

CRANKSHAFTS

www.vhm.nl/crankshafts

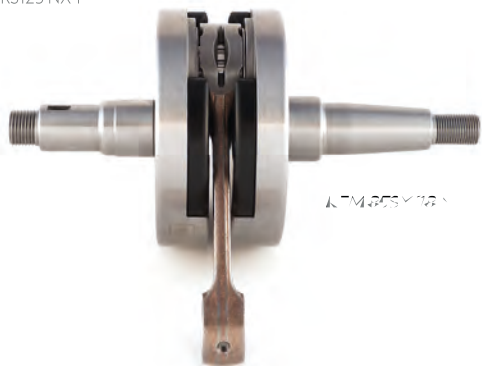


VHM CRANKSHAFTS

VHM crankshafts are designed with a different inertia and balance for a better handling and performance. All VHM crankshafts can be overhauled many times due to the crankwebs that have been heat treated.

- ✔ **Faster lap times** better mid and top over revolutions due to increased inertia
- ✔ **Longevity** can be rebuild many times without losing the strength and stiffness
- ✔ **Accuracy** runout within 0.01mm
- ✔ **Less vibration** due to better balance percentage

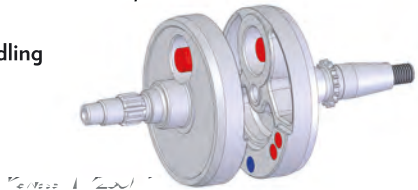
For **MX**: Fantic, GasGas, Husqvarna, KTM and Yamaha
For **roadrace**: Honda RS125 NX4



OEM CRANKSHAFT MODIFICATIONS

We can offer modifications on certain OEM crankshafts for better performance. We then change the balance percentage and inertia of the crankshaft. This results in a better feeling and handling of the bike and leads to reduced vibrations. More info at www.vhm.nl/crankmods

- ✔ **Better feeling and handling**
- ✔ **Reduced vibrations**
- ✔ **Better performance**



PISTON KITS

www.vhm.nl/pistons



VHM PISTONS

VHM pistons are 100% CNC machined from high quality solid billet material. With our Takisawa lathe we are able to turn elliptical shaped pistons with very high precisions.

- ✔ **High performance**
- ✔ **Longevity and keeps performance during lifetime**
- ✔ **Non-circular piston profile**
- ✔ **Resistance to detonation**



DIRECT REPLACEMENT AND SPECIAL MODELS

We produce two piston models. One is a standard, direct replacement model, which can be placed into your engine with no other adjustments needed. The other is a special model for maximum performance gain, which can only be used in combination with a special VHM insert or longer conrod.

For **MX**: Fantic, GasGas, Husqvarna, KTM, TM, and Yamaha

For **roadrace**: Aprilia RSW125, RSW250, Honda RS125, RS250, Yamaha TZ125 and TZ250

For **moped**: Kreidler 50cc air cooled, 60cc air cooled, Malossi 50cc, 50cc Derbi, Minarelli AM6 50cc and Sachs 50cc

For **karting**: TM KZ10, KZ10B, KZ10C, KZ-R1



CDI UNITS

www.vhm.nl/cdi



VHM CDI UNITS

VHM CDI units, map by VHM, units by GET. Specially developed to get the maximum performance in combination with our VHM upgrade kit parts.

- ✔ **VHM map pre-installed**
- ✔ **High power output**
- ✔ **Plug & Play**
- ✔ **Including map switch**



For **MX**: Beta, GasGas, Husqvarna, KTM, Rieju and Yamaha

AIR INTAKES

www.vhm.nl/airintakes



VHM AIR INTAKES

The carbon air intakes are developed for optimum air flow and made of real carbon. There's a massive bottom power improvement for the 4-stroke models. The 2-stroke models improve the top-end.

