



## MM HiFlo ST Engines

### 4 Cylinder Engines - M10

<b>2002, 320i, 318i ≥'85 - 4 Cyl SOHC Engines</b>		
2200 Sport Engine	155 HP.....	6495 800
2200 Rally Engine	160 HP.....	6995 800
2300 Rally Engine	165 HP.....	7995 800
2400 Rally Engine	170 HP.....	8495 800
2100 FI Engine	12 lbs 275 HP.....	7495 800
2300 FI Engine	12 lbs 300 HP.....	8995 800
2000-2400 Race Engines	180 -240 HP.	8995-11,995 8

Other M10 Race Engines ..... Call 573-765-1269  
Add Alternator Bracket: 2002 tii, 320i ('80-'83) & 318i ... 200

### 6 Cylinder Engines - M30

<b>5, 6, &amp; 7 Series ≥'93 - 6 Cyl SOHC Engines</b>		
<b>3.0cs, Bavaria - 4 Cyl SOHC Engines</b>		
3700 Sport Engine	270 HP.....	7495 800
3700 Rally Engine	285 HP.....	8995 800
3600 FI Engine	12 lbs 450 HP.....	9995 800
M30 Race Engines	Call 573-765-1269	
Additional charge for not having a 3.5 L Block..... 500		

### "Baby Six" Engines - M20

<b>325i/e, 528, 525i ≥'91 - 6 Cyl SOHC Engines</b>		
2900 Sport Engine	205 HP.....	7495 800
3000 Sport/Rally	225 HP.....	8995 800
3200 Sport/Rally	230 HP.....	9495 800
3200 Rally Engine	240 HP.....	9995 800
M20 Race Engines	Call 573-765-1269	
Option: MM custom oil pan with crank scraper for track use ..... 750		

<b>Forced Induction Engines</b>		
2900 FI Engine	250-325 HP.....	9995 800
3100 FI Engine	325-450 HP.....	10,995 800
For ix's, Customer's Core & additional charge ..... 200		

### M3 Engines - S14

<b>M3 '88-'91 - 4 Cyl DOHC Engines</b>		
2400 Sport Engine	210 HP.....	9,495 Core*
2500 Rally Engine	255 HP.....	11,495 Core*
2500 Race Engine	285 HP.....	13,995 Core*
2500 FI Engine	300-400 HP.....	12,495 Core*

### M5 & M6 Engines - S38/S88

<b>M5 &amp; M6 '85-'93 - 6 Cyl DOHC Engines</b>		
3700 Sport Engine	310 HP.....	11,495 Core*
3700 Rally Engine	350 HP.....	12,995 Core*
3600 FI Engine	12 lbs 550 HP.....	13,995 Core*

\*Customer's Own Core Needed  
FI = Forced Induction

ST = our Patented Surface Turbulence Treatment Core Deposit

### M42 & M44 Engines

<b>M42: (E30 318is '90-91), (E36 '92-95), (Z3 '95)</b>		
<b>M44: (E36 318ti '96-98), (E36 318i '96-98)</b>		
<b>(Z3 '96-99) - 4 Cyl DOHC Engines</b>		
2000 Sport M42	83.5mm Stroke ... 160 HP.....	7495 800
2100 Rally M42	.....	205 HP..... 9495 800
2000 Sport M44	83.5mm Stroke ... 170 HP.....	7495 1200
2100 Rally M44	.....	190 HP..... 9495 1200
M42 Race Engines ..... Call 573-765-1269		

<b>Forced Induction Engines</b>		
1900 FI M42	200-250 HP.....	7995 800
2100 FI M42	250-325 HP.....	9995 800
2000 FI M44	200-250 HP.....	7995 800
2100 FI M44	250-325 HP.....	9995 1200

### M50, M50tu, S50, M52 & S52 Engines

<b>M50 Non-Vanos: (325i/525i '91-92),</b>		
<b>M50tu: (325i/525i '93-95), S50: (M3 '95)</b>		
<b>M52: (328i/528i '96-'97), S52: (M3 '96-99) - 6 Cyl DOHC</b>		
3200 Sport OBD I or II	275 HP....	10,495 2000-3500
3200 Rally OBD I or II	280-305 HP....	12,995 2000-3500
3300 Rally OBD I or II	295-315 HP....	14,995 2000-3500
<b>Forced Induction Engines</b>		
3200 FI OBD I or II	375 - 500 HP....	13,995 2000-3500
Upcharge (except for S52) NO 89.6mm Crankshaft.....200		

### Engine Installations

M10	2002, 2002 tii, 320i, 318i.....	2500	
M30	5, 6 & 7 Series ≥'93, 3.0cs, Bavaria .....	3000	
M20	325i/e, 528, 525i ≥'91, Euro 323i .....	3000	
M20	325ix .....	3500	
S14	M3 .....	3000	
S14 Conversion	into 2002 .....	5000	
S38 & S88	M5, M6, Euro M635csi .....	3500	
M42	E30 318is '90-'91 .....	3000	
M42 Conversion	into 2002 .....	5000	
M42, M44	E36 318is, 318ti & Z3 '92-98 .....	3000	
<b>M50, M50tu, M52, S50, S52</b>			
3 & 5 Series from '91-'99 & M3 from '95-'99 .....			3500
S52 Conversion	into E30 .....	5000	

Call for pricing on Forced Induction Installations

Above conversion prices apply to the installation of a Metric Mechanic engine only.



