

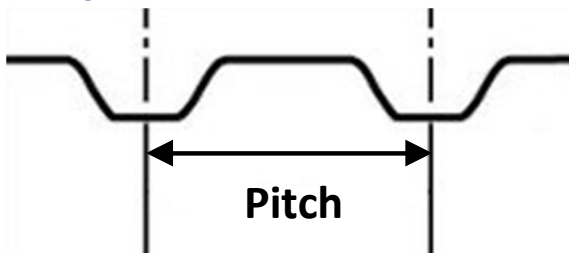


Doppler Gear TechBit: Timing Pulleys

Pulleys for use with toothed synchronous belts

Development of the synchronous belt began around 1940 at the L. H. Gilmer Company and has since evolved into a line of various pitches, profiles, and constructions. Below are three of the most common.

Trapezoidal Tooth Profiles



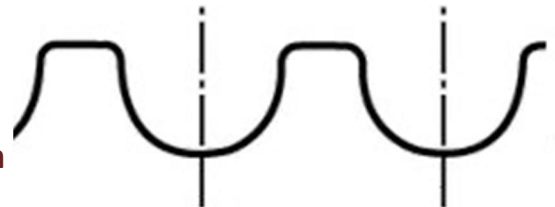
| Belt | Pitch |
|-------|--------|
| MXL | .080" |
| 40 DP | .0816" |
| XL | .200" |
| L | .375" |
| H | .500" |
| XH | .875" |
| XXH | 1.250" |

| Metric Belt | Pitch |
|---------------|--------|
| T2 or AT2 | .0787" |
| T2.5 or AT2.5 | .0984" |
| T5 or AT5 | .1968" |
| T10 or AT10 | .3937" |
| T20 or AT20 | .7874" |

Curvilinear (round) Tooth Profiles

HTD Uniroyal [now Gates Rubber]

Pitches: 3mm, 5mm, 8mm, 14mm, 20mm



STD Goodyear Super Torque

Pitches: 2.5mm, 3mm, 4.5mm, 5mm, 8mm, 14mm



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HTD and STD belts and pulleys are not interchangeable or compatible.

Gates also offers newer designs such as **PowerGrip GT, GT2, GT3**, and other belt profiles.

Check the belt type carefully before designing or ordering custom pulleys.