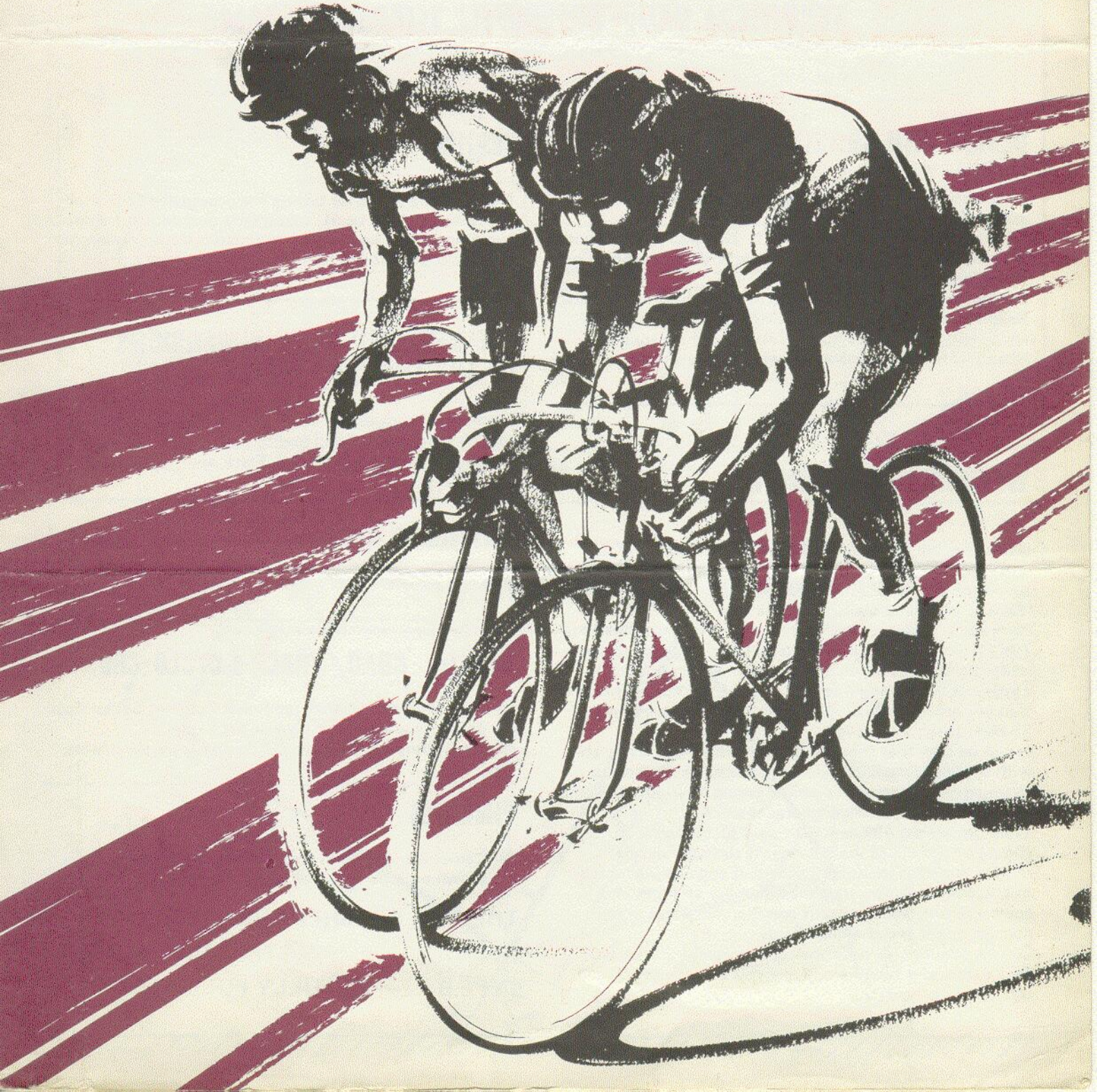
Speedwell

TITANIUM CYCLE FRAME

Light, strong... for the space-age cyclist.



From the world's leading titanium frame makers — the ultra-lightweight, super-strong, Speedwell titanium frameset. Non-corrosive, non-oxidizing, stronger than steel, lighter than aluminium.
Keen to come first? Ride Speedwell .....