## MM HiFlo ST Engine Kits

### 4 Cylinder Engine Kits - M10

2002, 320i, 318i ≥'85

<b>2200 Sport Engine Kit - 155 HP</b>	Core Deposit
Head, HiFlo ST Sport .....	2295
Head Gasket, 94mm Big Bore .....	140
Head Bolt Set.....	50
Pistons, 92mm Sport, Hard Anodized 9.75:0 CR....	1000
Rings, 92mm Moly .....	160
Rods: <i>not provided, factory 2.0 L rods, call if you need help</i>	
Rod Bearing Set, STD .....	100
Main Bearing Set, STD.....	120
Top End Gasket Set .....	100
Bottom End Gasket .....	150
Crankshaft** uses Stock 2 Liter Crank	

**2300 Rally Engine Kit - 165 HP**

Head, HiFlo ST Sport.....	2295
Head Gasket, 94mm Big Bore.....	140
Head Bolt Set.....	50
Pistons, 92mm Rally, Hard Anodized 10.1:0 CR ....	1000
Rings, 92mm Moly .....	160
Rods, "H" Beam 143mm, 4 Oiling Grooves .....	780
Rod Bearing Set, Coated Tri-Metal .....	180
Main Bearing Set, Coated .....	225
Crankshaft 84mm 2.3 S14 ( <i>Limited Availability</i> ) ...	CALL
Bolt, Washer, Drive Flange, Pulley & Seal .....	550
Optional: Windage Tray/Scraper Bar .....	350

**2400 Rally Engine Kit - 170 HP**

Head, HiFlo ST Sport.....	2295
Head Gasket, 94mm Big Bore.....	140
Head Bolt Set.....	50
Pistons, 92mm Rally, Hard Anodized 10.1:0 CR ....	1000
Rings, 92mm Moly .....	160
Rods, "H" Beam, 143mm, 4 Oiling Grooves .....	780
Rod Bearing Set, Coated Tri-Metal .....	180
Main Bearing Set, Coated .....	225
Crankshaft & Kit** 87mm .....	2450
Includes Crank Sprocket, Bolt, Washer, Drive Flange, Pulley & Seal	
Optional: Windage Tray/Scraper Bar .....	350

### 6 Cylinder Engine Kits - M30

3.0cs, Bavaria, 5, 6, & 7 Series ≥'93

<b>3700 Sport Engine Kit - 270 HP</b>	Core Deposit
Head, HiFlo ST Sport.....	2695
Head Gasket, 94.5mm Bore.....	195
Head Bolt Set.....	75
Pistons, 95mm Sport, Hard Anodized 10.1:0 CR....	1500
Rings, 95mm Moly .....	240
Rods: <i>not provided, factory 3.5i L rods, call if you need help</i>	
Rod Bearing Set, STD.....	150
Main Bearings, STD.....	180
Top End Gasket Set .....	110
Bottom End Gasket .....	150
Crankshaft** uses Stock 86mm B34/B35 Crank	

**3800 Rally Engine Kit - 285 HP**

Head, HiFlo ST Sport.....	2695
Head Gasket, 96mm Bore .....	195
Head Bolt Set.....	75
Pistons, 96mm Rally, Hard Anodized 10.25:1 CR...	1500
Rings, 95mm Moly .....	240
Rods, "H" Beam, 143mm, 4 Oiling Grooves.....	1170
Rod Bearing Set, Coated Tri-Metal .....	270
Main Bearings, Coated .....	315
Top End Gasket Set .....	110
Bottom End Gasket .....	150
Crankshaft** uses Stock 86mm B34/B35 Crank	



## Baby 6 Engine Kits - M20

### 325i/e, 528e, 525i ≥'91

Core Deposit

<b>2900 Sport "I" Engine Kit - 205 HP</b>	
Head, HiFlo ST Sport .....	2495
Head Gasket, Improved Water Flow .....	140
Head Bolt Set, 8mm Allen Head Socket .....	140
Pistons, 2900 Sport, 86mm, Hard Anodized	
Deep Valve Pockets, 10.0:1 CR.....	1500
Rings, Moly 86mm .....	240
Rods: <i>not provided, factory 2.5i L rods, call if you want help</i>	
Rod Bolt Set .....	75
Rod Bearing Set .....	150
Option: Rod Bearing Set, Coated Tri-Metal .....	270
Main Bearing Set .....	180
Option*: Main Bearing Set Coated, 360° Oiling Groove .....	315
<i>* Requires MM to machine the lock-tang grooves on the Main Bearing Caps .....</i>	
Top End Gasket Set .....	100
Bottom End Gasket .....	150
Crankshaft, 81mm Stroke ETA Crank .....	Call

### 3000 2926cc Sport/Rally Engine Kit - 225 HP

Head, HiFlo ST Sport.....	2495
Head Gasket, Improved Water Flow .....	140
Head Bolt Set, 8mm Allen Head Socket .....	140
Pistons, 3200 Sport, 86mm,	
Hard Anodized 10.0:1 CR .....	1500
Rings, Moly 86mm .....	240
Rods, "H" Beam 138mm with 4 Oiling Grooves .....	1170
Rod Bearing Set, Coated Tri-Metal .....	270
Main Bearing Set Coated, 360° Oiling Groove .....	315
<i>* Requires MM to machine the lock-tang grooves on the Main Bearing Caps .....</i>	
Top End Gasket Set .....	100
Bottom End Gasket .....	150
Crankshaft* 84mm Stroke.....	Call
*Crank Seal Spacer, Bolt & Washer,	
required for Crankshaft .....	200
*Idler Shaft machined for Crank clearance .....	100
<i>Some block clearancing required for the crankshaft. Call for directions.</i>	

