International Organization for Standardization
Organisation internationale de normalisation
Международная организация по стандартизации
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Form 4: New Work Item Proposal

Circulation date: Click here to enter text. Closing date for voting: Click here to enter text.	Reference number: Click here to enter text. (to be given by Central Secretariat)
Proposer (e.g. ISO member body or A liaison organization) ANSI	**ISO/TC** Click here to enter text.**/SC** Click here to enter text. ☒ Proposal for a new PC
Secretariat ANSI	**N** Click here to enter text.

A proposal for a new work item within the scope of an existing committee shall be submitted to the secretariat of that committee with a copy to the Central Secretariat and, in the case of a subcommittee, a copy to the secretariat of the parent technical committee. Proposals not within the scope of an existing committee shall be submitted to the secretariat of the ISO Technical Management Board.

The proposer of a new work item may be a member body of ISO, the secretariat itself, another technical committee or subcommittee, an organization in liaison, the Technical Management Board or one of the advisory groups, or the Secretary-General.

The proposal will be circulated to the P-members of the technical committee or subcommittee for voting, and to the O-members for information.

IMPORTANT NOTE: Proposals without adequate justification risk rejection or referral to originator.
Guidelines for proposing and justifying a new work item are contained **in Annex C of the ISO/IEC Directives, Part 1.**

☒ The proposer has considered the guidance given in the Annex C during the preparation of the NWIP.

Proposal (to be completed by the proposer)

Title of the proposed deliverable.

English title:

Specifications for the Process of Remanufacturing

French title (if available):

Click here to enter text.

(In the case of an amendment, revision or a new part of an existing document, show the reference number and current title)

Scope of the proposed deliverable.

This standard defines and provides a benchmark for the process of global remanufacturing, and establishes specifications that characterize the remanufacturing process and differentiate remanufacturing from other practices.

Purpose and justification of the proposal*

The remanufacturing industry is expanding on a global scale with a estimated revenue of $150B with more than 2 million employees (Liu et al., 2017). According to APRA, the US contribution from auto parts alone was $40B. As the matured economies look for continued reman growth and the emerging economies such as China and India look for rapid increases ($24.1B by 2025 as per China's state news agency), a global standard is critical for continued growth of the industry and best practices.

A global standard for the process of remanufacturing means that consumers can have confidence that their remanufactured products are safe, reliable and of good quality because of a standardized process. A global standard for remanufacturing would also help to reduce trade barriers as all countries recognize a standard definition for remanufactured products.

Consider the following: Is there a verified market need for the proposal? What problem does this standard solve? What value will the document bring to end-users? See Annex C of the ISO/IEC Directives part 1 for more information.

See the following guidance on justification statements on ISO Connect: https://connect.iso.org/pages/viewpage.action?pageId=27590861

Preparatory work (at a minimum an outline should be included with the proposal)

☐ A draft is attached ☐ An outline is attached ☒ An existing document to serve as initial basis

The proposer or the proposer's organization is prepared to undertake the preparatory work required:

☒ Yes ☐ No

If a draft is attached to this proposal,:

Please select from one of the following options (note that if no option is selected, the default will be the first option):

☐ Draft document will be registered as new project in the committee's work programme (stage 20.00)

☐ Draft document can be registered as a Working Draft (WD – stage 20.20)

☐ Draft document can be registered as a Committee Draft (CD – stage 30.00)

☒ Draft document can be registered as a Draft International Standard (DIS – stage 40.00)

Is this a Management Systems Standard (MSS)?

☐ Yes ☒ No

NOTE: if Yes, the NWIP along with the Justification study (see Annex SL of the Consolidated ISO Supplement) must be sent to the MSS Task Force secretariat (tmb@iso.org) for approval before the NWIP ballot can be launched.

Indication(s) of the preferred type or types of deliverable(s) to be produced under the proposal.

☒ International Standard ☐ Technical Specification

☐ Publicly Available Specification ☐ Technical Report

Proposed development track

☐ 1 (24 months) ☒ 2 (36 months - default) ☐ 3 (48 months)

Note: Good project management is essential to meeting deadlines. A committee may be granted only one extension of up to 9 months for the total project duration (to be approved by the ISO/TMB).

Known patented items (see ISO/IEC Directives, Part 1 for important guidance)

☐ Yes ☒ No

If "Yes", provide full information as annex

Co-ordination of work: To the best of your knowledge, has this or a similar proposal been submitted to another standards development organization?

☐ Yes ☒ No

If “Yes”, please specify which one(s):

Click here to enter text.

A statement from the proposer as to how the proposed work may relate to or impact on existing work, especially existing ISO and IEC deliverables. The proposer should explain how the work differs from apparently similar work, or explain how duplication and conflict will be minimized.

The remanufacturing industry is a global industry with significant volume from the USA, Canada and Europe. RIC recently launched the ANSI standard for remanufacturing process and is currently taking the lead to develop a global standard.

At present there is no formal remanufacturing standards organization within ISO. The remanufacturing PC to be established won't conflict with other existing ISO and IEC TCs. Instead, the development of standards for remanufacturing will promote global remanufacturing, resource saving, and environment protection. The standard to be produced by this PC will address the general process for remanufacturing, but will leave the specific quality standards to be determined by the product-specific TCs.

A listing of relevant existing documents at the international, regional and national levels.

