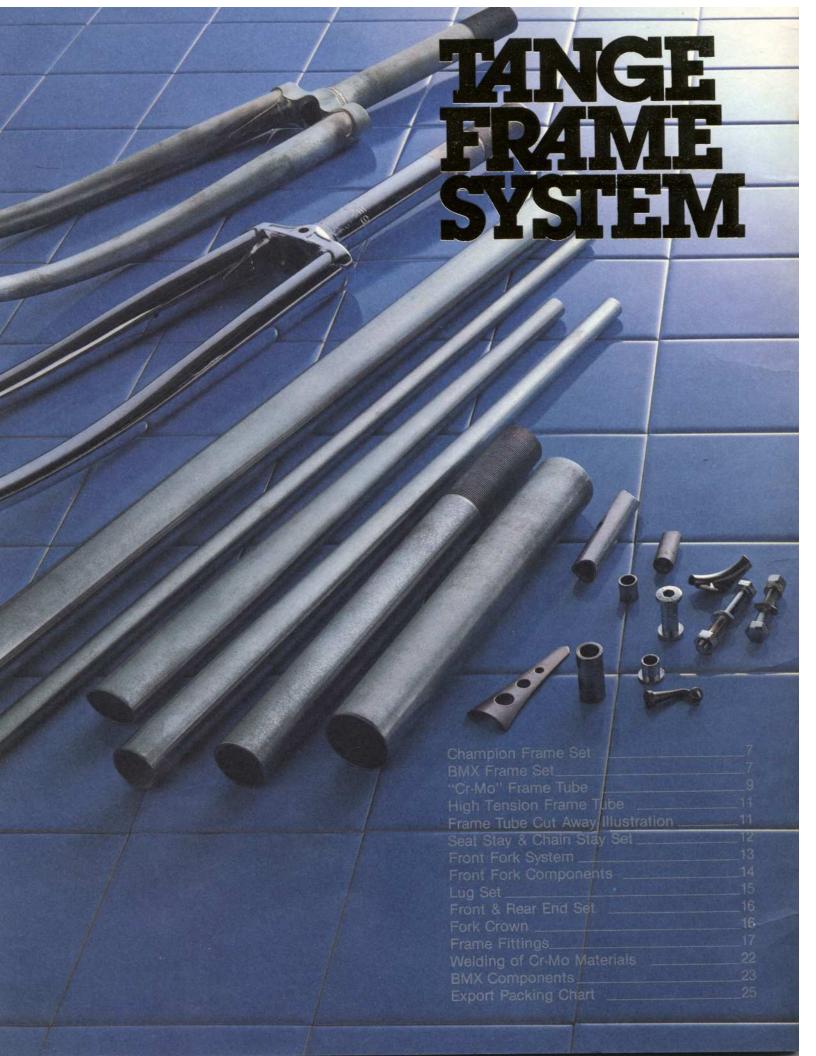
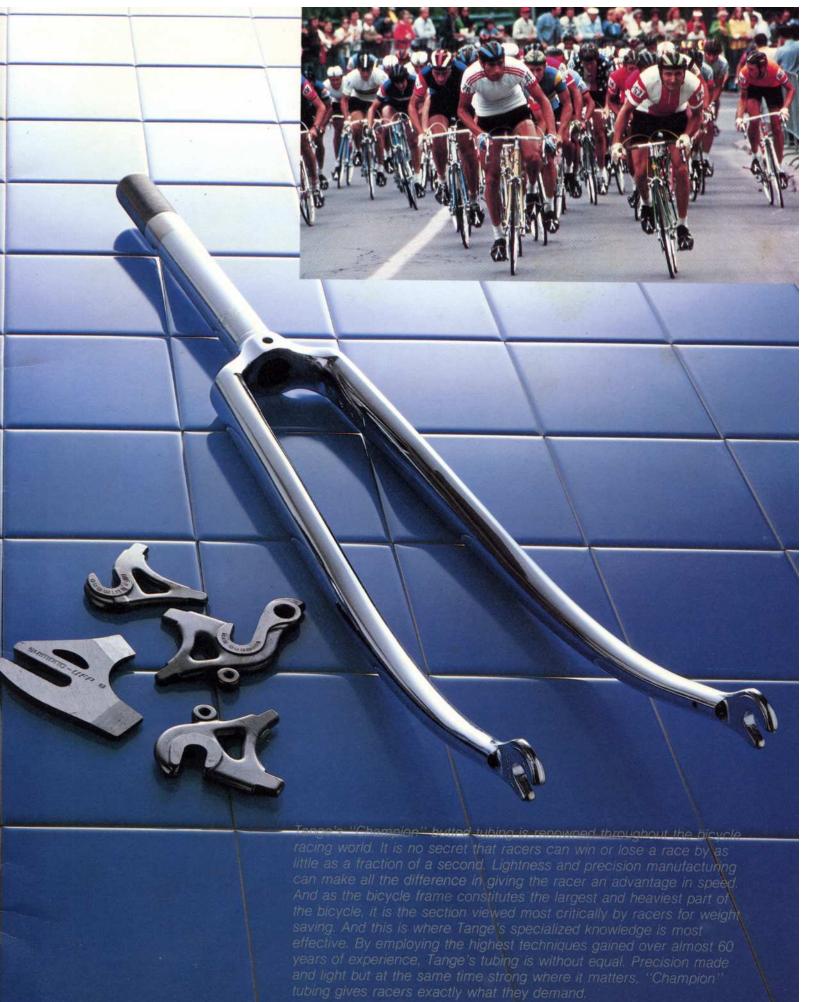
TANGE FRANKE SYSTEM