### 325i/e, 528, 525i ≥'91

Core Deposit

<b>3200 Sport/Rally Engine Kit - 230 HP</b>	
Head, HiFlo ST Sport.....	2495
Head Gasket, Improved Water Flow .....	140
Head Bolt Set, 8mm Allen Head Socket .....	140
Pistons, 3200 Sport, 86mm	
Hard Anodized 10.0:1 CR .....	1500
Rings, Moly 86mm .....	240
Rods, "H" Beam, 135mm with 4 Oiling Grooves .....	1170
Rod Bolt Set, .....	75
Rod Bearing Set, Coated Tri-Metal .....	270
Option: Rod Bearing Set, STD.....	150
Main Bearing Set Coated, 360° Oiling Groove.....	315
<i>* Requires MM to machine the lock-tang grooves on the Main Bearing Caps .....</i>	
Top End Gasket Set .....	100
Bottom End Gasket .....	150
Crankshaft**, 89.6mm Stroke .....	Call
*Crank Seal Spacer, Bolt & Washer,	
required for Crankshaft .....	200
*Idler Shaft machined for Crank clearance .....	100
<i>Some block clearancing required for the crankshaft. Call for directions.</i>	

### 3200 Rally Engine Kit - 240 HP

Head, HiFlo ST Rally .....	2695
Head Gasket, Improved Water Flow .....	140
Head Bolt Set, 8mm Allen Head Socket .....	140
Pistons, 3200 Rally, 86mm	
Hard Anodized 11.0:1 CR .....	1500
Rings, Moly 86mm .....	240
Rods, "H" Beam 138mm with 4 Oiling Grooves .....	1170
Rod Bearing Set, Coated Tri-Metal .....	270
Main Bearing Set Coated, 360° Oiling Groove.....	315
<i>* Requires MM to machine the lock-tang grooves on the Main Bearing Caps .....</i>	
Top End Gasket Set .....	100
Bottom End Gasket .....	150
Crankshaft** 89.6mm Stroke .....	Call
*Crank Seal Spacer, Bolt & Washer,	
required for Crankshaft .....	200
*Idler Shaft machined for Crank clearance .....	100
<i>Some block clearancing required for the crankshaft. Call for directions.</i>	



## M3 Engine Kit - S14

### M3 '88-'91

#### 2400 Sport Engine - 210 HP

Core Deposit

Head* HiFlo Sport, 29.5mm Ports .....	2295	500
Adjusting Shim Pads.....	400	
Cam Box Clearanced for future cam upgrade .....	150	
Head Gasket.....	140	
Pistons, 95mm, Hard Anodized 11.5:1 CR.....	1000	
Rings, Moly 95mm.....	160	
Rods, use your stock rods.....	0	
Rod Bearing Set STD.....	120	
Main Bearing Set STD .....	120	
Cornering Baffle.....	50	
EVO Intake Gaskets .....	220	
Top End Gasket Set.....	100	
Bottom End Gasket.....	150	
Motorsport Front and Rear Crank Seal.80		
Crankshaft uses Stock 84mm, 2.3 Liter Crank		

#### 2500 Rally Engine - 255 HP

500  
300

Head* HiFlo Rally, 31mm Intake Ports .....	2495	500
Rally Camshaft .....	750	300
Cam Box Clearanced for Race Cam .....	150	
Adjusting Shim Pads .....	400	
Head Gasket .....	140	
Pistons, 95mm, Hard Anodized 12.5:1 CR.....	1000	
Rings, Moly 95mm .....	160	
Rods, "H" Beam, 143mm with 4 Oiling Grooves.....	780	
Rod Bearing, Coated Tri-Metal .....	180	
Main Bearing Set, Coated.....	225	
Crankshaft, 87mm Stroke .....	CALL	
Cornering Baffle .....	50	
Ported Intake Manifolds.....	600	
EVO Intake Gaskets .....	220	
Top End Gasket Set .....	100	
Bottom End Gasket .....	150	
Motorsport Front and Rear Crank Seal....	80	

#### 2500 Race Engine - 285 HP

500  
600

Head* 31mm Intake Ports.....	2495	500
Race Camshafts, Pair .....	1500	600
Cam Box Clearanced for Race Cam .....	150	
Shim-Under 37.5 mm Lifter Bucket System .....	800	
Lash Caps 7mm, set of 16 .....	96	
Adjusting Shim Pads .....	600	
Head Gasket .....	140	
Pistons, 95mm, Hard Anodized 13.5:1 CR.....	1000	
Rings, Moly 95mm .....	160	
Rods, "H" Beam, 143mm with 4 Oiling Grooves.....	780	
Rod Bearing Set, Coated Tri-Metal .....	180	
Main Bearing Set, Coated.....	225	
Crankshaft, 87mm Stroke .....	CALL	
Cornering Baffle .....	50	
EVO Intake Gaskets .....	220	
Top End Gasket Set .....	100	
Bottom End Gasket .....	150	
Motorsport Front and Rear Crank Seal....	80	
Ported Intake Manifolds.....	750	
Optional: Windage Tray/Scrapper Bar .....	350	
Optional: Race Oil Pan with Swing Gate & Baffle.....	450	

