SUZUKI® HAYABUSA VALVE GUIDE COST SAVING SOLUTION





CUSTOM CARBIDE REAMER FOR ONE SHOT SIZING

THE RIGHT TOOLS FOR THE JOB! WWW.KPMI.US



Applications

Suzuki[®] Hayabusa Applications

Carbide Reamer

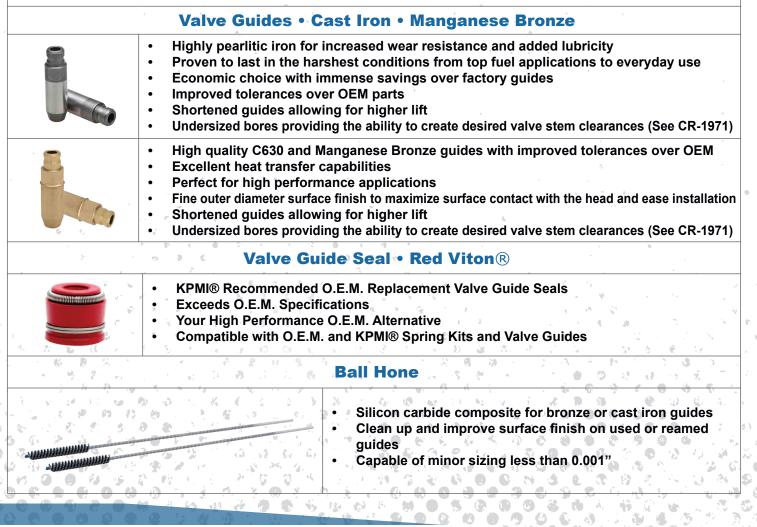




- Proprietary design to provide recommended valve clearances
- Solid carbide, straight fluted reamers designed to be the ultimate in long-lasting cutting tools
- Precision ground outer diameter to ±0.0002", guaranteeing properly sized valve guide bores
- Long Pilot for added stability and accurate alignment
- Single pass guide bore sizing
- · Cut guide sizing time in half and improve shop efficiency

In-house, KPMI® designed Solid Carbide Reamers have been created with efficiency and precision as our top objectives. These 6-flute straight cut reamers have a purpose built, extra-long pilot that has been toleranced to provide stability and precision when initiating your sizing pass. Our pilot allows any user to size a bronze or cast iron guide by hand in a single pass without worry of a wandering reamer. This is the one and only Solid Carbide Reamer designed specifically for your Hayabusa valve guide sizing needs.

Important Note: Do not attempt to use these reamers to size C630 guides. It is also not advisable to use on a bronze guide after being used on cast iron.



ORDER 650-557-2046

N

Applications

Suzuki® Hayabusa Applications

Valve Guide Installer • Remover



- Machined to properly fit KPMI® Hayabusa valve guide designs
- Extra-long handles provide ergonomically grooved gripping area and the ability to work in tough to reach situations
- Guide installation tool is designed to register on uniquely designed seal relief minimizing guide deformation on the seal end, ensuring proper height above the head without guess and check measuring as seen in Figure (1)
- Guide removal tool allows the user to drive any 5mm guide with a 10mm outer diameter through lengthy guide bores thanks to its added length below the gripping area shown in Figure (2)
- Driver material is a high strength bronze purposefully selected for its shock absorption capabilities allowing for
 comfortable use as well as compatibility with east and because suides
- comfortable use as well as compatibility with cast and bronze guides

Valves • White Diamond® Inconel ® • Tensilite® Titanium

- 1 piece forging with White Diamond[™] hard chrome stems for impervious wear resistance
- Inconel® 751 exhaust valves designed to outperform in the most extreme forced induction or racing applications
- Flow bench tested to optimize exhaust profiles
- 100% Quality Controlled
- Dimensionally identical to OEM valves while offering many advantages
- One piece forged titanium and EV8-SS alloys offer uninterrupted grain flow
- Superior tensile strength and stability at and above operating temperatures
- Every surface either fully CNC machined or ground
- Super-finished stem allowing for Formula 1 level coating consistency
- 100% (PVD) Chromium Nitride (CrN) coated
- Material and workmanship that creates outstanding durability and performance
- Competitive pricing allowing for a value conscious rebuild

The High Performance Racing Valve Kit for the Suzuki Hayabusa is a specially formulated combination of valve materials and sizes, designed in conjunction with top racers, for maximum performance. The kit includes a +1mm oversize Tensilite Titanium Intake Valve and a White Diamond Inconel Exhaust Valve (standard head size). Components are designed for increased air flow and resistance to the high operating temperatures from applications running forced induction and/or exotic fuels. This combination has been offered as a kit to provide the greatest value for builders and racers looking for the ultimate valve setup.