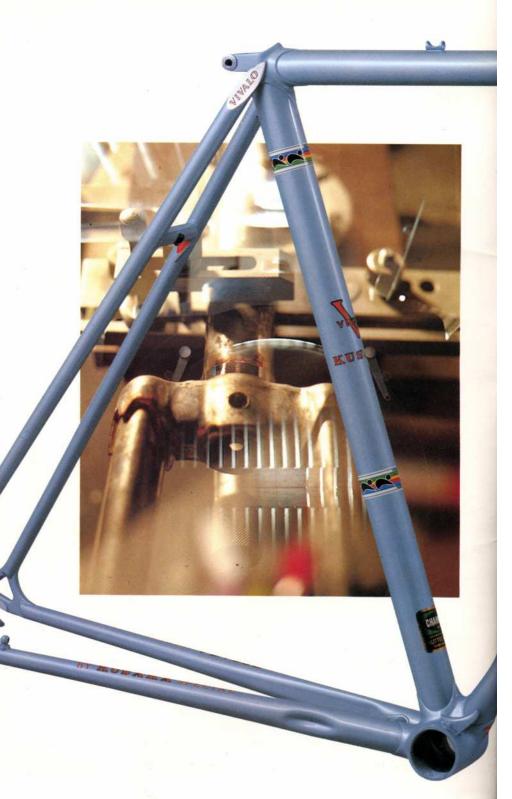
60 Years of Experience

Is Responsible for TANGE's World Renowned Products

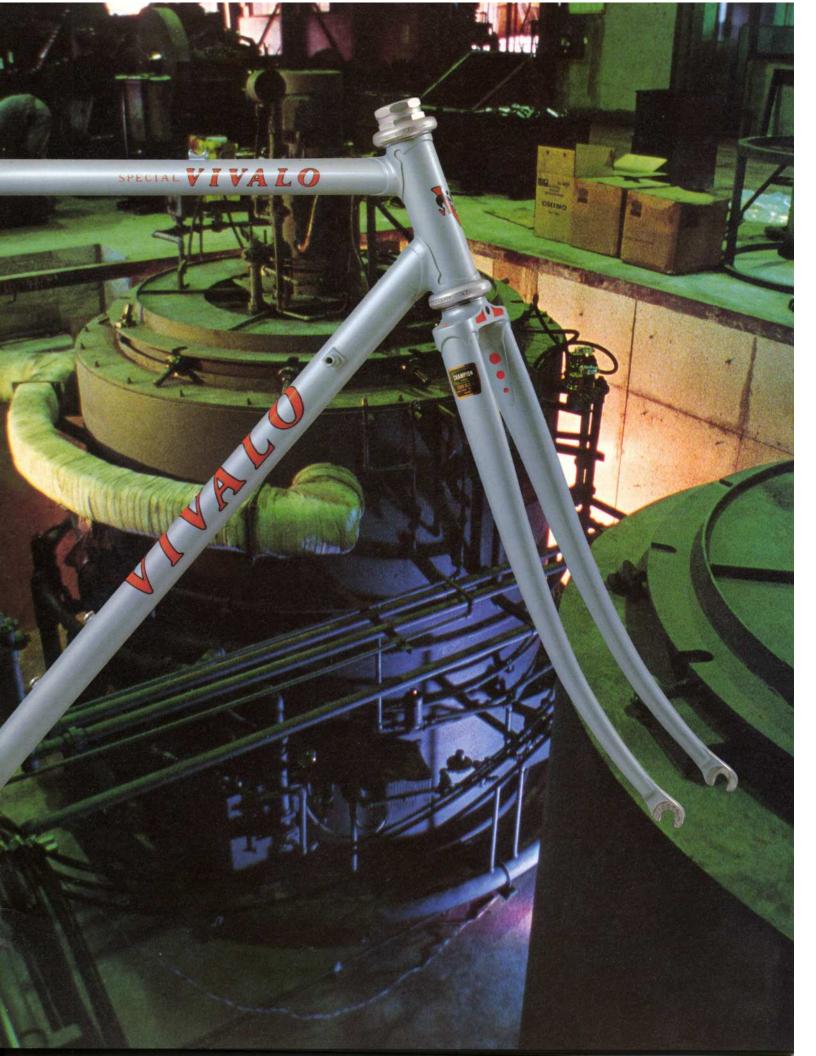
Frame tubing and front forks are just some of the products manufactured by the largest supplier of this field in Japan. Tange's commitment to research and development and strict quality control is responsible for the excellence inherent in each product. Tange experts personally supervise each stage of production within the corporation's own premises. No part goes outside until manufacturing is completed. This means quality is of the highest order and explains why bicycle manufacturers throughout the world have come to rely on Tange workmanship.

Tange also makes a point of keeping abreast of the latest trends so that consumer demand is always anticipated. When combined with Tange's own technology and metallurgical experience, going back 60 years, the end result is one of unsurpassed quality and precision. An example of Tange's high technology and customer consideration is the unique process whereby all tubing heat treatment is carried out in unoxidizing furnaces. This enables Tange to give added strength, critical precision and a smoother surface to make the frame builder's work much easier. As testimony to the reputation enjoyed by Tange, these products are exported. to bicycle makers

all over the world.



Unoxidized furnace treatment for added strength and precision.



CHAMPION FRAME SET

CHAMPION FRAME SYSTEM

	Product		1 Fork Stem	2 Fork Blade	3 Head Tube	4 Top Tube	5 Down Tube	6 Seat Tube	7 Seat St
	Parts		1	2	1	1	1	1	2
	CHAM AE		No. 1706	No. 1606	No. 1406	No. 1416	No. 1436	No. 1456	No. 150
	CHAMPION Pro 0.6 ~ 0.3 ^t	Double Butted (D-BT)	No. 1700	No. 1600	No. 1401	No. 1410	No. 1430	No. 1450 No. 1451	No. 150
	CHAMPION No. 1 0.8 ~ 0.5 ^t	Double Butted (D-BT)	No. 1700	No. 1601	No. 1401	No. 1411	No. 1431	No. 1452	No. 150
Cr-Mo	CHAMPION No. 2 0.9 ~ 0.6 ^t	Double Butted (D-BT)	No. 1700	No. 1601	No. 1401	No. 1412	No. 1432	No. 1452	No. 150
	CHAMPION No. 3 1.0 ~ 0.7 ^t	Double Butted (D-BT)	No. 1700	No. 1601	No. 1401	No. 1413	No. 1433	No. 1452	No. 150
	CHAMPION No. 4 0.9 ~ 0.7 ^t	Single Butted (S-BT)	No. 1700	No. 1601	No. 1401	No. 1414	No. 1434	No. 1453	No. 150
	CHAMPION No. 5 0.9 ^t	Plain Gauge (P.G)	No. 1700	No. 1601	No. 1401	No. 1415	No. 1435	No. 1454	No. 150
Hi-Tension	No. 101 1.2 ~ 0.9 ^t	Double Butted (D-BT)	No. 1720	No. 1620 No. 1621	No. 1470	No. 1420	No. 1440	No. 1460	No. 1520
(H.T)	No. 102 1.2 ~ 0.9 ^t	Single Butted (S-BT)	No. 1720	No. 1620 No. 1621	No. 1470	No. 1421	No. 1441	No. 1461	No. 152

TANGE BMX FRAME SYSTEM









No.	1	2	3	4	5	6	7	8	9	10	11	
Product	Head Tube	Top Tube	Down Tube	Seat Tube	Seat Stay	Chain Stay	Bridge	Bottom Bracket	Rear Fork End	Gasket Rein- force- ment Plate	Front Fork	Use
Parts	1	1	1	1	2	2	1	1	2	1		
Cr-Mo Double Butted Oval Tube	36.6 x 2.0	28.6 x 1.0/0.8 Oval D.B.T	28.6 x 1.0/0.8 Oval D.B.T	25.4 x 1.3 P.G	15.9 x 1.0 Oval P.G	22.2 x 0.8 Oval P.G	15.9 x 1.0 P.G	57 x 51.5	3.2t	2.8t Double Gasket	TANGE TRX	Racing
Cr-Mo Double Butted Tube	36.6 × 2.0	28.6 x 1.2/0.9 D.B.T	28.6 x 1.2/0.9 D.B.T	25.4 x 1.3 P.G	15.9 x 1.0 P.G	15.9 x 1.0 P.G	15.9 x 1.0 P.G	57 x 51.5	3.2t	2.8t Double Gasket	TANGE TX-SUPER	Racing
Cr-Mo P.G. Tube	36.6 × 2.0	25.4 x 1.2	25.4 x 1.2	25.4 x 1.3	15.9 x 1.0	15.9 x 1.0	15.9 x 1.0	57 x 51.5	3.2t	2.8t Single	TANGE TX-500W	Racing & Leisure
Mangaloy Tube	36.6 × 2.0	25.4 x 1.3	25.4 x 1.3	25.4 x 1.3	15.9 x 1.3	15.9 × 1.3	15.9 x 1.3	57 x 51.5	3.2t	2.8t Single	TANGE TX-1200W TANGE TX-1200	Racing & Leisure

















