

General specification, all models

Model	175S	175T	175 Americano	175 Sport
Year	1957	1957	1958	1958–61
Bore (mm)	62	62	62	62
Stroke (mm)	57.8	57.8	57.8	57.8
Capacity (cc)	174.5	174.5	174.502	174.502
Compression ratio	8:1	7:1	7:1	8:1
Valve gear	ohv	ohv	ohc	ohc
bhp	14	11	11	14
@ rpm	8000	7500	7500	8000
Oil system	wet sump	wet sump	wet sump	wet sump
Inlet opens BTDC	44	35	35	44
Inlet closes ABDC	73	65	65	73
Exhaust opens BBDC	73	65	65	73
Exhaust closes ATDC	38	35	35	38
Tappets, inlet (mm)	0.06	0.05	0.05	0.06
Tappets, exhaust (mm)	0.08	0.07	0.07	0.08
Primary drive gearing	2.522:1	2.522:1	2.522:1	2.522:1
Final drive gearing	2.875:1	3.066:1	3.066:1	2.875:1
Box gearing				
4th	0.97:1	0.97:1	0.97:1	0.97:1
3rd	1.18:1	1.18:1	1.18:1	1.18:1
2nd	1.65:1	1.65:1	1.65:1	1.65:1
1st	2.75:1	2.75:1	2.75:1	2.75:1
No. gears	4	4	4	4
Front tyre	2.50 × 18	2.50 × 18	2.50 × 18	2.50 × 18
Rear tyre	2.75 × 18	2.75 × 18	2.75 × 18	2.75 × 18
Front brake (mm)	drum 180	drum 180	drum 180	drum 180
Rear brake (mm)	drum 160	drum 160	drum 160	drum 160
Front suspension	teles	teles	teles	teles
Rear suspension	s/a	s/a	s/a	s/a
Ignition system	coil	coil	coil	coil
Wheelbase (mm)	1320	1320	1320	1320
Ground clear. (mm)	130	130	110	110
Seat height (mm)	790	790	800	790
Width (mm)	580	580	640	580
Length (mm)	1950	1980	1980	1990
Dry weight (kg)	103	104	118	103
Generator/output	6v/40w	6v/40w	6v/40w	6v/40w
Battery	6v 13.5ah	6v 13.5ah	6v 13.5ah	6v 13.5ah

Model	125S	100 Sport	125 Sport	125TS
Year	1957	1958–60	1958–65	1958–65
Bore (mm)	55.2	49	55.2	55.2
Stroke (mm)	52	52	52	52
Capacity (cc)	124.443	98.058	124.443	124.443
Compression ratio	8:1	9:1	8:1	7:1
Valve gear	ohc	ohc	ohc	ohc

Model	125S	100 Sport	125 Sport	125TS
Year	1957	1958-60	1958-65	1958-65
bhp	10	8	10	6.2
@ rpm	8500	8500	8500	6500
Oil system	wet sump	wet sump	wet sump	wet sump
Inlet opens BTDC	48	44	48	24
Inlet closes ABDC	65	68	65	56
Exhaust opens BBDC	67	72	67	40
Exhaust closes ATDC	45	41	45	22
Tappets, inlet (mm)	0.05	0.05	0.05	0.05
Tappets, exhaust (mm)	0.07	0.07	0.07	0.07
Primary drive gearing	2.533:1	3.000:1	3.000:1	3.000:1
Final drive gearing	2.875:1	3.066:1	2.750:1	2.875:1
Box gearing				
4th	0.96:1	0.97:1	0.97:1	0.97:1
3rd	1.18:1	1.18:1	1.18:1	1.18:1
2nd	1.54:1	1.65:1	1.65:1	1.65:1
1st	2.38:1	2.75:1	2.75:1	2.75:1
No. gears	4	4	4	4
Front tyre	2.50 × 17	2.50 × 17	2.50 × 17	2.50 × 17
Rear tyre	2.75 × 17	2.75 × 17	2.75 × 17	2.75 × 17
Front brake (mm)	drum 180	drum 180	drum 180 1	drum 158
Rear brake (mm)	drum 160	drum 160	drum 160 2	drum 136
Front suspension	teles	teles	teles	teles
Rear suspension	s/a	s/a	s/a	s/a
Ignition system	coil	coil	coil	coil
Wheelbase (mm)	1320	1320	1320	1310
Ground clear. (mm)	140	140	140	120
Seat height (mm)	750	750	750	760
Width (mm)	580	580	580	680
Length (mm)	1910	1910	1910	1890
Dry weight (kg)	100.5	100	100.5	98.5
Generator/output	6v/40w	6v/40w	6v/40w	6v/40w
Battery	6v 13.5ah	6v 13.5ah	6v 13.5ah	6v 13.5ah
1 after 1960 - 158		2 after 1960 - 136		

