

ATV

ATV PERFORMANCE BY ÖHLINS RACING

36PC... THE TRUSTY FRIEND

It is one of the backbone products in the Öhlins Racing product range. It is based on well proven materials and first class parts that give good value for money in the end.

THE COMPLETE ATV PHILOSOPHY

Every business area must have a unique product philosophy and ATV is no exception. Contract racing down to aftermarket kits follows a well defined strategy with top performance parts for all enthusiasts out there.

ATV RACING – THE VERY SOUL IN OUR PRODUCTS

The next generations of aftermarket products are all born out on the racetrack. Our focus on performance gives us the unique possibility to work with some of the most talented riders in the world.



30 years in the limelight of racing

30 years have past since the year when Öhlins Racing AB was formally founded back in 1976. It all started with a passionate young man named Kenth Öhlin that spent most of his time out on the race-track outside Stockholm or back in his father's mechanical workshop.

At a very young age Kenth got to learn different manufacturing techniques and welding procedures thanks to his father's lego-production for all sorts of clients. His interest in motocross bikes soon became more serious and when Kenth was 16 years old he won the National Team Championship and by 18 years of age he won the Junior National Championship title.

His thorough technological knowledge combined with his racing experience gave him the opportunity to travel with the Swedish motorcycle manufacturer Husqvarna to USA as a race technician and during this particular period he started to realise that his main focus of interest was the performance of the bike instead of riding it.

The years that followed, Kenth started to become a well known name within the racing community and soon his business was growing at such speed that a new business location was set up.

At the end of the 70's the Öhlins brand got the proper attention when the first World Championship title in motorcross was conquered with Öhlins suspension in 1978.

Large OEM manufacturers started to send orders to Kenth's business and from that moment on the market have grown to more than 20 OEM partners, approximately 200 employees, hundreds of suppliers, distributors in 50 countries and thousands of dealers that can offer the product range from the factory in Upplands Väsby, Sweden.

The first serious step into the ATV segment was made in the end of the 80's but the major effort to boost the ATV product range was made in 2001. That year Öhlins updated the aftermarket products and together with a booming market it was a perfect setup for a serious attempt in the segment.

In 2004 Öhlins presented the PDS technique that gave a tremendous boost in the segment and soon ATV enthusiasts all over the world started to realize the benefits from the new suspension system.

Today Öhlins is working together with some of the best ATV riders in the world such as Bill Ballance, Pat Brown and Grégory Lassaigue. The unique knowledge from this type of racing goes directly into Öhlins aftermarket products so that all enthusiasts out there can mount high performance suspension on their ATVs.



ÖHLINS ATV RACING HALL OF FAME 2006



Bill Ballance 1st
Traci Cecco 1st
(Womens)

GNCC

Dustin Nelson 1st

ITP Quadcross

Pat Brown 3rd
Jason Dunkelburger 7th
Josh Creamer 9th

WPSA

Keith Little 2nd

TT

Keith Little 3rd
Pat Brown 7th
Angela Butler 1st
(Womens Pro)

GNC

Kory Ellis 1st
Dustin Nelson 3rd

World Fourstroke
Championship

Niclas Lundbäck 1st

ESC

Grégory Lassaigue 1st

12H Mondial
d'Endurance

Joe Maessen 4th

British Quad
Championship

Grégory Lassaigue 3rd

Championnat de
France de Cross

ATV racing – the very soul in our products

The next generations of aftermarket products are all born out on the racetrack, developed by devoted engineers, passionate riders and professional teams that patiently find the optimal materials, the best possible settings and ride technique. Racing has never been a business area of its own, it is a crucial part of a new products life.

At Öhlins the racing products are a crucial part of the birth of a new aftermarket product. Often the first step towards a new product is to test it in the toughest conditions possible to secure the performance before a product is launched. That is why our commitment to

racing is such an important part of our heritage.

Within the ATV segment we collaborate with some of the most talented riders out there such as Pat Brown in the American WPSA series and Bill Ballance in the GNCC.

Together with these riders we collect vital information about settings and overall functionality to improve our aftermarket program.

During the 2006 season we have had a lot of fantastic results that proves the fact that Öhlins Racing is a serious supplier, committed to quality and performance in every aspect of ATV racing.

Contract Racing

At Öhlins the racing products are a crucial part of the birth of a new aftermarket product. Often the first step towards a new product is to test it in the toughest conditions possible to secure the functionality when a product is launched... that is why our commitment to racing is such an important part of our heritage.

New materials and techniques are tested by our teams and thanks to Bill Ballance and other professional riders we get the chance to find optimal settings on different kinds of tracks all over the world giving vital information to the engineers developing the next generation of products for other professional riders and aftermarket customers.



High-End Aftermarket

This is the standard product range from Öhlins that is compatible with a wide range of ATV models on the market today. They are all equipped with external adjusters and made of high class materials. This assortment can be ordered from one of our Official Distributors. All Official Distributors are presented on www.ohlins.com.



