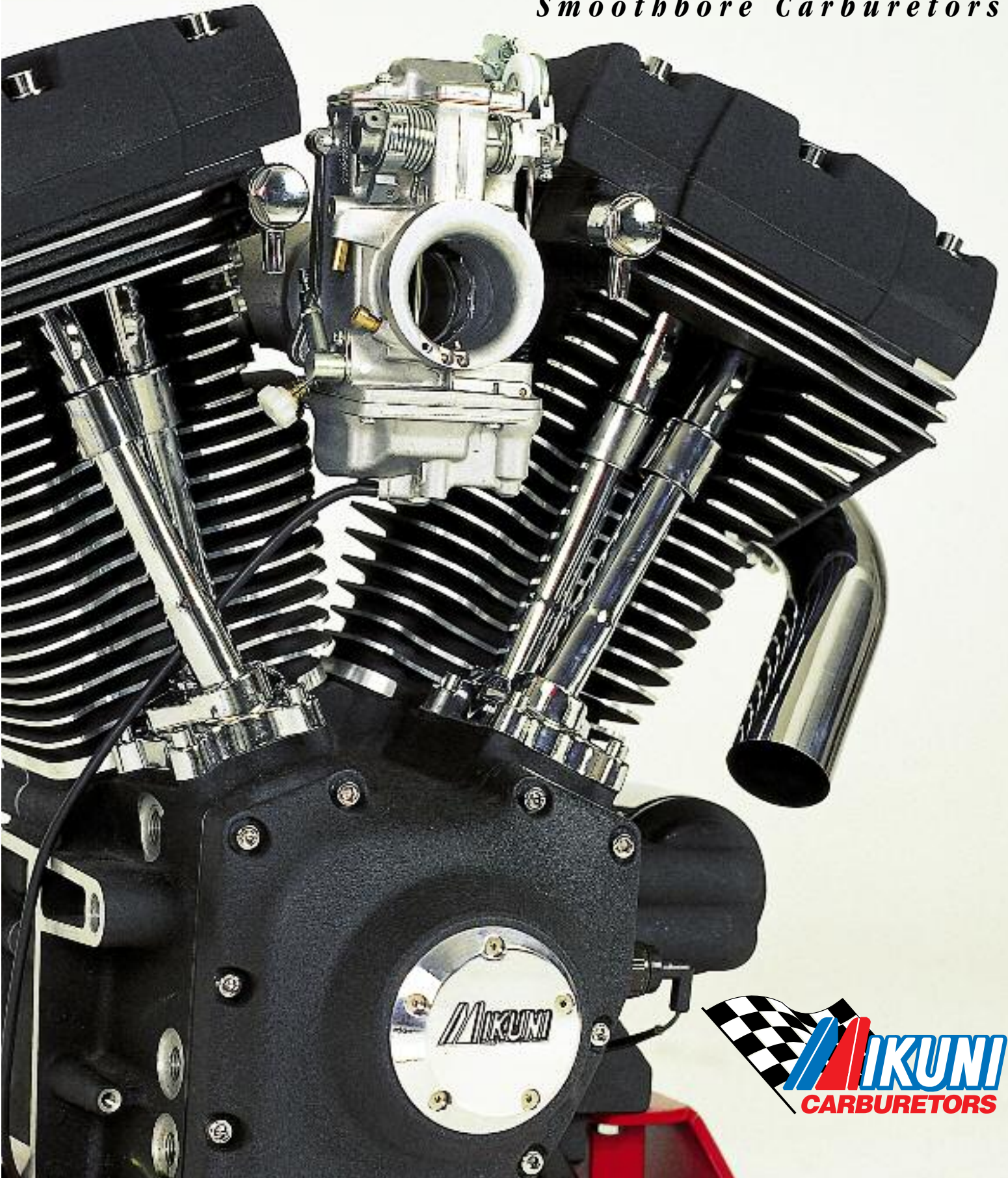


P U R E P E R F O R M A N C E

HSR 42/45/48

Smoothbore Carburetors



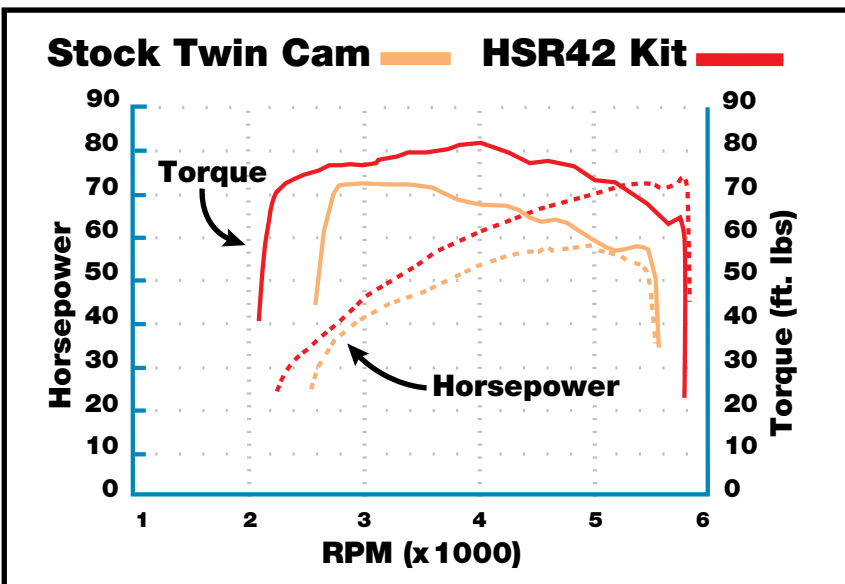
HSR 42/45/48

Smoothbore Carburetors

*Going fast has never been so easy!
The number one performance carburetor for Harley-Davidsons and American Big Twins now slips onto any late model Harley-Davidson using the original throttle cables. Mikuni's Twin Cam, Big Twin and Sportster / Buell Easy Kits even use Harley's existing manifold, choke cable and air filter.*

Keep a Harley's stock factory look and fit with better throttle response, improved acceleration, increased power and torque. Mikuni's smoothbore, flatslide throttle with roller bearings, and accelerator pump technology delivers peak performance from idle to Wide Open Throttle.

Available in 42, 45, and 48mm throttle bores for use with stock, mild, and highly modified engines.



Bolt On a 25% Power and Torque Increase!

Mikuni's Easy Kit dramatically improves the performance of Harley-Davidson's Twin Cam engine and delivers unmatched throttle response and acceleration! Used with a Screamin' Eagle Air Filter and an aftermarket exhaust system like the optional Screamin' Eagle Mufflers, the HSR42 Easy Kit adds 25% more horsepower to the output of Harley's Twin Cam motor. Maximum horsepower is increased from 57.8 to 72.2 hp, and maximum torque from 71.4 to 80.7 ft/lbs.

HSR Applications



Mikuni HSR Series Carburetor Kits

HSR Carbs use stock Harley-Davidson throttle cables.