TECHNICAL DATA - 'SPEEDWELL' TITANIUM FRAME

DESIGN AND CONSTRUCTION

Angles and detailing are in general accordance with accepted British and Continental standards.
Frame sizes are based on 20", 21", 22", 23" and 24" with dimensions and angles in accordance with those shown on facing page.
Bottom bracket will suit English or French metric threads.
Head set assemblies are either Campagnolo or a suitable equivalent of the same quality. All frames are supplied with Head sets fitted in accordance with clients' instructions.

WEIGHTS AND STRENGTHS

Generally, the frame complete with forks and head sets, will weigh approx. 4lb. 1oz. (frame & fork alone 3lb.11oz.) according to size and individual specification.
Material is commercially pure Titanium Grade 125 or equivalent, having a tensile strength in the range 60KS1 to 79KS1. All tubes are butt welded, this being carried out under the strictest control in vacuum welding chambers.
Typical tensile strengths are 27·0 ton f/in^2. Youngs Modulus is in the order of 15-17. 10^6 lbf/m^2 with fatigue limits 55-60% of tensile strength.
It will be seen that these details compare most favourably with those of conventional racing machines. Speedwell titanium frames achieve a weight saving of about 30% with greatly improved strength characteristics.
Titanium weighs 45% less than steel (0.16 lbs/cu. in. compared with 0.28 lbs/ cu. in.) Its strength-weight ratio is superior to most of the usual engineering metals; this, accompanied by toughness, fatigue strength and corrosion resistance, make it common for usage in the nuclear, space and chemical fields.
Careful selection of tube diameter, material grades, wall thicknesses and swaging now permits a frame of considerable rigidity.

TESTING

Mechanical and service testing has proved the Speedwell titanium frame to be of outstanding quality. All frames are guaranteed for two years for any defects in workmanship and materials, subject to normal wear and use.

THE DESIGNED BASIC DIMENSIONS OF THE TITANIUM FRAME

The basic dimensions of the Titanium Frame are given in both British Imperial and metric sizes.
Frame Designs cater for Road, Track and Cyclo-Cross.

STANDARD ROAD

The five standard sizes are shown in table, facing page.

SPECIAL ROAD/TRACK & CYCLO-CROSS

To make specials, whether for Road, Track or Cyclo-Cross, the details required are shown on back page.
All dimensions for 'specials' are to clients' requirements.

FINISHES

All frames are offered in two finishes, the prices for which are shown on separate price list.