## M5/6 Engine Kits - S38/S88

### M5 & M6 '85-'93

#### 3700 Sport Engine - 310 HP

Core Deposit

Head, HiFlo Sport, 29.5mm Intake Ports .....	2995	Core
Adjust Shim Pads .....	500	
Head Gasket .....	195	
Pistons, 95mm, Hard Anodized 11.5 CR.....	1500	
Rings, Moly 95mm .....	240	
Top End Gasket Set .....	100	
Bottom End Gasket.....	150	
Motorsport Front and Rear Crank Seal .....	80	
Rod Bearing Set, STD .....	150	
Main Bearing Set, STD .....	250	
Crankshaft, 86mm Stroke.....	750	

#### 3700 Rally Engine - 350 HP

Core  
500

Head, Rally, 31mm Intake Ports.....	2995	Core
Head Gasket .....	195	
Rally Cam.....	1000	500
Clearance Cam Box for Rally Cam .....	200	
Adjust Shim Pads .....	500	
Ported Intake Manifolds .....	750	
Pistons, 95mm, Hard Anodized 12.5 CR.....	1500	
Rings, Moly 95mm .....	240	
Rods, "H" Beam 143mm with 4 Oiling Grooves .....	1170	
Rod Bearing Set, Coated Tri-Metal.....	270	
Main Bearing Set, Coated .....	315	
Crankshaft, 86mm Stroke.....	750	
Top End Gasket Set .....	100	
Bottom End Gasket.....	150	
Motorsport Front and Rear Crank Seal .....	80	

Core: No Deposit required as BMW Owner  
Supplies their own Core for rebuilding

### The M3, M5 and M6 Engine Kits also need:

With Purchase of complete Kit, we will rebuild your Oil Pump core for \$750  
(need \$300 if you do not have a core to send us)

1. Timing Chain, Dual Row
3. Guide Rail
4. Lower Tensioner Rail
5. Upper Tensioner Rail
6. Top Guide Rail
2. Oil Pump Chain

\* NOTE: The S14 has a two piece head. We refer to the Top Section as the "Cam Box" and the Bottom Section as the "Head". During installation, the Head must be bolted to the block first before the Cam Box can be attached.



## M50/M50tu/M52/S50/S52

### 3 & 5 Series '92 >

<b>3200 Sport - 275 HP</b>	Core Deposit
Head, Sport/Rally Surface Turbulence/6% Flow Inc .....	2795 1000
Cams, uses Stock M3, call if you need help sourcing them	
<b>Optional:</b> Cams, Int 262° & Exh 250° .....	1300 600
Head Gasket, <i>improved water flow</i> .....	140
Head Bolt Set .....	60
Pistons, Rally 87mm Forged Alusil Hard Anodized 12.0:1.....	1500
Rings, 87mm Moly Rings .....	240
Rods, <i>use your stock rods</i>	
Rod Bolt Set .....	75
Rod Bearing Set, Coated Tri-Metal .....	270
<b>Optional:</b> Rod Bearing Set, STD.....	150
Main Bearing Set, 360° Thrust & Oiling Groove .....	315
Machine Lock Tangs in Main Bearing Caps for above set	
<i>You send us your Main Bearing Caps</i> .....	175
Top End Gasket Set .....	100
Bottom End Gasket .....	150
Motorsport Front and Rear Crank Seal.....	80
Crankshaft 89.6mm Stroke .....	1250

### 3200 Rally - 280 to 305 HP

Head, Rally Surface Turbulence/6% Flow Increase.....	2795 1000
Cam Pair, Int 262° & Exh 250° .....	1600 600
Head Gasket, <i>improved water flow</i> .....	140
Head Bolt Set .....	60
Pistons, Rally 87mm Forged Alusil, Hard Anodized 12.0:1.....	1500
Rings, 87mm Moly Rings .....	240
Rods, Rally 138mm "H" Beam 525 grams.....	1290
Rod Bearing Set, Coated Tri-Metal.....	270
Main Bearing Set, 360° Thrust & Oiling Groove .....	250
Machine Lock Tangs in Main Bearing Caps for above set	
<i>You send us your Main Bearing Caps</i> .....	175
Top End Gasket Set .....	100
Bottom End Gasket .....	150
Motorsport Front and Rear Crank Seal.....	80
Crankshaft 89.6mm Stroke .....	1250

### 3300 Rally - 295 to 315 HP

Head, Rally Surface Turbulence/6% Flow Increase.....	2795 1000
Cam Pair, Int 262° & Exh 250° .....	1300 600
Head Gasket, <i>improved water flow</i> .....	140
Head Bolt Set .....	60
Pistons, Rally 87mm Forged Alusil, Hard Anodized 12.0:1.....	1500
Rings, 87mm Moly Rings .....	240
Rods, Rally 139mm "H" Beam 495 grams.....	1290
Rod Bearing Set, Coated Tri-Metal.....	270
Main Bearing Set, 360° Thrust & Oiling Groove .....	250
Machine Lock Tangs in Main Bearing Caps for above set	
<i>You send us your Main Bearing Caps</i> .....	175
Top End Gasket Set .....	100
Bottom End Gasket .....	150
Motorsport Front and Rear Crank Seal.....	80
Crankshaft,	
93mm Stroke with custom Timing Chain Sprocket.....	2700