Model	175 Motocross	200 Elite	200 Supersport 1	200 Americano
Year	1958	1959-65	1959-60	1959
Bore (mm)	62	67	67	67
Stroke (mm)	57.8	57.8	57.8	57.8
Capacity (cc)	174.5	203.783	203.783	203.783
Compression ratio	8:1	8.5:1	8.5:1	7.5:1
Valve gear	ohc	ohc	ohc	ohc
bhp	14	17	18	16
(a, rpm)	8000	7500	7800	7500
Oil system	wet sump	wet sump	wet sump	wet sump
Inlet opens BTDC		34	44	34
Inlet closes ABDC		56	68	56
Exhaust opens BBDC		70	72	70
Exhaust closes ATDC		24	41	24
Tappets, inlet (mm)	0.07	0.06	0.07	0.05
Tappets, exhaust (mm)	0.10	0.08	0.10	0.07
Primary drive gearing		2.520:1	2.500:1	
Final drive gearing		2.812:1	2.647:1	
Box gearing				
4th	0.97:1	0.97:1	0.97:1	0.97:1
3rd	1.18:1	1.18:1	1.18:1	1.18:1
2nd	1.65:1	1.65:1	1.65:1	1.65:1
1st	2.75:1	2.75:1	2.75:1	2.75:1
No. gears	4	4	4	4
Front tyre	2.75 × 21	2.75 × 18	2.75 × 18	2.75 × 18
Rear tyre	3.00 × 19	3.00 × 18	3.00 × 18	3.00 × 18
Front brake (mm)	drum 180	drum 180	drum 180	drum 180

Model	175 Motocross	200 Elite	200 Supersport 1	200 Americano
Year	1958	1959-65	1959-60	1959
Rear brake (mm)	drum 180	drum 160	drum 160	drum 160
Front suspension	teles	teles	teles	teles
Rear suspension	s/a	s/a	s/a	s/a
Ignition system	coil	coil	coil	coil
Wheelbase (mm)	1380	1320	1320	1320
Ground clear. (mm)		110	130	110
Seat height (mm)	830	800	800	800
Width (mm)	800	580	580	800
Length (mm)	2060	1990	1990	2000
Dry weight (kg)	122	111	109	118
Generator/output	6v/40w	6v/40w	6v/40w	6v/40w
Battery	6v 13.5ah	6v 13.5ah	6v 13.5ah	6v 13.5ah

1 With high-lift camshaft, and 27 mm SS1 carburettor

Model	200 Motocross	200TS	200GT	250 Monza (n/case)
Year	1959-60	1960-1	1962	1961-7
Bore (mm)	67	67	67	74
Stroke (mm)	57.8	57.8	57.8	57.8
Capacity (cc)	203.783	203.783	203.783	248.589
Compression ratio	8.5:1	7:1	7:1	8:1
Valve gear	ohc	ohc	ohc	ohc
bhp	1959 1960 19 18	17	14	16.4
@ rpm	7800	7500	7000	7200
Oil system	wet sump	wet sump	wet sump	wet sump
Inlet opens BTDC		34	34	20
Inlet closes ABDC		56	56	70
Exhaust opens BBDC		70	70	50
Exhaust closes ATDC		24	24	30
Tappets, inlet (mm)	0.07	0.05	0.05	0.05
Tappets, exhaust (mm)	0.10	0.07	0.07	0.07
Box gearing				1
5th				
4th	0.97:1	0.97:1	0.97:1	0.97:1 2
3rd	1.18:1	1.18:1	1.18:1	1.18:1 3
2nd	1.65:1	1.65:1	1.65:1	1.65:1 4
1st	2.75:1	2.75:1	2.75:1	2.75:1 5
No. gears	4	4	4	4 6
Front tyre	2.75 × 21	3.00 × 18	2.75 × 18	2.75 × 18
Rear tyre	3.00 × 19	3.00 × 18	3.00 × 18	3.00 × 18
Front brake (mm)	drum 180	drum 180	drum 180	drum 180
Rear brake (mm)	drum 180	drum 160	drum 160	drum 160
Front suspension	teles	teles	teles	teles
Rear suspension	s/a	s/a	s/a	s/a
Ignition system	coil	coil	coil	coil
Wheelbase (mm)	1380	1320	1320	1320
Ground clear. (mm)		130	130	130
Seat height (mm)	830	800	750	800
Width (mm)	800	800	580	800
Length (mm)	2060	2000	2000	2000
Dry weight (kg)	124	118	116	125
Generator/output	6v/40w	6v/40w	6v/40w	1961-4 1964-7 6v/40w 6v/60w
Battery	6v 13.5ah	6v 13.5ah	6v 13.5ah	6v 13.5ah
1 Five-gear—0.97	2 Five-gear—1.10	3 Five-gear—1.35	4 Five-gear—1.73	5 Five-gear—2.53
6 mid 1964-7—five gears				