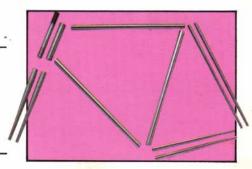
8 Chain Stay	Seat Weight 23" x 27"	9 Head Lug	10 Seat Lug	11 B.B. Shell	12 Fork Crown	13 End	
2	-11	2	1	1	1	6	Use
No. 1556			-		AERO No. 1175 AERO No. 1176	No. 1216 No. 1316	
No. 1550	1,600g	/ No. 1800	No. 1840			SFP No. 1121 (Front)	Road Racing
No. 1551	1,960g	No. 1820 No. 1801 No. 1821	No. 1841 No. 1845		For Road C10 No. 1171 C12 No. 1172 NR No. 1174 C1 No. 1151 C2 No. 1152 For Track CTR No. 1154 NT No. 1173	No. 1311 (Rear) TR No. 1215 (Front)	Track Racing Road Racing
No. 1551	2,050g		No. 1846 No. 1843	No. 1869		No. 1315 (Rear) SF No. 1206 (Front)	Track Racing Road Racing Touring
No. 1551	2,130g	No. 1803 No. 1823	No. 1847 No. 1849			No. 1305 (Rear) TL No. 1212 (Front)	Heavy Duty Touring Touring
No. 1551	2,050g	No. 1802 No. 1822	2007			No. 1308 (Rear) SFR No. 1206	Road Racing Touring
No. 1551	2,230g	1 100. 1822	No. 1842			No. 1306	Road Racing Touring
No. 1560	2,710g	No. 1810	No. 1850		AL-2 No. 1117	TF No. 1210 (Front)	Road Racing Touring
No. 1560	2,630g	No. 1830	No. 1855		AL-7 No. 1118 CCL No. 1120	No. 1213 (Front) No. 1308 (Rear)	Road Racing Touring

CR-MO COMPOSITION (SAE 4130)

 С	S ₁	Mn	Mo	S	Р	Cr	
0.33%	0.35%	0.85%	0.25%	0.03% Max	0.03% Max	1.2%	

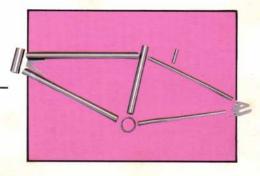
MANGALOY COMPOSITION

С	Si	Mn	P	S	Cu	Ti
0.12 Max.	0.15~0.35	0.90 Max.	0.06 Max.	0.035 Max.	0.25~4.50	0.15 Max.

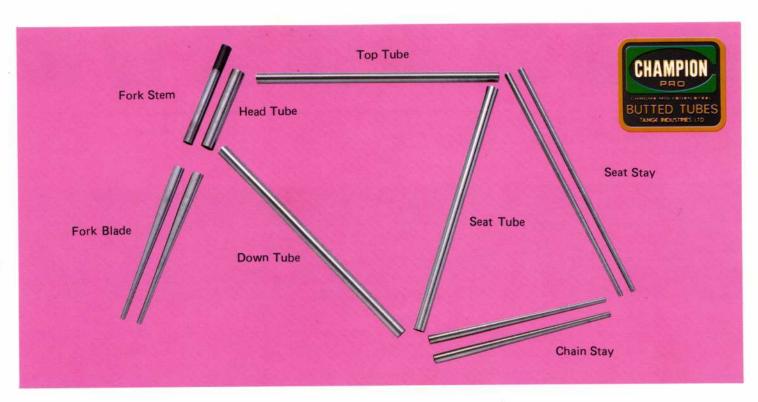


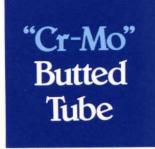
HI-TENSION COMPOSITION

С	Si	Mn	Р	S	Cu	Ti
0.09%	0.23%	0.67%	0.06 Max.	0.02% Max.	0.29%	0.04%



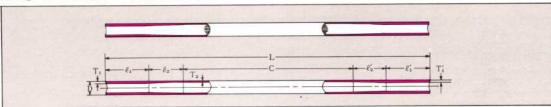
"CR-MO" FRAME ORDER SYSTEM





Note: All dimensions in this catalogue are mentioned by "mm".

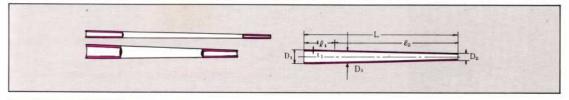
BUTTED TUBE



Product Description		Outside dia.	Part No.	Thickness	bu	ith of tted art	tap	oth of ered art	Length of thin- ned part	Length Ł	Weight
	ELERY ST	D			Q2	£'1	ℓ_2	£' 2	Ċ		
			1410	0.6~0.3~0.5	80	120	50	50	250	550	160g
	Double		1411	0.8~0.5~0.8	:						240g
	Butted		1412	0.9~0.6~0.9	80	130	50	50	290	600	274g
			1413	1.0~0.7~1.0							309g
Top Tube	Single Butted	25.4φ	1414	0.9~0.7	90	-	50			600	270g
	Plain Gauge (P.G)		1415	0.9		<u>,</u>					
		c) and	1430	0.6~0.3~0.6	80	120	50	50	250	550	180g
	Double		1431	0.8~0.5~0.8							295g
Butted		1432	0.9~0.6~0.9	80	180	50	50	290	650	340g	
			1433	1.0~0.7~1.0							380g
Down Tube		28.6φ	1136	1.2~0.9~1.2							
	Single Butted	-	1434	0.9~0.7	90	_	50	-		615	315g
	Plain Gauge (P.G)	55	1435	0.9				_			613g/m
	27. 99		1450	0.6~0.3~0.6	80	120	50	50	250	550	180g
	Double Butted		1451	0.8~0.5~0.8	80	170	50	50	250	550	180g
	Butted		1452	0.9~0.6~0.9	80	180	50	50	250	610	300g
Seat Tube	Single Butted	28. 6 φ	1453	0.9~0.7	90	1-0	50	-		610	3129
	Plain Gauge (P.G)		1454	0.9							613g/m
Head Tube	Plain Gauge (P.G)	31.8φ	1401	1.0			(511			200	152g