Core: No Deposit required as BMW Owner  
Supplies their own Core for rebuilding

## M42 Engine Kits

### M42: E30 318is '90-91, E36 '92-95, Z3 '95

<b>2000 Sport M42 - 160 HP</b>	Core Deposit
Head, Sport Surface Turbulence/6% Flow Increase .....	1795 600
Head Upgrade, from 7mm to 6mm Valvetrain .....	350
Sport Intake Camshaft 258°, 11.15mm Lift .....	600 250
Head Gasket .....	140
Head Bolt Set .....	45
Pistons, Sport 87mm Forged Alusil, Hard Anodized 11.0:1 .....	1000
Rings, 87mm Moly Rings .....	160
Rod Bearing Set, Coated Tri-Metal.....	180
<b>Optional:</b> Rod Bearing Set, STD .....	100
Main Bearing Set, 360° Thrust & Oiling Groove .....	120
Machine Lock Tangs in Main Bearing Caps for above set	
<i>You send us your Main Bearing Caps</i> .....	125
Double Row Timing Chain .....	100
<b>Optional:</b> Single Row Timing Chain Conversion	
using cam sprockets provided by customer .....	250
Top End Gasket Set .....	100
Bottom End Gasket .....	150
Motorsport Front and Rear Crank Seal.....	80
Crankshaft, Stock M44 83.5mm .....	Call

### 2100 Rally M42 - 205 HP

Head, Rally Surface Turbulence/6% Flow Increase.....	1795 600
Cam Pair, Intake 272° & Exhaust 258° .....	1200 500
Head Gasket .....	140
Head Bolt Set .....	45
Pistons, Rally 87mm Forged Alusil, Hard Anodized 11.5:1... 1000	
Rings, 87mm Moly Rings .....	160
Rods, Rally 138mm "H" Beam 525 grams.....	860
Rod Bearing Set, Coated Tri-Metal.....	180
Main Bearing Set, 360° Thrust & Oiling Groove .....	120
Machine Lock Tangs in Main Bearing Caps for above set	
<i>You send us your Main Bearing Caps</i> .....	125
Double Row Timing Chain .....	100
<b>Optional:</b> Single Row Timing Chain Conversion	
using cam sprockets provided by customer .....	250
Top End Gasket Set .....	100
Bottom End Gasket .....	150
Motorsport Front and Rear Crank Seal.....	80
Crankshaft, 88mm Stroke, modified.....	1800

## M50/M50tu/M52/S50/S52 & M42 Heads

include 6% Flow Increase, Surface Turbulence Valves,  
Manganese Valve Guides, Viton Valve Guide Seals, Dual Valve  
Springs, Lightweight Retainers, Valve Spring Perches & Shims.  
Head is glass beaded, cleaned and surfaced before assembly.



## M44 Engine Kits

### M44: E36 318ti '96-98, E36 318i '96-98, Z3 '96-98

#### 2000 Sport M44 - 170 HP

Head, Sport Surface Turbulence/6% Flow Increase .....	1995	600
Sport Intake Camshaft 258°, 11.15mm Lift .....	600	250
Head Gasket .....	140	
Head Bolt Set .....	60	
Pistons, 87mm Forged Alusil Hard Anodized 11.0:1 ....	1000	
Rings, 87mm Moly Rings.....	160	
Rod Bearing Set, Coated Tri-Metal.....	180	
<b>Optional:</b> Rod Bearing Set, STD.....	100	
Main Bearing Set, 360° Thrust & Oiling Groove .....	120	
Machine Lock Tangs in Main Bearing Caps for above set		
<i>You send us your Main Bearing Caps</i> .....	125	
Double Row Timing Chain .....	100	
<b>Optional:</b> Single Row Timing Chain Conversion		
using cam sprockets provided by customer .....	250	
Top End Gasket Set .....	100	
Bottom End Gasket.....	150	
Motorsport Front and Rear Crank Seal .....	80	
Crankshaft, Stock M44 83.5mm .....	Call	

#### 2100 Rally M44 - 190 HP

Head, Rally Surface Turbulence/6 % Flow Increase .....	1995	600
Cam Pair, Intake 272° & Exhaust 258°.....	1200	500
Head Gasket .....	140	
Head Bolt Set .....	60	
Pistons, Rally 87mm Forged Alusil		
Hard Anodized 11.5:1.....	1000	
Rings, 87mm Moly Rings .....	160	
Rods, Rally 138mm "H" Beam 525 grams.....	780	
Rod Bearing Set, Coated Tri-Metal.....	180	
Main Bearing Set, 360° Thrust & Oiling Groove .....	120	
Machine Lock Tangs in Main Bearing Caps for above set		
<i>You send us your Main Bearing Caps</i> .....	125	
Double Row Timing Chain .....	100	
<b>Optional:</b> Single Row Timing Chain Conversion		
using cam sprockets provided by customer .....	250	
Top End Gasket Set .....	100	
Bottom End Gasket.....	150	
Motorsport Front and Rear Crank Seal .....	80	
Crankshaft, 88mm Stroke, modified .....	CALL	

### M44 Heads

*include 6% Flow Increase, Surface Turbulence Valves, Manganese Valve Guides, Viton Valve Guide Seals, Dual Valve Springs, Lightweight Retainers, Valve Spring Perches & Shims. Head is glass beaded, cleaned and surfaced before assembly.*



## MM HiFlo ST Heads

### 4 Cylinder - M10

2002, 320i, 318i ≥'85

Core Deposit

Sport Head.....	2295	300
Race Head.....	2795 - 2995	300
Stock Head.....	1795	300

### 6 Cylinder - M30

3.0cs, Bavaria, 5, 6, & 7 Series ≥'93

Sport Head.....	2695	500
Stock Head.....	2195	500

### Baby Six - M20

325i/e, 528e, 525i ≥'91

Sport Head.....	2495	500
Rally Head.....	2695	500
Stock Head.....	1995	500

### M3 - S14

M3 '88-'91

Sport Head (29.5mm Ports).....	2295	Core*
Options: Adjusting Shim Pads.....	400	

Rally Head (31mm Ports).....	2495	Core*
Options:		
Rally Camshaft.....	750	
Clearance Cam Box for Rally Cam.....	150	
Adjusting Shim Pads.....	400	
EVO Intake Gaskets.....	220	
Ported Intake Manifolds.....	600	

