

BID FORM

Section 1 – Schedule of Prices

Company: European Motorcycles, llc dba BMW Motorcycles of SE MI

Project: **Two Wheeled Police Motorcycles, ITB – 4646**

Quantity: **Four Motorcycles**

Police Motorcycles – Please indicate the requested information listed below:

Model Year: 2020

Model: BWM R1250 RTR-P

Mfg. By: BMW

Supplied By: BMW via BMWMCSEM

Motorcycle Rated Radar Model: Raptor RP-1 Single K-band Antenna

Mfg. By: Kustom Signals, Inc.

Supplied By: Kustom Signals via BMWMCSEM

P.A. Compatible Siren Model: BMW Proprietary Siren

Mfg. By: BMW

Supplied By: BMW as standard on R1250RT-P

Price per Motorcycle as specified \$ 25,260.01

Grand Total for Four Police Motorcycles

TOTAL BID \$101,040.04

+ 1,416.00

DUAL ANTENNAE UPGRADE (SEE ATTACHED)

9
\$ 102,456.04

CERTIFICATION: We hereby certify that unless otherwise stated the "Two Wheeled Police Motorcycles" in the bid are new, in unused condition and will meet or exceed your specifications in every respect.



Authorized Representative's Signature

John W. Horner _____
Printed Name

BID FORM

Section 2 - Delivery and Service

DELIVERY PROCEDURE OF COMPLETE UNIT: Units must be delivered ready for immediate operation. This includes oil in engine, oil filter filled, plastic removed, tools and equipment mounted, etc., and unit thoroughly washed.

The above service will be performed by: BMW Motorcycles of Southeast Michigan

DELIVERY: Delivery of the four Police Motorcycles is desired as soon as possible. At a minimum the units should be delivered within 90 calendar days after receipt of purchase order.

We can meet delivery schedule.

We cannot meet the above delivery schedule, but we offer the following:

NOTE: The City of Ann Arbor reserves the right to reject bids which offer an unsatisfactory delivery schedule.

DELIVERY LOCATION: The vehicle as specified should be delivered F.O.B. Destination, freight prepaid to the following location:

City of Ann Arbor
Fleet & Facilities Unit
4251 Stone School
Ann Arbor, MI 48108

PARTS AVAILABILITY: Repair parts are should be available within 24 hours after order.

We can meet delivery. During Normal Business hours

We cannot meet the 24 hour limit, but offer the _____

_____ following:

NOTE: The City of Ann Arbor reserves the right to reject low bids which do not offer satisfactory parts availability.

PARTS DISCOUNT: Vendor shall allow a 10 % discount on parts, which are not covered during the warranty period or after the warranty, has expired.

SERVICE AVAILABILITY: Vendor hereby certifies that service is available for the units quoted in this ITB, within 24 hours after a request is made:

 X We can meet service schedule.

 We cannot meet the service schedule, but offer the following: _____

SERVICE LOCATION: The above services will be performed by:

BMW Motorcycles of Southeast Michigan _____

Address: 14855 Sheldon Rd Plymouth, MI 48170 _____

Telephone Number: 734.453.0500 _____

Contact Person: Michael Glinski _____

The vendor is open for hours of business (service only) from 9 A.M. to
 6 P.M., Monday to Saturday

telephone number: 734.453.0500 _____ for service calls.

NOTE: The City of Ann Arbor reserves the right to reject low bids which offer unsatisfactory service availability or service location.

BID FORM

Section 3 – Warranty and Training

WARRANTY: The motorcycles shall be warranted a minimum of thirty-six (36) months / 60,000 miles of actual use or the manufacturer's standard warranty if greater.

The Police Motorcycles quoted in this ITB are guaranteed for 36 months / 60,000 miles of actual use.

TRAINING: The winning vendor shall hold a training seminar at a time agreed to by both The City of Ann Arbor and Vendor on the proper operation and all safety practices that need to be followed when operating these motorcycles for all current employees using the vehicles.

In addition, the vendor shall arrangement training for a minimum of two (2) mechanics from the Fleet & Facilities Unit to attend a factory sponsored maintenance and repair classes for the brand of motorcycle offered.

X Yes, we will provide training at No Charge

No, we cannot provide training at no charge but will provide it for a total charge of \$.

