

"It is a far cry from my original Triumph 'Speed Twin' of twenty years ago to the sleek twins and sporting lightweights described in this latest catalogue, but having been more than intimately connected with every Triumph development in the ensuing period. I know that this fine new range will further enhance the reputation enjoyed by Triumph throughout the world."

Edward Turner, M.I.Mech.E.,
Managing Director of Triumph and the
Automotive Group of The Birmingham
Small Arms Co. Ltd.

"Another year of Triumph" is the title of this catalogue and we present our latest range of models with confidence. Tested, tried, proved, every one of them, from the lively little Cub to the supreme performer of all, the 'Bonneville 120'.

Each one has benefited from a further twelve months' constant search for improvement in details large and small. Improved materials, ultra modern techniques of manufacture, harsher testing, all enhance the quality which the Triumph name signifies to the motorcyclist of real experience, some of whom we have invited to comment on the models described in this catalogue.

Whatsoever your need on two wheels, Triumph can meet it, with the right performance, at the right price and with the assurance of lasting satisfaction.

TRUMPIN

the best motorcycle in the world



More than 250 police and government organisations throughout the world use Triumph motorcycles, and cities like London and Paris have large flects in daily use. Here President Kennedy of the United States has a Triumph escort during a visit to London.

PRESS OPINIONS

TIGER CUB
SPORTS CUB
TWENTY-ONE
SPEED TWIN
TIGER 100
THUNDERBIRD
TROPHY
BONNEVILLE 120

"Impresses even a seasoned tester with "Motor Cycling" its outstandingly good all-round performance and value." "Can be snicked round corners faster "Motorcycle Mechanics" than almost anything I have ridden." "Good to look at and good to ride. It has "Motorcycle News" that 'just right' appearance.' "Lived up to Triumph's traditional "Cycle" (U.S.A.) reputation for easy starting and ultra-smooth performance." "Can be used for everyday work without "Motor Cycling" losing either its tune or its looks." "Silky power and plenty of it, the brakes are excellent and the model certainly has. "The Motor Cycle" eye-appeal. "Combines tractability and unobtrusive-"The Motor Cycle" ness with sheer zip and stamina."

"No question at all about who produces

the world's best in really high

performance, large capacity twins."



"Sunderland Echo"

"An ideal fast light sports 500" says JOHN GILES

This sleek new "Tiger 100" offers high performance with light weight and great ease of handling. Ultra modern unit construction engine/gearbox with alloy head, special camshafts and high compression pistons. A model designed for

the sportsman.





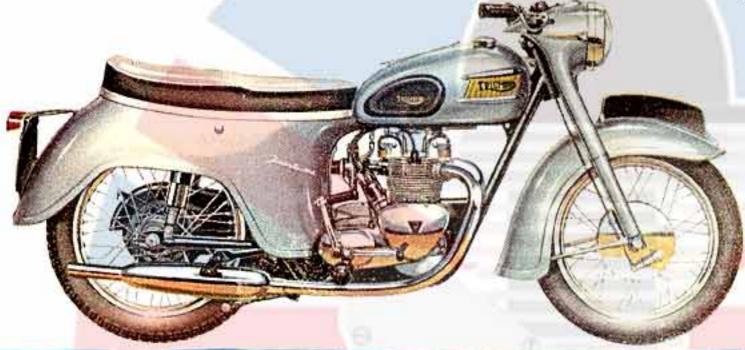
TIGER 100 500 c.c.

T1008/C

Patent Nos. 475860, 723073, 684685

"High performance roadsters as modern as the hour"

says JIM ALVES



The most coveted "350" on the road today, the Triumph "Twenty-one" provides a crisp performance with the highest possible degree of silence and refinement. Unit construction enginegearbox and very adequate mudguarding front and rear make this an easy-to-clean and a clean-to-ride machine.



for ten years one of our best known competition riders. Always Traumph mounted, he rade for Britain an numerous occusions and was manager of the British Trophy Team in the 1961 ISD.T is also a Triumph Dealer.

