

**PERFORMANCE PARTS  
FOR ROYAL ENFIELD® 650 TWIN**

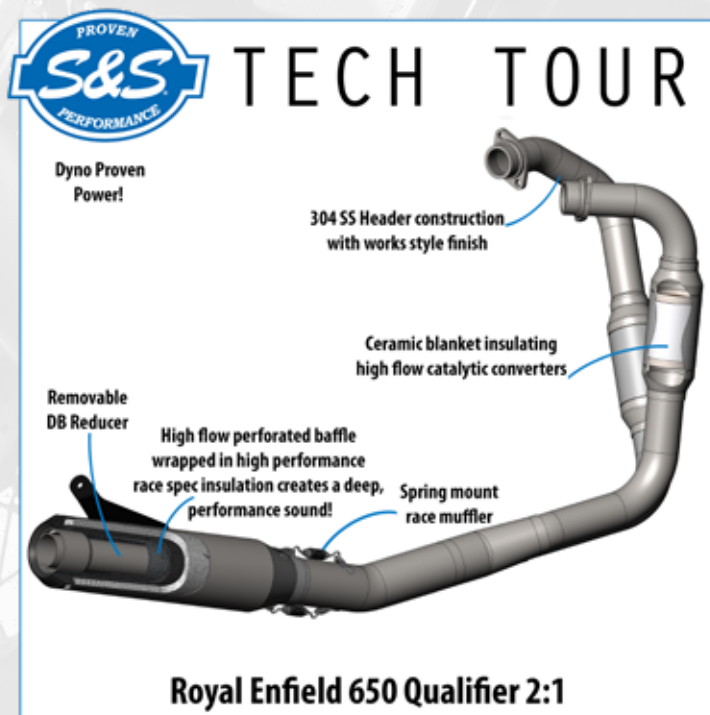
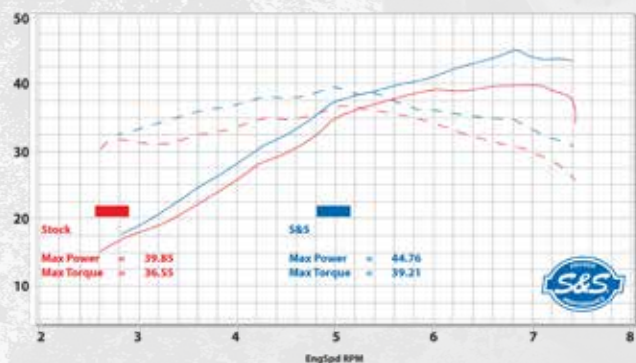




The Qualifier is an aggressively styled 2-1 race replica exhaust system built for 2019-2020 RE 650 models. Crafted from TIG welded brushed stainless steel, it's as durable as it is good looking and sheds a full 28 lbs over the stock system. More importantly it bumps horsepower 12% and torque 7% while emitting a deep race note that's just as happy on the track as it is on the street.

## Qualifier 2:1 Exhaust System for RE 650 Twins

- Aggressive 2:1 race styling
- Shed 28 pounds while improving performance and sound
- 12% increase in peak hp and 7% increase in torque (when combined with S&S high flow air filter)
- Durable all Stainless Steel construction



Part #	Description
785016	Qualifier 2-1 Performance Exhaust System for Royal Enfield® 650 Twins
785017	Qualifier 2-1 Performance Exhaust System for Royal Enfield® 650 Twins- RACE ONLY

