45 overseas companies and over 500 sales and service partners provide a worldwide presence on the ground.

We provide efficient support on demand.

TOTAL CLEANLINESS

And your system will thank you for it.

TECHNICAL SUPPORT

Skilled advisors in the regional offices and overseas subsidiaries.

ONE FOR ALL

All from one supplier.

HYDAC can supply you with the whole spectrum of products including outstanding Fluid Service.

Specifically in the area of filtration, we can supply you with every filter element used in your production processes from our Betterfit range

– just tell us your filter cartridge requirement and you will receive the complete package from one supplier.

In short: we take care of your filtration needs whilst you concentrate fully on your core competence.

CLEANLINESS

System cleanliness assured by professionalism and quality.

FLUID MANAGEMENT

With HYDAC, your fluid is in safe hands

We know your fluid and welcome the opportunity to help you reduce the burden of fluid service. You will see for yourself the clear benefit of having a hydraulic or lubrication system that works perfectly, leaving you to concentrate fully on your specialism. Entrust us with your fluid and benefit from our Fluid Engineering package since this ensures:

A long system life

thanks to better component protection.

A definite cost saving

due to reduced operating and downtime costs.

And fits all housings, fluids and cleanliness classes.

INTELLIGENT FLUID SERVICE

By making use of HYDAC fluid service specialists.

In fluid service, too, you can benefit from decades of experience and development.

How HYDAC's excellent fluid service benefits you:

■ On-site diagnostics with our laboratory vehicles

■ Specialist staff available on demand

■ Lower costs thanks to professional oil sample analysis, monitoring and support (condition-based maintenance)

■ Lower maintenance and spare part costs

■ Increased operating reliability due to fewer breakdowns

TREND: SYSTEM EXPERTISE

Sub-systems and systems.

HYDAC is not only a component specialist, but also has decades of experience in power unit and system engineering. The filter component is therefore never viewed in isolation, but always as an important part of the whole system. This practice is followed through to the complete system!

With this wealth of expertise in applications and systems, HYDAC automatically sees its individual components, such as filters and filter elements, in conjunction with the whole system and understands how they can best be configured to suit the particular system requirements.

Within the framework of Fluid Engineering HYDAC guarantees you **the right filter and the right filter element in the right location** – because for HYDAC, this is not just wishful thinking, but an everyday reality.



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Don't gamble with your components.

Our advice: Invest in genuine quality!

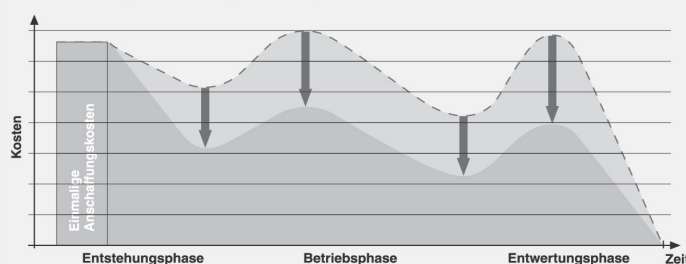
The many years' development in the area of element technology is your guarantee of first class quality in Hydac filter elements and this applies equally to the **Betterfit range**.

By using Betterfit elements, the **Life Cycle Cost** of your system will be optimized, thereby reducing the total costs of the machine or a component, from procurement right through to disposal. Reducing these costs is one of the **megatrends** pursued by large-scale end users in machine building.

Leading automotive manufacturers demand, for example, authoritative data on the **Life Cycle Cost** and the values derived from it – e.g. for machine tools for 10 years life, for presses even up to 30 years life. New investments by machinery manufacturers are decided on the basis of the machine prices and the Life Cycle Cost calculation provided.