Model	Diana (Europe)	Diana (USA)	250 Mark 3 (n/case)	250 Scrambler (n/case)
Year	1961-4	1961-6	1967	1962-7
Bore (mm)	74	74	74	74
Stroke (mm)	57.8	57.8	57.8	57.8
Capacity (cc)	248.589	248.589	248.589	248.589
Compression ratio	8:1	9:1	10:1	9.2:1
Valve gear	ohc	ohc	ohc	ohc
bhp	17.6			
@ rpm	7400			
Oil system	wet sump	wet sump	wet sump	wet sump
Inlet opens BTDC	20	62	62	32
Inlet closes ABDC	70	68	76	71
Exhaust opens BBDC	50	75	70	50
Exhaust closes ATDC	30	55	48	44
Tappets, inlet (mm)	0.05	0.15	0.15	0.15
Tappets, exhaust (mm)	0.07	0.20	0.25	0.20
Primary drive gearing	2.500:1	2.500:1	2.500:1	2.500:1
Final drive gearing	2.647:1	2.647:1	2.222:1	3.929:1
Box gearing				
5th		1	0.97:1	1
4th	0.97:1	0.97:1 2	1.10:1	0.97:1 2
3rd	1.18:1	1.18:1 3	1.35:1	1.18:1 3
2nd	1.65:1	1.65:1 4	1.73:1	1.65:1 4
1st	2.75:1	2.75:1 5	2.53:1	2.75:1 5
No. gears	4	4 6	5	4 7
Front tyre	2.75 × 18	2.75 × 18	2.50 × 18	3.00 × 19
Rear tyre	3.00 × 18	3.00 × 18	2.75 × 18	3.50 × 19
Front brake (mm)	drum 180	drum 180	drum 180	drum 180
Rear brake (mm)	drum 160	drum 160	drum 160	drum 160
Front suspension	teles	teles	teles	teles
Rear suspension	s/a	s/a	s/a	s/a
Ignition system	coil	flywheel magneto	coil	flywheel magneto
Wheelbase (mm)	1320	1320	1350	1350
Ground clear. (mm)	130	130	130	130
Seat height (mm)	750	750 8	800	750
Width (mm)	580	800	590	820
Length (mm)	2000	2000	2000	2020
Dry weight (kg)	120	110	116	109 9
Generator/output	6v/40w	6v/40w	6v/40w	6v/40w
Battery	6v 13.5ah	None	6v 13.5ah	None
1 Five-gear—0.97	2 Five-gear—1.10	3 Five-gear—1.35	4 Five-gear—1.73	5 Five-gear—2.53
6 mid 1964-5—five gears	7 mid 1964-7—five gears	8 1965-6—800	9 1966-7—120	

Model	Mach 1	250GT	250 Monza (w/case)	250 Mark 3 (w/case)
Year	1964-6	1964-6	1968	1968-74
Bore (mm)	74	74	74	74
Stroke (mm)	57.8	57.8	57.8	57.8
Capacity (cc)	248.589	248.589	248.589	248.589
Compression ratio	10:1	8:1	8:1	9.7:1
Valve gear	ohc	ohc	ohc	ohc
Oil system	wet sump	wet sump	wet sump	wet sump
Inlet opens BTDC	62	52	20	62
Inlet closes ABDC	76	52	70	76
Exhaust opens BBDC	70	75	50	70
Exhaust closes ATDC	48	27	30	48
Tappets, inlet (mm)	0.15	0.05	0.05	0.15
Tappets, exhaust (mm)	0.25	0.07	0.07	0.20
Primary drive gearing	2.500:1	2.500:1	2.500:1	2.500:1
Final drive gearing	2.222:1	2.647:1	3.008:1	2.812:1

Model	Mach 1	250GT	250 Monza (w/case)	250 Mark 3 (w/case)
Year	1964-6	1964-6	1968	1968-74
Box gearing				
5th	0.97:1	0.97:1	0.97:1	0.97:1
4th	1.10:1	1.10:1	1.10:1	1.10:1
3rd	1.35:1	1.35:1	1.35:1	1.35:1
2nd	1.73:1	1.73:1	1.73:1	1.73:1
1st	2.53:1	2.53:1	2.46:1	2.46:1
No. gears	5	5	5	5
Front tyre	2.50 × 18	2.75 × 18	2.75 × 18	2.75 × 18 1
Rear tyre	2.75 × 18	3.00 × 18	3.00 × 18	3.00 × 18 2
Front brake (mm)	drum 180	drum 180	drum 180	drum 180 3
Rear brake (mm)	drum 160	drum 160	drum 160	drum 160
Front suspension	teles	teles	teles	teles
Rear suspension	s/a	s/a	s/a	s/a
Ignition system	coil	coil	coil	coil 4
Wheelbase (mm)	1350	1320	1365	1360
Ground clear. (mm)	130	130	130	130
Seat height (mm)	1964-5 1966 760 800	800	800	735
Width (mm)	590	800	850	780
Length (mm)	2000	2000	2000	2000
Dry weight (kg)	116	125	127	128
Generator/output	6v/60w	6v/60w	6v/70w	6v/70w
Battery	6v 13.5ah	6v 13.5ah	6v 13.5ah	6v 13.5ah
1 1973-4 — 3.00 × 19	2 1973-4 — 3.50 × 18	3 1973-4 — dual drum 180	4 1973-4 — electronic	

