

Cover

Motorcycles, and conversion kits for BMW GS models. Accessories for the rallye and touring rider. Just everything that makes motorcycling more interesting, more attractive and more active.

Page2**The fascination of riding a HPN motorcycle.**

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Small picture, left: Klaus Pepperl and his partner Alfred Halbfeld.

Front cover : Hubert Auriol on his way to win the Paris-Dakar 1981, riding an HPN produced for the BMW Factory Team.

Since Hubert Auriol won the Paris-Dakar 1981 with a motorcycle prepared by HPN for BMW, HPN in Seibersdorf has been a byword for rallye riders and extreme tourers. The HPN story is a chronicle of the rallye raids. HPN motorcycles won the Paris-Dakar 1981 and 1985, the Rallye Pharaos 1984, classement victories at the Paris-Dakar 1988, Whyhns Safari 1993, Paris-Peking 1995, Paris-Moscow 1997, Munich-Breslau 1997, German Rallye Cup 1997 and Paris-Dakar 1998. Top riders like Hubert Auriol, David Castera, Eddy Hau, Raymond Loizeaux, Marc Morales, Gaston Rahier, Richard Schalber and Ingo Zahn won with HPN prepared BMW's. You can profit from these results. In this catalogue we show you the reasons why HPN motorcycles are that good. Experience the supremacy of our motorcycles. HPN is detail quality not for works riders alone. We have a close personal relationship to our work, which is why our motorcycles are not only built with the best parts available, but also with passion for the details. What does this mean to you?
The fulfilment of your dreams, excellent riding capabilities, highest quality, superior value and a long life for your motorcycle even under extreme conditions.

Page 3**Gaston Rahier, Paris-Dakar 1985 (Overall winner)****Page4****The way to your individual HPN**

Each HPN is unique. On these pages we present different basic concepts for the sporting, connoisseur, adventurer, rallye and touring rider. Follow the creation of your dream bike from the starting line, completed with your personally selected accessories. The basis is a frame of the BMW 247E series (R80G/S from '80, 100GS from '87, R80GS Basic from '96, R80ST and R100R) that is prepared for its new life with HPN reinforcements. You'll notice that the construction of the swing arm largely defines the character and main purpose of our motorcycles. Here is a short survey.

HPN Basis. The owner of a 1987 BMW GS can transform the bike into a exercised *wolf in a sheeps clothing* using the **HPN Basis** components.

HPN/Kronseeder. Some crafty customers have their creativity by attending to numerous details, to create their own personal dream motorcycle.

HPN Baja. For the customer that owns a R80G/S or a R80ST the monolever is the right choice. Various accessories (tanks, etc.) can be used to create motorcycles ranging from the HPN Baja to the long-distance HPN Adventure. All BMW 247E motorcycles are a suitable basis.

HPN Paris-Dakar. The extreme traveller who demands of a motorcycle that is almost unbreakable selects the double swing-arm HPN Paris-Dakar. All BMW 247E motorcycles are a suitable basis.

HPN Sport. The ambitious rider chooses the HPN Sport with paralever swing arm and central-mounted shock absorber that delivers a light sporty motorcycle. All BMW 247E motorcycles from '87 on are a suitable basis.

HPN Rallyesport. For rallye raids the HPN Rallyesport is the right choice, combining characteristics of the HPN Sport with those of a long distance model like the Paris-Dakar, (big fuel tank, front fairing, seat, etc.).

Each version can be purchased as a complete motorcycle or as a conversion kit. You will find the technical specifications in the following pages, and prices on the attached price list. We also are pleased to supply personal information to help you make your decisions. At a scheduled meeting you will, have the opportunity for a test ride.

Phone us on **0049 (0)8571 5300** and ask for Klaus Pepperl.

Or visit our homepage at <http://www.hpn.de>

We produce for our customers, as well as for our own purposes. Therefore we are equipped with a 3-D measuring machine for entire motorcycles, a full range of welding facilities (MIG, MAG, acetylen, electrode), machines for working sheet metal and tubing and suspension components, lathes and milling machines. We have the equipment to build engines and transmissions and to modify. We also work with plastics and construction models. Of course tuning suspension systems for on- and off-road is our job. Designing with CAD systems and performing stress calculations are tasks we perform daily in our development work. For understandable reasons is it not possible.

Even good things can be improved! Here we show you how we reinforce the foundation of an HPN, the frame. We obtain „longer life“ and higher torsional stability and bending strength that you expect from our products. Each step is documented precisely, beginning with the measurements of the frame as delivered, the welding of the reinforcements and the measurements after the straightening procedure. Our quality management has been successfully verified by the German TÜV. In addition we have several patents pending.

