(Revision of ASME B29.100-2002)

Double-Pitch Roller Chains, Attachments, and Sprockets

AN AMERICAN NATIONAL STANDARD



ASME B29.100-2011

(Revision of ASME B29.100-2002)

Double-Pitch Roller Chains, Attachments, and Sprockets

AN AMERICAN NATIONAL STANDARD



Date of Issuance: March 19, 2012

The next edition of this Standard is scheduled for publication in 2016.

ASME issues written replies to inquiries concerning interpretations of technical aspects of this Standard. Interpretations are published on the ASME Web site under the Committee Pages at http://cstools.asme.org/ as they are issued.

Errata to codes and standards may be posted on the ASME Web site under the Committee Pages to provide corrections to incorrectly published items, or to correct typographical or grammatical errors in codes and standards. Such errata shall be used on the date posted.

The Committee Pages can be found at http://cstools.asme.org/. There is an option available to automatically receive an e-mail notification when errata are posted to a particular code or standard. This option can be found on the appropriate Committee Page after selecting "Errata" in the "Publication Information" section.

ASME is the registered trademark of The American Society of Mechanical Engineers.

This code or standard was developed under procedures accredited as meeting the criteria for American National Standards. The Standards Committee that approved the code or standard was balanced to assure that individuals from competent and concerned interests have had an opportunity to participate. The proposed code or standard was made available for public review and comment that provides an opportunity for additional public input from industry, academia, regulatory agencies, and the public-at-large.

ASME does not "approve," "rate," or "endorse" any item, construction, proprietary device, or activity.

ASME does not take any position with respect to the validity of any patent rights asserted in connection with any items mentioned in this document, and does not undertake to insure anyone utilizing a standard against liability for infringement of any applicable letters patent, nor assumes any such liability. Users of a code or standard are expressly advised that determination of the validity of any such patent rights, and the risk of infringement of such rights, is entirely their own responsibility.

Participation by federal agency representative(s) or person(s) affiliated with industry is not to be interpreted as government or industry endorsement of this code or standard.

ASME accepts responsibility for only those interpretations of this document issued in accordance with the established ASME procedures and policies, which precludes the issuance of interpretations by individuals.

No part of this document may be reproduced in any form, in an electronic retrieval system or otherwise, without the prior written permission of the publisher.

The American Society of Mechanical Engineers Three Park Avenue, New York, NY 10016-5990

Copyright © 2012 by
THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS
All rights reserved
Printed in U.S.A.

CONTENTS

	word	iv
	nmittee Roster	vi
Corr	respondence With the B29 Committee	vii
1	Double-Pitch Roller Chains	1
2	Attachments for Double-Pitch Conveyor Chains	2
3	Sprockets for Double-Pitch Roller Chains	3
Figu		
1	Double-Pitch Roller Chains	5
2	Double-Pitch Roller Chain Components and Connecting Links	6
3	General Chain Dimensions	7
4	Double-Pitch Offset Plates	7
5	Attachment Link Plates for Double-Pitch Conveyor Chains	8
6	Sprocket Tooth Section Profile	8
7	Sprocket Diameters, Small Roller and Power Transmission Series	9
8	Sprocket Diameters, Large Roller Series	11
Table	es	
1	General Chain Dimensions, Measuring Loads, and Minimum Ultimate Tensile Strengths, in. and lb	12
1M	General Chain Dimensions, Measuring Loads, and Minimum Ultimate Tensile Strengths, mm and N	13
2	Ultimate Dimensional Limits for Interchangeability, in.	14
2M	Ultimate Dimensional Limits for Interchangeability, mm	15
3	Dimensional Limits for Straight Link Plate Extension With One Attachment Hole	16
4	Dimensional Limits for Straight Link Plate Extension With Two Attachment	
=	Holes	17 18
5 6	Dimensional Limits for Bent Link Plate Extension With Two Attachment Holes	19
7	Dimensional Limits for Conveyor Chain With Extended Pins	20
8	Sprocket Tooth Section Profile Dimensions, in.	21
8M	Sprocket Tooth Section Profile Dimensions, mm	21
9	Minus Tolerances on the Bottom or Caliper Diameters of Sprockets for Various Numbers of Effective Teeth, in.	22
9M	Minus Tolerances on the Bottom or Caliper Diameters of Sprockets for Various Numbers of Effective Teeth, mm	22
10	Sprocket Factors, Small Roller and Power Transmission Series	23
11	Sprocket Factors, Shah Roher and Tower Hanshinsson Series	26
Nonr	mandatory Appendices	
A	Conveyor Chain Selection	27
В	Transmission Chain Selection	30
C	Spracket Cutter Selection	20