Race Head (31mm Ports).....	2495	Core*
Options:		
Race Camshafts (2).....	1500	
Clearance Cam Box for Race Cam.....	150	
Adjusting Shim Pads.....	400	
EVO Intake Gaskets.....	220	
Ported Intake Manifolds/Throttle Body.....	850	

Stock Head.....	1995	Core*
Options: Adjusting Shim Pads.....	400	

### M5 & M6 - S38 / S88

M5 & M6 '85-'93

Core Deposit

Sport Head, 29.5mm Ports.....	2995	Core*
Options: Adjusting Shim Pads.....	500	

Rally Head, 31mm Ports.....	3295	Core*
Options:		
Rally Camshaft.....	1000	500
Clearance Cam Box for Rally Cam.....	200	
Adjusting Shim Pads.....	500	
Ported Intake Manifolds.....	900	

Stock Head.....	2295	Core*
Options: Adjusting Shim Pads.....	500	

### M42 & M44 Engines

M42: (E30 '90-'91), (E36 '92-'95), (Z3 '95)

M44: (E36/5 318ti '96-'98), (E36 318i '96-'98), (Z3 '96-'98)

Sport or Rally Head, M42.....	1795	750
Head Upgrade, from 7mm to 6mm Valvetrain.....	350	
Sport or Rally Head, M44.....	1995	750

Includes 6% Flow Increase, Surface Turbulence Valves, Manganese Valve Guides, MM "Bee Hive" Valve Springs & Lightweight Retainers

### M50/M50tu/S50/S52/M52/M52tu/M54

M50 Non-Vanos: 325i, 525i '91-'92

M50tu: 325i, 525i '93-'95

M52: 328i, 528i '96-'97

M52tu: 232i, 328i, 528i, Z3 2.3 & 2.8 '99 -'2000

M54: 325i, 230i '01-'06

S50: M3 '95

S52: M3 '96-'99

Sport or Rally Head.....	2795	1000
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Includes 6% Flow Increase, Surface Turbulence Valves, Manganese Valve Guides, MM "Bee HIve" Valve Springs & Lightweight Retainers

Stock Head.....	2195	
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Stock Head: cleaned, glass beaded, 3 angle valve job, reconditioned valves, manganese bronze valve guides, "Bee Hive" valve springs, & retainers

Core\*

No Deposit as BMW Owner Supplies their own Core for rebuilding



## Cams & Head Parts

### Camshafts

<b>4 Cylinder M10 Sport/Rally Camshaft</b>		
290° Duration/10.75mm Lift.....	600	150
<b>6 Cylinder M30 Sport/Rally Camshaft</b>		
290° Duration/10.75mm Lift.....	750	150
<b>Baby Six M20 Sport Camshaft</b>		
286° Intake Lobe Duration/11.75mm Lift.....	750	150
260° Exhaust Lobe Duration/11.2mm Lift		
<b>Baby Six M20 Rally Camshaft</b>		
286° Intake Lobe Duration/11.75mm Lift.....	850	150
272° Exhaust Lobe Duration/11.75mm Lift		
<b>M3 - S14 Rally Intake Camshaft</b>		
276° Duration/11.3mm Lift.....	750	300
<b>M3 - S14 Race Camshafts</b>		
290° Intake Duration/11.7mm Lift.....	750	300
276° Exhaust Duration/11.3mm Lift.....	750	300
<b>M5/M6 - S38/S88 Rally Intake Camshaft</b>		
276° Duration/11.3mm Lift.....	1000	500
<b>M50, M50tu, M52, S50, S52 Sport Camshaft</b>		
262° Intake Duration/11.15mm Lift .....	900	500
<b>M50, M50tu, M52, S50, S52 Rally Camshafts</b>		
272° Intake Duration/11.4mm Lift.....	900	500
258° Exhaust Duration/10.9mm Lift.....	900	500
<b>M42 - M44 Sport Intake Camshaft</b>		
258° Intake Duration/11.15mm Lift .....	600	250
<b>M42 - M44 Rally Camshaft</b>		
272° Intake Duration/11.4mm Lift.....	600	250
258° Exhaust Duration/11.15mm Lift .....	600	250
<b>M42 - M44 Turbo Camshaft</b>		
258° Intake Duration/11.15mm Lift .....	600	250
258° Exhaust Duration/11.15mm Lift .....	600	250

### Head & Valve Train Parts

MM Outer Valve Springs .....	20	Each
<i>Use with stock inner spring on S14, S38, M20 &amp; late M30</i>		
MM Rally Valve Spring Set <b>SOHC</b> .....	45	Each
<i>for M10 &amp; early M30 Sport/Rally Heads</i>		
<i>also M20 IF you no longer have Inner Spring, Retainer &amp; Perch</i>		
<i>Includes Inner and Outer Spring, Retainer, Perch &amp; Shim</i>		
MM Rally Valve Spring Set <b>DOHC</b> .....	45	Each
<i>for M42, M44, M50, M50tu, M52, S50, S52 Sport/Rally Heads</i>		
<i>Includes Inner and Outer Spring, Retainer, Perch &amp; Shim</i>		