Picture: Alfred Halfeld welding a frame. This is high precision work.

Reinforced steering head area, for better handling and higher load capacity.

The reinforced rear section and shock absorber mounting points are designed for the most severe stresses.

The stripped skeleton indicates how the frame is reinforced. You see the reinforcements of the frame. The swingarm area is strengthened as well.

We tune in close cooperation with our customers and if necessary fulfil the strict requirements of German or even swiss homologation. From the light racing engine to the power-boosting engine overhaul to our showpiece, the HPN Boxer engine with 75hp at 1043ccm we offer a wide range of tuning. If necessary in an HPN or BMW street bike, the engine in combination with the HPN Baja muffler fulfills the 80db noise and ECE pollution requirements. The tuning is not limited to the Mahle cylinders and pistons; much attention is devoted to details like sport crankshafts, titanium conrods, special camshafts for more midrange torque and top power, head porting, dual ignition, and precise definition of the compression ratio for the required use. We take the same care your engine when performing an overhaul or repair. Of course we use sophisticated contemporary machinery for valve seat machining.

1. **CDI Ignition generator system.**
Ask for special information as it will be available again in Spring 1999. art.: 340
2. **Sports cylinder heads.** 880g lighter than serial parts. art.: 310
3. **Big bore kit 1040 ccm.** Complete and ready to be mount ad comes with: cylinders with stainless steel pushrod tubes, pistons, head gaskets, shortening of your cylinder bolts and pushrods, shortened intake manifolds, modification of the squish area of your cylinder heads, TÜV certification. Power output depending on compression ratio and accessories ranges from 48 kW (68 hp) to 53 kW (75 hp) (see diagram). Weight savings compared to 980 ccm serial parts and each 1,1 kg the piston is 182 g lighter than the serial part. Engine width is reduced by 26 mm (fits your serial bike -"Serie").art.: 307
5. **Sports crankshaft,** specially produced for HPN, balanced for 1040ccm pistons, weight reduction 800 g "Serie" art.: 304
6. **Camshaft,** 320° OEZ (without camshaft bearing and sprocket) Delivers good midrange torque and good high-end power. (Please do not confuse with BMW 320° camshaft developed to meet swiss noise and pollution emission requirements) art.: 315.1
For sport engines the 332°OEZ camshaft provides very good high end-power but less low-end torque. art.: 315
7. **Titanium conrods** for the 2-valve boxer engine. Exclusively produced for HPN by a Formula1 supplier for Ferrari. Wheight 350g (against 620g stock), complete with bearings for the sports engine. (Note that some delivery time may be required) art.:306
8. **Dual ignition kit** ready to be installed including: Ignition coil, black box, cables, spark plugs, reduction of ignition advance, spark plug holes in cylinder heads, TÜV cert., „serie“ from '81. Please provide the chassis number. of your bike when ordering. art.:303

Many motorcycle magazines have reported on the good. vibration-free of HPN-tuned engines, and have measured increases in power and torque. See chart below.

1. **Choke straps.** Actuation by rubber straps saves weight and makes actuation fool-proof. art.:220.1
2. **Float bowl tether prevents**loss off the float bowl due to contact with the riding boot. art.:711.1
Carburetor breather tube avoids water entering the carburetor when crossing deep water or riding in heavy rain. art.:711.2
3. **Oil cooler set** for models without, necessary when increasing engine displacement and/or adding more power. Oil cooler mounts below the steering-head, complete with all necessary items using original **BMW** parts and **HPN** thermostat with mounting instructions.art.:302.2 Please provide the chassis number of your bike when ordering.
Oil cooler set like art.:302.2 but without **HPN** thermostat. Please provide the chassis number of your bike when ordering.
Oil cooler set to move the oil cooler from the crash bar., where it is exposed to gravel and crash, to below the steering head using original **BMW** parts with mounting instructions. art.:1003 Please provide the chassis number of your bike when ordering.
4. **Oil cooler thermostat** for regulated temperature of your motor oil. The thermostat begins opening at 90°C and is fully open at 110°C. This reduces the time to reach normal operating temperature and does not prevent reaching this temperature under bad weather conditions and in cold weather."Serie" art.:302.1
5. **Rallye oil pan** with aluminum bottom plate. No more cracked oil pans when hitting ground or rocks. Race-proven item with a lighter conical spacer ring. "Serie" art.:314

Caution! There are often problems based on incorrect parts when changing oil filters. Engines of the GS series 87-96 need no paper gasket under the filter cover. If a gasket is installed the consequence may be severe motor damage due to low oil pressure and excessive oil temperature. Please follow the mounting instructions, and if you are not sure ask your dealer or HPN.