Zuenty en 350c.c. 3TA

Full terimical specification livide back pages

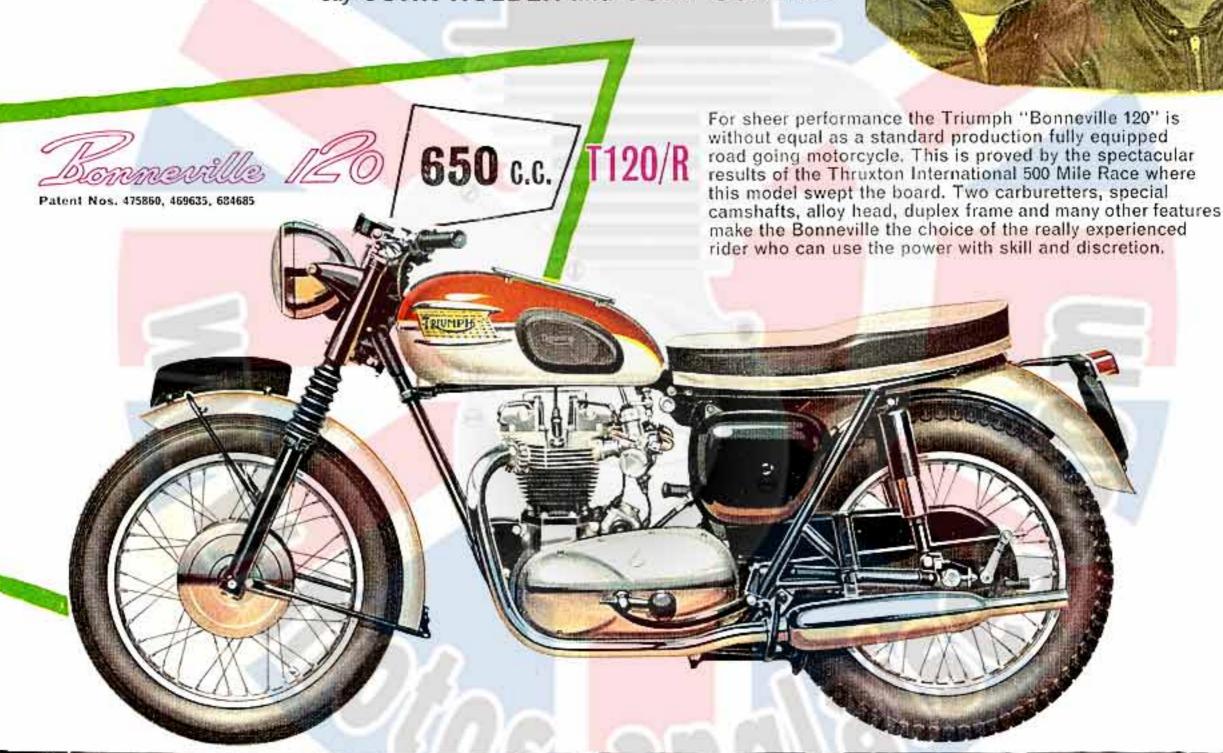


Patent Nos. 475860, 723073, 684685

The famous "Speed Twin" in its rich ruby red finish is similar in most details to the "Twenty-one" but enjoys the enhanced power output of a 500 c.c. engine. A smooth running model with many attractive features which will appeal to the discriminating and experienced rider.



"We had a wonderful ride on the 120 to win the Thruxton 500 mile race" say JOHN HOLDER and TONY GODFREY



Johnson Molors (v)

The Triumph "Thunderbird" is an ideal fast solo mount and excels where a heavy sidecar is used. 34 B.H.P. alloy head engine, 4 gallon tank and generous mudguarding make this the first choice of the man who rides fast and far and demands performance with the minimum of attention.

"Unequalled for smooth effortless power"

JESS THOMAS

-Skilled American ace who folds the "fastest ever" A.M.A. certified record speed of 214.47 m.p.h. with a 650 c.c. streamlined Triumph.