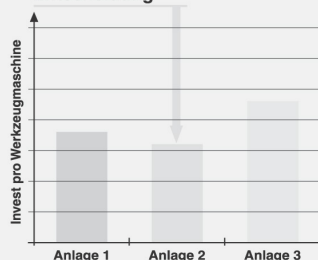
**LIFE
CYCLE
COST**

Ziel: Life Cycle Cost-Optimierung

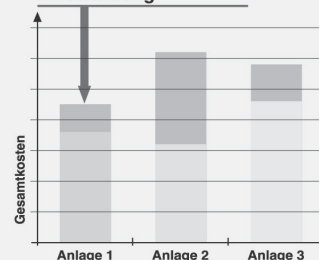


Cost progression during the whole life cycle of the machine / system

Budgetorientierte Entscheidung



Gesamtkostenorientierte Entscheidung

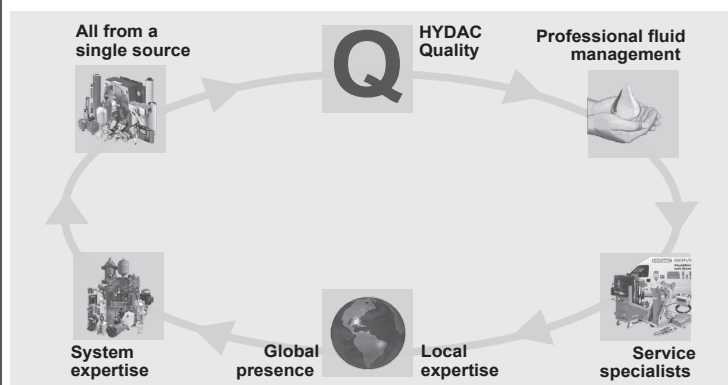


Quelle: MAN B & W Diesel AG am Beispiel Daimler Chrysler

The winners in terms of system properties

With Us, Your Fluid is in Safe Hands.

The specialists at HYDAC have a good knowledge of your fluid and welcome the opportunity to help you reduce the burden of fluid service. You will see for yourself the clear benefit of having a hydraulic or lubrication system that works perfectly, leaving you to concentrate fully on your area of expertise. When you decide on a HYDAC Betterfit element, you are not "just" buying a filter element, but you are also benefitting at the same time from the HYDAC network of expertise and service available worldwide:



Highest level of operating reliability for your applications

In HYDAC you have a professional partner for all aspects of fluid cleanliness and operating reliability for your system.

The complete HYDAC Betterfit range currently comprises approx. 23,000 elements and is growing daily.

The HYDAC filter range is also impressive with over 50 types of filter in every conceivable size and type. In addition, new individual solutions are constantly being developed, partly in active development partnership with the manufacturers.

HYDAC filters offer you the following advantages.

Low costs

the filter elements and housings are optimized for the particular industry

Easy maintenance

simple element change and easy-to-install filter housing

High level of operating reliability

filter media have high filtration efficiency for exceptional cleanliness classes and benefit from a high level of production quality

Low operating costs

particularly low pressure drops across filter and filter element for low energy consumption

All components and systems from one company

providing comprehensive system know-how and integrated system approach

Worldwide availability and advice

provided by our worldwide network of regional offices, agents and service partners

HYDAC, your Partner for Hydraulics and Lubrication Applications.

With 8,000 employees worldwide, HYDAC is one of the leading suppliers of fluid technology, hydraulic and electronic equipment.

Our wide range of products, combined with our established expertise in all aspects of hydraulics and lubrication applications qualify HYDAC to be your professional partner for every aspect of hydraulics. Particularly in the area of filtration you will profit from the decades of HYDAC experience and development successes.

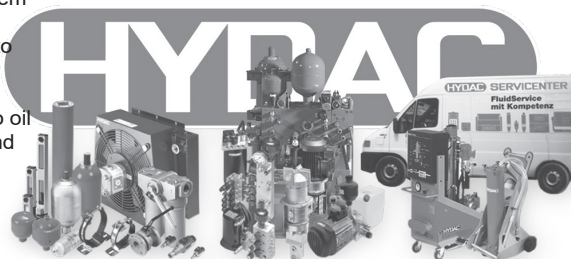
Our quality and environment certification ISO 9001/2000 and ISO 18001 denote first class quality and responsible management of our resources.

That's why you can count on HYDAC - we provide, you profit.

All from one supplier.

HYDAC will help find the solution for you!

From first class components right up to turnkey system solutions, from support during commissioning to maintenance and optimization, from professional filtration, to oil condition monitoring and expert cooling.



First class laboratory and testing expertise in the HYDAC Fluid Care Center

The new Fluid Care Center, specifically designed for filters and filter monitoring, is an important component in HYDAC fluid management and the HYDAC service concept. Equipped with the most up-to-date instruments and test rigs, it offers a huge range of options for fluid analysis and application-specific filtration efficiency testing.

In our new laboratories, highly qualified staff are dedicated to continuously improving products and developing applications as well as carrying out analyses to customer specification – always tailored to the particular operating conditions. In addition to the central facility at our headquarters there are further laboratories and mobile fluid laboratories in several HYDAC centres in Germany and overseas.



Just one example of the numerous filter testing procedures:
Multipass test rig.



Oil analysis in the HYDAC laboratory at company headquarters.

NOTE

The information in this brochure relates to the operating conditions and applications described. For applications or operating conditions not described, please contact the relevant technical department. Subject to technical modifications.

HYDAC Filtrertechnik GmbH
Industriegebiet