- ✔ **Optimum air flow**
- ✔ **Prevent the airbox rubber from deforming**
- ✔ **Ensures that mud is evenly spread over the whole airbox**

For **MX**: GasGas, Honda, Husqvarna, Kawasaki, KTM and Yamaha

VHM CARBON AIR INTAKE

The airbox cover does not only look good, it also greatly improves over the whole pover curve, from bottom to top power!

- ✔ **More power from bottom to top**
- ✔ **Optimum air flow**
- ✔ **Very easy to mount**



For **MX**: Yamaha YZ250F and YZ450F

VARIOUS PARTS

www.vhm.nl/variousparts

CONNECTING ROD KITS

Superior conrods for Honda RS125 and RS250.

Also a replica conrod for Aprilia RSW125/RSW250.



POWER VALVE ADJUSTER

Powervalue adjuster with 2 stage spring for KTM 65SX.

Fits VHM head as well as OEM head.



OIL AIR-VENT PLUG

For kart engine TM K9B/C, KZ10/B/C. No oil can flood out, air can still extract and it's easy to mount.



HANDLEBAR STABILIZERS

More stability and 'crash proof', for Honda CR125R / CRF250R / CRF450R (Ø28).



MERCHANDISE

www.vhm.nl/merchandise

VHM STICKERS

VHM thick quality outdoor stickers for on your bike, workshop, van or whatever place you can think of!



VHM SNAPBACK CAP

With flat brim, 3D embroidery and print on front panels, woven label next to adjustable back strap and including sticker!



VHM CURVED CAP

With curved brim, flat embroidery on the front-brim-left panel and adjustable back metal buckle engraved with our logo.



VHM BEANIE

Knitted hat with subtle VHM embroidery on the front for the cold days. Available in white, red, grey and black.



VHM BOTTLE OPENER / KEYCHAIN

Usable as a bottle opener and as a convenient keychain. It's golden colored and laser marked with our VHM logo.



VHM WORKING GLOVES

High grip with slim fit, available in sizes 8, 9, 10 and 11.



2 STROKE ENGINE PARTS

MOTOCROSS | ROADRACE

Special racing products



Cylinder heads | (Custom) Inserts | Pistons | Crankshafts

Crankshaft modifications | Tools | Connecting rods

Air intakes | CDI units | Merchandise | Projects

Technical support

TOOLS

www.vhm.nl/tools

PISTON HEIGHT MEASURING TOOL

To ensure the correct volume and squish, it's important to set the piston height in accordance with the specific piston height value pointed out on our insert boxes.

To assist you with this, we've developed a **piston height measuring tool**, which enables you to measure a positive as well as a negative piston height. The tool consists of an upper and a lower part and comes in **6 different types** for different engine capacities;

- ✔ **85cc** also compatible for many 65cc engines
- ✔ **105cc**
- ✔ **125-150cc**
- ✔ **250cc**
- ✔ **300cc**
- ✔ **500cc**

This tool can be used in combination with a **dial indicator** from Horex, which is not included, but seperately available.

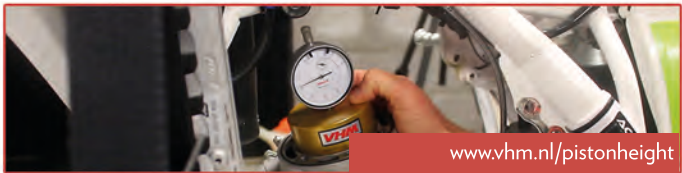
PIPETS AND TAP FOR VOLUME MEASURING

For precisely measuring the volume of the combustion chamber, we have several pipets and a pipette tap available.