6. **Valve cover** modified to be bolted from outside ends the fumbling around with washer and nut between the cooling fins, especially amusing on a hot engine. art.:322
Not shown: Valve cover modified like Art.:322 and cut in two, so even on extreme tours you need only one half for replacement. Only possible with the round cover as shown. art.:323
Not shown: Light valve adjuster light with a 4mm allen head and light lock nut, weight savings about 5g/per piece. art.:330.1 and 330.2
Aluminum rocker shaft stand weight reduction about 48g/per piece, total 385g art.:330
Light Rocker shaft light weight reduction 26g/per piece total 104g art.:330.4
Aluminum valve spring retainer weight reduction about 8g/per piece. Caution: under extreme conditions you must expect reduced life of the aluminium retainers. art.:330.5
7. **Spark plugs** with resistors to prevent interference with electronic equipment art.:319.1
7. **Spark plug caps** watertight with 5kOhm resistor art.:319.13
7. **Spark plug caps** with 5kOhm resistor art.:319.22

HPN can tune the transmission and clutch of your bike as well. The clutch is modified with a reinforced friction plate and more pressure to cope with higher torque and bad running conditions in deep sand and dust. The transmission can be fitted with additional magnets to trap steel particles; art.: 401.5 (without picture). With different gear ratios, we can adapt your transmission to your ideas. First gear can be lowered for consumption, and for touring riding we can provide you a tall fifth gear for lower engine speeds and fuel consumption. We take care of your faulty transmission and modify older transmissions to the latest specs. Corroded gear boxes look like new after glass blasting treatment. **All our gears are ground after hardening and meet closer tolerances than stock items. They are manufactured exclusively for us by a German gear manufacturer to HPN requirements. Sophisticated measuring equipment assures the superior HPN quality.**

1. **Tall fifth gear** in picture left. Ratio increased 5%. Caution: Can be installed without other modification in gearboxes made after 4/82 due to 17.5° angle*. Marked on the gear „X“. art.:404**
 *Earlier models can be changed to this much more durable gear type, as we also produce the **intermediate shaft gear** with the 17.5° angle. art.:403** In addition you will need the **input shaft gear** with 17.5° angle. art.403.1**
Short first gear in picture right. Ratio change -5%.art.402

*** Please provide the chassis number of your bike when ordering.*

2. **Drive shaft for HPN Sport** with rubber torsion damper and enlarged working angle.art.:406.3
Cardan shaft adapter for HPN Sport. art.:406
Adapter ring for HPN Sport art.:406.1
3. **Cardan shaft for HPN swing arm** 100mm lengthened by friction welding.art.:103
4. **Extremely light weight transmission parts for a BMW Sixdays GS.**
5. **Complete transmission internals reworked at HPN.**
6. **Racing friction plate** for highest torque motors and also offroad or B.O.T. racing art.:312 For installation on a 100GS engine the following are also required: **Pressure plate** art.:312.1 **Spring** art.:312.3
7. **Gear shifter** modified art.:401.6

Without pict.: Gearbox breather plug installed at the speedometer connection allows the gearbox to vent through a tube, „waterfree“.art.:407

Without pict.: Gear oil for gear boxes with shifting problems, we can sometimes avoid opening the gearbox and finding nothing! art.:405.1

1. **White Power Forks:**
 Special built by WP-Suspension for HPN: 300mm of travel, adjustably rebound and compression damping, equipped with CNC-machined triple clamps, steering stem, handlebar mounts and dustcovers. Available in three different versions:
HPN1 for the Brembo 4-piston caliper, art.:609.1
HPN2 for BMW GS front wheel and brake from '88, (can be fitted with dual front discs), art.:609.2

HPN3 for BMW G/S '81 to '87 for original front wheel and brake complete with front axle and fittings for BMW dual disk brake. art.:609.3

Forks for BMW motorcycles:

BMW G/S to '87 220mm of travel with all fittings for dual disc brakes (brake parts not included) art.:1007.1

BMW GS from '87 220mm of travel with all fittings for dual disc brakes (brake parts not included) art.:1007

Other variations upon request!

Marzocchi forks for HPN motorcycles:

2. **Marzocchi M1**

A limited number still available, and in price still an unmatched choice for G/S Basis. All parts subject to are available, 42mm stanchion diameter, 280 or 300mm of travel ready for the Brembo 4-piston caliper.art.: 603

3. **Marzocchi Magnum 50mm** complete with triple clamps modified for HPN BMW. 285mm of travel, adjustable compression and rebound damping, for single disk only.art.: 611
For dual front disk upon request.