Model	250 Mark 3D	250 Scrambler (w/case)	250 Desmo	239 Desmo
Year	1968-71	1968-74	1971-4	1974
Bore (mm)	74	74	74	72.5
Stroke (mm)	57.8	57.8	57.8	57.8
Capacity (cc)	248.589	248.589	248.589	238.613
Compression ratio	9.7:1	9.2:1	9.7:1	10:1
Valve gear	ohc	ohc	ohc	ohc
Oil system	wet sump	wet sump	wet sump	wet sump
Inlet opens BTDC	70	27	70	70
Inlet closes ABDC	82	75	82	82
Exhaust opens BBDC	80	60	80	80
Exhaust closes ATDC	65	32	65	65
Tappets, inlet (mm)	upper rocker 0.15 lower rocker 0	0.10	upper rocker 0.15 lower rocker 0	upper rocker 0.15 lower rocker 0
Tappets, exhaust (mm)	upper rocker 0.15 lower rocker 0	0.15	upper rocker 0.15 lower rocker 0	upper rocker 0.15 lower rocker 0
Primary drive gearing	2.500:1	2.500:1	2.500:1	2.500:1
Final drive gearing	2.647:1	3.000:1	2.647:1	2.647:1
Box gearing				
5th	0.97:1	0.97:1	0.97:1	0.97:1
4th	1.10:1	1.10:1	1.10:1	1.10:1
3rd	1.35:1	1.35:1	1.35:1	1.35:1
2nd	1.73:1	1.73:1	1.73:1	1.73:1
1st	2.46:1	2.46:1	2.46:1	2.46:1
No. gears	5	5	5	5
Front tyre	2.75 × 18	3.50 × 19	2.75 × 18	2.75 × 18
Rear tyre	3.00 × 18	4.00 × 18	3.00 × 18 1	3.25 × 18
Front brake (mm)	drum 180	drum 180	dual drum 2 180	disc 280
Rear brake (mm)	drum 160	drum 160	drum 160	drum 160
Front suspension	teles	teles	teles	teles
Rear suspension	s/a	s/a	s/a	s/a
Ignition system	coil	coil	electronic	electronic

Wheelbase (mm)	1360	1380	1360	1360
Ground clear. (mm)	130	130	130	130
Seat height (mm)	735	770	735	735
Width (mm)	600	940	600	600
Length (mm)	2000	2120	2000	2000
Dry weight (kg)	128	132	128	128
Generator/output	6v/70w	6v/70w	6v/70w	6v/70w
Battery	6v 13.5ah	6v 13.5ah	6v 13.5ah	6v 13.5ah
1 1971-2, 1973-4—3.25 × 18		2 1971-2, 1973-4—disc 280 mm		

Model	239 Mark 3	Monza Junior	Piuma Standard	Piuma Sport
Year	1974	1964-7	1961-8	1962-6
Bore (mm)	72.5	61	38	38
Stroke (mm)	57.8	52	42	42
Capacity (cc)	238.613	151.968	47.663	47.663
Compression ratio	10:1	8.2:1	6.3:1	9:5:1
Valve gear	ohc	ohc	ts	ts
bhp		13	1.5	4.2
@ rpm		8000	5200	8600
Oil system	wet sump	wet sump	petrol/oil mix	petrol/oil mix
Inlet opens BTDC	62	24		
Inlet closes ABDC	76	40		
Exhaust opens BBDC	70	51		
Exhaust closes ATDC	48	30		
Tappets, inlet (mm)	0.05	0.05		
Tappets, exhaust (mm)	0.10	0.07		
Primary drive gearing	2.500:1	3.000:1	3.666:1	3.666:1
Final drive gearing	2.812:1	2.875:1	3.250:1	3.000:1
Box gearing				
5th	0.97:1			
4th	1.10:1	0.97:1		
3rd	1.35:1	1.18:1	1.14:1	1.14:1
2nd	1.73:1	1.65:1	1.61:1	1.61:1
1st	2.46:1	2.75:1	2.61:1	2.61:1
No. gears	5	4	3	3
Front tyre	3.00 × 19	2.75 × 16	2.25 × 18	2.25 × 18
Rear tyre	3.50 × 18	3.25 × 16	2.25 × 18	2.25 × 18
Front brake (mm)	dual drum 180	drum 158	drum 90	drum 105
Rear brake (mm)	drum 160	drum 136	drum 90	drum 105
Front suspension	teles	teles	teles	teles
Rear suspension	s/a	s/a	s/a	s/a
Ignition system	electronic	flywheel mag	flywheel mag	flywheel mag
Wheelbase (mm)	1360	1330	1170	1170
Ground clear. (mm)	130			
Seat height (mm)	735	760	760	760
Width (mm)	780	735	720	570
Length (mm)	2000	1980	1910	1910
Dry weight (kg)	128	108	50	52
Generator/output	6v/70w	6v/40w	6v/18w	6v/18w
Battery	6v 12ah	6v 7ah	none	none