Please indicate what is provided for total training charge listed above:

Registration Yes

Travel No

Lodging No

Meals No

GENERAL CONDITIONS

PROJECT SUMMARY

The City of Ann Arbor is looking for a single vendor to provide four two wheeled Police motorcycles in accordance with the specifications provided in this documentation.

BASIS OF DESIGN/ USE OF SPECIFIC PARTS OR EQUIPMENT

The City of Ann Arbor has noted manufacturer and model information throughout the detailed specifications as "basis of design." These manufacturer's and models are acceptable to the City or the vendor can provide an equivalent or better product. The City of Ann Arbor shall be the sole decision maker on an "equivalent" product. The City has noted "No substitutions" on certain products or components throughout the detailed specifications. As the City is standardizing certain components in our Fleet, a manufacturer or model noted as "No substitution" **must** be provided as specified.

DELIVERY

Equipment is to be delivered, with the cost included in the base bid, to the City of Ann Arbor Wheeler Service Center, Fleet Garage, located at 4251 Stone School Road, Ann Arbor, MI.

DOWN PAYMENTS

Any bid proposal submitted which requires a down payment or prepayment of any kind prior to delivery and acceptance of the item, as being in conformance with the specifications will not be considered for award.

MANUALS

Successful vendor to provide one complete set of service, parts, operations and maintenance manuals per unit. Wiring schematics, service manuals and operator's manuals shall be supplied in printed form. Parts manuals will be acceptable on CD.

PURCHASE ORDER

The successful bidder will be issued a purchase order from the City of Ann Arbor, which will create a bilateral contract between the City and the successful bidder. The purchase order shall commit the bidder to perform the contract in accordance with the specifications and the terms and conditions of the purchase order.

The terms and conditions of the Purchase Order are provided herein.

DETAILED SPECIFICATIONS
Two Wheeled Police Motorcycles

The delivered unit **MUST** meet or exceed all MIOSHA Standards in place at the time of delivery.

<u>QUANTITY</u>	<u>DESCRIPTION</u>	
Four (4)	NEW 2020 OR 2021 BMW MODEL R-1250 RT-P MOTORCYCLE DESIGNED AND BUILT FOR THE USE BY LAW ENFORCMENT AGENCES OR APPROVED EQUALS TO BE EQUIPPED AS FOLLOWS:	
<u>ITEM</u>	<u>SPECIFICATION</u>	<u>MEETS SPECIFICATIONS?</u>
<u>OPERATORS COMPARTMENT:</u>	Operator's area to include: Front fairing with motorized windshield. Water proof, heated seat with height adjustment. Heated hand grips. Note pad holder. Full color TFT dashboard with adjustable angle to eliminate glare, and at a minimum the following High/Low indicator, Speedometer, RPMs, turn signal indicator, radio head mounting bracket.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<u>ENGINE:</u>	2 cylinder, 4 valve head, twin motor with a minimum of 1,000 cc displacement and 125 bhp @7,500 rpm.	<input type="checkbox"/> Yes <input type="checkbox"/> No <u>1250</u> CC <u>134</u> BHP At <u>7750</u> RPM.
<u>COOLING SYSTEM:</u>	Engine cooling system shall include a combination of liquid and air cooling with an air flow management that directs engine heat away from operator. Engine to be equipped with factory installed thermostatically-controlled radiator cooling fan	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No

<p><u>TRANSMISSION:</u></p>	<p>Minimum of Six Speed using constant mesh gear design with neutral indicating light easily visible to operator.</p> <p>A curb side rocker type foot shift lever designed to be operated by toe or toe and heel and shall not interfere with normal foot position on foot peg or board</p> <p>Foot shift lever shall be adjustable for size of rider's boot</p> <p>Shift pattern shall be as follows: Neutral located between first and second gears, shall shift down from neutral to first gear and up from neutral to second, third, fourth, fifth, etc.</p> <p>8 plate, self-energizing, Wet Clutch with self-adjusting hydraulic actuation. Operated by a curb side hand lever that shall be adjustable to the size of operator's hand.</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p><u>SAFETY CONTROLS:</u></p>	<p>The motorcycle MUST be equipped with the manufactory's latest Traction Control system. the system must include at a minimum:</p> <p>Anti-Slip Control</p> <p>Tire Pressure Monitoring</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p><u>BRAKES:</u></p>	<p>Linked or partially linked braking system with the manufacturer's most current anti-lock braking system for the motorcycle.</p> <p>Front brakes shall be dual disks; hand operated from the street side handlebar and will be adjustable to fit the operator.</p> <p>Rear brake shall be single disk with foot brake lever on street side of Motorcycle.</p> <p>Brake pedal shall incorporate a non-skid pedal surface or pad. Foot pedal and linkage shall be designed and located so that full travel of pedal or rider's foot shall be such that brake can be applied without lifting heel from the, footrest/footboard.</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p><u>SUSPENSION:</u></p> <p>Front Forks</p>	<p>Hydraulic design front forks to be adjusted to permit the shortest possible turning radius with handling characteristics for police service. Fork pre-load shall not be gas pressure adjustable.</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>Rear Springs</p>	<p>Swinging arm type rear fork shall have integral coil springs and hydraulic/gas shock absorbers. Rear shock absorbers shall have provision for adjustment to accommodate rider's weight</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>