Brake caliper mount for Brembo 4-piston caliper. art.: 611.22

Brake caliper mount for BMW GS serial brake art.: 611.21

White Power shock absorbers

5. **For HPN Paris Dakar double swing arm** with cast-on reservoir adjustable compression and rebound damping art.:601

6. **For HPN mono swing arm** with reservoir, adjustable compression and rebound damping art.:602
For HPN Sport, hydraulic spring base with reservoir, adjustable compression and rebound damping art.: 610

For BMW G/S to '87 without reservoir,* adjustable compression damping. art.:605

For BMW G/S to '87 with reservoir, adjustable compression and rebound damping** art.:605.1

For BMW GS from '87 without reservoir,* adjustable compression damping. art.:1005

For BMW GS from '87 with reservoir, adjustable compression and rebound damping ** art.:1006

**Only for street or touring use.*

*** For difficult touring and gravel roads or African conditions*

7. **Fork boots for Marzocchi forks** prolong the life of oil seals, a must for enduro and offroad.

Damping inserts (Pict. 4) The adjustable damper inserts make the advanced damping technology of the Marzocchi Magnum available for your serial front fork. Complete with all mounting accessories for BMW GS from '87 art.:1009

Fork springs for offroad use and heavily loaded touring.

For BMW G/S to '87 art.:606

For BMW GS from '87 art.:1004

For HPN GS with WP upside down fork art.:609.1

For HPN GS with Marz. Magnum fork art.:611.01

For HPN GS with Marz. M1 front fork art.:603.01

Repair set Marz. M1 art.:603.2

Spares: Fork boots - oil seals - dust seals - top bushings - bottom bushings - dekor - fork oil

8. Upper triple clamp

8. Lower triple clamp

Upper triple clamp for WP forks HPN2 and HPN3

Lower triple clamp for WP forks HPN2 and HPN3

Other spares upon request.

We offer a wide variety of accessory parts optimize your **HPN GS** for all different purposes. Some parts require special mounting points at the frame or subframe and therefore should be considered in advance. For accessories as for everything are do, Top Quality is the main goal. Many of our accessories will fit a stock motorcycle also, to improve endurance, range and comfort of your bike.

Note: Parts that can be used on stock BMW GS motorcycles are marked with the suffix „Serie“.

1. **Paris-Dakar front fairing** with a 180mm headlight for best vision at night and in fog or sandstorms. Installation of BMW accessory instruments is no problem. You will need mounting points at the steering head, so please consider this when ordering modifications of your frame. An adapter plate can be used to mount this item on a serial 80/100GS post'87. See the HPN Paris-Dakar models and Rallyesport model on page 5 for illustration. art.:107
Sport front fairing the small sporty windshield. Equipped with a rectangular head light with H4 bulb, to light your way. See the HPN Sport model on page 5 for illustration. art.: 228
2. **Adventure front fairing** handlebar mounted, shown on page 4 on the model.
2. **Adventure front fairing** with mounting brackets for serial bikes art.: 106, please provide the chassis number of your bike when ordering.
 HPN Adventure. art.: 106

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3. **Handguards** with aluminum mounting bars give you maximum protection and shield the brake and clutch levers. The plastic comes: black, white, red and blue. The following list gives you the model/type combination.
4. **CFK Generator cover**, gives you a weight saving of 500g and a distinguished look. art.:317
5. **Header cover R100R** made from high quality CFK gives your bike the individual touch. art.:713.1
Front section GFK laminate rear fender fits Baja fender for HPN R80/100 conversion kit. It closes the gap between the Baja fender and the battery. Without pict. art.: 205.4
Front section GFK laminate rear fender fits Baja fender for HPN Basis subframe or BMW80/100GS subframe. Without pict. art.: 205.5
13. **Toolbag** with mapholder to fit all HPN 43l tanks. Toolbag can be easily removed from the bolted-on bottom plate. (protection against stolen tools). art.:903
6. **Acerbis Baja Rear fender** with taillight and licence plate holder has room for 140 rear tire. White Art.:205.3; black art.:205.31. Can be installed on a stock bike by an experienced mechanic, order art.: 205.5 in addition.
7. **HPN Rear fender** available in white polyethylene art.:205 or black paintable ABS. art.: 205.01
Taillight with street homologation art.: 212
Left and right indicators for HPN bikes or stock BMW bikes (See page 4, HPN Baja) art.:113/114 **Fixtures for 113/114** art.:114.1
8. **HPN tank 43l** polyethylene tank unmatched in ergonomics, low center of gravity and rigidity, it has proofed its merits on countless extreme tours and rallye events. Tank comes complete with all necessary parts including petcocks, gaskets, etc. Available in: white art.: 201; black art.: 201.01; red art.: 201.02; blue art.: 201.03.
 HPN tank in the same form and size in paintable nylon (polyamid). art.:201.1
Attention: BMW motorcycles with the oilcooler mounted at the crashbar must be modified to position the cooler below the steering head. Conversion kit Art.:1003. For the BMW Paris-Dakar or GS models post 91 we offer a modified front bar with black powder coating on exchange basis. art.: 201.3 please provide the chassis number of your bike when ordering.
Mounting kit for the HPN tank on a BMW serial bike. art.: 202
Mounting kit for the HPN tank on an HPN motorcycle art.: 201.2
9. **Lockable Filler cap** for Nylon tank art.: 214.3
Lockable Filler cap for polyethylen tank art.: 214.8
9. **Water bottle** with brackets for mounting at the handlebar art.: 209
10. **Water tank** ca. 4,5l situated below the seat for HPN motorcycles. art.:204
Mounting set for water tank. art.: 204.1
11. **Rear auxiliary tank 7,5l** (TÜV homologation)for mounting at the subframe of HPN motorcycles only with (low exhaust) polyethylene in **white** art.: 203.3, **black** art.: 203.4, **red** art.: 203.2, with molded-in nuts to mount the leather bag.
12. **Leather bag** for HPN rear tank available in 10cm; 12,5cm and 15cm heights. Art: 902