SEAT STAY & CHAIN STAY



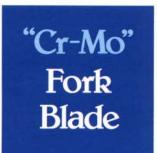
Product	Part	No		Outside Diameter		Straight Part	Tapered Part	Total Length	Weight
	No.	For "PRO"	For No. 1-2	D1	D2	Ŷ ₁	R ₂	L	(pair)
Seat Stay	1500	0.6		144	11φ	280	320		240g
Seat Stay	1501		0.8	14φ	10ø	240	360	600	310g
Chain Stau	1550	0.6		22.2φ	12.5φ	2.5φ 70 3	340		220g
Chain Stay	1551		0.8	22.2φ	12.5φ	70	340	420	300g

· Seat Stay "Cr-Mo" Special Spec Product

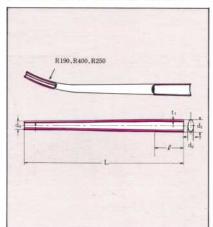
Part No.	Outside (Outside diameter		Straight part	Tapered part	Total Length	Weight
	D1	D2	t ₁	Q,	٤,	L	(pair)
1502	14.5φ	444	0.8	200	200	000	325g
1503	15.9ϕ	11ϕ	0.6	280	320	600	355g

• Chain Stay "Cr-Mo" Special Spec Product

Part No.	Thickness	0	utside Diame	ter	Straight part	Tapered part	Total Length	Weight (pair)
	t	D1	D2	D3	Q ₁	Q2	L	
1552	0.8	22.2φ	12.5φ	24ϕ	22	110	420	300g
1553	0.8	22.2φ	12.5φ	30×19	22	110	420	310g
1554	0.8	22.2φ	12.5φ	27×16	80	105	420	300g



FORK BLADE



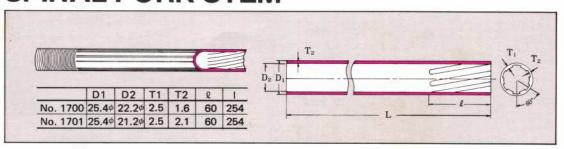
Part No.	Use	Thickness (even thickness)	Outside diameter		Straight Part	Total Length	Weight (pair)
		t ₁	d ₁ xd ₂	d ₃	Q	L	(pair)
1600	For "PRO"	0.9	28.6	12.7φ	100	420	300g
1601	No. 1-3	1.0	×16.4 12.7φ				390g
Bent		For Champie For No. 1-3	on "P	RO"	No. 1610 No. 1611		

• "Cr-Mo" Special Spec Product

0	val sha	pe	Thickness (even thickness)	Rou		Regular size			Weight (pair)
Part No.	Size	Section d ₁ xd ₂	t1 t2	Part No.	Size D1	Tip dia meter D2	Straight part	Total Length L	
1600	23		0.9	1603	23φ				300g
1601	23	28.7×16.4	1.0	1602	23φ	12.7φ	100	420	390g
1605	24	27.4×20.6	1.0	1608	24φ			- 36	390g

"Cr-Mo" Fork Stem

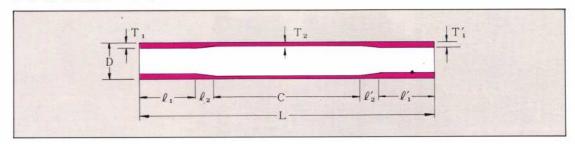
SPIRAL FORK STEM



"HIGH-TENSION" FRAME TUBE

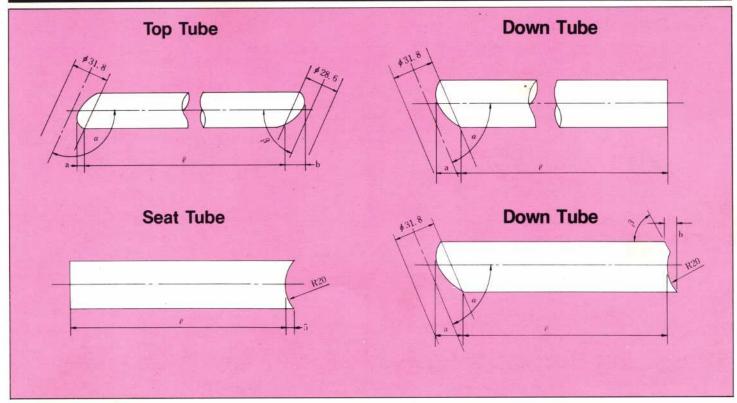


FRAME TUBE



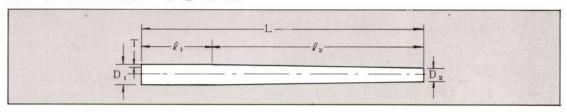
Product I	Description	Outside Diameter	Part No.	Thickness	P	tted art ngth	P	ered ert ngth	Length of Thinned Part	Total Length L	Weight
		D				Q, Q', Q;		Q' 2	С		
	Double	05.41	1420	1.2~0.9~1.2	75	125	40	40	280	560	345g
Top Tube	Single	25.4φ	1421	1.2~0.9	90	-	40	_		500	325g
	Double	00.01	1440	1.2~0.9~1.2	75	115	40	40	330	600	420g
Down Tube	Single	28.6φ	1441	1.2~0.9	90	_	40) <u>—</u>)	_	600	395g
	Double	00.0	1460	1.2~0.9~1.2	75	115	40	40	280	000	420g
Seat Tube	Single	28. 6 φ	1461	1.2~0.9	90	-	40	250		600	395g
Head Tube	Plain Gauge (P.G)	31.8φ	1470	1.2	-	_	-	-	-	150	135g

Frame Tube Cut Away Illustration





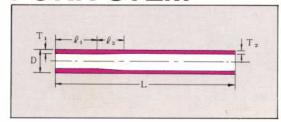
TAPERED TUBE



Deceluse	Part No.	Thickness	Outside Di	ameter	Straight Part	Tapered Part	Total	Weigh
Product		Т	D ₁	D ₂	Q ₁	R ₂	Length L	
Seat Stay	1520	1.0	14φ	11φ	280	320	600	348g
Chain Stay	1560	1.0	22.2φ	12.5φ	80	340	420	390g
Fork Blade	1620	1.2	Oval. 28.7×16.4	13φ	80	320	400	520g
Assess of the temperature	1621	1.2	23ϕ	13ϕ		0.20	100	520g

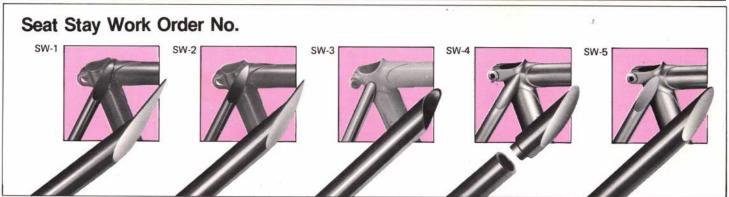
"Hi-Ten" Fork Stem

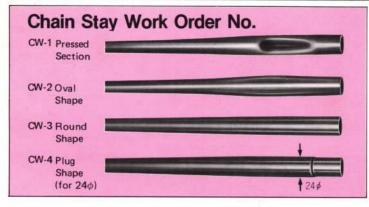
FORK STEM

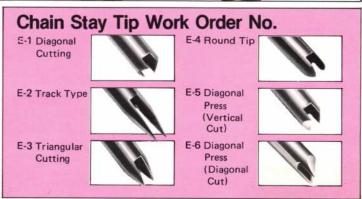


Outside	Inside	Thic	kness	Butted	Tapered	Total	
Diameter	Diameter	T ₁	Т,	Part L ₁	Part 02	Length L	Weight
25.4φ	22.2¢	2.7	1.6	50	25	254	260g
25.4¢	21.20	2.7	2.1	50	25	254	315g