Thunderlind 650 c.c. 6T

Full technical specification inside back pages

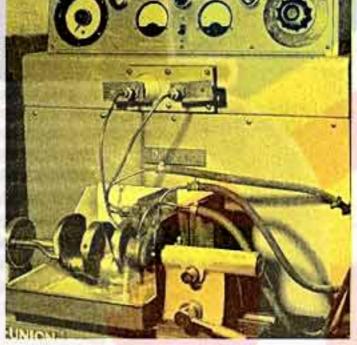
Patent Nos. 475860, 469635, 684685

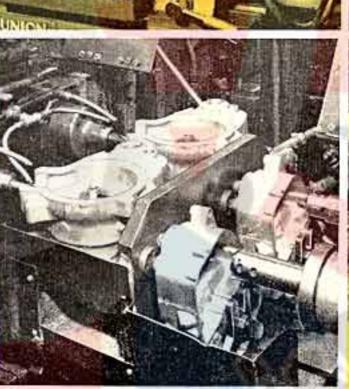
ENGINEERING

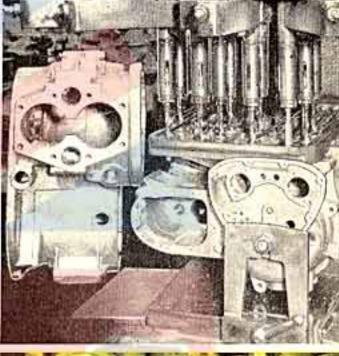
Techniques of manufacture are constantly changing and to maintain the high standard of quality and accuracy which has been synonymous with the Triumph name for more than sixty years, the Triumph engineering staff conducts a ceaseless campaign to improve and perfect its methods. Illustrated here are some familiar components in course of manufacture on machines which work to incredibly close limits to ensure the superb quality and high finish which is a Triumph tradition.

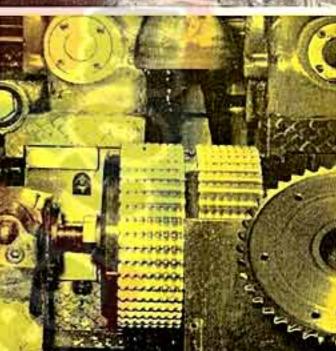
- 1. Cylinder barrels of the twin cylinder engines have a controlled surface finish after this final machining process.
- 2. It takes exactly seven seconds by electronic means to harden the surface of the cranket bearing journal. A new nique developed availatively by
- Mulli-drilling bolt holes on a "C" range crankcase. Initial boring and counterboring of the eight bolt holes are carried out independently.
- 4. A crank turning lathe for roughing and finishing bob weight journals. The two operations are carried out automatically, enabling one operator to control a number of machines.
- 5. Four boring operations are done simultaneously on four "Tiger Cub" crankcases. This involves initial roughing out and final boring of the main gearbox bearing and distributor housings to close tolerances.
- 6. The teeth of clutch chain wheels are formed by this gear cutter. Sixteen blanks are placed in position and the teeth are automatically shaped by a high speed cutting tool.











EXCELLENCE



Billiammer somitivation medic have been

TROPET 650 c.c. TR6S/R

Patent Nos. 475860, 469635, 684685

TR6S/C This model is available for competition use, fitted with trials tires and twin obswept exhaust system. (Not illustrated)

This fine sporting motorcycle is a firm favourite throughout the world and its specification includes every refinement demanded by the enthusiast. 45 B.H.P. engine, heavy duty competition type forks, duplex frame, rubber mounted fuel tanks and many other items which ensure success under the most arduous conditions.

The Tiger Cub is a winner all the way " says ROGER VANDERB says ROGER VANDERBECKEN

Trials and Scramble Chambion of Belgium, a great Triumbn rider and enthusiast wife competes in all the leading events on the





TIGER CUB

200 c.c. T20

Easily the most popular 200 c.c. lightweight. For value, economy and safe, easy handling, there is nothing to equal the four-stroke O.H.V. "Tiger Cub." First choice of the rider who wants "real motorcycling" at lowest cost.

The evaluate as Junior model with certified \$ 8.H.P. engine.