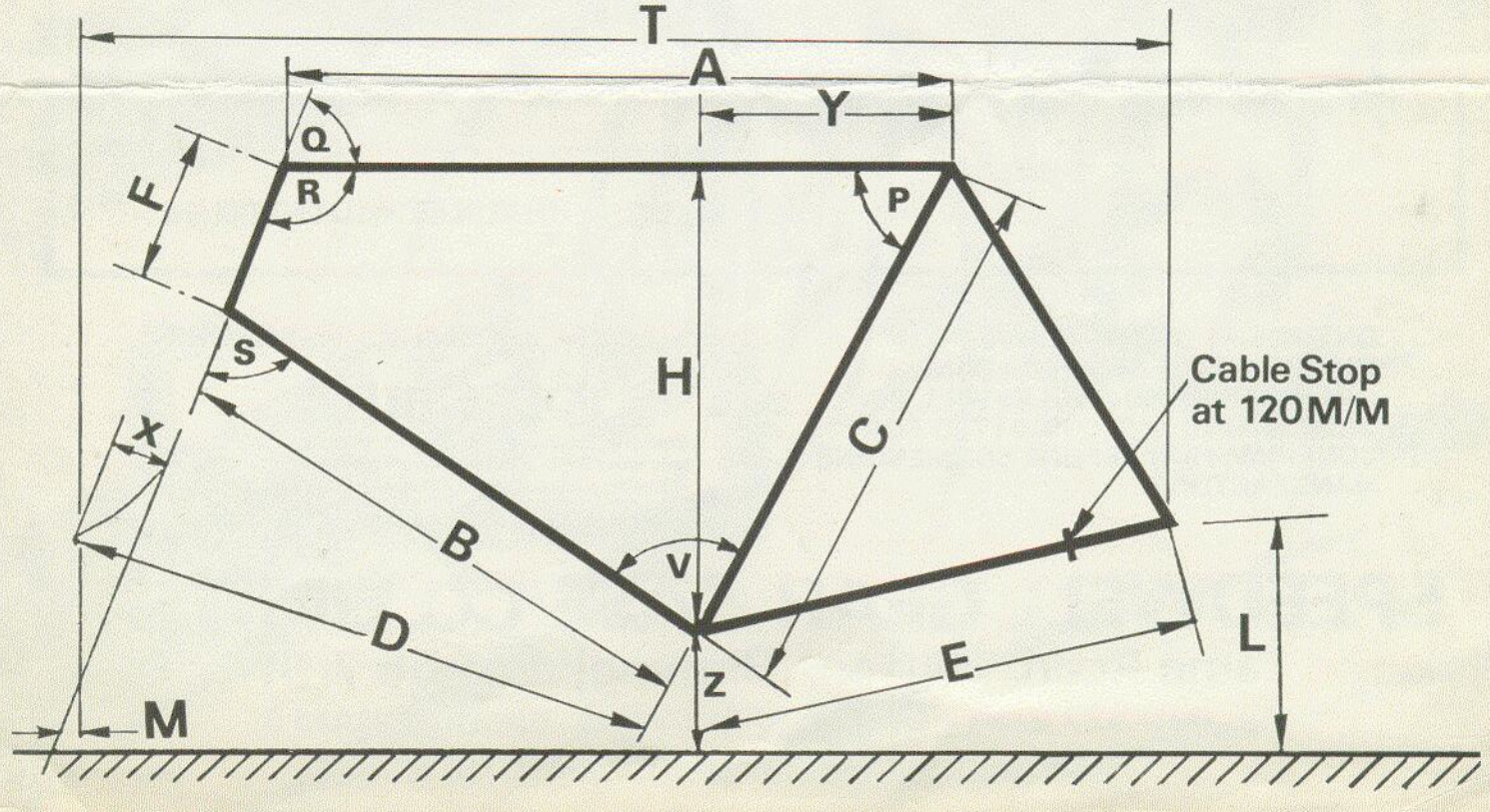
THE TWO FINISHES ARE:

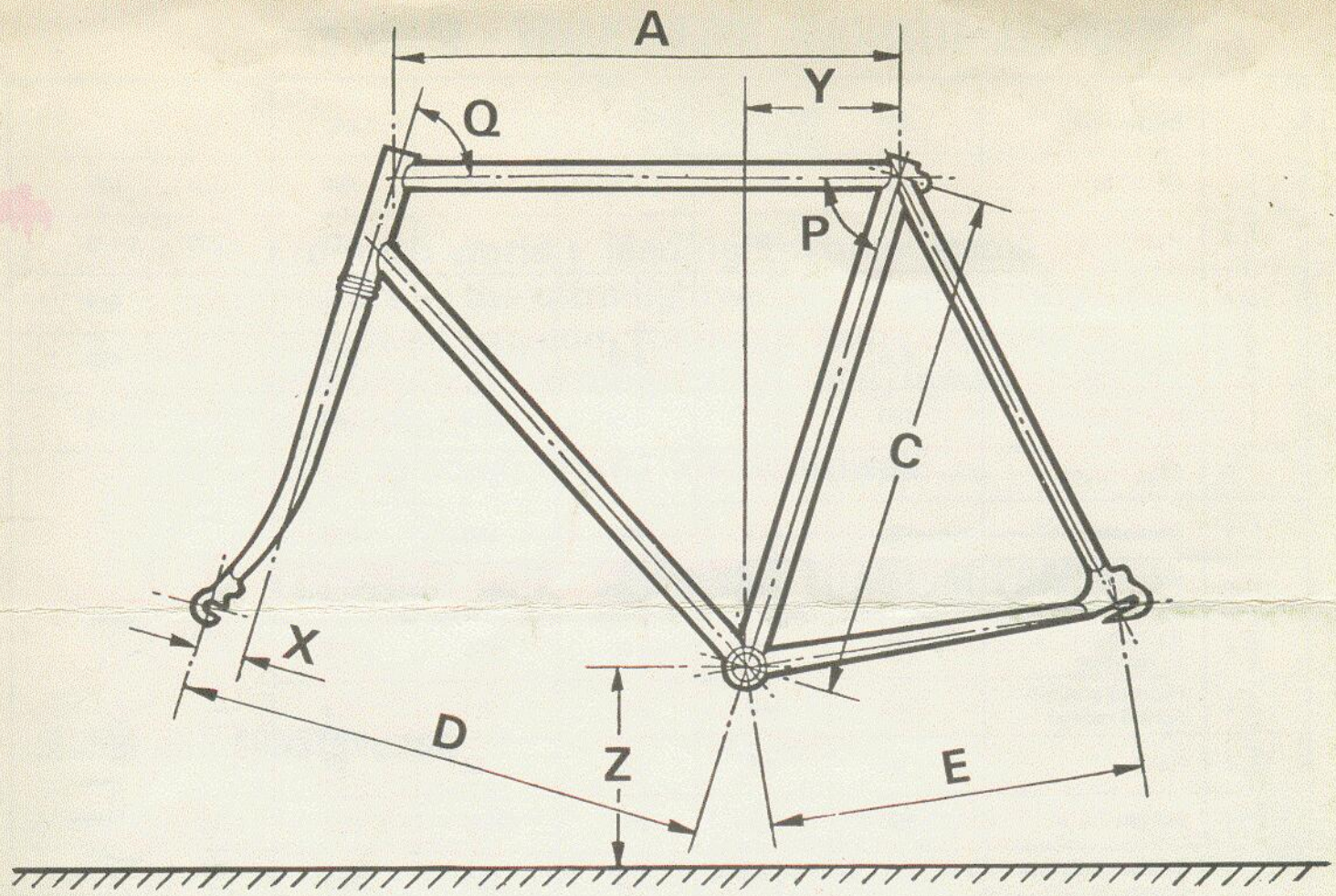
TYPE A — PAINTED MATT BLACK
TYPE B — FULLY POLISHED

