

Our Tandem Wheel Philosophy:

Tandem Wheels are a key component of the tandem bicycle. It is not advisable to try to save on weight on a tandem by using very light wheels. All the rider loads, and road impacts are reacted through the wheels. If a tandem wheel fails during a ride or high-speed descent it could be a catastrophic event resulting in serious injuries.

A high performance single bike wheel set typically has a spoke count less than 24 spokes per wheel. A low spoke count tandem wheel (less than 40 spokes per wheel) is subjected to very high stresses if one of the spokes break. A 24 spoked wheel's spokes for example is carrying about 75% more load per spoke than a 40 spoked wheel. If a spoke breaks, the 24 spoked wheel's spoke are then carrying about an additional 34% more load per spoke. Now consider that the tandem wheel is subjected to about twice the loads of a single bike. The likelihood of wheel failure happening is quite high.

CAS only recommends using wheels for your tandem which are tandem rated. Obtaining tandem rated wheel components is some times difficult, but we will try to accommodate all requests.

The following are wheels and components we recommend.

HUBS							
Mfg.	Model	Drilling	Spacing	Brakes	Cassette	Weight (no disk / disk) grams	Retail Price
Phill Wood	FSC - rear	40 / 48	140 / 145 / 160	Drum & Disk	Shimano	625	\$425
	FSC - front	36/ 40/ 48	100	Disk	No	392	\$189
	FSC - front	36/ 40/ 48	100	no	No	278	\$109
DT Hugl	TD - rear	40 / 48	140 / 145	Drum & Disk	Shimano	481 to 535	TBD
	TD - front	36/ 40/ 48	100	No	No	258	TBD
Chris King	Tandem hub -rear	36/ 40/ 48	145 / 160	No	Shimano	366	TBD
	Tandem hub -front	36/ 40/ 48	100	No	No	118	TBD

At the time of creating this page we did not have firm pricing. Suggested manufactures prices are shown.
TBD is "to be determined".
CAS will always try to provide reasonable low pricing.

RIMS							
Mfg.	Model	Drilling	Eyelets	Finish	Width /depth	Weight	CAS Price
Velocity	Deep V	40 / 48	No	PC black MSW	19 / 30	520	\$40
	Dyad	48	Yes	Silver	24 / 22	480	\$38
	Fusion	40	no	Black anodized MSW	19 / 25	475	tbd

Spokes: We recommend 14-gauge stainless steel with brass nipples.
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Wheel Sets		
Mfg.	Specifications	CAS Price
Aerospoke	Tandem wheel set / Aerospoke hub / Velocity Aerohead Rim / injection molded nylon-short fiber carbon fiber / rear spacing 145mm / disk brake optional / Shimano Cassette / front 1274 grams / rear 1440 grams	\$599 add \$85 for disc hub

Note: We have experienced quality problems with these wheels, such as delamination, caused by rim braking heat in steep descents.

Prices are valid with the purchase of a ZXT frame. Prices shown are the manufactures suggested price.
CAS will always try to provide the lowest price possible.
All price are subject to change without notification.

CAS prices July 2003
zxtwheels2003, cas-bikes.com