200 c.c. / T20S/R

Patent Nos. 723073, 684685

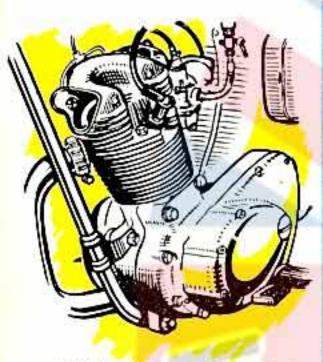
Exhilarating to ride on the road and readily adapted to most forms of competition, the "Sports Cub" has earned an enviable reputation for speed, reliability and superb handling. This is the model for the man who wants to get to the top quickly.

This model is fully equipped for competition and exhaust system. (Not illustrated)

Full technical specification inside back pages.



SPECIFICATI



O.H.V. "Tiger Cub" engine with alloy head and unit four speed gearbox.

Hinged twinseat on twin cylinder models.

"A" RANGE MODELS

ENGINE, High-performance single cylinder o.h.v. with die-cast alloy cylinder head. Inclined valves. "H" section connecting rod with plain big-end. Dry sump jubrication. Efficient barrel type silencer. Air cleaner.

FOUR SPEED GEARBOX. In unit with engine. Multiplate clutch with cork sheet linings and rubber torsion shock absorber. Positive stop footchange. Duplex primary chain.

FORKS. Triumph telescopic type giving comfortable ride and accurate steering. Heavy duty competition type on T20S/R and T20S/C.

FRAME. Strong loop type frame. Swinging fork rear suspension with hydraulic damping. Provision for anti-theft lock.

BRAKES. Very efficient smooth-acting brakes with large diameter drums and finger adjustment.

WHEELS. Triumph design with plated spokes and rims. Efficient fenders front and rear, Stylish rear enclosure panels. (T20 only.)

FUEL TANKS. All-steel welded gas tank, chrome motif. Ample capacity oil tank. Quick release caps and accessible filters.

ELECTRICAL EQUIPMENT. A.C./D.C. lighting-ignition system with crankshaft-mounted alternator and emergency start circuit. Powerful head and rear lamps.

TOOLBOX, All steel with kit of good quality tools and inflator.

NACELLE T20 only (Patent No. 647670). Neat streamlined shell encloses headlamp, instruments and switch-gear and includes a gear position indicator.

SPEEDOMETER. Smiths 80 m.p.h. (140 Km.p.h.) speedometer.

OTHER DETAILS. Finish: T20 Silver grey/flame. T20S/R and T20S/C Silver grey/flamboyant ruby. Smooth action twistgrip, rubber knee grips. "Vynide" covered cushioned twinseat.

EXTRAS. Pillion footrests. Prop stand. Steering lock.

"C" RANGE MODELS

ENGINE. Advanced design vertical twin cylinder o.h.v. with two camshafts driven by gears. Pushrod operated overhead valves in a light alloy cylinder head. High duty iron cylinder block. Dry sump lubrication with plunger type pump. Steel connecting rods with plain bearing big-ends. A.C./D.C. lighting-ignition system with crankshaft mounted alternator and emergency start circuit. Oil pressure indicator. Silent Duplex primary chain in polished aluminium oil-bath with tensioner. Efficient air cleaner.

GEARBOX. Four speed with positive stop foot operation and gear position indicator, built in unit with engine. Heavy duty shafts and gears of hardened nickel-chrome steel, multiplate clutch with cork sheet linings and rub' er torsion shock absorber.

FUEL TANKS. All steel weided gas tank with parcel grid and chrome motif. Oil tank under twinseat. Quick release filler caps. Provision for reserve.

FRAME. Heavy duty brazed cradle type frame with swinging fork rear suspension, hydraulically damped. "Easylift" centre stand.

NACELLE (3TA, 5TA only) Integral with top of forks enclosing headlamp unit, 120 m.p.h. (180 Km.p.h.) speedometer, ammeter and switchgear.

BRAKES. Full width front hub heavily finned, incorporating powerful 7 in brake. Fully floating shoes, finger adjustment front and rear.

WHEELS AND FENDERS. Triumph design wheels with plated rims and spokes. Stylish rear enclosure on 3TA and 5TA which incorporates provision for mounting panniers.