TECHNICAL SUPPORT

www.vhm.nl/technicalsupport



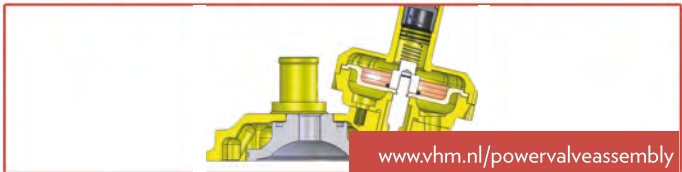
www.vhm.nl/pistonheight



www.vhm.nl/volumemeasurement



www.vhm.nl/squishmeasurement



www.vhm.nl/powervalveassembly



www.vhm.nl/pistonringendgap



www.vhm.nl/mountingairintake



www.vhm.nl/pistoncylinderclearance

CYLINDER HEADS

www.vhm.nl/cylinderheads



VHM CYLINDER HEADS

World famous golden VHM cylinder head with exchangeable combustion chamber. Specially developed for optimal power output during the whole race. The head features special designed water duct for optimal water flow.

- ✔ **More engine power**
- ✔ **Better heat transference**
- ✔ **More resistance to detonation**
- ✔ **Exchangeable combustion chambers**

For **MX**: Beta, Fantic, GasGas, Honda, Husaberg, Husqvarna, Kawasaki, KTM, Rieju, Suzuki, TM and Yamaha
For **roadrace**: Aprilia, Honda, Kawasaki, Suzuki and Yamaha



INSERTS

www.vhm.nl/inserts



VHM HEAD INSERTS

The combustion chamber can be adjusted quickly depending on the track and weather conditions, as the inserts are easy to change. There are various inserts with different volumes available for each head.

- ✔ **Quick to adjust**
- ✔ **Many choices** VHM standard, optional and blind
- ✔ **Custom specifications possible**

VHM standard insert: insert developed for the best overall performance.

Blind insert: you are able to machine the combustion chamber by yourself.

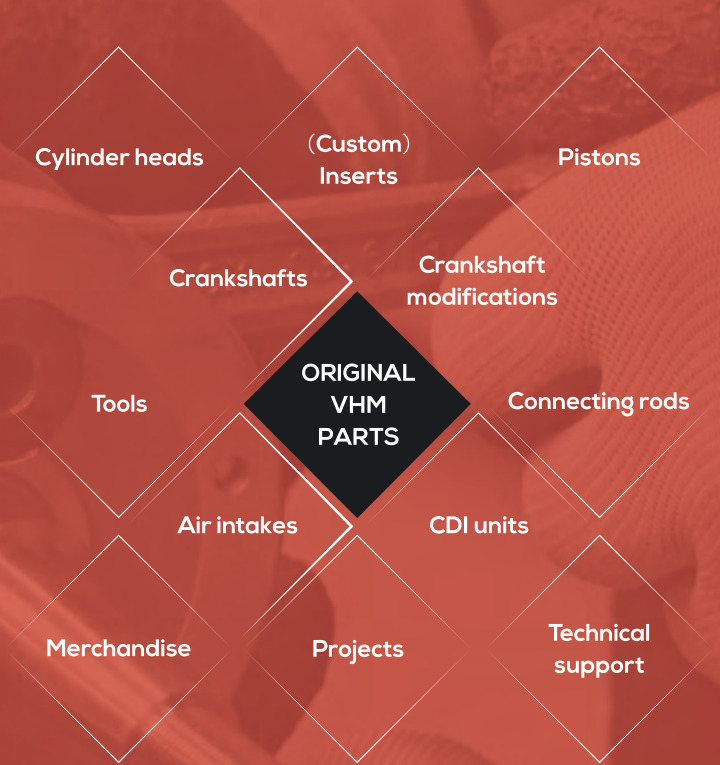
Optional inserts: inserts with varying compression ratios. **Higher compression ratio**, meaning less volume, will result in more low and middle range torque. **Lower compression ratio**, which means more volume, will result in better overrevolution characteristics. This improves speed on fast tracks.

Custom insert: For the tuners and riders who are searching for more power and want to experiment, we also offer custom made inserts according to your specifications. Just tell us the piston height, volume and squish and we can produce all kinds of combustion chambers for you. More info at www.vhm.nl/projects



OEM HEAD INSERTS

Besides the VHM cylinder head inserts we also offer special (custom) inserts for certain standard cylinder headcovers.



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