<p><u>ELECTRICAL SYSTEM:</u></p>	<p>Heavy duty 504 watt alternator, producing a minimum of 25A at recommended engine idle speed (without special police equipment in operation)</p> <p>Dual heavy duty gel batteries, one for the operation of the motorcycle and anti-lock brake system, and one auxiliary battery connected to a minimum of 8 fused circuits for the operation of specialized police equipment.</p> <p>Both batteries shall be linked to recharge from the central alternator during motor operation.</p> <p>An electrical management system shall disengage the auxiliary battery when the engine is not running (or producing current) to enable all special police equipment to draw only from the auxiliary battery, thereby preserving the primary battery to enable reliable restarting.</p> <p>The electrical system shall allow the emergency lighting and police equipment to operate with the ignition key removed from the cycle.</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p><u>LIGHTING:</u></p>	<p>The Motorcycle must be equipped with the manufactures "Full Light Package" All emergency lights must be LEDs and wired to a single, handle bar mounted control switch.</p> <p>The "Full Light Package" must at a minimum include the following components:</p> <p><u>Street Side Front module</u> consisting of three red/blue combination light assemblies, one forward facing, one 10-degree off set, and one 90-degree off set. Plus one white take down light assembly and one white alley light assembly.</p> <p><u>Rear Module</u> consisting of four red/blue combination light assemblies, two rear facing, one curb side facing, and one street side facing. Plus an auxiliary duplex assembly with two red/blue light assemblies, both rear facing.</p> <p>High mounted, auxiliary LED brake and taillight assembly with intergraded rear and side facing LED turn signals</p> <p>Dual element low beam and single element high beam, quartz halogen head lights. Head light's high/low beams shall wig wag when emergency lights are activated.</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p><u>SIREN:</u></p>	<p>BMW brand, 120 db, Public Address compatible, siren with handle bar mounted controls.</p> <p>A wireless Push to Talk (PTT) system with handle bar mounted rocker switch that allows the operator's helmet mounted microphone to operate both Public Address system and Motorola radio.</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>

<u>STORAGE:</u>	<p>Two, top opening, composite saddle bags with a minimum capacity of 23 liters each. Saddle bags lid must be lockable and sealed from moisture and dirt. A glove-friendly rear latch shall allow operator to open lid while seated on motor. Latch secures lid without requirement to lock / key lock standard for security.</p> <p>Behind seat there shall be a lockable integrated radio storage box with grounded base suitable for mounting of police radio / video system / etc.</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
<u>RADAR:</u>	<p>One Kustom K-brand radar, including one front facing antenna, one remote control, and one Kustom Radar display head. Radar Must be rated for use on Motorcycles</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
<u>WHEELS:</u> Front Rear	<p>3.5 X 17" cast Aluminum with MTH@ rim profile</p> <p>5.50 X 17" cast Aluminum with MTH@ rim profile</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
<u>TIRES:</u> Front Rear	<p>120/70 ZR 17 Michelin Pilot Road 4</p> <p>180/55 ZR 17 Michelin Pilot Road 4</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
<u>MISCELLANEOUS:</u>	<p>Center service stand permanently fitted to motor, raising one wheel off the ground when deployed, to enable operator to rotate - check condition of either tire.</p> <p>Three sets of ignition key for each unit</p> <p>Motorcycle dust cover</p> <p>Motorcycle MUST include <u>ALL Factory Standard</u> equipment plus any optional equipment listed in these specifications.</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
<u>MANUALS:</u>	<p>One operation manuals, one service manual, and one parts manual for each of the following</p> <p>Engine</p> <p>Electrical System (must include wiring diagram)</p> <p>Body and Frame</p> <p>All manuals shall including manufactures, parts break downs and part numbers for all hydraulic cylinders</p> <p>NOTE: Note: The City reserves the right to withhold a minimum of \$500.00 from payment until all manuals are supplied</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>