LIGHTING EQUIPMENT. Powerful 7 in. headlamp has a combined reflector/front lens assembly, "pre-locus" bulb and adjustable rim. Wide angle rear/stop light with integral reflex reflector.

TWINSEAT ASSEMBLY. Cushioned seat, covered in waterproof black and grey "Vynide". Seat is hinged and when lifted reveals the air cleaner, 12 a.h. battery, coll, rectifier, oil tank and filler, and tools.

HANDLEBAR. Chrome-plated bar with smooth action twistgrip adjustable for friction. Integral dipswitch/horn button. Adjustable plated levers with built-in cable adjusters.

FINISH. 3TA: Shell blue sheen with black frame. 5TA: Ruby red. T100 Kingfisher blue and silver.

EXTRAS, Pillion footrests. Prop stand.





Fully floating brake shoe assembly for maximum braking power.

ONS

TECHNICAL DATA

"B" RANGE MODELS

ENGINE. 650 c.c. o.h.v. vertical twin with two gear driven camshafts. Light alloy cylinder head, cast-iron barrel, high compression pistons, large bore carburetor. Splayed port head with two carburetors on T120. One-piece forged crankshaft with bolt-on central flywheel, "H" section RR56 alloy connecting rods with plain bearing big-ends. Dry sump lubrication with plunger type pump and pressure indicator. Gear driven magneto with auto control. "Thunderbird" (6T) has A.C./D.C. lighting-ignition system with smergency start circuit. Oil bath primary chaincase. Air cleaner (not T120). GEARBOX. Triumph design and manufacture. Shafts and gears of hardened nickel and nickel-chrome steel. Needle roller layshaft bearings. Positive stop footchange. Multiplate clutch with indestructible cork sheet linings and rubber torsion shock absorber. Accessible filler and level plugs and dual gearbox adjusters.

FRAME. Brazed cradle type frame with twin front down tubes and swinging fork suspension, hydraulically damped and adjustable for varying loads. "Easylift" centre stand. Provision for anti-theft lock, Front wheel stand.

FORKS. Triumph design telescopic pattern with hydraulic two-way damping and steering damper.

FUEL TANK. Large capacity all-steel welded gas tank mounted on rubber and easily detached. Quick release fillers. Provision for reserve. Plated parcel grid.

NACELLE, 6T only (Patent No. 647670) Triumph design integral with top of forks enclosing headlamp, instruments and switchgear.

BRAKES, Front: Full width finned hub, with 8 in. diameter brake, Rear: 7 in. diameter with drum integral with sprocket, Fully floating shoes.

WHEELS AND FENDERS. Triumph design wheels with plated spokes and rims. Stylish rear enclosure on 6T only.

LIGHTING EQUIPMENT, Lucas alternator crankshaft mounted, 12 a.h. battery, powerful headlamp (quickly detachable where nacelle not fitted) with combined reflector/front lens assembly, "pre-focus" bulb and adjustable rim. Wide angle rear/stop light with combined reflector.

SPEEDOMETER. Smiths 120 m.p.h. (180 Km.p.h.) chronometric type with r.p.m. scale and trip recorder. (140 m.p.h. 240 Km.p.h. on Bonneville 120.)

HANDLEBAR. Chromium-plated with smooth action twistgrip and adjustable friction control. Integral horn push. Adjustable plated clutch and brake levers with built-in cable adjusters.

EXTRAS, Prop stand all models. Pillion footrests all models. Steering lock all models.

Rigid one-piece crankshaft with bolt-on flywheel.