Large photo: Raymond Loizeaux in Mongolia on his way to Peking.

Small photo: A meeting in Mongolia, Paris-Peking '96

1. **Unsatisfied** with your BMW rear drum brake? The HPN floating brake cam with modified brake liners is the solution to this problem. Now you can trust your rear brake. **Conversion kit comes with:** floating brake cam, springs, damping rubber, homologation papers and mounting instructions. **Brakes are safety parts. If you are uncertain ask HPN or your dealer to install the parts for you. When ordering these parts, please supply chassis number, type and model of bike, and a description of existing modifications.**

R60/7 to R100RS from 5/77 to 8/80 Brake

actuator, 103mm long art.: 802.1

For top-mounted brake lever art.: 802.1 H

R80 to R100CS from 9/80

Brake actuator, 120mm long art.: 802.2

For top-mounted brake lever art.: 802.2 H

R80G/S,R80ST,R65GS

Brake actuator, 125mm long art.: 802.3

For top-mounted brake lever art.: 802.3H

R80GS to R80GSbasic from 6/87 to '96

Brake actuator, 134mm long art.: 802.4

For top-mounted brake lever art.: 802.4 H

Unsatisfied with the BMW brake? HPN has the solution to your problems.

2. **Brake disc R80/100GS** with 285mm floating cast steel disc, delivered on an exchange basis with brake pads and homologation papers. art.: 804.1
Spare brake pads: art.: 804.2
Without picture Brake disc with 260mm floating cast steel disc, delivered on an exchange basis for **BMW R90 to BMW R100RS** with brake pads and homologation papers. art.: 804.5, please provide the chassis number of your bike when ordering.
Spare brake pads: art.: 804.6
Without picture Brake disc with 260mm floating cast steel disc, delivered on an exchange basis for **BMW R80G/S and R65GS** with brake pads and homologation papers. art.: 804.3, Spare brake pads, art.: 804.4, please provide the chassis number of your bike when ordering.
3. **260mm Brake disc** for HPN G/S conversion kit art.: 805
Spacer ring to install Art.: 805 in combination with G/S front wheel and Marzocchi M1 front fork
4. **Brembo 4-piston caliper** for HPN conversion kits, for use see the conversion lists. Art.: 801
Without pict. brake pads for caliper 801. art.: 810
Without pict. pins and spring to hold the brake pads in the caliper 801 art.: 810.1
Without pict. vent plug with cap for caliper 801. art.: 810.2
Without pict. rebuild set for caliper 801 art.: 810.3
5. **Krontec brake hose type RTEC G3** Quality brake hose that doesn't let you down. Stainless steel outer braid, connectors and banjo bolts. Manufactured for all HPN kits, serial motorcycles and special constructions. Oil lines are manufactured to order in aircraft aluminum. Please order with exact type or send us a sample.
6. **Brake actuation from top** for BMW R80G/S or G/S based kits. Brake cam supplied in exchange with special brake liners and TÜV homologation. art.: 807 and art.: 811
7. **Brake actuation from top for BMW R80/100GS:**
Pre 9/88 Brake cam supplied in exchange with special brake liners and TÜV homologation. art.:1010
Post 9/88 with TÜV homologation art.: 1010.1
Brake liners pre 9/88 Art.: 1010.2
Without pict. Brake cable for HPN G/S Art.: 808
Without pict. Brake cable for BMW G/S Art.: 808.01
Without pict. Brake cable for BMW G/S swing arm, 50mm longer (Schek) Art.: 808.02
Without pict. Brake cable for HPN G/S (Bowden cable) complete with necessary mounting parts. Art.: 814