The latest 42/45/48mm smoothbore carburetors from Mikuni install quickly using the original stock throttle cables. The HSR flatslide carb delivers excellent throttle response and control. The smoothbore allows the engine to reach its full power potential, so you accelerate and pass with confidence. You'll get good gas mileage and many years of dependable, carefree performance. These kits cover more models with fewer part numbers. Kits include instructions and hardware for each application.

Easy Kits for Sportsters, Big Twin and Twin Cam models

These kits are designed to work with your original Harley-Davidson intake manifold, choke cable, air cleaner and throttle cables. You can run other high performance air filters designed for the CV type carb by using the special adapter included in the kit.

- 42-7** 1990 to 1999 1340 Big Twin Evo with stock CV type manifold. Includes 42mm carb, airbox adapter and chrome cover.
- 42-18** 1999 to present Twin Cam, 1990 to '99 Big Twin Evo Includes 42mm carb, air box adapter, instructions. Twin Cam and Evo engines require the use of an aftermarket air cleaner. Will not work with stock air box.
- 42-10** 1994 to 2004 Sportster 1200. Includes 42mm carb, with special air box back plate. Requires the use of the stock oval cover and a Screamin' Eagle high flow replacement filter.
- 42-11** 1994 to 2006 Sportster 1200, Buell models. Must use with aftermarket performance air filter.
- 45-5** 1999 to present Twin Cam, 1990 to '99 Big Twin Evo Includes 45mm carb, air box adapter, instructions. Must use a H-D Screamin' Eagle Manifold Kit: Nos. 29634-00 (HTTC), 29635-99 (TC), or 29636-99 (Evo)

Total Kits for Big Twin Evolutions & Twin Cam models

These kits are complete with everything needed for a total installation. Kits include an HSR 42mm or 45mm carburetor, new performance manifold, rubber flange, high flow air filter, chrome cover, chrome breather kit and mounting hardware.

