

## ASPECT RATIO

The aspect ratio of a tire is the relationship of the tire cross section height to the cross-section width. In a tire with an aspect ratio of 85, for example, height is about 85% of the tire width. "Low profile" tires have an aspect ratio of less than 80. The aspect ratio of a tire is often contained in the size marking, e.g., 130/90 x 16, etc.

## TIRE SIZE MARKINGS

Motorcycle tires are manufactured in a number of different countries with differing requirements in terms of load, dimensions and speed ratings. This has resulted in various size markings. The

## STREET MOTORCYCLE TIRE SIZE CONVERSION CHART

Front Tires			Rear Tires		
Metric	Alpha	Inch	Metric	Alpha	Inch
80/90	MH	2.50/2.75	110/90	MP85	4.00/4.25
90/90	MJ90	2.75/3.00	120/90	MR90	4.50/4.75
100/90	MM90	3.25/3.50	130/80		5.00/5.10
110/90	MN90	3.75/4.00	130/90	MT90	5.00/5.10
120/80		4.25/4.50	140/80		5.50/6.00
120/90	MR90	4.25/4.50	140/90	MU90	5.50/6.00
130/90	MT90	5.00/5.10	150/80	MV85	6.00/6.25
			150/90	MV85	6.00/6.25

**WARNING:** Dealers: Convey this important information to customers and tire fitters: The above are size marking conversion charts only and do not imply the ability to interchange sizes. Consult motorcycle manufacturer for correct replacements for original equipment tires. Critical clearances, motorcycle

## Abbreviations used in this section:

**B** - Belted  
**Blk** - Black  
**BW** - Blackwall  
**NWW** - Narrow White Wall  
**OWL** - Outlined White Letters

**Pr** - Ply rating  
**RBL** - Raised Black Letters  
**RWL** - Raised White Letters  
**SW** - Slim Whitewall  
**TL** - Tubeless

**TT** - Tube Type  
**WW** - White Wall  
**WWW** - Wide White Wall

## IMPORTANT SAFETY INFORMATION:

### DEALERS CONVEY THE FOLLOWING TO CUSTOMERS AND TIRE FITTERS:

1. Follow Tire Mounting Safety Precautions as specified by the tire manufacturer.
2. Checking of tire pressures is the most important tire-maintenance function you and your customer may perform. NOTE: For high-speed, fully loaded or dual-riding touring motorcycle applications, inflate front tires to maximum recommended by vehicle manufacturer for Dunlop fitment and rear tires to maximum load inflation pressure on sidewall. Rear touring tires must be inflated to a minimum of 36 psi for light to medium loads and 40 psi for dual riding and other loads. Never exceed maximum load indicated on tire sidewall, or vehicle capacity load found in owner's manual.
3. Replacements for worn, differently patterned or constructed tires will not react the same. When new tires are fitted, they should not be subjected to maximum power, abrupt lean-over or hard cornering until a reasonable run-in distance of approximately 100 miles has been covered. This will permit the rider to become accustomed to the feel of the new tires or tire combination, find the edge, and achieve optimum road grip for a range of speed, acceleration and handling use. Advise your customer to check

## SPEED RATINGS (SUSTAINED SPEED)

Tire manufacturers do not recommend the use of their products in excess of legal speed limits.

R = 106 mph  
 S = 112 mph  
 T = 118 mph  
 H = 130 mph  
 V = 150 mph  
 W = 168 mph  
 Z = 150 + (Contact Manufacturer)

following charts give a guide to the relationship between various size markings.

**THESE CHARTS DO NOT IMPLY EXACT COMPARISONS.**

## KNOBBY MOTORCYCLE TIRE SIZE CONVERSION CHART

Front Tires			Rear Tires		
Metric	Alpha	Inch	Metric	Alpha	Inch
60/100	90/80	2.50/2.75	80/100	80/90	2.50/3.60
70/100	90/90	2.75/3.00	90/100	110/90	3.60/4.10
80/100	100/80	3.00/3.25	100/100	120/80	4.00/4.10
			110/100	130/80	4.00/4.50
			120/100	140/80	5.00/5.10

compatibility and stability, load bearing capacity, speed rating, radial versus non-radial, pattern and tread compound requirements, inflation recommendations, and front to rear matching will all vary with tire selection. Wrong selection can result in tire failure, loss of control with serious injury or death.

4. The letters S, H, V, and Z included in the size markings of some of our street tires are speed ratings recognized by the European Tire and Rim Organization and Japanese Industry Standards. The ratings are assigned based upon controlled indoor wheel testing. Dunlop does not recommend the use of any of its products in excess of legal speed limits.
5. For purposes of assessing clearance, inflated section width is not the tread width. Section width is the width of the tire measured from sidewall to sidewall at the widest point in the case of most tires. The exceptions are in some of the knobby tires where the knobs on the sidewall protrude farther than the section width.
6. Metric-sized sport tires do not have the same load capacity as alpha-numeric (i.e., MT90H16) touring tires and should not be used for the same service.