Without pict. Brake cable for HPN GS (Bowden cable) complete with necessary mounting parts. Art.: 808.1

Without pict. Brake cable for HPN Sport or HPN Rallye Sport (Bowden cable) complete with necessary mounting parts. Art.: 808.2

1. **Battery charger.** No more dead batteries at the start of the season or after an extended driving break from riding. The battery is always fully charged and will last longer. For lead batteries with capacities from 2.5 to 100 Ah for continuous charging, for motorcycle batteries for recharging also. Short circuit protection. LED indicators for function, faulty connection, connector short circuit and dead battery. The charger can be used in garages etc. and can be attached to the wall.
Continuous charger with connection pliers. art.: 940.1
Continuous charger with plug for your (plug-in) socket for easy connection without any dismantling. art.: 940.2
To revitalize sulfatized batteries, use the **continuous charger with connection pliers** art.: 940.3
For other data see pos.: 1
Without pict. installation set for plug-in socket, comes with splash-proof plug-in socket, cables, fuse and installation material. art.: 940.4
Without pict. adapter set for chargers with plug in socket to charge batteries that are not installed in the motorcycle via connection pliers and battery terminals. art.: 940.5
2. **Racing air filter kit** complete with special filter cartridge for dusty areas „Serie“ (Stock filter housing not included) art.: 705
Filter cartridge art.: 706
Filter cartridge for street use (Not for dusty areas) art.: 706.2
3. **Filter cartridge** made from special filter paper for give cleaner air, to be used in stock motorcycles in dusty areas. art.: 705.1
4. **Battery 8Ah** maintenance free, the right lead battery for rough use, vibration-proof, good starting performance, low weight. art.: 941
Battery carrier „stainless steel“ BMW R100GS to hold battery art.: 941 „Serie“ art.: 942
Holder rear mudguard for art.: 942 „Serie“ art.: 942.1
Holder fuse box for art.: 942 „Serie“ art.: 942.2
Battery carrier „stainless steel“ for HPN Sport for battery art.: 942. art.: 943
Battery carrier „stainless steel“ for HPN Paris-Dakar for battery art.: 942. art.: 944
5. **Silencer HPN Baja**
Completely stainless steel with CFK shields, comes with gasket, footpeg holder and all mounting parts. TÜV homologation with 80db with all serial engines and HPN 1043 engine.
Fits BMW R80/100GS and R80GS basic. Front strut of the BMW pannier mount must be bent slightly. art.: 714
6. **Exhaust system R80**
The classic system for BMW G/S pre '87 (centerstand and sidestand must be modified) and HPN 1-Arm and 2-Arm kits. Silencer in stainless steel. BMW homologated for use with R80G/S and R80ST. art.: 701
Without pict. Mounting brackets for exhaust R80 with foot rest holder and brackets. art.: 702
7. **Carbon fibre heat shield** for R1100GS exhaust: the luxury look for your BMW. art.: 715
D you have questions about an item? Give us a call on 0049 (0)8571 5300, Monday till Friday at 4.00 - 6.00 o'clock pm.

Gaston Rahier enjoys the tea break in front of the city of Agadez. Paris-Dakar 1985

8. **Racing exhaust** (stainless steel) These silenced megaphones have been developed for rallye racing, and deliver maximum torque and power at minimum weight. (without TÜV homologation.) art.: 707.3
9. **Seat.** We can do a lot, from upholstering for the tall guy to reducing seat height for smaller people. Using new foam we renew your seat and with genuine leather cover we make your riding a pleasure. Please ask for detailed info.

Solo seat with genuine leather cover a demonstrates its qualities on long-distance tours. art.: 924.3

Without pict. Raincover for solo seat art.: 924.4

Without pict. Dual seat with genuine leather cover art.: 924.1

Without pict. Raincover for dual seat art.: 924.5

10. **Auxiliary seat** mounted on the luggage carrier makes a passenger seat on an HPN single seater. art.: 904.21

Without pict. Seat mount kit* art.: 912

** The seat mount kit is needed for HPN motorcycles. It does not fit in combination with the rear auxiliary tank; in this case use rubber straps. art.: 220*

Without pict. GFK insert for converting the seat pan of a standard seat to the HPN version. It permits allows the needed tire clearance below your seat.