Kit includes: 8pcs. Titanium +1mm Oversize Intake Valve / 8pcs. Inconel® Std. Exhaust Valve

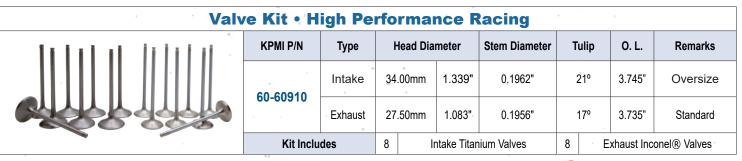
SUZUKI® HAYABUSA VALVE GUIDE COST SAVING SOLUTION

- Everything you need for proper guide installation, removal, and sizing
- Purpose built for the Suzuki® Hayabusa
- Improvement over factory in all aspects

Recommended High Speed Steel • Solid Carbide Reamer									
· A	KPMI P/N	Description	Overall Length A	Cutting Diameter B	Pilot Diameter C	Shank Diamete D			
B	GR-1970	0.1970 HSS valve guide reamer	7.125"	0.1970"	0.191"	0.190"			
c	D CR-1971	0.1971 carbide valve guide reamer	7.625″	0.1971"	0.192"	0.190"			

Important Note: Do not attempt to use these reamers to size C630 guides. It is also not advisable to use on a bronze guide after being used on cast iron.





Valv	e • Titan	ium • 1	Fen silit	e®•	Intake 🔝	UCTS		n
	KPMI P/N	Туре	Head Dia	meter	Stem Diameter	Tulip	0. L.	Remarks
	60-60412T	Intake	33.00mm	1.299"	0.1962"	21º -	3.745"	Standard
	60-60413T	Intake	34.00mm	1.339"	0.1962"	21º	3.745"	Oversize

,-	 aives	- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	Winte Die	inona			JL		· .
ý			KPMI P/N	Туре	Head Diameter	Stem Diameter	Tulip	0. L.	
	 1		- <u>v</u> <u>v</u>	2 2 2			, ,	- 39	7

27.50mm

1.083"

0.1956"

17°

3.735"

Remarks

Standard

				60-60437K	Exhaust	28.50mm	1.122"	0.1956"	17°	3.735"	Oversize
-		Valve	s • V	Vhite Dia	mond®	• Hai	rd Ch	rome Ste	ms s	: (
		6		KPMI P/N	Туре	Head Dia	neter	Stem Diameter	Tulip	0. L.	Remarks
R		1. 1		60-60008H	Intake 🕴	33.00mm	1.299"	0.1962"	18°	3.740"	Standard
		-	- i -	60-60009H	Intake	34.00mm	1.339"	0.1962"	18°	3.750"	Oversize
	000500	1		60-60010H	Exhaust	27.50mm	1.083"	0.1956"	17	3.735"	Standard
		1 G.	12	60-60011H	Exhaust	28.50mm	1.122"	0.1956"	17°	3.725"	Oversize

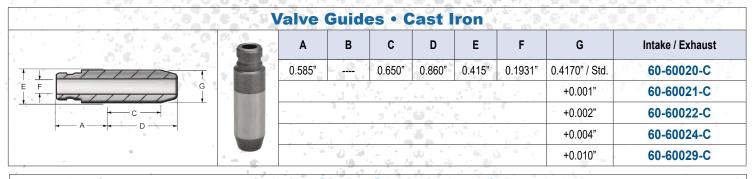
Exhaust

60-60436K

ORDER 650-557-2046

ь

	Valve Guides	• C63	60 Br	onze	• Ma	ngan	ese l	Bronze	<u>, , , , , , , , , , , , , , , , , , , </u>	
			_		_	_	_		Intake	/ Exhaust
		Α	В	С	D	E	F	G	C630 Bronze	Manganese
ł		0.560"	0.585"	0.650"	0.860"	0.460"	0.1962"	0.4170" / Std.	60-60020	60-60020-M
		3.6				SCR		+0.001"	60-60021	60-60021-M
ł	← A →		14 P			6, 4	4.5	+0.002"	60-60022	60-60022-M
								+0.004"	60-60024	60-60024-M
						9	\$	+0.010"	60-60029	60-60029-M



	Valve Guide Seals • Viton®										
Stem Diameter	0.L	Seal O.D.	Seal Style		Designed for thes	e guide specs		Туре			
E Omm	0.350"	0.405"	,	Α	В	С	D	Intake			
5.0mm	0.350	0.405	4	0.340"±0.005"	0.303"	0.125"	0.230"	Exhaust			
- D			Part Number		Qua	ntity	Quantity Incentive				
- c			ξ. 	71015-4		Pkg	. of 4	0%			
		71015-8			1	Pkg	. of 8	0%			
ØA	_			71015-16		Pkg.	of 16	Less- 10%			
			ê 5. e ⁹	71015-50	0	Pkg.	of 50	Less- 15%			
ØB		1		71015-100	۵ · · · · · · · · · · · · · · · · · · ·	₋Pkg.	of 100	Less- 20%			