Seat Stay & Chain Stay Set







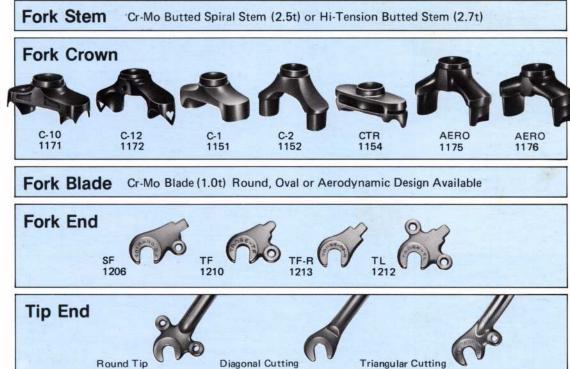
FRONT FORK SYSTEM

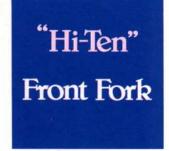


The "Cr-Mo" Front Fork System (chromium molybdenum steel) is especially suitable for racing and superior quality bicycle models. Consisting of 5 independent parts, the chromium molybdenum steel front fork can be made-to-order. By specifying which individual parts are required, Tange will braze and supply your "Cr-Mo" Front Fork complete.

'CR-MO'' FRONT FORK SYSTEM







The "Hi-Ten" Front Fork is an excellent product suitable for all types of bicycle.

"HI-TENSION" FRONT FORK SYSTEM

Fork Stem Hi-Tension Butted Stem (2.7t) Fork Crown ARII-2W ARII-OW A-2 1120 1118

Fork Blade Hi-Tension Blade (1.2t) Round or Oval Available

Round Tip



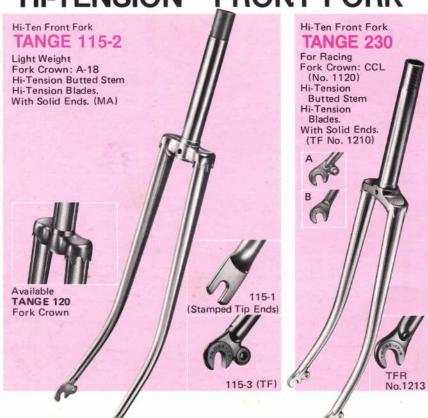


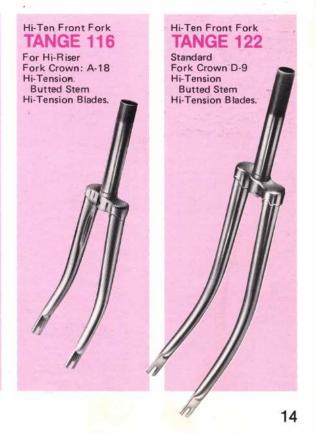
FRONT FORK COMPONENTS

"CR-MO" CHAMPION FRONT FORK



"HI-TENSION" FRONT FORK

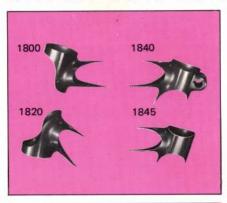




LUG

TANGE Champion Lug Set

CHAMPION LUG SET

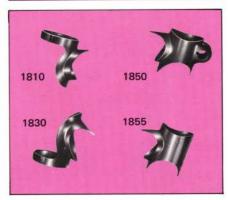


Product	High-Tension 1.0mm t Steel Part No.	High-Tension 1.0mm t with hole ◊ Part No.	Angle (mm)	Weight (g)
Top Head Lug	1800	1801	31.8φ×25.4φ 73°	17g
Bottom Head Lug	1820	1821	31.8¢x28.6¢ 58°30′	22g
Seat Lug	1840	1841	25.4φ×28.6φ 73°	25g
Lug-without Locking (ear)	1845	1851	25.4φ×28.6φ 73°	19g



Product	High-tension 1.2mm t Steel Part No.	High-tension 1.0mm t Steel Part No.	Angle (mm)	Weight (g)
Top Head Lug	1802	1803	31.8φ×25.4φ 73°	1.2t(21)g 1.0t(17)g
Bottom Head Lug	1822	1823	31.8φ×28.6φ 58°30′	1.2t(27)g 1.0t(22)g
Seat Lug	1842	1843	25.4φ×28.6φ 73°	1.2t(30)g 1.0t(25)g
Lug-without Locking (ear)	1848	1847	25.4φ×28.6φ 73°	1.2t(23)g 1.0t(19)g

| Cor | Cor



Super Champion Lug

Product	Carbon-steel 1.4mmt Part No.	Angle	Weight (g)
Top Head Lug	1810	31.8φ × 25.4φ 73°	20 g
Bottom Head Lug	1830	31.8¢×28.6¢ 58°30′	25 g
Seat Lug	. 1850	25.4φ×28.6φ 73°	40 g
Lug-without Locking (ear)	1855	25.4φ×28.6φ 73°	32 g



CASTING IRON LUG



Product	Part No.	Angle (m	m)	Weight (mm)
Seat Lug	1849- 1	25.4φ×28.6φ	73°	00=
Seat Pin	1849- 2	6φ×18	10φ×8	90g
Bottom Bracket Shell	1869	28.6φ×28.6φ ×22.2φ	58°30′ ×64° 68	175g

FRAME SYSTEM

FRONT & REAR END SET

TANGE Front & Rear **End Set**



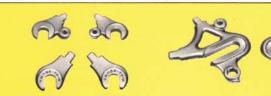
TR end (forged). No. 1215 Fork End. 65g No. 1315 Rear End. 155g



SFR end (forged) Straight Drop Out End. No. 1206 Fork End. 70g No. 1306 Rear End. 185g



SF end (forged). No. 1206 Fork End. 85g No. 1305 Rear End. 175g



TF end (forged). No. 1210 Fork End. 50g No. 1213 Fork End. 45g

No. 1308 Rear End. 165g

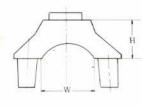
CHAMPION FORK CROWN

TANGE Champion Fork Crown









Symbol

C-10

1171

Material

Blade

Diameter (mm)

24 Oval

Height (mm)

