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Timing Belt Tooth Profile (Comparison)

Timing Belt Tooth Profile		High Torque	High Speed	Anti-Ratcheting	Tracking	Vibration	Noise	Registration (Positioning Accuracy)
Trapezoidal Timing Belt Tooth Profile	MXL, XL, L, H, XH, XXH, T, AT	N/A	N/A	Good	Good	Good	Good	Best
Curvilinear Timing Belt Tooth Profile	HTD	Good	Better	Better	Better	Good	Good	Good
Modified Curvilinear Timing Belt Tooth Profile	PowerGrip GT2	Good	Best	Good	Best	Good	Better	Good
	PolyChain GT	Best	Better	Better	Best	Better	Good	Better
	STD	Good	Best	Good	Best	Best	Best	Good
	CTD	Best	Better	Better	Best	Better	Good	Better

Chart Key:

N/A
Good
Better
Best

Notes:

Ratcheting

As might be expected, the deeper the tooth and steeper the side of the tooth, the less tendency there is for belt teeth to jump out of sprocket grooves (ratcheting). Constructing a belt out of polyurethane (plastic) adds resistance to tooth deflection, thus providing a greater anti-ratcheting characteristic over neoprene (rubber) belts.

Noise

Rubber timing belts are noticeably quieter than polyurethane timing belts.