Model	Piuma De-Luxe	Brisk	Sport 48	80 Standard
Year	1962-7	1961-7	1962-5	1962-3
Bore (mm)	38	38	38	47
Stroke (mm)	42	42	42	46
Capacity (cc)	47.632	47.632	47.632	79.807
Compression ratio	6.3:1	6.3:1	9.5:1	7.1:1
Valve gear	ts	ts	ts	ts
bhp	2.2	1.5	4.2	4.25
@ rpm	5800	5200	8600	7200
Oil system	petrol/oil mix	petrol/oil mix	petrol/oil mix	petrol/oil mix
Primary drive gearing	3.666:1		3.666:1	
Final drive gearing	3.250:1		3.000:1	
Box gearing				
3rd	1.14:1		1.14:1	
2nd	1.61:1		1.61:1	
1st	2.61:1		2.61:1	
No. gears	3	1	3	3
Front tyre	2.25 × 19	2.00 × 18	2.25 × 19	2.00 × 18
Rear tyre	2.25 × 19	2.00 × 18	2.25 × 19	2.00 × 17
Front brake (mm)	drum	drum 90	drum 105	drum 118
Rear brake (mm)	drum	drum 90	drum 105	drum 118
Front suspension	teles	teles	teles	teles
Rear suspension	s/a	s/a	s/a	s/a
Ignition system	flywheel mag	flywheel mag	flywheel mag	flywheel mag
Wheelbase (mm)	1170	1160	1180	1160
Seat height (mm)	770	760	780	760
Width (mm)	720	720	570	670
Length (mm)	1910	1900	1800	1780
Dry weight (kg)	52	45	54	62
Generator/output	6v/18w	6v/18w	6v/18w	6v/30w
Battery	none	none	none	none

Model	Sport 80	48SL	100 Cadet (51 mm bore)	100 Cadet (52 mm bore)
Year	1962-3	1964-5	1964-6	1967
Bore (mm)	47	38	51	52
Stroke (mm)	46	42	46	46
Capacity (cc)	79.807	47.633	93.969	97.691
Compression ratio	7.1:1	9.5:1	8.5:1	9:1
Valve gear	ts	ts	ts	ts
Oil system	petrol/oil mix	petrol/oil mix	petrol/oil mix	petrol/oil mix
Primary drive gearing		3.666:1	3.000:1	3.000:1
Final drive gearing		3.250:1	3.000:1	3.000:1
Box gearing				
3rd		1.04:1	1.14:1	
2nd		1.61:1	1.76:1	
1st		2.83:1	3.18:1	
No. gears	3	3	3	4
Front tyre	2.00 × 18	2.25 × 18	2.25 × 18	2.25 × 18
Rear tyre	2.00 × 17	2.50 × 17	2.50 × 18	2.50 × 18
Front brake (mm)	drum 118	drum 118	drum 118	drum 118
Rear brake (mm)	drum 118	drum 118	drum 118	drum 118
Front suspension	teles	teles	teles	teles
Rear suspension	s/a	s/a	s/a	s/a
Ignition system	flywheel mag	flywheel mag	flywheel mag	flywheel mag
Wheelbase (mm)	1160	1150	1160	1160
Seat height (mm)	760	730	750	750
Width (mm)	660	550	660	660
Length (mm)	1780	1770	1810	1810
Dry weight (kg)	62	59	66	66
Generator/output	6v/30w	6v/18w	6v/30w	6v/30w
Battery	none	none	none	none
1 1964-5—three speed	2 1964-5, 1966—four gears			

Model	100 Mountaineer (51 mm bore)	100 Mountaineer (52 mm bore)	Brio 48 scooter	Brio 50 scooter
Year	1964-6	1967	1963-6	1967-8
Bore (mm)	51	52	38	38
Stroke (mm)	46	46	42	42
Capacity (cc)	93.969	97.691	47.633	47.633
Compression ratio	8.5:1	9:1	7:1	7:1
Valve gear	ts	ts	ts	ts
bhp @ rpm			1.5 5200	1.5 5200
Oil system	petrol/oil mix	petrol/oil mix	petrol/oil mix	petrol/oil mix
Primary drive gearing	3.000:1	3.000:1	3.666:1	3.666:1
Box gearing				
3rd	1.14:1		1.04:1	1.04:1
2nd	1.76:1		1.61:1	1.61:1
1st	3.18:1		2.83:1	2.83:1
No. gears	3	4	3	3
Front tyre	2.50 × 16	2.50 × 16	1.75 × 9	1.75 × 9
Rear tyre	3.50 × 16	3.50 × 16	1.75 × 9	1.75 × 9
Front brake (mm)	drum 118	drum 118	drum 105	drum 105
Rear brake (mm)	drum 118	drum 118	drum 105	drum 105
Front suspension	teles	teles	leading link	leading link
Rear suspension	s/a	s/a	s/a	s/a
Ignition system	flywheel mag	flywheel mag	flywheel mag	flywheel mag
Wheelbase (mm)	1170	1170		
Seat height (mm)	760	760		
Width (mm)	700	700		
Length (mm)	1830	1830		
Dry weight (kg)	68	68	63.5	63.5
Generator/output	6v/30w	6v/30w	6v/18w	6v/18w
I 1966—four gears				