Stock throttle cables from 1990 and later models can be used.

Note: 1984 to 1989 Evo models will need new cables from a similar 1990 to 1995 model.

HSR42 Kits

42-8 1984 to 1999 1340 Big Twin Evo. Includes breather kit #KHS-020 for 1993 and later models. Note: 1984 to 1989 models require cables from 1990 to 1995 model bikes.

42-19 1999 to present Twin Cam 88/95. Includes new breather kit #KHS-030 for Twin Cams. Note: Use your stock throttle cables.

HSR45 Kits

45-2 1984 to 1999 1340 Big Twin Evo. Includes a 45 mm big bore carburetor, breather kit #KHS-020 and a 45mm flange.

45-3 1984 to 1999 1340 Big Twin Evo. Same as kit above without intake manifold.

45-4 1999 to present Twin Cam 88/95. Includes 45mm carb, breather kit #KHS-030, new manifold with MAPS location and 45mm flange.

Big Twin Evo CA Legal Kits

These kits may be used in California when all stock original components are unchanged. Kits are exempt from emission laws when installed according to instructions.

42-6 1990 to 1998 1340 Big Twin Evolution models sold in California.

Includes 42mm C.A.R.B. carb, airbox adapter, A/C cover and instructions. C.A.R.B. exemption No. D-389-4.



Race Kit 48mm for Big Motors

Designed for the serious race engine builder and extreme street motor enthusiast looking for more power. Recommended for 120ci engines or bigger with high flow heads and cams. Kits include a 48mm smoothbore carb, rubber mounting flange (78mm bolt hole centers), choke cable, four main jets. Builder supplies manifold and appropriate air filter or velocity stack. Uses stock Harley CV type cables.

- 48-2** HSR48 Race Kit, Standard Standard cast alloy body, cadmium fittings
- 48-2P** HSR48 Race Kit, Polished Hand polished cast alloy body, chrome fittings

HSR Series 42/45/48 Smoothbore Kits

Every Mikuni Carburetor Kit is an easy bolt-on application. Each HSR carburetor in the kit comes pre-jetted and ready to run!



◀ **Easy Kits 42mm** Keep your stock look with our uniquely designed Easy Kit which uses your stock manifold and cables. Our special adapter allows you to retain your stock airbox or use the Screamin' Eagle performance air filter kit. California A.R.B. Legal Kits available for EVO Big Twin applications.

Race Kits 48mm A real racing carburetor for monster motors. The new HSR48 delivers the highest airflow with accurate fuel metering for more power and precise throttle control. An extended main jet and larger needle valve assembly assure maximum fuel flow to very powerful engines.

Intended for use by experienced builders.

Total Kits ▶ 42/45mm

Go for high flow! The complete Total Kit includes a special manifold, rubber flange and high flow air filter. Total Kits allow fitment of a HSR42 or 45mm carburetor to any Big Twin Evolution or Twin Cam model. Our high flow filter supports 100 horsepower with no loss from filter restriction. (Manifold clamps, seals are not included in the kit).



◀ Sportster / Buell Kits

Mikuni offers two different HSR42 Kits for Sportsters and Buells. One kit, just for Sportsters includes a special airbox backing plate as shown to work with the stock oval cover and a Screamin' Eagle high flow replacement filter. The other kit, without the backing plate, works on Buells and Sportsters with an aftermarket performance air filter assembly.



Carburetor kits not designated as C.A.R.B. exempt, are not legal for motor vehicles operated on public highways in the state of California or in other states and countries where similar anti-pollution laws may apply.



Individual HSR42/45 Carburetors

For the performance engine builder needing the carburetor only for specific custom applications. Available in standard aluminum finish or the polished version. (Note: Choke cable is included, except on TM42-6 which will use stock choke cable from CV type carb).

TM42-6	HSR 42mm Carburetor, Standard finish
TM42-6PK	HSR 42mm Carburetor, Polished version
TM45-2K	HSR 45mm Carburetor, Standard finish
TM45-2PK	HSR 45mm Carburetor, Polished version

Mikuni HSR Accessories

Crankcase Head-Breather Kits

For the installation of HSR Carburetor Kits using the Mikuni K&N high flow filter on Big Twins and Twin Cams.