BMW MOTORCYCLES OF SOUTHEAST MICHIGAN

14855 Sheldon Rd
Plymouth, MI 48170
P: 734.453.0500
F: 734.453.0510

City of Ann Arbor
Procurement Unit
c/o Customer Services, 1st Floor
301 E Huron Street
Ann Arbor, MI 48107

Re: ITB No. 4646 with Addendum No. 1

Enclosed please find our bid to supply four (4) motorcycles to the Ann Arbor Police Department. You will find two separate bid forms. One form is to supply 2020 model year motorcycles. The second is to supply 2021 model units. You will find that there is a substantial price advantage to the 2020 units. This is the result of us working with BMW to secure a special incentive for the 2020 units. You will also find that there is a difference in the delivery schedule. We can supply 2020 units within a short period of time. The 2021 units are not yet in production. Therefore, we do not anticipate receipt until the first quarter of 2021. We expect that this will not be a factor since the use of motorcycles will soon end for the season and resume at some point after we can supply 2021 units.

In the specifications, a Radar unit with one front facing antenna is required. The motorcycles that are currently in service use dual antennae (front and rear facing antenna). Should you wish to have dual antennas on these units, there is an additional cost of \$354.00 per unit.

There are also two minor issues with the specifications and our ability to meet them. First, BMW has changed to a proprietary Siren meeting SAE J1849 and CA title 13. These are the same standards and include the same features as the Code 3 unit specified. Also, a recent change to a three phase alternator has changed the maximum output from 540 watts to 504 watts while increasing output at idle to 34 Ah. We have included a copy of the BMW warranty for Authority motorcycles as well as the complete specifications.

We have enjoyed the relationship we have with the City of Ann Arbor Police Department and look forward to its continuation. Please feel free to contact me with any questions.

Regards,


John W. Horner

Limited Warranty
2019 Police Motorcycles
(Valid only in the U.S.A.)

BMW of North America, LLC ("BMW NA") warrants to the first retail Public Authority (Purchaser) and each subsequent Purchaser of 2018 U.S. specification R 1200 RT-P BMW Police motorcycles, imported by BMW NA, to be free of defects in materials or workmanship for a period of 36 months or 60,000 miles, whichever occurs first, commencing with the date the motorcycle is delivered to its first retail Purchaser, or, if the motorcycle is first placed in service as a BMW Press motorcycle, BMW Employee Lease motorcycle, BMW Motorcycle demonstrator, BMW Display motorcycle, BMW Fleet Motorcycle or BMW Motorcycle retailer demonstrator prior to sale at retail, on the date the motorcycle is first placed in such service.

To obtain service under this warranty, the motorcycle must be brought, upon discovery of the defect, to the workshop of any BMW Motorrad USA authorized motorcycle retailer. This motorcycle dealer will, without charge for parts or labor, either repair or replace the defective part(s) using new or authorized remanufactured parts. The decision whether to repair or replace said part(s) is solely the prerogative of BMW NA. Parts for which replacements are made become the property of BMW NA.

BMW NA makes no other express warranty on this product except the warranty as to the emission control system. **The duration of any implied warranty of merchantability, is limited to the duration of the express warranty herein. BMW NA hereby excludes incidental and consequential damages, including loss of time, inconvenience, or loss of use of the vehicle, for any breach of any express or implied warranty, including any implied warranty of merchantability that may be applicable to this product.** Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so the above limitations and exclusions may not apply to you.

This warranty is not applicable to Certified Pre-Owned (CPO) Motorcycles offered for sale under the BMW Certified Pre-Owned Motorcycle Program. A separate Certified Pre-Owned protection Plan, described in applicable CPO literature, outlines the coverage provided to BMW CPO Motorcycles under the CPO Protection Plan.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Any legal claim or action arising from any express or implied warranty contained herein must be brought within 12 months of the date it arises.

