

# TECHNICAL SPECIFICATION

ISO/TS  
17863

First edition  
2013-05-01

---

---

## Geometrical product specification (GPS) — Geometrical tolerancing of moveable assemblies

*Spécification géométrique des produits (GPS) — Tolérancement  
géométrique des assemblages mobiles*



---

---

Reference number  
ISO/TS 17863:2013(E)



Licensee=University of Alberta/5966844001, User=sharabiani, shahramfs  
Not for Resale, 11/30/2013 21:58:54 MST

© ISO 2013



## **COPYRIGHT PROTECTED DOCUMENT**

© ISO 2013

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
Case postale 56 • CH-1211 Geneva 20  
Tel. + 41 22 749 01 11  
Fax + 41 22 749 09 47  
E-mail [copyright@iso.org](mailto:copyright@iso.org)  
Web [www.iso.org](http://www.iso.org)

Published in Switzerland

# Contents

	Page
<b>Foreword</b>	<b>iv</b>
<b>Introduction</b>	<b>v</b>
<b>1 Scope</b>	<b>1</b>
<b>2 Normative references</b>	<b>1</b>
<b>3 Terms and definitions</b>	<b>1</b>
<b>4 Symbols</b>	<b>1</b>
<b>5 General concept</b>	<b>2</b>
<b>6 Graphical language</b>	<b>3</b>
6.1 Indication of item references	3
6.2 Force indicator	3
6.3 Indication of direction of gravity	4
6.4 Connection of force indicator with concerned feature	5
6.5 Application of force on portions of a feature	6
6.6 Direction of force	7
6.7 Indication of direction of mobility	8
6.8 Indication of interrelation of tolerance indication and conditions	9
6.9 Description of conditions	10
6.10 List and sequence of conditions	10
<b>Annex A (normative) Relations and dimensions of graphical symbols</b>	<b>12</b>
<b>Annex B (informative) Example of run-out and size tolerances on a tapered roller bearing</b>	<b>14</b>
<b>Annex C (informative) Relation to the GPS matrix model</b>	<b>15</b>
<b>Bibliography</b>	<b>17</b>