### Head & Valve Train Parts - Continued

<b>NEW</b> Valve Compression Tool for M42, M50, S52-M54		
<i>Sold with Valve Spring Purchase .....</i>	30	
<i>Sold Alone .....</i>	50	
Valve Guides, Manganese Bronze .....	15	Each
Rocker Arms: M10, M20, M30 Inspected, 30% stronger....	40	
Dual Chamber Sprayer Bar M30 Engine .....	125	
Distributor Cam Conversion Nut M30.....	125	
Adjustable Cam Sprocket M10 .....	175	
Adjustable Cam Sprocket M30 .....	200	
Single Row Timing Chain Conversion, M10.....	200	
Single Row Timing Chain Conversion, S14		
Using Cam Sprockets provided by customer .....	250	
Single Row Timing Chain Conversion, S14		
Using NEW Cam Sprockets at \$225 each .....	700	
Single Row Timing Chain Conversion, M42/M44		
Using Cam Sprockets provided by customer .....	250	
Single Row Timing Chain Conversion, M42/M44		
Using NEW Cam Sprockets at \$50 each .....	350	

### Head Gaskets & Head Bolts

<b>M10 Engines</b>	
Head Gasket, 94mm Big Bore.....	140
<b>S14 Engines</b>	
Head Gasket, 94.5mm.....	140
<b>M30, S38, Engines</b>	
Head Gasket, 94.5mm & 95.5mm.....	195
<b>Baby Six, M20 Engines</b>	
Head Gasket, Improved Water Flow.....	140
Head Bolts, Set of 14 Socket, 10mm x 150mm long ....	140
<b>M50, M52, S50, S52,</b>	
Head Gasket, Improved Water Flow.....	140

### Block Parts

Sport Forged Alusil Vented Pistons		
Hard Anodized - 10.1:1 .....	250	Each
Rally Forged Alusil Vented Pistons		
Hard Anodized - 10.25 - 11.0:1 .....	250	Each
Moly Rings.....	40	Each
Rally Rods "H" Beam .....	195	Each
Rod Bearing, Coated Tri-Metal.....	45	Each
Main Bearing, Coated & 360° Oil Groove .....	45	Each
<i>Required on the 360° Main Bearings: Labor for machining</i>		
<i>Main Bearing Cap Lock Tang groove.....</i>	25	Per Cap





## Ultimate Transmission Rebuilds

### 4 Cylinder Getrag Transmissions

Core Deposit

#### 320i ≥ '80 -'82

Getrag 245 .....2995 700

Getrag 245 Sport OD .....3995 700

#### 318i ≥ '85, 318is '89-'90,

Getrag 240 .....2995 500

Getrag 240 Sport OD .....3995 500

#### 2002, 320i Race ≥ '79

Getrag 242, Close Ratio 4 Speed .....3995 500

### 6 Cylinder Getrag Transmissions

#### E28 5-Series, E24 6-Series, E23 7-Series

##### from '80 ≥ '82 + '85, & E30 M3 '88 ≥ '91

Getrag 265 .....3295 700

Getrag 265 Sport OD .....4295 700

#### Euro 635csi & M535i '79 ≥ '84

Getrag Sport 262, 265 Sport CR .....3495 1500

#### E30 325i & 325e - all years

#### E28 5-Series '84, '86-'88, E24 6-Series '84, '86-'89

Getrag 260 .....2995 600

Getrag 260 Sport OD .....4295 600

#### Euro 635csi & M535i '79 ≥ '84

#### Z3 1.9 & 2.5, E36 325i & 323i, E46 323i '92 >

Getrag 250 .....2995 700

#### M5, M6 '87 ≥ '91 + Euro M5/M6 '85 ≥ '91

Getrag 280 Instead of a 280 rebuild, we provide the MM 265 Getrag Conversion .....4195 None

#### E46 M3 2001-2007, 540i, M5, Z8, Euro E36 M3

Getrag 420 .....4595 Your Core

### 6 Cylinder ZF Transmissions

#### E36: M3, 328i, E46: 328i, 330i, E39: 528i, 530i

ZF S5-31 .....3195 800

#### E46: 330i '04 > + 530i '04 >

ZF S6-37 .....3695 800

## Ultimate Transmission Conversions

### 5 Speed Conversions

Core Deposit

Getrag 245 + Kit for 2002 4 Speed .....5495 200

Getrag 245 + Kit for 2002 4 Speed Used Transmission, Inspected and Sealed .....3495 200

MM 5 Speed Kit Only with 4 Bolt Flange No Transmission .....1795 200

MM 5 Speed Kit Only with 3 Bolt Flange No Transmission .....1995 200

MM Crossmember Mount ..... 450

ZF S5-31 CR + Kit for 325i/e '84 -'91 ..... 5495 200

ZF S5-31 CR + Kit for 325i/e '84 -'91 Used Transmission, Inspected and Sealed .....2995 200

Getrag 265 + Kit Conversion for 280 M5/M6

Alternative Upgrade for the Stock 280 Getrag .....4195

Getrag 265 + Kit Conversion for 280 M5/M6

Alternative Upgrade for the Stock 280 Getrag

Used Transmission, Inspected and Sealed .....2995

### Transmission Installations

5 Speed ..... 600

6 Speed ..... 850

5 Speed Conversions .....1000 - 1400

CR = Close Ratio

OD = Overdrive

MM = Metric Mechanic



## Differentials

### MM Variable Limited Slips

All BMW Models ≥'98, (includes 2002, E9, E21, E12, E23, E24, E28, E30, E31, E32, E34, E36/M3, E36/5, 318ti, Z3, Z3M Coupe and Z3M Roaster: 1st Gen -168 & 188 Differentials- Z3, M23, M23 Coupe