The complete ATV philosophy

High-End Racing

The High-End Racing product range is based on three long travel shock absorbers that create the baseline in this segment. A vast range of models can be fitted with these high performance products. Together with Öhlins standard MX products a full line of products can be presented for the genuine ATV enthusiast such as Steering dampers, shock covers and the computerized spring calculation program.

Aftermarket Kit

This is one of the fastest growing areas within the ATV segment today. Nowadays an ATV owner wants to upgrade the whole package, not just a special detail on the vehicle. These kits are the perfect solution and they contain everything from extended braking hoses, A-arms and of course upgraded suspension technology.

The 36PC shock absorber from Öhlins will most certainly become a popular choice when ATV dealers put together their kits.

It all comes down to the spring

Let's face it... do you really know the importance of a correct spring mounted on your ATV?

Did you know that a perfectly chosen spring mounted on your shock absorber gives you great riding performance even if the setting is all wrong? Or worse... a poorly chosen spring mounted on your shock absorber will for sure give you an unpleasant day on your ATV, even if the setting is perfectly made!

Almost all of our ATV shock absorbers are delivered without a spring. Based on the statements above it makes perfect sense not to give out a standard spring without asking what the purpose of your ATV is.

Your specific needs and riding technique determines what kind of spring that will suite you the best and of course what type of ATV you have. Öhlins provides a full range of springs adapted to almost all riding techniques and are made to complement the shock absorber for maximum comfort and performance.

Be sure to put some extra thought when buying your shock absorber... and from now on you won't accept a standard spring on your new shock absorber without asking.



TWO SPRINGS THAT GIVES TRIPLE ACTION

As an ATV rider you have most certainly seen a shock absorber with two springs and some of you have seen shocks with as many as three or four separate springs mounted.

The simple reason is the never ending desire to find the optimal riding experience and performance of the vehicle. This ongoing quest results in many solutions, one of them is the inflation of springs.

Öhlins Racing has undertaken numerous tests in the past and our recipe for a well functioning shock absorber is two springs that interacts with different spring characteristics.

The main spring has a progressive force curve which means that the spring behaves different depending on the stroke. The force curve has an exponential design with tuneable points where the characteristics of the spring changes, the so called *Cross Over Points*. The *Cross Over Points* are a well known factor when you trim your ATV to get maximum stability when making fast turns and rolls. This functionality enables the rider to keep the amount of springs on the shock absorber to just two instead of three or four which considerably eliminates the chances of getting an uncomfortable ride with decreased performance.

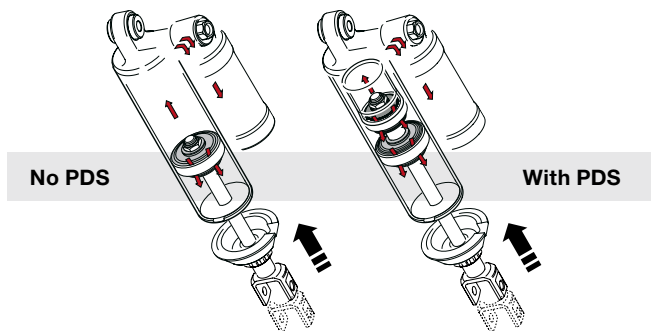
A great thing is that you can change the *Cross Over Points* on the shock absorber thanks to external adjusters without taking off the shock absorber from your ATV.

In fact, the two springs gives us the unique *Triple Rate* functionality because of the two characteristics in the main spring combined with the secondary spring. This functionality will most certainly give the performance and comfort needed on your ATV.



PDS... HOW AND WHY IT WORKS SO WELL

Within every motorsport segment the search for the perfectly balanced chassis continues, sharpening the demands on all suppliers that want to take part of the racing industry. The ATV segment is no exception with heavy vehicles, high speeds and rough conditions pushing the suspension to its maximum.



It was here, out on the track, where the idea for a new type of shock absorber was born. Far too often our ATV test riders pushed it to the maximum resulting in a hard bottoming of the shock absorbers.

The solution to the problem was named PDS, *Progressive Damping System*, and was patented by Öhlins Racing in the mid 90's.

The general idea was to insert an extra secondary piston above the primary piston that would enter a second cylinder in the top of the shock absorber at the end of the suspension travel. This would eliminate bottoming and guarantee a smoother stop when landing hard on the track.

36PC... THE TRUSTY FRIEND

It is one of the backbone products in the Öhlins Racing product range. It is based on well proven materials and first class parts that give good value for money in the end.

The 36PC shock absorber was developed for the ATV segment and has gone through vast amounts of tests on the racetrack as well in our laboratory. The 36PC became the step-in model in the ATV segment because of its well proven performance and durability.

The shock absorber has got the same quality as our top-of-the line products that eliminate fading which is far too often the case with standard shock absorbers.

The shock absorber has got limited possibilities when it comes to external adjustments but this is compensated by a professional basic set-up from our factory. You can of course individualize your absorber with the assist of an Authorized Service Centre.

The optimal way to ensure that you pick up the right shock absorber in your ATV store is to describe what kind of driver you are, the riding technique that you prefer and of course how experienced you are in setting up a shock absorber.

This will maximize your future riding experience.

Go Explore!





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