Weight

185 g











1120





AERO

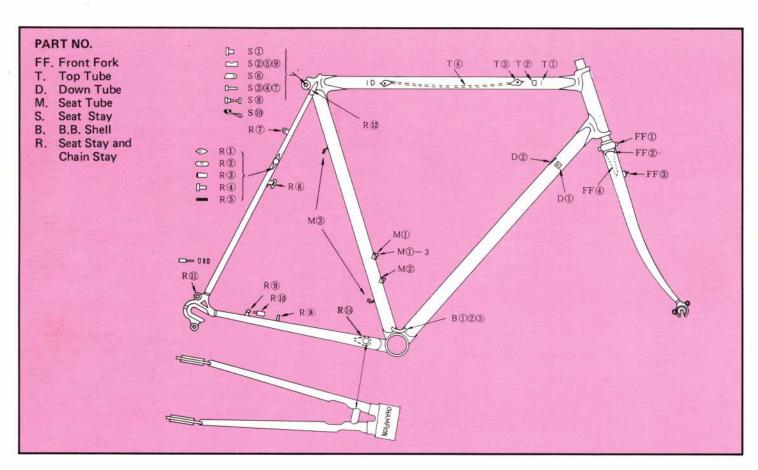
1176



1151

1172	C-12	Micro Fusion	39	24 Oval	15.5	140 g
1154	CTR	Casting Iron	43.5	23 Round	17	155 g
1173	NT	Micro Fusion	36	24 Round	16	125 g
1174	NR	Micro Fusion	38	24 Oval	19	125 g
1175	AERO	Micro Fusion	42	23 AERO	16	210
1176	AERO	Micro Fusion	42	23 AERO	20	210 g
1151	C-1	Casting Iron	45	23 Oval	18	150 g
1152	C-2	Casting Iron	47	23 Oval	17	195 g
1117	AL-2	Press	45	23 Oval	23	130 (
1118	AL-13	Press	45	23 Oval	23	130 g
1120	CCL	Press	45	23 Oval	21	120 (

CHAMPION FRAME FITTING



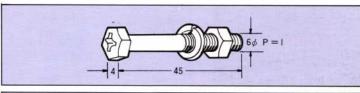


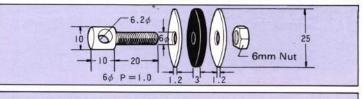
FRONT FORK PARTS

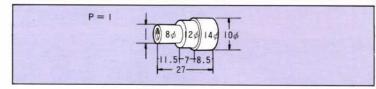
Bolt for Caliper Brake

Hanger Fittings for Mud Guard

Canti Brake Fittings

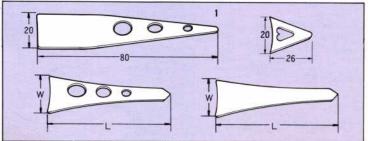




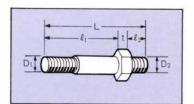


Fork Blade Reinforcement Plate Thickness 1 m/m

Type	Size WxL	Shape
FF 4 -1	20 x 80	(Large) W/Three Holes
2	22 × 59	(Small) W/Three Holes
3	22 x 59	(Small) W/0 Hole
4	19.5 × 55	(Small) W/Three Holes
5	19.5 x 55	(Small) W/0 Hole
6	21 × 56	(Small) W/Three Holes
7	21 x 56	(Small) W/0 Hole

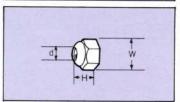






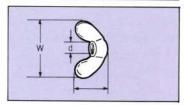
Туре	L	£,	Q 2	t	D,	D,
FF-5-1	39	27	7	4	6	6
2	25	13	8	4	6	5
3	24	11	10	4	6	6

Round Headed



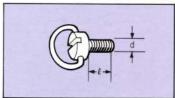
Туре	н	d	W
FF- 6 -1	8	5	10
2	8	6	10

Wing Nut



Туре	Н	d	W
FF- 7 -1	10	5	20
2	12	6	25

Ring Fitted Screw

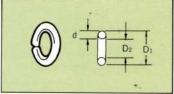


Туре	d	Q
FF-8 -1	5	11
2	6	12

TANGE TopTube Parts

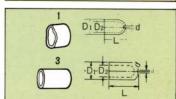
TOP TUBE PARTS

Guide Ring for Wire



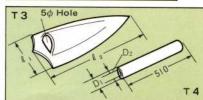
Туре	Di	D,	d
T 1 -1	11φ	7φ	2.5¢

T2 Wire Stopper



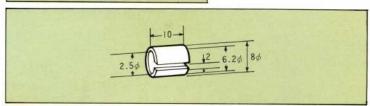
Туре	D,	D,	d	L
T 2 -1	9	7φ	2.5φ	7
2	8	6φ		

T3 Cover for Incorporated Brake Wire



	\mathfrak{Q}_1	$\boldsymbol{\varrho}_2$	Bending F
T 3 -1	15	46	14
T 3 -2	14	25	14
T 4 -1	D ₁ L		t D ₂ 0.8t x 2.4φ
Inserting			

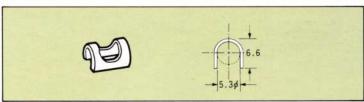
T5 Split Outer (Metal Bearing)



T6 Outer Guide Machine Processed



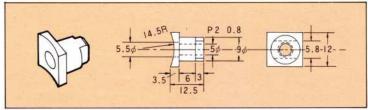
Outer Guide Pressed



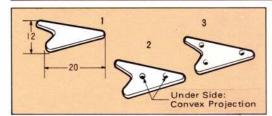
TANGE DownTube Parts

DOWN TUBE PARTS

D1 Shifting Lever Fittings



D2 Shifting Lever Stopper

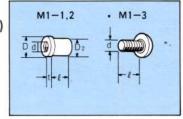


Thickness 1mm. Bend 14.3R



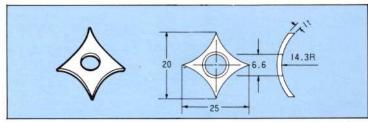
SEAT TUBE PARTS

M1 Bottle Fitting Nut (Natural Color)

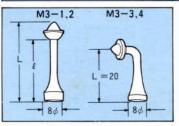


Type	D,	D,	d (Screw)	t	Q
M 1 -1	10	7.8	6 P=1	2	8
2	9	6.5	5 P=0.8 180	1.5	6
3	for N	rew // -2	⁵ 180		10

M2 Bottle Fitting Reinforcement



M3 Pump Peg (Natural Color)



Type	L	Q
M- 3 -1	30	22
2	26	18

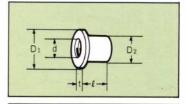
M- 3 -3 Pump peg-bent 4 L=17

M-3-1-2 Straight Type M-3-3-4 Bent Type



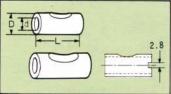
SEAT PARTS

S1 Seat Inserting Collar (C/P Finish)



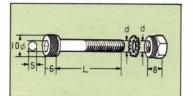
Туре	Dı	D_2	d	t	Q
S 1 -1	12	8	6	1.5	8
2		Sel	f Col	or	

Seat Collar (Natural Color)



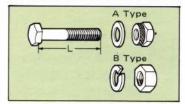
Type D facing R S-2-1 11 6.5 14.3 7.5 2 12 24 14.3 3 14 8.5 26 14.3 S- 2-3 Special specification (Split).