		Valve	Guide	e Instal	ler				
•	- A		0.L	Body Ø	Inner Ø 1	Inner Ø 2	Depth 1	Depth 2	
B	р с 	KPMI P/N	Α	В	С	D	E	F	
, î	E	60-61400	8.000″	0.615″	0.425″	0.348"	0.285"	0.650″	

Note: Specifically designed for KPMI's Cast Iron, C630 and Manganese Bronze guides This tool can be used on various other applications depending on fitment. Please refer to the diagram and the dimensions provided to determine if you can use this tool outside of the KPMI® designed application(s)

n de la companya de	Valve	Guide	Remov	/er		د ۲ _۲	1 1 1 1	a
· · · · · · · · · · · · · · · · · · ·	KPMI P/N	0.L	Body Ø	Ø1	Ø 2	Length 1	Length 2	Quantity
		A	В	С	D	E	F	Quantity
	60-61405	8.000″	0.615″	0.182"	0.397″	1.000″	4.000"	Pkg. of 1
		> >	0 4 0 M	0 0 9	63 V 3		9 9	

Works with other applications (see dimensions for compatibility)

Manufacturing Valvetrain For 80-Years & 2-Cenerations Contact a KPMI® Sales Representative Today!

Quantity

Pkg. of 1



KIBBLEWHITE PRECISION MACHINING INC.



















Find your parts and order online at www.kpmi.us or contact your local dealers and distributors today!

KIBBLEWHITE PRECISION MACHINING, INC Billing: 4320 Coast Hwy. 1 Pacifica, CA 94044 Shipping: 371 Princeton Ave. Half Moon Bay, CA 94019 Machine Shop: 580-H Crespi Dr. Pacifica, CA 94044 WWW.KPMI.US - FACEBOOK.COM/KPMUSA SALES@KPMI.US

Rotall Prico List

KPMI P/N	Description	Retail
GR-1970	Valve Guide Reamer, HHS, 0.197	\$86.98
CR-1971	Valve Guide Reamer	\$124.80
GH-1968	Valve Guide Hone, 5.0mm	\$40.14
60-60910	Valve Kit, High Performance Racing	\$1,131.57
60-60412T	Valve, Tensilite® Titanium	\$109.33
60-60413T	Valve, Tensilite® Titanium	\$109.33
60-60436K	Valve, White Diamond® Inconel®	\$47.83
60-60437K	Valve, White Diamond® Inconel®	\$47.83
60-60008H	Valve, White Diamond® Hard Chrome Stems	\$26.62
60-60009H	Valve, White Diamond® Hard Chrome Stems	\$26.62
60-60010H	Valve, White Diamond® Hard Chrome Stems	\$26.62
⁹ 60-60011H	Valve, White Diamond® Hard Chrome Stems	\$26.62
60-60020	Guide, C630, IN/EX STD	\$15.92
60-60021	Guide, C630, IN/EX +0.001	\$15.92
60-60022	Guide, C630, IN/EX +0.002	\$15.92
60-60024	Guide, C630, IN/EX +0.004	\$15.92
60-60029	Guide, C630, IN/EX +0.010	\$15.92
60-60020-M	Guide, Mng. Brz., IN/EX STD	\$5.99
60-60021-M	Guide, Mng. Brz., IN/EX +0.001	\$5.99
60-60022-M	Guide, Mng. Brz., IN/EX +0.002	\$5.99
60-60024-M	Guide, Mng. Brz., IN/EX +0.004	\$5.99
60-60029-M	Guide, Mng. Brz., IN/EX +0.010	\$5.99
60-60020-C	Guide, Cast Iron, IN/EX STD	\$5.57
60-60021-C	Guide, Cast Iron, IN/EX +0.001	\$5.57
60-60022-C	Guide, Cast Iron, IN/EX +0.002	\$5.57
60-60024-C	Guide, Cast Iron, IN/EX +0.004	\$5.57
60-60029-C	Guide, Cast Iron, IN/EX +0.010	\$5.57
71015-100	Seal, Red Viton, 5mm Stem x 0.340" Guide (Pkg. of 100)	\$279.21
71015-16	Seal, Red Viton, 5mm Stem x 0.340" Guide (Pkg. of 16)	\$50.25
71015-4	Seal, Red Viton, 5mm Stem x 0.340" Guide (Pkg. of 4)	\$13.96
م 71015-50	Seal, Red Viton, 5mm Stem x 0.340" Guide (Pkg. of 50)	\$148.33
71015-8	Seal, Red Viton, 5mm Stem x 0.340" Guide (Pkg. of 8)	\$27.92
60-61400	Tool, Guide Driver, Mng. Brz.	\$31.54
60-61405	Tool, Guide Un-installer, Mng. Brz.	\$31.54