Model	Brio 100 scooter	Brio 100/25 scooter	48 Cacciatore	50SL
Year	1964-7	1968	1964-7	1966
Bore (mm)	51	51	38	38.8
Stroke (mm)	46	46	42	42
Capacity (cc)	93.969	93.969	47.633	49.659
Compression ratio	8.5:1	8.5:1	9.5:1	11:1
Valve gear				
bhp @ rpm	6 5200	6 5200	4.2 8600	
Oil system	petrol/oil mix	petrol/oil mix	petrol/oil mix	petrol/oil mix
Primary drive gearing	3.000:1	3.000:1	3.666:1	3.666:1
Final drive gearing			3.500:1	4.083:1
Box gearing				
4th				1.04:1
3rd	1.14:1	1.14:1	1.04:1	1.35:1
2nd	1.76:1	1.76:1	1.61:1	1.94:1
1st	3.18:1	3.18:1	2.83:1	3.27:1
No. gears	3	3	3	4
Front tyre	3.50 × 8	3.50 × 8	2.50 × 18	2.25 × 19
Rear tyre	3.50 × 8	3.50 × 8	3.25 × 16	2.25 × 19
Front brake (mm)	drum 105	drum 105	drum 118	drum 118
Rear brake (mm)	drum 105	drum 105	drum 118	drum 118
Front suspension	leading link	leading link	teles	teles
Rear suspension	s/a	s/a	s/a	s/a
Ignition system	flywheel mag	flywheel mag	flywheel mag	flywheel mag
Wheelbase (mm)			1170	1150
Seat height (mm)			760	730
Width (mm)			700	550
Length (mm)			1830	1770
Dry weight (kg)	80	80	63	59

Model	Brio 100 scooter	Brio 100/25 scooter	48 Cacciatore	50SL
Year	1964-7	1968	1964-7	1966
Generator/output	6v/30w	6v/30w	6v/18w	6v/18w
Battery	none	none	none	none
I With 42T rear wheel sprocket; 5.000 dirt, 60T				

Model	50SL1	50SL2	Rolly 50	50 Scrambler
Year	1967-8	1968-9	1968	1969-70
Bore (mm)	38.8	38.8	38	38.78
Stroke (mm)	42	42	42	42
Capacity (cc)	49.660	49.660	47.663	49.660
Compression ratio	11:1	11:1	6.3:1	10.5:1
Valve gear	ts	ts	ts	ts
bhp @ rpm			1.5 5200	3.27 6500
Oil system	petrol/oil mix	petrol/oil mix	petrol/oil mix	petrol/oil mix
Primary drive gearing	3.666:1	3.666:1		3.000:1
Final drive gearing	4.083:1	4.083:1		3.818:1
Box gearing				
4th	1.04:1	1.04:1		1.04:1
3rd	1.35:1	1.35:1		1.35:1
2nd	1.94:1	1.94:1		1.94:1
1st	3.27:1	3.27:1		3.27:1
No. gears	4	4	1	4
Front tyre	2.25 x 19	2.25 x 19		2.50 x 18
Rear tyre	2.25 x 19	2.25 x 19		2.50 x 17
Front brake (mm)	drum 118	drum 118	drum 90	drum 118
Rear brake (mm)	drum 118	drum 118	drum 90	drum 118
Front suspension	teles	teles	teles	teles
Rear suspension	s/a	s/a	solid	s/a
Ignition system	flywheel mag	flywheel mag	flywheel mag	flywheel mag
Wheelbase (mm)	1150	1150		1180
Seat height (mm)	730	730		730
Width (mm)	550	650		800
Length (mm)	1770	1770		1840
Dry weight (kg)	59	60	43	64
Generator/output	6v/18w	6v/18w	6v/18w	6v/18w
Battery	none	none	none	none

Model	100 Scrambler	125 Cadet/4	Sebring	350 Scrambler
Year	1969-70	1967	1965-7	1968-74
Bore (mm)	52	53	76	76
Stroke (mm)	46	55	75	75
Capacity (cc)	97.690	121.340	340.235	340.235
Compression ratio	11.2:1	8.4:1	8.5:1	9.5:1
Valve gear	ts	ohv	ohc	ohc
bhp @ rpm	6.27 6000			
Oil system	petrol/oil mix	wet sump	wet sump	wet sump
Inlet opens BTDC		30	20	65 70
Inlet closes ABDC		70	70	76 84
Exhaust opens BBDC		70	50	80 80
Exhaust closes ATDC		30	30	50 64
Tappets, inlet (mm)		0.05	0.07	0.10
Tappets, exhaust (mm)		0.05	0.10	0.15
Primary drive gearing	3.000:1	3.000:1	2.111:1	2.111:1
Final drive gearing	3.000:1	3.000:1	2.647:1	3.214:1
Box gearing				
5th			0.97:1	0.97:1
4th	1.04:1	1.043:1	1.10:1	1.10:1

Model	100 Scrambler	125 Cadet/4	Sebring	350 Scrambler
Year	1969-70	1967	1965-7	1968-74
3rd	1.35:1	1.35:1	1.35:1	1.35:1
2nd	1.94:1	1.937:1	1.73:1	1.73:1
1st	3.27:1	3.181:1	2.53:1	2.46:1
No. gears	4	4	5	5
Front tyre	2.50 × 18	2.50 × 18	2.75 × 18	3.50 × 19
Rear tyre	2.50 × 17	2.75 × 18	3.00 × 18	4.00 × 18
Front brake (mm)	drum 118	drum 118	drum 180	drum 180
Rear brake (mm)	drum 118	drum 118	drum 160	drum 160
Front suspension	teles	teles	teles	teles
Rear suspension	s/a	s/a	s/a	s/a
Ignition system	flywheel mag	coil	coil	coil
Wheelbase (mm)	1180	1160	1330	1330
Ground clear. (mm)	150		130	130
Seat height (mm)	730	770	800	770
Width (mm)	800	670	850	940
Length (mm)	1840	1810	2000	2120
Dry weight (kg)	67	72	123	133
Generator/output	6v/30w	6v/28w	6v/60w	6v/70w
Battery	none	6v 13.5ah	6v 13.5ah	6v 13.5ah

