

10th INTERNATIONAL CONGRESS of Spring Industry

Report of ISO/TC 227

April 18th, 2018

Düsseldorf / Germany

Shigeo AIBA



President of Togo Seisakusyo Corporation
Secretary of ISO/TC 227 Springs
Japan Spring Manufacturers Association (JSMA)

Contents

1. ISO/TC 227: The current organization
2. ISO/TC 227: Meetings
3. ISO/TC 227: Scope and Business Plan
4. International Standards for springs
 - Publication status —
 - Developmental status —
5. The next ISO/TC 227 Meeting

1. ISO/TC 227: The current organization

- Establishment : November 2004
- Chairman: Mr. Wolfgang Hermann (Germany) (2014-2019)
- Secretary: Mr. Shigeo Aiba (Japan)
- P-members: start with 7 nations → **11 nations**
China, France, Germany, Italy, Japan, United Kingdom,
Malaysia('06/11~), Thailand(O→P '07/2~), India('07/3~),
Austria('07/10~), United States('09/11~)
- O-members: start with 7 nations → **12 nations**
Bulgaria, Finland, Hong Kong, Indonesia,
Korea Republic of, Philippines, Poland, Serbia, Slovakia,
Viet Nam, Iran Islamic Republic of, Czech Republic
(Withdrawn O-members: Brazil, Canada, Spain, Sri Lanka, Switzerland)

2. ISO/TC 227: Meetings

Participants (P-members)

- 1st: Tokyo, Japan; Aug.2005 5 nations: CN, DE, FR, JP, KR
- 2nd: Achern, Germany; Oct.2006 5 nations : DE, FR, GB, JP, KR
- 3rd: Beijing, China; Oct.2007 9 nations: CN, DE, FR, GB, JP, MY, PH, KR, TH
- 4th: Bangkok, Thailand; Nov.2008 11 nations: AT, CN, DE, FR, GB, IT, JP, MY, PH, KR, TH
- 5th: Manchester, UK; Nov.2009 9 nations: AT, CN, DE, FR, GB, IT, JP, TH, US
- 6th: Osaka, Japan; Nov.2010 12 nations: AT, CN, DE, FR, GB, IT, JP, MY, PH, KR, TH, US.
- 7th: Venice, Italy; Nov.2011 9 nations: AT, CN, DE, FR, GB, IT, JP, KR, US
- 8th: Xian, China ; Nov.2012 9 nations: CN, DE, FR, IN, IT, JP, PH, TH, US
- 9th: Washington DC, USA ; Nov.2013 9 nations: CN, DE, FR, IT, JP, MY, PH, TH, US
- 10th: Paris, France ; Oct.2014 9 nations: CN, DE, FR, IT, JP, PH, TH, US, KR
- 11th: Kuala Lumpur, Malaysia ; Nov.2015 8 nations: CN, DE, FR, IT, JP, MY, TH, US
- 12th: Vienna, Austria ; Oct..2016 8 nations: AT, CN, DE, FR, IT, JP, TH, US
- 13th: Bangkok, Thailand ; Nov..2017 7 nations: CN, DE, IT, JP, MY, PH, TH

AT: Austria, CN: China, FR: France, DE: Germany, IN: India, IT: Italy,
JP: Japan, MY: Malaysia, PH: Philippines, KR: South Korea,
TH: Thailand, GB: United Kingdom, US: United States of America

3. ISO/TC 227: Scope & Business Plan

Scope

Standardization in the field of metal springs covering exclusively product tolerances, terms and test methods and process technology for springs. (heat treatments, surface treatment, shot peening, etc.)

Excluded: Product specifications solely intended to cover each application, since some of them are currently in the scope of existing TC.

3. ISO/TC 227: Scope & Business Plan

Business Plan

Domain		Titles of ISO standards
I	Terminology/ Classification	<ul style="list-style-type: none"> • Vocabulary: ISO 26909 : 2009 • Symbols: ISO 16249 : 2013
II	Tolerance	<ul style="list-style-type: none"> • Hot formed helical compression springs: ISO 11891: 2012 • Leaf springs: ISO 18137: 2015 • Disc springs Part 1: Calculation: ISO 19690-1:2017 • Disc springs Part 2: Technical specifications ISO/FDIS 19690-2 (to be published in 2018)
III	Inspection/ Test method	<ul style="list-style-type: none"> • Springs– Measurement and test parameters – Part 1: Cold formed cylindrical helical compression springs: ISO/WD22705-1 (to be published in 2020)
IV	Processing	<ul style="list-style-type: none"> • Shot peening Part 1: General procedures ISO 26910-1 : 2009

4. International Standards for springs

— Publication status —

Other IS standards relating to springs

- ISO 2162-1:1993 Technical product documentation—Springs—
Part 1: Simplified representation (TC 10/SC 6)
- ISO 2162-2:1993 Technical product documentation—Springs—
Part 2: Presentation of data for cylindrical helical compression springs
(TC 227 transferred from TC 10/SC 6)
- ISO 8748:2007 Straight-type spring pins—Coiled, heavy duty
(TC 2/SC 10 same as below)
- ISO 8749:1986 Pins and grooved pins—Shear test
- ISO 8750:2007 Straight-type spring pins—Coiled, standard duty
- ISO 8751:2007 Straight-type spring pins—Coiled, light duty
- ISO 8752:2009 Straight-type spring pins—Slotted, heavy duty
- ISO 13337:2009 Straight-type spring pins—Slotted, light duty

4. International Standards for springs

— Developmental status —

IS No.	Project team	2013	2014	2015	2016	2017	2018	2019	2020
ISO/DIS 19690-2 Disc Springs Technical specifications.	<u>Japan (leader)</u> , Austria, China, France, Germany, Italy, Philippines, Thailand, U.S.A.		 Registration				 NP, WD, CD, DIS → → FDIS 1st 2nd  publication		
ISO/NP 22705-1 Springs- Measurement & Test/ Cold formed cylind. helical comp.springs	<u>Germany(leader)</u> , China, France, Italy, Japan, Malaysia, Thailand, U.S.A.					 Registration	 WD, CD, DIS publication 		

NP: New Work Item Proposal, WD: Working Draft, CD: Committee Draft,
 DIS: Draft International Standard, FDIS: Final Draft International Standard

5. The next ISO/TC 227 Meeting

- The 14th meeting in Berlin, Germany
- Date: September 27th to 28th, 2018
- Host: DIN (Deutsche Industrie Normen)
- Participants expected: 11 P-members
Austria, China, France, Germany, India, Italy,
Japan, Malaysia, Thailand, U.K., U.S.A.
- Discussion items:
 1. ISO/WD 22705-1, Springs – Measurement and test parameters –
Part 1: Cold formed cylindrical helical compression springs

Thank you for your attention

JSMA (Japan Springs Manufacturers Association)

<http://www.spring.or.jp/english/english.html>