Seat Pin With Allen Key Bolt



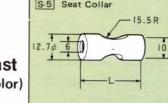
Туре	d	L
S- 3 -1	6 P=1	35
2	6	40
3	6	45

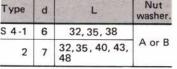
Seat Pin With Washer & Nut (C.P Finish)



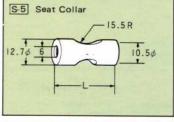
Туре	d	L	Nut washer.
S 4-1	6	32, 35, 38	
2	7	32,35,40,43, 48	A or B

Seat Collar (S 5-1 L = 25 S5-2L=31



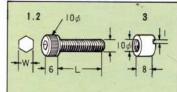


Malleable Cast Iron (Natural Color)



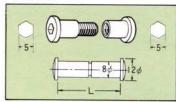


Cap Bolt "Cr-Mo" Steel (C/P Finish)



Туре	d	L	W
S 7 -1	6	10,12,14,16,20,25, 30,35,40,50	5
2	5	8,10,12,14,16,20, 25,30	4
3	6	Nut	

Allen Key Seat **Tweezers Bolt** (C/P Finish)

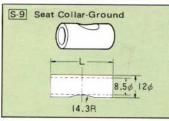


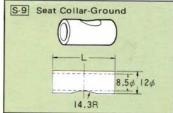
Туре	L	Application
S 8 -1	22	For S-9-1
2	19	For S-9-2

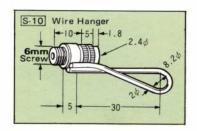
Seat Collar (Natural Color)

(For S8)		
Туре	L	
S -9 -1	26	
2	23	

Wire Hanger







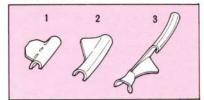
TANGE B.B. Shell Parts

B.B. SHELL PARTS

B1

Wire Lead Tube (Natural Color)

B3

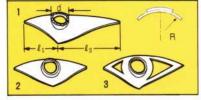


Type	Uses
B 1	For rear.
B 2	For rear.
. В 3	For front.

TANGE Chain Stay Parts

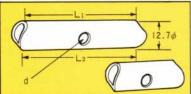
CHAIN STAY PARTS

R1 Upper Bridge Reinforcement (Natural Color)



Туре	Q,	Q2	d	R
R 1 -1	18	29	8	6.5
2	17.6	17.6	9	7
3	16	23	9.4	7.9

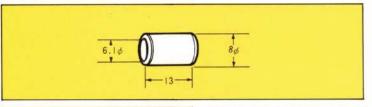
R2 Bridge (with Spot Facing)
(Natural Color)



Туре	Difference between L ₁ and L ₂	d	Spot facing.
R 2 -1	Less than 4.	6.2¢	14.5φ, 16φ
2	Less than 4.	5.5φ	22.2φ
3	Less than 4.	8 -	14.5φ, 16φ

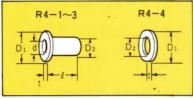
R3 Reinforcement Tube for Upper Bridge

(Natural Color)



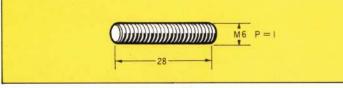
R4 Metal Fitting Seat

(Ground for Brake to be Fixed to Upper Bridge)



Туре	D,	D,	d	t	0
R 4 -1	14	8.0	6.2	1.6	13
2	14	8.0	6.2	1.6	15
3	14	8.0	6.2	1.6	18
4	14	8.1	_	1.5	_

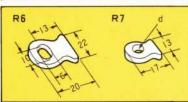
R5 Bolt



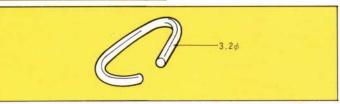
R6 Bracket
(Natural Color)

R7 Carrier Fixing Board

R8 Chainguard
(Natural Color)

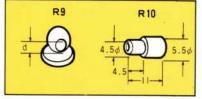


R- 7 -1 d=5.5φ 2 d=6M P=1



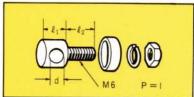
R9 Iron Wire Block Metal Boss

R10 Brass Outer Receptacle U/P



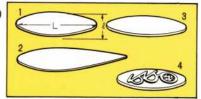
Type d
R 9 ·1 4.1φ
2 5M JIS
3 5M ISO

R11 Brass Brake Tightening Bolt and Ring N/P



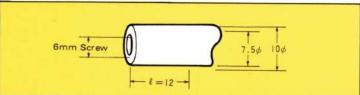
Туре	d	٤,	R,
R 11-1	5.3	9	12
2	4.2	7	12

R12 Chain Stay Cap

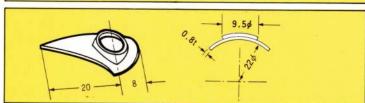


Туре	L	Q
R 12-1	42	16
2	58	15.8
3	43	17
4	W/Mark	

R13 Rear Carrier Fixing Bar

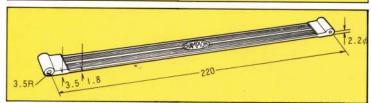


R14 Fitting Bridge Reinforcement





Synthetic Rubber Color: Black, Ivory or Brown

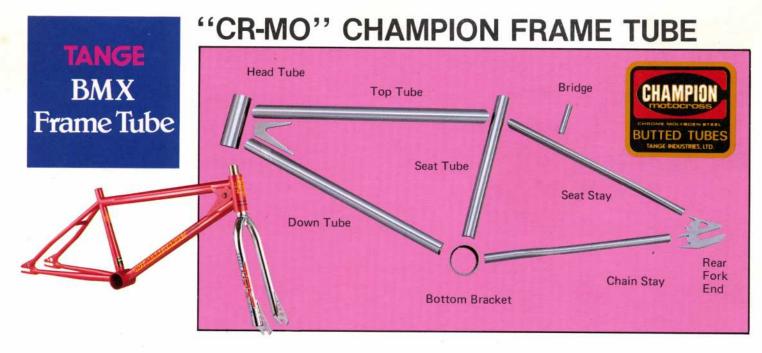


Brazing Cr-Mo Materials

- When brazing, please use material with expansion strength of 60kg/mm² at a low melting point. The melting point of brazing material is around 850°C. For flux, use either gas flux or paste flux No. 110.
- To ensure smooth brazing flow, it is important to clear away impurities from the parts to be brazed.
- Before braxing, the tube and minor parts have to be thoroughly polished. For heating, concentrically apply small amounts and soft braze as far as possible.
 Also, take care not to allow over heating.
- 4. After brazing, cool as slowly as possible.
- 5. If brazed section appears to be brittle, heat again at $650^{\circ} \sim 700^{\circ} \text{C}$ and cool slowly.
- Where to cut the TUBE. TOP TUBE: Cut the blue varnished side (to be fixed to the seat tube). DOWN TUBE: Cut the blue varnished side (to be fixed to the B.B. Shell).
 - SEAT TUBE: Cut the blue varnished side (to be fixed to the Seat Lug).
- 7. Take note of the butted section length $(\ell_1 \text{ and } \ell'_1)$ when cutting the tube.