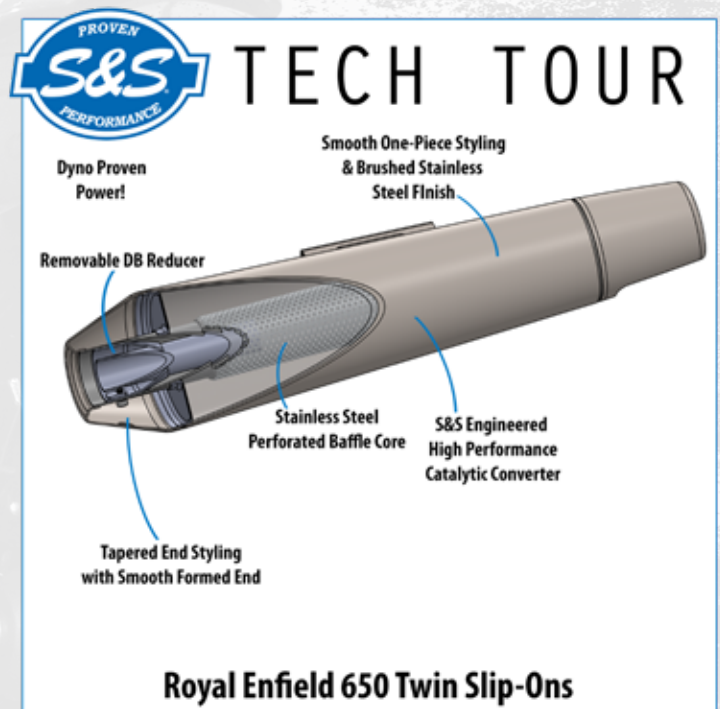






## Tapered Cone Slip-ons for RE 650 Twins

- Improved horsepower & torque
- Brushed Stainless Steel Finish
- Removable dB reducer
- Deep performance exhaust note
- Durable all Stainless Steel construction
- Stock-----22.4 lbs (10.1 kg)  
Race Only-----9 lbs (4 kg)



Part #	Description
785000	Race Only Stainless Slip-On Set for Royal Enfield® 650 Twins







## 650 Twin Air Filter Features

### Air Filter-

- High-flow air cleaner, flows 12% better than stock (34.7cfm vs. stock 30.9cfm)
- Washable, no more replacing dirty air filters
- Easy to install

### Cover Eliminator-

- High-flow performance. 95% increase in flow, when paired with the S&S air filter (60.4 cfm vs. stock 30.9 cfm)
- Made from durable stainless steel



Part #	Description
785002	High-Flow Replacement Air Filter for Royal Enfield® 650 Twins
785003	High-Flow Air Intake Eliminator Plate Kit for Royal Enfield® 650 Twins







## High Performance Cam

Intake			
Open	Close	Duration	Lobe Center
1° BTDC	35° ABDC	216	107

Exhaust			
Open	Close	Duration	Lobe Center
32° BBDC	10° ATDC	222	101

High lift and longer duration cam builds power sooner in the RPM range and holds it for longer. The new S&S cam for the 650 Twin uses the stock adjustable timing sprocket to allow you to dial in the power curve to match your riding style.

Part #	Description
785008	High-Performance Camshaft Kit with Shims for Royal Enfield® 650 Twins



750cc Big Bore Kit		
	Stock	750 Kit
Bore x Stroke	78 x 67.8mm	83.5 x 67.8mm
Compression Ratio	9.5:1	11.0:1
865cc Big Bore Kit		
	Stock	865 Kit
Bore x Stroke	78 x 67.8mm	90 x 67.8mm
Compression Ratio	9.5:1	11.0:1

These high compression pistons feature a 7cc raised dome to achieve a compression ratio of 11:1 (from 9.5:1). Higher compression is a key factor in increasing performance.

Part #	Description
785005	High-Compression 11:1 Piston Kit for Royal Enfield® 650 Twins
785006	750cc Big Bore Kit for Royal Enfield® 650 Twins
785007	865cc Big Bore Kit for Royal Enfield® 650 Twins





## 650 Twin Adjuster Features

### Handlebar Adjusters-

- Easy to install
- Up to 1" (25mm) adjustment forward or backward
- Billet 6061
- Durable black powder coat finish



Adjusters shown 1" (25mm) forward

## Dynojet® Power Commander® V Features

### Power Commander® V Tuner-

- Discover untapped potential and get the most out of your performance combinations with the Dynojet Power Commander V for Royal Enfield 650 twin models.



Part #	Description
785011	Handlebar Adjuster Kit for Royal Enfield® INT 650 Twins
785012	Dynojet® Power Commander® V for Royal Enfield® 650 Twins



Part #	Description
785009	Performance Clutch Kit for Royal Enfield® 650 Twins
785010	S&S ECM Kit with Adapter Harness for Royal Enfield® 650 Twins







## High Performance Throttle Body

Race inspired, state of the art shaftless throttle bodies allow for unobstructed air flow and instant response from idle to wide open. Constructed of billet aluminum and stainless steel the S&S shaftless throttle body is designed for the ultimate in race builds.

Part #	Description
785013	Smooth Bore Throttle Body for Royal Enfield® 650 Twins



## Forged Connecting Rod Set

Forged billet 4340 steel and an "H-Beam" design, gives these rods superior strength over stock rods; includes durable ARP 2000 fasteners and a longer life thanks to the shot-peened finish. They also feature premium bronze wrist pin bushings and are held to very tight tolerances with bores finished to  $\pm .0001"$  and weight to  $\pm 1$  gram per end. These are stock-length rods with a floating style wrist pin.

### Connecting rod weight with bolts

Big End	383g
Small End	94g

Part #	Description
785004	Forged Connecting Rod Set for Royal Enfield® 650 Twins



Part #	Services Description
785014	CNC Ported Head (Core Required) Service for Royal Enfield® 650 Twins
785015	Cylinder Liner Install Service (Includes Bore and Hone) for Royal Enfield® 650 Twins





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