G/S or basic seat art.: 913

R80/100GS seat art.: 913.1

11. **Luggage carrier** behind solo seat; different versions available. art.: 904.9

1. **Brake unit Brembo** in combination with throttle grip Magura Duo, switch and cables, ready to be installed for BMW or HPN GS. art.: 820
Item mounted on handlebar, see pict.4.
Brake master cylinder Brembo 13mm diameter. art.: 818
Throttle grip Magura Duo machined to fit BMW or HPN GS. art.: 820.1
Indicator witch ready to be mount. art.: 820.2
Without pict. Short lever for Brembo master cylinder, to mount it in combination with handguards. art.: 818.1
2. **Clutch lever Magura Sport.** The version shown is no longer available but Magura has a replacement in production. art.: 821
3. **Moose rubber** art.: 905
Without pict. Aluminum handlebar see Baja photo on page 4. art.: 820.2
Without pict. Switch art.: 820.2
4. **Magura throttle grip and Brembo master cylinder** installed.
5. **Front wheel 21"** for extreme loads, built with a Brembo hub and thick M4,5 spokes, rim 1.85 x 21"; shown with floating brake disc (Art.: 804) and Michelin tire, both not included. art.: 510
6. **All rear wheels are prepared for tube-type tires up to 140mm width.**
Rear wheel 18" for double swingarm rim width 2,75" or 3.00", spokes M4,5 art.: 511.4
Rear wheel 17" for double swingarm rim, with 2,75" or 3.00", spokes M4,5 art.: 511
Rear wheel 18" for mono swingarm G/S with three-bolt hub, rim width 2,75" or 3.00", spokes M4,5 art.: 511.6
Rear wheel 17" for mono swingarm G/S with three-bolt hub, rim width 2,75" or 3.00", spokes M4,5 art.: 511.5
Rear wheel 18" for HPN Sport with four-bolt drum brake hub (R100GS), rim width 2,75" or 3.00", spokes M4,5 art.: 511.62
Rear wheel 17" for HPN Sport with four-bolt drum brake hub (R100GS), rim width 2,75" or 3.00", spokes M4,5 art.: 511.52
Rear wheel 18" for HPN Sport with four-bolt disc brake hub (R1100GS), rim width 2,75" or 3.00", spokes M4,5 art.: 511.63
Rear wheel 17" for HPN Sport with four-bolt disc brake hub (R1100GS), rim width 2,75" or 3.00", spokes M4,5 art.: 511.53 See HPN Sport photo on page 5.
Rear axle for double swing arm HPN special part to fit our swingarm width. art.: 512
Front axle 15/17mm diameter keep Art.: 510 and Marz.M1 fork art.: 514
Front axle 17mm diameter for front wheel **BMW G/S** and Marz.M1 fork art.: 514.01
Front axle 15/17mm diameter for front wheel Art.: 510 and Marz.Magnum fork art.: 514.02
Front axle 17mm diameter for front wheel **BMW G/S** and Marz.Magnum fork art.: 514.03

Front axle for front wheel **BMW R80/100GS** and Marz.Magnum fork
art.: 514.04

7. **Front tires:**

Michelin 3.25-21 T61 art.: 502
Michelin 90/90-21 Desert art.: 506
Other brands and models upon request

8. **Rear tires:**

Michelin 140/90-17 Desert art.: 509
Other brands and models upon request

Tubes:

17"/18"/21" art.: 503
Heavy duty 17"/18"/21" art.: 503.2

„BIB MOUSSE“ tire mousse for use in Michelin Desert for 17"/18"/21" for racing is available. For not recommended touring due to restricted lifetime. Ask about delivery time!

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Rallye accessory

1. **ICO tripmaster**

All works riders use this rugged, small, light and reliable instrument. It provides the following functions: km counter (adjustable forward and backward during the ride), speed, clock, stopwatch, topspeed. Adjustable for front wheel size with 1cm accuracy. You can manipulate the tripmaster using the remote control without removing the hand from the handlebar.

art.: 919

Without pict. **Tacho illumination** makes the tachometer readable at night.

art.: 918.11

2. **Motorcycle computer IMO-100R** by Touratech. This unit replaces all instruments. You can choose between two indications. The instrument can display: speed, rpm., clock and total mileage. Switched to rallye computer it can display: Total distance (adjustable by remote control), resettable distances and time. Total and partial distances can be displayed in either large or small numerals.
art.: 919.2

Motorcycle computer IMO-100R300 can display the following measurements in addition to those of the IMO 100R: date, short distance with average speed, daily mileage, long distance, finish distance, tankstop distance with average mileage calculation, acceleration measuring, top speed, stopwatch, ambient temperature, engine temperature and battery voltage. art.: 919.2

Motorcycle computer IMO-100R Sport can display the following measurements: speed, rpm., shift indication, clock, date, total mileage, 2 shorttracks with average speed, counter, finish distance, acceleration measuring, topspeed, stopwatch, ambient temperature, engine temperature and battery voltage. art.: 919.03

All Touratech motorcycle computer have TÜV homologation and the following dimensions: Length 120mm, width 80mm, height 34mm.