Notwithstanding the above, the following items are warranted against defects in material and workmanship for the first 12 months:

- Halogen headlight bulbs
- LED bulbs as original equipment supplied by BMW (not Code 3, see below for Code 3 LED warning light warranty)
- Paint, powder coat and chrome finishes

Notwithstanding the above, the following items are warranted against defects in material and workmanship for the first 24 months:

- Batteries

This warranty does not apply to the following, except as noted above:

- Maintenance Services** - This includes, but is not limited to, scheduled maintenance, such as oil changes, wheel balancing; mechanical adjustments or repairs which become necessary through normal wear and tear such as throttle body synchronization, steering bearing adjustments; or periodic maintenance such as input and Paralever drive shaft spline lubrications.
- Service & Wear Items** - This includes, but is not limited to, the replacement of brake pads, linings and rotor assemblies, clutch plates, rear drive chain / belt and sprockets, spring strut dampers, steering head dampers, steering head, wheel and swing arm bearings and ball joints, incandescent bulbs, fuses, control cables, exhaust pipes and mufflers for discoloration of finish and rubber items such as hand grips, heated hand grips, foot rests, foot shift and control cable shields.
- Batteries** - Batteries that exhibit signs of neglect or overcharging.
- Tires** - Tires and tubes are warranted by their respective manufacturer for defects in materials and workmanship.
- Code 3 Emergency Products** - BMW NA has arranged with Code 3 Public Safety Equipment, Inc. ("Code 3") to allow authorized BMW motorcycle retailers to process valid Code 3 claims for warranty repair / replacement of Code 3 products; but only for Code 3 products supplied by BMW NA on new BMW police motors or originally distributed by BMW NA through the BMW parts system. Code 3 warranty duration is 3-years for LED's light heads and LED flasher modules. Please refer to the warranty information provided with these products for further details.
- Other Emergency Lighting and Siren Systems** - These components manufactured by Whelen, Federal Signal and Unitrol are warranted by their respective manufacturer for defects in material and workmanship. Please refer to the warranty information provided with these products for further details or consult the BMW police motors website for the respective manufacturer's warranty / repair information at www.bmwmc.net.
- Improper Fuel Usage** - Only use fuels advertised to have adequate detergency and low alcohol (maximum 10% ethanol) content. Please refer to your owner's manual for important information on the fuel recommended for use in your vehicle. Use of fuels with insufficient detergent and/or excess alcohol can cause drivability problems that necessitate cleaning intake valves and fuel injection valves, and, when applicable, adjusting the engine idle. We suggest having this work performed by your authorized BMW dealer, perhaps while regular maintenance is performed. Your BMW dealer can also recommend a gasoline additive that will provide sufficient detergency. While this recommended unscheduled maintenance is not required in order to maintain the emissions warranty, cleaning of the intake valves or, when applicable, fuel injection valves, or adjustment of engine idle, necessitated by use of inappropriate fuel, it is not covered by warranty because no defect in material or workmanship or component failure is involved.
- Failure to Service** - This includes, but is not limited to, damage attributable to failure to perform maintenance services at the specified intervals or in accordance with the instructions in the Rider's Manual and/or Service & Technical booklet. Proof must be provided either by a paid invoice copy or filling in the appropriate boxes in the Service & Technical booklet.
- Damage** - This includes, but is not limited to, damage resulting from negligence, improper treatment, the installation and use of side cars, three wheel conversions, trailer hitches, the towing of trailers of any description, accidents or improper accident damage repairs, corrosion from road salts, battery acid, cleaning agents, environmental influences, or treatment contrary to the Rider's Manual and/or Service and Technical booklet.
- Non-BMW Parts** - Damage to a component or assembly due to the installation of replacement parts with specifications that differ in any material respect from Original BMW Parts.
- Towing**. Limited towing assistance is available through the BMW Motorcycle Roadside Assistance Plan.

The warranty shall be null and void if:

1. The motorcycle is used in any competitive events.
2. The motorcycle has been declared a total loss or sold for salvage purposes.
3. If the Vehicle Identification Number has been altered or cannot be read.
4. Any performance accessories or components attached to the vehicle which alters the original engineering and/or operating specifications which results or may result in damage to other original components.