MOTOCROSS COMPONENTS





BMX FRAME SET



rame Set

Cr-Mo Oval Double Butted Tube

Top Tube: $28.6 \times 1.0/0.8 \times \text{Oval D.B.T}$ Down Tube: $28.6 \times 1.0/0.8 \times \text{Oval D.B.T}$ Seat Tube: $25.4 \times 1.3 \text{ P.G}$

Head Tube: 36.6 x 2.0 Seat Stay: 15.9 x 1.0 Oval P.G Chain Stay: 22.2 x 0.8 Oval P.G



Frame Set

Cr-Mo Double Butted Tube

Top Tube: 28.6 × 1.2/0.9 × D.B.T. Down Tube: 28.6 × 1.2/0.9 × D.B.T Seat Tube: 25.4 × 1.3 P.G

Head Tube: 36.6 x 2.0 Seat Stay: 15.9 x 1.0 P.G Chain Stay: 15.9 x 1.0 P.G



Frame Set

Cr-Mo P.G. Tube

Top Tube: 25.4 × 1.2 Down Tube: 25.4 × 1.2 Seat Tube: 25.4 × 1.3 Head Tube: 36.6 × 2.0 Seat Stay: 15.9 × 1.0 Chain Stay: 15.9 × 1.0



Frame Set

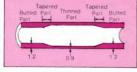
Mangaloy Tube

Manganese Alloy Tubing Top Tube: 25.4 x 1.3 Down Tube: 25.4 x 1.3 Seat Tube: 25.4 x 1.3 Head Tube: 36.6 x 2.0 Seat Stay: 15.9 x 1.3 Chain Stay: 15.9 x 1.3

Cr-Mo Double Butted Tubing

The double butted ends of Tange's tubing give strength to the points most subject to stress and tension along with improved welding. And the central section of the tube has been thinned for the necessary flexibility in coping with the demands of BMX

racing. This perfect balance, used for the first time ever in BMX racing, can only be found in Tange's Double Butted Tubing.



COMPOSITION

C	Si	Mn	Mo S		P	Cr
0.33%	0.35%	0.85%	0.25%	0.03% Max	0.03% Max	1 2%

Cr-Mo Oval Tubing

Tange created a unique, new seamlen oval tubing which greatly reduces air resistance for aerodynamic efficiency, while at the same time increasing strength. This mean the butted sections' thickness could be reduced for extra lightness. In addition, a special ridge along the tube center provides extra strength and durability for the toughest racing conditions. The only tubing developed especially for BMX racing — Tange's Cr-Mo Oval Tubing.

Mangaloy Tubing

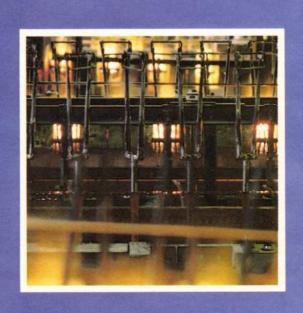
A futuristic material for bicycle frames has appeared in the shape of Tange's Mangaloy Tubing. Almost as strong as Cr-Mo, Mangaloy is far superior to work with in welding and for manufacturing processes. This revolutionary material will be in great demand for bicycle frames throughout the BMX industry.

COMPOSITION

С	Si	Mn	Р	S	Cu	Ti
0.12 Max.	0.15~0:35	0.90 Max.	0.06 Max.	0.035 Max.	0.25~4.50	0.15 Max.

EXPORT PACKING CHART

Material	Product	Size of Part No.	Contents	Net Weight (kgs)	Gross Weight (kgs)	Measurement (ft
		ne Tube 11-Piece cking Case)	20 Small Boxes	38	43	3.7
	Butted Frame Tubes	Dia x Length mm 25.4 x 600 25.4 x 600 28.6 x 650 28.6 x 650	100 pcs	101 28 112 31	118 30 131 33	5.5 1.7 6.7 2.3
Cr-Mo	Head Tubes	No. 1401	250 pcs	38	40	2
	Seat Stays Chain Stays	No. 1501 No. 1551	100 pcs	31 30	33 32	2.0
	Fork Blade	No. 1601 ~ 5	100 sets	39	41	2.0
	Fork Stem	No. 1701	100 pcs	23	25	0.7
是	Butted Frame Tube	No. 1420 No. 1421 No. 1440 No. 1441 No. 1460 No. 1461	100 pcs 100 100 100 100 100	35 33 42 40 42 40	37 35 44 42 44 42	1.7 1.7 2.1 2.1 2.1 2.1
	Head Tube	No. 1470	100	14	15	0.7
Hi-Ten	Seat Stay Chain Stay	No. 1521 No. 1561	100 sets	35 39	37 41	2.0 2.0
	Fork Blade	No. 1622 ~ 3	50 sets	26	28	1.0
	Fork Stem	No. 1720 No. 1721	100 pcs 100	27 31	29 33	1.0
	Fork Ends	No. 1206 No. 1212	500 sets	43 30	45 32	1.5 1.2
		No. 1210	500	25	27	1.0
	Rear Ends	No. 1305 No. 1308	200 sets	35 33	37 35	1.5
Cr-Mo	Front Forks	No. 130 No. 124 No. 150 No. No.	10 Small Boxes	10	14	2.0
Hi-Ten		No. 115 ~ 1 No. 115 ~ 2 No. 115 ~ 3 No. 230 No. 116 No. 122	25 pcs 25 pcs. 25 pcs 25 pcs 25 pcs 25 pcs 25 pcs	22 22 22 22 22 18 25	25 25 25 25 25 21 21 28	2.5 2.5 2.5 2.5 2.0 2.5
	Lug 3-pce Sets	No. 1800 ~ 3 No. 1820 ~ 3 No. 1840 ~ 3	200 sets	40	43	2.4
	Bracket Shell	No. 1869	100 pcs	21	**	2.9
	Casting Iron Set Lug	No. 1849–1 ~ 2	200 pcs	18	20	3.0
	Casting Iron Fork Crown	No. 1151 No. 1152 No. 1154	150 pcs	26	28	1.5
	Pressed Fork Crown	No. 1117 No. 1118 No. 1120	150 pcs	20	22	1.0
	riessed i dik Glowii	No. 1171 No. 1174 No. 1172 No. 1175 No. 1173 No. 1176	150 pcs	28	30	1.5
	Frame Tube BMX Cr-Mo & Hi-Ten	Cr-Mo D Tube Cr-Mo P.G Tube Mangaloy Tube	10 set (12 pcs ea) 10 set (12 pcs ea) 10 set (12 pcs ea)	20 20 22	24 24 26	2.5 2.5 2.5
	Front Fork BMX	TRX TX-500 W TX-1200 W TX-1200	25 25 25 25 25	17 19 20 20	20 22 23 23	2.0 2.0 2.0 2.0





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