Model	Sebring (w/case)
Year	1968
Bore (mm)	76
Stroke (mm)	75
Capacity (cc)	340.235
Compression ratio	9.5:1
Valve gear	ohc
Oil system	wet sump
Inlet opens BTDC	20
Inlet closes ABDC	70
Exhaust opens BBDC	50
Exhaust closes ATDC	30
Tappets, inlet (mm)	0.05
Tappets, exhaust (mm)	0.10
Primary drive gearing	2.111:1
Final drive gearing	3.214:1
Box gearing:	
5th	0.97
4th	1.10
3rd	1.35:1
2nd	1.73:1
1st	2.46:1
No. gears	5
Front tyre	2.75 × 18
Rear tyre	3.00 × 18
Front brake (mm)	drum 180
Rear brake (mm)	drum 160
Front suspension	teles
Rear suspension	s/a
Ignition system	coil
Wheelbase (mm)	1365
Ground clear. (mm)	130
Seat height (mm)	800
Width (mm)	850
Length (mm)	2000
Dry weight (kg)	127
Generator/output	6v/70w
Battery	6v 13.5ah

Model	350 Mark 3	350 Mark 3D	350 Desmo	450 Scrambler
Year	1968–74	1968–71	1971–4	1969–74 5
Bore (mm)	76	76	76	86
Stroke (mm)	75	75	75	75
Capacity (cc)	340.235	340.235	340.235	435.661
Compression ratio	9.5:1	9.5:1	9.5:1	9.3:1
Valve gear	ohc	ohc	ohc	ohc
Oil system	wet sump	wet sump	wet sump	wet sump
Inlet opens BTDC	70	70	70	27
Inlet closes ABDC	84	82	82	75
Exhaust opens BBDC	80	80	80	60
Exhaust closes ATDC	64	65	65	32
Tappets, inlet (mm)	0.10	upper rocker 0.15 lower rocker 0	upper rocker 0.15 lower rocker 0	0.10
Tappets, exhaust (mm)	0.15	upper rocker 0.15 lower rocker 0	upper rocker 0.15 lower rocker 0	0.15
Primary drive gearing	2.111:1	2.111:1	2.111:1	2.111:1
Final drive gearing	3.214:1	2.500:1	2.500:1	2.692:1
Box gearing:				
5th	0.97:1	0.97:1	0.97:1	0.97:1
4th	1.10:1	1.10:1	1.10:1	1.10:1
3rd	1.35:1	1.35:1	1.35:1	1.35:1
2nd	1.73:1	1.73:1	1.73:1	1.73:1
1st	2.46:1	2.46:1	2.46:1	2.46:1
No. gears	5	5	5	5
Front tyre	2.75 × 18 1	2.75 × 18	2.75 × 18	3.50 × 19
Rear tyre	3.00 × 18 2	3.00 × 18	3.25 × 18	4.00 × 18
Front brake (mm)	drum 180 3	drum 180	dual drum 180 4	drum 180 6
Rear brake (mm)	drum 160	drum 160	drum 160	drum 160
Front suspension	teles	teles	teles	teles
Rear suspension	s/a	s/a	s/a	s/a
Ignition system	coil 7	coil	coil 8	coil
Wheelbase (mm)	1360	1360	1360	1380
Ground clear. (mm)	130	130	130	130
Seat height (mm)	735	735	735	770
Width (mm)	780	600	600	940
Length (mm)	2000	2000	2000	2120
Dry weight (kg)	128	128	128	140
Generator/output	6v/70w	6v/70w	6v/70w	6v/70w
Battery	6v 13.5ah	6v 13.5ah	6v 13.5ah	6v 13.5ah
1 1973–4—3.0 × 19	2 1971–4—3.50 × 18	3 1973–4—dual drum 180	4 1973–4 280 disc. Also available with	6 1973–4 dual drum 180
a dual drum 180	5 450SCR, marketed as the Jupiter in the USA during 1970 season			
7 1973–4—electronic	8 1973–4—electronic			

Model	450 Mark 3	450 Mark 3D	450 Desmo	450R/T
Year	1969–74	1969–71	1971–4	1971–2
Bore (mm)	86	86	86	86
Stroke (mm)	75	75	75	75
Capacity (cc)	435.661	435.661	435.661	435.661
Compression ratio	9.3:1 1	9.3:1	9.3:1	9.3:1
Inlet opens BTDC	27	70	70	70
Inlet closes ABDC	75	82	82	82
Exhaust opens BBDC	60	80	80	80
Exhaust closes ATDC	32	65	65	65
Tappets, inlet (mm)	0.10	upper rocker 0.15 lower rocker 0	upper rocker 0.15 lower rocker 0	upper rocker 0.15 lower rocker 0
Tappets, exhaust (mm)	0.15	upper rocker 0.15 lower rocker 0	upper rocker 0.15 lower rocker 0	upper rocker 0.15 lower rocker 0
Primary drive gearing	2.111:1	2.111:1	2.111:1	2.111:1
Final drive gearing	2.666:1	2.666:1	2.666:1	2.692:1
Box gearing:				
5th	0.97:1	0.97:1	0.97:1	0.97:1
4th	1.10:1	1.10:1	1.10:1	1.10:1

