

2.5 Bicycle Specifications

The two most common types of bicycles that are expected to be used on the trainer are Mountain Bikes (MTBs) and road bicycles. For the design of a bike trainer, the relevant dimensions to consider are the wheelbase wheel diameter and weight as illustrated in Figure 2.5.

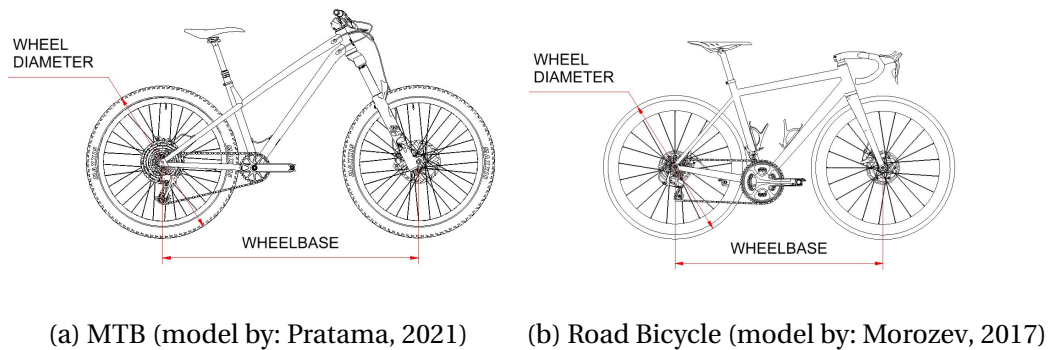


Figure 2.5: Bicycle Dimensions

Although these dimensions vary between brands, models and sizes, a general overview of common dimensions can be found by comparing the dimensions of the largest and smallest size offerings from the best selling models in each category in Table 2.5. (Lin, 2021)

Table 2.5: Best Selling Road and MTB specifications

(Geometry Geeks)

Road Bike	Wheelbase		MTB	Wheelbase	
	Smallest	Largest		Smallest	Largest
Specialized Tarmac	969 mm	1012 mm	Specialized Epic	1116 mm	1211 mm
Specialized Roubaix	981 mm	1024 mm	Trek Fuel EX	1144 mm	1323 mm
Cervelo R3	971 mm	1024 mm	Specialized Stumpjumper	1152 mm	1302 mm