

MPTA-B4c-2008

Standard Surface Finish For Transmission Pulleys



MPTA Standard

New Address Effective October 2011 – 5672 Strand Ct., Suite 2, Naples, FL 34110

Mechanical Power Transmission Association
6724 Lone Oak Blvd., Naples, FL 34109

www.mpta.org

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Custom Machine & Tool Co., Inc.	East Weymouth, MA	www.cmtco.com
Diamond Precision Products	Johnson Creek, WI	www.diamondprecision.com
Emerson Power Transmission	Maysville, KY	www.emerson-ept.com
Gates Corporation	Denver, CO	www.gates.com
Goldens' Foundry & Machine Co.	Columbus, GA	www.gfmco.com
Lovejoy, Inc.	Downers Grove, IL	www.lovejoy-inc.com
Martin Sprocket & Gear, Inc.	Arlington, TX	www.martinsprocket.com
Maurey Manufacturing Corp.	Holly Springs, MS	www.maurey.com
New Hampshire Industries, Inc.	Lebanon, NH	www.nhipulleys.com
TB Wood's Incorporated	Chambersburg, PA	www.tbwoods.com
Torque Transmission	Fairport Harbor, OH	www.torquetrans.com
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Abstract

This standard defines the maximum surface finish for transmission pulleys.

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Foreword

This Foreword is provided for informational purposes only and is not to be construed to be part of any technical specification.

This standard was revised to format defined by MPTA-A1.

Suggestions for the improvement of, or comments on this publication are welcome. They should be mailed to Mechanical Power Transmission Association, 6724 Lone Oak Blvd., Naples, FL 34109 on your company letterhead.

Scope

This informational bulletin applies to v-groove sheaves, cylindrical (flat) pulleys and synchronous sprockets.

The machined surface finish of various areas of transmission pulleys shall not be coarser than the values in the table below:

<u>Machined Surface Area</u>	<u>Maximum Surface Roughness Height Ra (Arithmetic Average)</u>
V-Pulley Groove Sidewalls	3.2 Micrometer (125 Microinch)
V-Pulley OD and Rim Edges	6.3 Micrometer (250 Microinch)
Flat Pulley Rim ODs	6.3 Micrometer (250 Microinch)
Trapezoidal Synchronous Pulley Tooth Flanks and Tips	3.2 Micrometer (125 Microinch)
Curvilinear Synchronous Pulley Tooth Flanks and Tips	1.6 Micrometer (63 Microinch)
Rim IDs, Hub Ends, Hub ODs	As Cast Surface
Bores – Straight and Tapered	3.2 Micrometer (125 Microinch)
* Note: The measuring methods defined in ASME-B46.1 shall be used to determine these values.	