Model	450 Mark 3	450 Mark 3D	450 Desmo	450R/T
Year	1969-74	1969-71	1971-4	1971-2
3rd	1.35:1	1.35:1	1.35:1	1.35:1
2nd	1.73:1	1.73:1	1.73:1	1.73:1
1st	2.46:1	2.46:1	2.46:1	2.46:1
No. gears	5	5	5	5
Front tyre				3.00 × 21
Rear tyre				4.00 × 18
Front brake (mm)	drum 180 2	drum 180	dual drum 180 3	drum 158
Rear brake (mm)	drum 160	drum 160	drum 160	drum 160
Front suspension	teles	teles	teles	teles
Rear suspension	s/a	s/a	s/a	s/a
Ignition system	coil 4	coil	coil 5	flywheel mag
Wheelbase (mm)	1360	1360	1360	
Ground clear. (mm)	130	130	130	
Seat height (mm)	735	735	735	790
Width (mm)	780	600	600	930
Length (mm)	2000	2000	2000	2180
Dry weight (kg)	130	130	130	124
Generator/output	6v/70w	6v/70w	6v/70w	6v/40w
Battery	6v 13.5ah	6v 13.5ah	6v 13.5ah	none
1 Some 450 Mark 3s in touring trim had a concave 8:1 piston in 1972				
280	4 1973-4—electronic	5 1973-4—electronic	2 1971-4 dual drum 180	3 1973-4—disc

Model	125 Scrambler
Year	1971
Bore (mm)	55.2
Stroke (mm)	52
Capacity (cc)	124.443
Compression ratio	8.5:1
Valve gear	ohc
bhp	10
@ rpm	8500
Oil system	wet sump
Inlet opens BTDC	24
Inlet closes ABDC	40
Exhaust opens BBDC	56
Exhaust closes ATDC	22
Tappets, inlet (mm)	0.20
Tappets, exhaust (mm)	0.20
Primary drive gearing	3.000:1
Final drive gearing	3.714:1
Box gearing:	
5th	0.97:1
4th	1.10:1
3rd	1.35:1
2nd	1.65:1
1st	2.39:1
No. gears	5
Front tyre	2.50 × 19
Rear type	3.50 × 18
Front brake (mm)	drum 158
Rear brake (mm)	drum 136
Front suspension	teles
Rear suspension	s/a
Ignition system	coil
Wheelbase (mm)	1340
Ground clear. (mm)	180
Seat height (mm)	850
Width (mm)	860
Length (mm)	2040
Dry weight (kg)	105
Battery	6v 11ah

Model	450T/S	450 Mark 3 Tourer	Regolarita	Six Days
Year	1971-2	1970-2	1975-6	1977
Bore (mm)	86	86	54	54
Stroke (mm)	75	75	54	54
Capacity (cc)	435.661	435.661	123.672	123.672
Compression ratio	9.3:1	8:1	12.4:1	14.6:1
Valve gear	ohc	ohc	ts	ts
bhp			21.8	25
@ rpm			9000	10250
Inlet opens BTDC	70	27		
Inlet closes ABDC	82	75		
Exhaust opens BBDC	80	60		
Exhaust closes ATDC	65	32		
Tappets, inlet (mm)	upper rocker 0.15 lower rocker 0	0.10		
Tappets, exhaust (mm)	upper rocker 0.15 lower rocker 0	0.15		
Primary drive gearing	2.111:1	2.111:1		
Final drive gearing	2.692:1	2.666:1		
Box gearing:				
6th			2.65:1	2.65:1
5th	0.97:1	0.97:1	3.05:1	3.05:1
4th	1.10:1	1.10:1	3.77:1	3.77:1
3rd	1.35:1	1.35:1	4.87:1	4.87:1
2nd	1.73:1	1.73:1	6.61:1	6.61:1
1st	2.46:1	2.46:1	9.5:1	9.5:1
No. gears	5	5	6	6
Front tyre	3.00 x 21	3.00 x 18	3.00 x 21	3.00 x 21
Rear tyre	4.00 x 18	3.25 x 18	3.75 x 18	4.00 x 18
Front brake (mm)	drum 158	drum 180	drum 125	drum 125
Rear brake (mm)	drum 160	drum 160	drum 125	drum 125
Front suspension	teles	teles	teles	teles
Rear suspension	s/a	s/a	s/a	s/a
Ignition system	flywheel mag	coil	Motoplat electronic	Motoplat electronic
Wheelbase (mm)		1360		
Ground clear. (mm)		130		
Seat height (mm)	790	735	851	856
Width (mm)	930	800		
Length (mm)	2180	2000		
Dry weight (kg)	128	133	108	101
Generator/output	6v/40w	6v/70w	6v/60w	6v/60w
Battery	none	6v 13.5ah	6v 7ah	6v 7ah