Remote control FB Standard fits all IMO instruments. art.: 919.21

Without pict. remote control FB Pro fits all IMO instruments. art.: 919.211

Without pict. remote control FB Rallye art.: 919.212

4. **Signal lights by LED's** with the necessary items for BMW R100GS measurements: Length 50mm, width 30mm, height 26mm. art.: 919.22

dito with the lights in a line measurements: Length 80mm, width 18mm.

art.: 919.221

Adapter to mount different combinations of roadbook, motorcycle computer and signal lights are available upon request please ask us.

GPS: Due to rapid change in GPS models, we will supply current info upon request.

3. **Electric roadbook**, all racing riders trust this roadbook. Operated from the grip with back and forward motion. art.: 918

Without pict. Roadbook illuminat or for shade free illumination of the roadbook script from the back, complete with mounting hardware. art.: 918.01

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Touring accessory

Accessories for short or long trips selected to meet air standards of quality.

1. **Leather tankbag** made with excellent craftsmanship, designed for offroad use with additional sidestrap mounts. Cover has map enclosure. Bottom plate mounts to HPN tank. Attachment on both sides assures correct position of the tankbag even under hard offroad riding. Dimensions: Length 340mm, width 230mm, height 250mm. art.: 950
2. **Leather side bags** for the HPN tank can accept 3-4l containers. Dimensions: Length 210mm ,

- width 170mm, height 300mm art.: 950.1
3. **Mikesh Hiker the Rucksack/Hipbag combination** holds 10l. This rucksack can be folded up and carried as a fanny pack. The back and straps are well padded, the straps are contoured for the best fit, there are pockets for coins and little things at the belt, and the pack has reflective stripes for safety. Black only. art.: 955
 4. **Mikesh rucksack Niagara '97 „watertight“**, volume adjustable from 25-33l. Two incorporated plastic bags make it watertight, for drying they can be turned inside out. Cover and front pockets are watertight also. The side pocket can hold long items fixed by a velcro strap. The curved straps with buckles make it easy to handle the rucksack even when dressed with protectors or rain suit. You can remove the adjustable hip strap and attach your rain suit or insulation mat with the front straps. Colours: black and black/petrol. art.: 955.1
 5. **Niagara '98**, like the '97 model but the inner cover has a shielded zipper, adjustable sternum strap, reflective stripes. Colours: black, black/petrol, black/red. art.: 955.2
Without pict. Mikesh rucksack Michigan „watertight“, 18l volume other features like the Niagara. Colours: black, black/petrol, black/red. art.: 955.3
 6. **Ortlieb Rack-Pack**, the adjustable, reliable, watertight motorcycle bag. The unique closing mechanism safely holds back rain and dust. The Rack-Pack comes with detachable shoulder straps and comfortable grips. You can use it as travel or sport bag also. For sizes see prize list. art.: 960
 7. **Ortlieb Heavy Duty Packsack**. A tough and durable bag to hold your tent, insulation mat and sleeping bag. They are even more rugged than the Rack-Packs. For sizes see prize list. art.: 960.1
 8. **Ortlieb Waterbag**, the sturdy alternative to plastic or aluminium containers, packs flat when empty. For sizes see prize list. art.: 960.2
 9. **First Aid Kit**, specially designed for the motorcycle rider, can be strapped to your belt or to your bike. With strap, colour red. art.: 960.4
 10. **Document bag**, clear plastic bag with watertight velcro closure. Extremely tear-resistant material, flexible and resistant to aging, it can take tropical heat or polaric cold. For sizes see prize list. art.: 960.3
 11. **Functionbelt**, the hip belt with practical details, can be used as touring or tool bag, detachable pockets. Art.:955.4
 The ideal completion: **Superbottle**, an unbreakable bottle for hot or cold liquids, holds 0,75l art.: 955.6
Bottle cover: Insulation for the Superbottle. art.: 955.6
Tooly the tool roll with the quick tie. art.: 955.7
 12. **Paris-Dakar 20 ans**. „The book“ with the story of the ups and downs in the history of the „Dakar“. Year by year with routes, participants and results; such beautiful photos that even people unable to read French will find it a joy. Only a limited number available! art.: 923.1
 13. **Sahara** by Herbert Worm, motorcycle adventures and touring in North and West Africa. Use full advice (equipment for rider and machine, GPS.....) along with exciting travel stories. art.: 923