Variable Limited Slip 2 Disc .....	1395	300-600
Sport Variable Limited Slip 3 Disc .....	1595	300-600
Rally Variable Limited Slip 4 Disc .....	1795	300-600
Race Variable Limited Slip 5 Disc.....	1995	300-600
Standard LS Differentials .....	1295	600
Standard Open, Non Limited Slip .....	1095	600
E9 Sideloader, Non Limited Slip .....	1395	600
E9 & E12 Sideloaders, Prices Vary .....	1995	600 +
2002 LS Conversion Flanges Pair .....	650	
<i>If you have 320i Limited Slip Flanges to send in, you will be refunded \$200</i>		
Additional Charge for Gear Change Ratio .....	250/450	
Metric Mechanic Differential Installations.....	400	

### E46, E39 (6 cyl. only) '99 and later, 2nd Gen -188 Differentials

Sport Variable Limited Slip 3 Disc .....	2695	500
Additional Charge for Gear Change Ratio .....	450+	
Replace Differential Bushings.....	200	
HiTorque Flanges, Pair.....	800	
Metric Mechanic Differential Installations.....	400	

### All M5's, 8 Series, E32 740i & 750i - 1st Gen 210 Differentials

(Excluding E60 & E65)

Sport Variable Limited Slip 2 Disc .....	1995	500
Additional Charge for Gear Change Ratio .....	450-750	
Metric Mechanic Differential Installations.....	600	

### E39-540i, E38-740i - 2nd Gen - 210 Differentials

#### Z8, E52 - 2nd Gen - 210/215 Differentials

Quaife

Conversion/Retrofit .....	1500	No Deposit
Metric Mechanic Differential Installations.....	600	

Owner must provide their own Quaife Unit & Core  
Please call for gear options & more information.

### E90, 323i, 325i, 328i, 330i, 2004 > 3rd Gen -188 Differentials

Quaife

Conversion/Retrofit with carrier tapered Roller Bearing for greater load carrying capacity .....	1800	No Deposit
Metric Mechanic Differential Installations.....	600	

Owner must provide their own Quaife Unit & Core

### E90 & E92 335i 2006 > 3rd Gen 210/215 Differentials

Quaife

Conversion/Retrofit with carrier tapered Roller Bearing for greater load carrying capacity .....	1800	No Deposit
Metric Mechanic Differential Installations.....	600	

Owner must provide their own Quaife Unit & Core

## Flywheels & Clutch Assemblies

### Lightened Single Mass Flywheels

Most Models ≥'88, Including E30 M3 & E34 M5  
Using a single stock mass Flywheel ..... 450 Core Deposit 200

Models '89 >  
With Dual Mass Flywheels, require Conversions shown below

### Converting from Dual to Single Mass - Lightened Flywheel & Clutch Combinations

**E30 325i/s** with a MM 3000 or 3200 Rally Engine  
MM 12 lb. Lightened Single Mass Flywheel & 240 mm Clutch Assembly ..... 1100  
M30 Flywheel required for core deposit refund..... 200

### E30 318is & All 4 Cyl E36 & Z3 Models

MM 11 lb. Lightened Single Mass Flywheel & 228 mm Clutch Assembly ..... 1150  
M42 or M44 Flywheel Ring Gear required for core deposit refund..... \*200

### E36 325is, '92 - '98

MM 11 lb. Lightened Single Mass Flywheel & 228 mm Clutch Assembly ..... 1150  
M50 Flywheel Ring Gear required for core deposit refund..... \*200

### E36 M3 328i, E34 535i, '89 - '93

MM 12.5 lb. Lightened Single Mass Flywheel & 240 mm Clutch Assembly ..... 1250  
M50, M52, S50, S52 Flywheel Ring Gear required for core deposit refund..... \*200

\* Stock Dual Mass Ring Gear required for core - remove and return or just return the entire Flywheel

### Clutch Upgrades

Clutch Assembly 215mm.....	300
Clutch Assembly 228mm.....	375
HiTorque Clutch Assembly 228mm .....	425
HD Clutch Assembly 240mm .....	600
HiTorque Clutch Assembly 240mm .....	750

For Additional Racing Products, please call for more information - 1-573-765-1269

### Differential Terminology

LS = Limited Slip  
VLS = Variable Limited Slip  
1st Gen = Longer Pinion Shaft  
2nd Gen = Short Pinion Shaft  
3rd Gen = Very Short Pinion Shaft

## Intake & Exhaust

### Intake

		Core Deposit
M20 Pulse Chamber Intake Manifold .....	1200	150
M42 Pulse Chamber Intake Manifold .....	1000	150
Ported Intake Manifolds		
3, 5, 6, 7 Series 1984 - 1991.....	750	150
Ported Intake Manifolds M3 S14 Rally ....	600	* Core
Ported Intake Manifolds/Throttle Body		
M3 S14 Race .....	850	* Core
Ported Intake Manifolds		
M5/M6 S38 Rally.....	900	* Core
38 DGES Carburetor Kit & Manifold ....	850	150

### Exhaust

Exhaust Manifolds Ported		
3, 5, 6, 7 Series 1984 - 1991.....	500	150
System 300, E28, E24 .....	1350	
System 300, M5, M6 .....	1350	

Core\*

No Deposit as BMW Owner Supplies their own Core for rebuilding