

(R) Lifting Crane Sheave and Drum Sizes

RATIONALE

Adding figures to this document illustrates the relationship of the sheave and drum pitch diameters (PD) to the wire rope (RD) values for determining the ratios, and provides guidance in determining contact angle for idler sheaves.

1. SCOPE

This SAE Standard covers minimum dimensional relationship for sheaves, drums, and wire rope for mobile, construction type lift cranes.

2. REFERENCES

There are no referenced publications specified herein.

3. REQUIREMENTS

TABLE 1

Use	Minimum Ratio, PD/RD
Load hoisting sheaves, on boom	18.0:1
Load hoisting sheaves, in traveling blocks	16.0:1
Load hoisting drum	18.0:1
Boom hoisting sheaves	15.0:1
Boom hoisting drum	15.0:1

SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user."

SAE reviews each technical report at least every five years at which time it may be revised, reaffirmed, stabilized, or cancelled. SAE invites your written comments and suggestions.

Copyright © 2013 SAE International

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of SAE.

TO PLACE A DOCUMENT ORDER: Tel: 877-606-7323 (inside USA and Canada)
Tel: +1 724-776-4970 (outside USA)
Fax: 724-776-0790
Email: CustomerService@sae.org
http://www.sae.org

SAE WEB ADDRESS:

SAE values your input. To provide feedback on this Technical Report, please visit http://www.sae.org/technical/standards/J881_201304