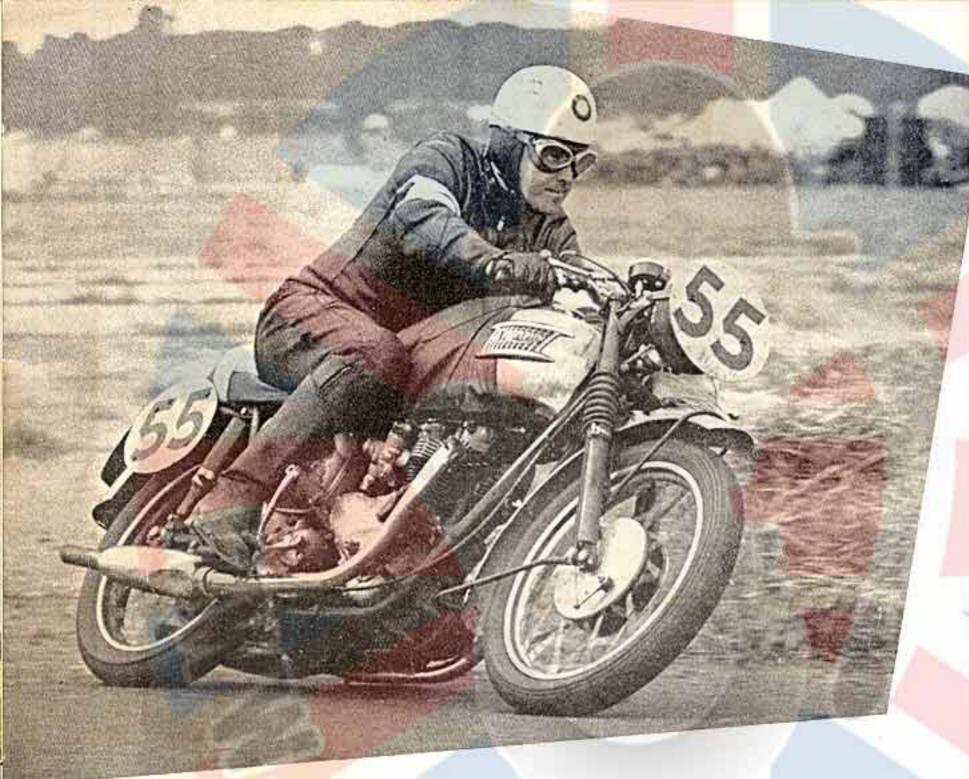
MODEL	Tiger Cub (T20)	Sports Cub T20 T20 S R S C	Twenty- one (3TA)	Speed Twin (STA)	Tiger 100 T100 T100 SR SC	Thunder- bird (6T)	Trophy (TR6S R)	Bonneville 20 (T120R)
Engine Type Number of Cylinders	O.H.V.	o.H.V.	0,H.V.	O.H.V. 2	O.H.V.	O.H.V.	O.H.V. 2	O.H.V. 2
Bore Stroke, mm. Bore Stroke, ins. Capacity, cu. cms. Capacity, cu. ins.	63 - 64 2.48 - 2.52 199 12	63 × 64 2.48 × 2.52 199 12	58.25 65.5 2.3 - 2.6 348 21.23	69 × 65,5 2.72 × 2.6 490 29.8	69 × 65.5 2.72 × 2.6 490 29.8	71 × 82 2.79 × 3.23 649 40	71 × 82 2.79 × 3.23 649 40	71 × 82 2.79 × 3.23 649 40
Compression ratio B.H.P. and R.P.M. Engine Sprocket Teeth-	7 I 10 = 6,000	9:1 16 = 6.800	7.5:1 18.5 ± 6,500	7:1 27 @ 6,500	9:1 +38 = 7,000	7.5:1 34 = 6,300	8.5:1 *45 = 6,500	8.5:1 *50 <u>ii</u> 6,500
Sola	19	19	26	26	26	23	22	22
Clurch Sprocket Teeth Gearbox Sprocket Teeth Rear Sprocket Teeth R.P.M. 10 M.P.H. Top Gear	48 17 46 985	48 17 48 54 960	58 18 43 742	58 19 43 702	58 18 17 43 43 713 736	43 18 43 625	43 18 43 608	43 18 43 608
Gear Ratios—Top —Third —Second	6.84 9.04 14.05	7.13 8.2 8.56 10.6 13.37 16.52	5,33 6,32 9,37	5.05 6.0 8.88	5.33 5.64 6.34 6.7 9.37 9.85	4,47 5,33 7,55	4.67 5,55 7.88	4.67 5.55 7.88
First Carburetor—Make	Amal	19.8 23.9	12.96	12.28	12.96 13.7 Amal	10.9 Amaī	Amai	Twin Amal
Carburetor—Type Front Chain Size Rear Chain Size Tires—Front, ins. —Rear, ins.	32.1 32.1 32.1 Duofex 1' × ,205 3.25 × 17 3.25 × 17	Amal 376 272 1 Duplex 1 205 3.00 19 3.50 18	Amal 375 32 I Duplex I I 3.25 17 3.50 17	Amal 375 35 1 Duplex 1 1 3.25 17 3.50 17	376 273 1" Duplex 3,25 19 3,50 18	376 285 1 305 1 1 3.25 18 3.50 18	376.40 1 × .305 1 × 1 3.25 × 19 4.00 × 18	376 257 1 × 305 2 × 19 3.25 × 19 4.00 × 18
Brake Diameter-ins. (cms.)	5[* (13.97)	5;" ((3.97)	7" (17.78)	7" (17.78)	7" (17.78)	B F (20.32)	8" F (20.32)	8° F (20.32)
Emish	Flame Silver	Flamboyant	Shell Blue	Ruby	Kingfisher Blue Silver	7 R (17.78) Kingfisher Blue:Silver	7" R (17.78) Flamboyans Ruby Silver	7° R (17.78) Flame Silver
Seat Height—ins. —cms.	29' (73.7)	30° (76.2)	294 (74.5)	Red 291 (74.5)	30"	30 (76.2)	30 j* (77.5)	30± (77.5)
Wheelbase-ins.	49"	497	521	52]	531	541	(140.3)	55± (140.3)
Length—ins.	(124.5) 77	(124.5)	(134) 81	(134) BI*	(136) 821	(139) 831	861	861
Width—ins. —cims.	(195.5) 25° (63.5)	(195.5) 25" (63.5)	(206) 26 (66)	(206) 26° (66)	(209) 25* (63,5)	(212) 28)* (72)	(219) 28±" (72)	(219) 28¦* (72)
Clearance—ins. —cms. Weight—lbs.	(12.7) 215	6* (15.2) 223	5° (12.7) 340	5- (12.7) 341	74* (19) 336 323	(12.7) 371	5 (12.7) 383	5° (12.7) 390
Gas—Galls, (Imp.)	(94)	(101)	(154.5)	(155)	(152.8) (146.8 31 21	(168.6)	(174.1)	(177.1)
—Litres Oil—Pints	(13.5)	(11.9)	(16)	(16)	(16) (10.7)		(13.5)	(13.5)
Litres Prices (F.O.B. Baltimore)	(1.55) 8585	2‡ (1.55) S578 S683	(2.8) \$890	(2.8) 8930	(2.8) \$995 \$970	(2.8) 8975	(2.8) \$1,085	(2.8) \$1,130