SPEEDWELL TITANIUM ROAD FRAME - MARK VI

		British Size	20"	21"	22"	23"	24"	Tube Sizes	
		Metric Size	490	517	539	565	590	O/D	I/D
Centre to Centre	F	Head Tube	25	50	60	85	111	1.250"	1.178"
Centre to Centre	A	Top Tube	533	533	571	571	571	1.000"	.944"
Centre to Centre	B	Down Tube	606	606	633	633	633	1.125"	1.029"
Centre to Centre	C	Seat Tube	490	517	539	565	590	1.131"	1.075"
	H	Drop Height	472	497	517	541	566		
	Y	Displacement	135	143	153	160	168		
Centre to Centre	D	Bottom Bracket to front hub	587	587	587	587	587		
Centre to Centre	E	Bottom Bracket to rear hub	415	415	415	415	415		
Centre to Centre	L	Hubs to ground (wheel radius)	343	343	343	343	343		
Centre to Centre	X	Rake	51	51	32	32	32		
Centre to Centre	T	Overall Track	993	993	993	993	993		
Centre to Centre	Z	Bottom Bracket to ground	273	273	273	273	273		
		Angle P	74°	74°	73° 30'	73° 30'	73° 30'		
		Angle Q	72°	72°	73° 35'	73° 35'	73° 35'		
		Angle R	108°	108°	106° 25'	106° 25'	106° 25'		
		Angle S	60° 08'	60° 08'	59° 50'	59° 50'	59° 50'		
		Angle V	58° 08'	58° 08'	59° 45'	59° 45'	59° 45'		

Polished FRAMES IN STOCK
$575.00 Shipped UPS





TO MAKE A SPECIAL FRAME, THE FOLLOWING DETAILS ARE REQUIRED:

ROAD, TRACK OR

CYCLO-CROSS FRAME .....

.....

TYPE OF FINISH .....

.....

DIMENSION (CENTRE TO CENTRE)

A .....

C .....

Y (OR ANGLE P) .....

X .....

D (OR ANGLE Q) .....

E .....

Z .....

BOTTOM BRACKET WIDTH: 68mm

ON RECEIPT OF THE ABOVE INFORMATION, ALL REMAINING DIMENSIONS AND ANGLES WILL BE CALCULATED AND SUBMITTED FOR CONFIRMATION BEFORE COMMENCING MANUFACTURE.

Guarantee

Speedwell titanium framesets are guaranteed for two years for any defect in workmanship and materials subject only to normal wearing and usage.

SPEEDWELL GEAR CASE CO. LIMITED

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