Technical Specifications

R 1250 RT-P

Engine Layout	Air/water-cooled flat twin ('Boxer') 4-stroke engine, two camshafts and four radially aligned valves per cylinder, central balancer shaft, BMW ShiftCam VVT.
Bore x stroke	102.5 mm x 76 mm
Displacement	1,254 cc
Rated output	136 hp (100 kW) at 7,750 rpm
Max. torque	105 ft-lb (143 Nm) at 6,250 rpm
Compression ratio	12.5 : 1
Mixture control / engine management	Electronic intake pipe injection / BMS-X+ electronic engine management with E-Gas electronic throttle actuator, ride mode control (rain / road), optional Ride Modes Pro with additional dynamic mode, reduced throttle twist angle to 70°
Emission control	Closed-loop 3-way catalytic converter, emission standard EU-4
Cooling System	Air / water precision cooled, thermostatically-controlled micro-cooled, large radiators with computer-controlled auxiliary fan drive
Maximum speed	125+ mph (200 km/h)
Fuel consumption	60 mpg at a constant 56 mph
Fuel type	Premium fuel 91 AKI (pursuit rated minimum octane rating: 87 AKI)
Alternator	Three-phase alternator 504W w/auxiliary battery / 34Ah output at idle
Battery, Main	12 V / 16 Ah, AGM maintenance-free
Battery, Auxiliary	12 V / 16 Ah, AGM maintenance-free, with computer controlled charging relay
Clutch	Self-energizing wet clutch, 8-plates, hydraulic self-adjusting
Gearbox	Constant mesh 6-speed gearbox with helical gear teeth
Drive System	Shaft drive with integral torsion damper; standard ABS and traction control
Frame	Continuous tubular steel bridge-type frame, bolt-on rear frame section
Front wheel location / suspension	BMW Motorrad Telelever, central spring strut, hydraulic steering damper
Rear wheel location / suspension	Cast aluminum single-sided swing arm with BMW Motorrad EVO Paralever; WAD strut (travel-related damping), spring preload hydraulically adjustable (continuously variable) at hand wheel, rebound damping adjustable
Suspension travel front / rear	4.7/5.4 inches (120 mm / 136 mm)
Wheelbase	58.5 inches (1,485 mm)
Castor	3.92 inches (99.6 mm)
Steering head angle	64.1°
Wheels	Cast aluminum wheels, MTH2 rim profile
Rim, front	3.50 x 17"
Rim, rear	5.50 x 17"
Tires, front	120/70 ZR 17 Michelin Pilot Road 4
Tires, rear	180/55 ZR 17 Michelin Pilot Road 4
Brake, front	Dual disc brake, floating brake discs, diameter 320 mm, four-piston radial calipers
Brake, rear	Single disc brake, diameter 275 mm, double-piston floating caliper
ABS	BMW Motorrad Integral ABS (partial-integral) with ABS Pro standard
Length	87.5 inches (2,222 mm)
Width (incl. mirrors)	38.7 inches (983 mm)
Height (excl. mirrors)	55.7 inches (1,416 mm)
Seat height, wet weight	31.7/32.5 inches Std (high: 32.7 / 33.5 inches; low seat: 29.9 / 30.7 inches)
Weight, wet	650 lbs (295 kg)
GVWR	1,091 lbs (495 kg)
Payload including rider	441 lbs (200 kg)
Usable tank volume	6.6 gallons (25.0 liters)
Reserve	Approx. 1 gallon (4.0 liters)
Saddlebag volume	23 liters each, top-opening
Single key locking system	Two metal coded keys are standard or two fob transmitters with Keyless Ride option. Additional coded keys or fobs can be ordered with unit or after purchase.
Siren system	BMW twin speaker electronic siren with wail, yelp, hyper-yelp, air-horn, PA. SAE J1849 and CA Title 13 compliant. 120 dB (A) @ 3 m.
Emergency lighting system	BMW/Code 3 LED light system (maximum 10 LEDX light heads) with alternating flash sequence, channel segregation for front & rear and duplex LEDX auxiliary rear.
Alley lights	Integrated alley light function utilizing separate Torus LED, selectable alternating wig-wag with emergency light operation.
Cruise lights	Integrated cruise light function for front and rear facing LED emergency lights to steady-burn at 10% power output.
Take-down lights	Integrated twin Torus LED, with selection switch for steady-burn or wig/wag alternating flash with emergency light operation.