Alloy cylinder head with hemispherical combustion chambers ("B" range twins).



TRIUMPH

the best motorcycle in the world



THRUXTON 500 MILE RACE

Outright winner of this ardwous International Race for standard production motorcycles was a Triumph "Bonneville" ridden by Tony Godfrey and John Halder. Above is a fine view of Holder at speed on the winning machine. Other "Bonnevilles" filled 2nd, 4th, 5th and 6th places in the multicylinder class.

The TRIUMPH Corporation

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Ref. No. 696 61

GUARANTEE

In this Guarantee the word "importanc" refers to the motor cycle, according matericycle combination or significant as the ease may immutenessed by the Purchaser.

We will supply these of charge is new part in exchange 10), on if we consider regains aufficient will repair free of charge any part provide within 312 months of the date of nurchase of any new machine (three months overness) or within three months of its renewal or repair in the case of a part already enewal or repaired to be detective by reason of our builty workminishing or machines. We do not investigate to best the cost of litting again new or repaired pair or recessory. Any part considered to be telective bugs he sent to our Works, currently path, presentationally which the contributions.

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Our liability and that of our grader who colla the machine small be lighted to that so our in this, 'examinater, and no other claims including claims for consummental charage or many to person or property, shall be admissible.

All other conflitions and warrannes statulory or otherwise and whether express or implied are hereby excluded and no quarantic other than that expressly forcin conlative upplies to the machine to which this Sugrantee relates or any necessary or pair thereof.

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