KHS-020	To mount HSR42/45 carb and filter to Evo Big Twins, includes the new chrome banjos, vent bolts and brackets.
KHS-030	To mount HSR42/45 carb and filter to Twin Cam engine, includes the new chrome banjos, vent bolts and brackets.

Jet Assortment Kit for HSR

Jet Assortment Kits contain 44 pieces in a special jet box. Included are 2 ea. of a wide range of Main Jets, Pilot Jets, Needles, A/P Nozzles, Needle Clips, Needle Washers.



KHS-025	HSR42 Jet Kit with box, 44 piece assortment.
KHS-045	HSR45 Jet Kit with box, 44 piece assortment.
KHS-048	HSR48 Jet Kit with box, 44 piece assortment.

HSR42/45/48 Carb Rebuild Kits

All the necessary parts and gaskets to freshen up an HSR carb. Includes needle valve assembly, O-rings, gaskets, screws.

KHS-016	Rebuild Kit for HSR42/45 Carb with 4.2 needle valve & exploded view instructions.
KHS-031	Rebuild Kit for HSR48 Carb with 4.5 needle valve & exploded view instructions.

Optional and Replacement Parts

990-605-065	Short Idle Screw Adjuster (optional). Uses standard spring.
TM42/32	Long Idle Cable Adjuster (standard). Spring not included.
990-662-002	Choke Cable, enrichener.
HS42/001K	Air Box Adapter Kit, std. finish
HS42/001-CHR-K	Air Box Adapter Kit, chrome finish
HS42/002	Adapter Screws, use three per adapter.
HS42/003	O-Ring Seal for airbox adapter.
HS42/018-42K	Rubber Flange Adapter, early 42mm black w/stainless steel clamp.
HS42/018-45K	Rubber Flange Adapter, early 45mm black w/stainless steel clamp.
HS42/061-45	Intake Manifold for HSR42/45 mm, Evo style without hole.
HS42/061-45TC	Intake Manifold for HSR42/45 mm, Twin Cam style with MAPS hole.
HS42/062-42K	Rubber Flange Adapter, 42mm black w/stainless steel clamp.
HS42/062-45K	Rubber Flange Adapter, 45mm black w/stainless steel clamp.
HS42/062-48K	Rubber Flange Adapter, 48mm black w/stainless steel clamp.
HS42/012	Air Filter, K&N 2.5 inch, standard in kits, washable
HS42/012-300	Air Filter, K&N 3.0 inch, high performance, washable
HS42/059	Air Cleaner Cover, chrome w/cutouts
HS42/060	Air Cleaner Cover, chrome wo/cutouts
KHS-028	Chrome Carb Top 42/45 w/Mikuni
KHS-029	Chrome Carb Top 42/45 w/Mikuni
KHS-032	Chrome Carb Top 48 w/Mikuni logo

Jetting Parts

High speed (main), low speed (pilot) jets, jet needles and accelerator pump nozzle for the HSR42/45/48 carburetors.

VM28/486 -(size)	Pilot Jets, sizes 15 to 50
N100.604 -(size)	Main Jets, sizes 140 to 240
J8-8DDY01 -(size)	HSR42 Jet Needles, size 95, 96, 97 and 98, standard in HSR42 is 97.
J8-8CFY02 -(size)	HSR45 Jet Needles same as above
J8-8CFY15 -(size)	HSR48 Jet Needles same as above
TM42/11 -(size)	Accelerator Pump Nozzle, size 50, 60, and 70, standard is 70.
N124.063	Accelerator Pump O-Ring

Throttle Cables - early HSR 42/45

HSR42/45 Carb Kits from 1994 to 1999 required Mikuni throttle cables. HSR42 carbs made after May 1999, and HSR45 made after March 2000 use stock Harley-Davidson cables.

HS42/028-A	Open (Throttle) Cable, 1970 to 1995, 38 inch screw-in type.
HS42/029-A	Close (Idle) Cable, 1970 to 1995, 38 inch screw-in type.
KHS/039	Open (Throttle) Cable, 1970 to 1995, 47 inch screw-in type.
KHS/040	Close (Idle) Cable, 1970 to 1995, 47 inch screw-in type.
KHS/043	Open (Throttle) Cable, 1996 to present, 38 inch push-in type.
KHS/044	Close (Idle) Cable, 1996 to present, 38 inch push-in type.
KHS/041	Open (Throttle) Cable, 1996 to present, 47 inch push-in type.
KHS/042	Close (Idle) Cable, 1996 to present, 47 inch push-in type.