International

1. ISO 13534:2000 Petroleum and natural gas industries – Drilling and production equipment – Inspection, maintenance, repair and remanufacture of hoisting equipment
2. ISO 10423:2009 Petroleum and natural gas industries – Drilling and production equipment – Wellhead and Christmas tree equipment
3. ISO 16714:2008 Earth-moving machinery – Recyclability and recoverability – Terminology and calculation method
4. IEC 63077: Good refurbishment practices for medical imaging equipment

United States

1. RIC001.1-2016 Specifications for the Process of Remanufacturing
2. SAE J1153_201202 Hydraulic Master Cylinders for Motor Vehicle Brakes Test Procedure
3. SAE J1693-2012 Remanufactured Hydraulic Master Cylinder for Motor Vehicle Brakes – General Characteristics and Test Procedure
4. SAE J1694-2012 Remanufactured Hydraulic Master Cylinder for Motor Vehicle Brakes – Performance Requirements
5. SAE J1890-2007 Performance Assurance of Remanufactured, Hydaulically-operated Rack and Pinion Steering Gears
6. SAE J1915-2000 Recommended Remanufacturing Procedures for Manual Transmission Clutch Assemblies
7. SAE J101-2013 Hydraulic Wheel Cylinders for Automotive Drum Brakes
8. SAE J2237 Heavy Duty Starter Remanufacturing procedures
9. SAE J2240 Starter Armature Remanufacturing procedures
10. SAE J2241 Automotive Starter Drive Remanufacturing procedures
11. SAE J2242 Automotive Starter Solenoid Remanufacturing procedures
12. SAE J2073 Automotive Starter Remanufacturing procedures – light duty
13. SAE J2075 Alternator Remanufacturing/Rebuilding Procedures – Passenger Car, Heavy Duty, Agriculture, Industrial & Marine.
14. ASTM D6361/D6361M-98(2015) Standard Guide for Selecting Cleaning Agents and Processes

Canada

1. CGSB 53.148-2011 Remanufactured toner cartridges
2. CGSB 43.126-2008 (R2014) Reconditioning, Remanufacturing and Repair of Drums for the Transportation of Dangerous Goods

United Kingdom

1. PAS 3100:2014 Process control system for remanufacturing of automotive parts
2. BS 8887-220:2010 Design for manufacture, assembly, disassembly, and end-of-life processing (MADE). The process of remanufacture. Specification.
3. AU 257:1995 Code of practice of remanufacture of spark and compression ignition engines.
4. EN ISO 13534:2001 Petroleum and natural gas industries – Drilling and production equipment – Inspection, maintenance, repair and re-manufacture of hoisting equipment

China

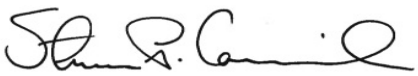
1. GB/T 28619-2012 Remanufacturing – Terminology
2. GB/T 28618-2012 Remanufacturing – General technical requirements for mechanical products
3. GB/T 28620-2012 The calculating methods of remanufacturing rate
4. GB/T 28615-2012 Green manufacturing – The technology specification for metal-cutting machine tool remanufacturing
5. GB/T 27611-2011 General requirements and labeling for recycled and remanufactured products
6. GB/T 31208-2014 The methods of quality evaluation for remanufacturing core
7. GB/T 30462-2013 Remanufactured non-road internal combustion engines – General specifications
8. GB/T 28675-2012 Remanufacturing of automotive components – Disassembly
9. GB/T 28676-2012 Remanufacturing of automotive components – Classification
10. GB/T 28678-2012 Remanufacturing of automotive components – Pre-delivery inspection
11. GB/T 28618-2012 Remanufacturing – General technical requirements for mechanical products
12. T 28677-2012 Remanufacturing of automotive components – Cleaning
13. GB/T 28679-2012 Remanufacturing of automotive components – Assembly

Japan

1. Home Appliance Recycling Law
2. Waste Electrical and Electronic Equipment Directive

Please fill out the relevant parts of the table below to identify relevant affected stakeholder categories and how they will each benefit from or be impacted by the proposed deliverable(s).

	Benefits/impacts	**Examples of organizations/companies to be contacted**
Industry and commerce – large industry	Reman industry and commerce will grow with a mutually agreed set of standards. Reman departments from well-established OEM's will see standardization across their global organization. Also work across geographic regions will be easier.	U.S. Chamber of Commerce, Eurochambres, China Ministry of Commerce, Tokyo Chamber of Commerce and Industry
Industry and commerce – SMEs	Where OEMs have a strong brand to fuel consumer confidence, SMEs will benefit from a standard definition of reman to provide confidence to their customers.	U.S. Chamber of Commerce, Eurochambres, China Ministry of Commerce, Tokyo Chamber of Commerce and Industry
Government	The government will benefit from increased trade with other countries and more domestic employment.	U.S. Chamber of Commerce, China's MIIT, CIQ, and NDRC
Consumers	Consumers will have a better chance to get affordable, good quality products with publicized expectations	U.S. Chamber of Commerce
Labour	Increased reman will provide more domestic labor opportunities even during recession times	U.S. Chamber of Commerce, U.S. Department of Labor, China Ministry of Human Resources and Social Security
Academic and research bodies	Increased research potential from an established international standard. Ability to share best practices based on an agreed standard.	RIT Golisano Institute for Sustainability, Journal of Cleaner Production, Journal of Remanufacturing
Standards application businesses	The proposed standard will supplement existing standards, which will enable Standards application businesses to offer additional services to their clients.	ISO Consultants
Non-governmental organizations	Increased clarity on the definition and process of remanufacturing will help these organizations to advance their missions, such as climate change, circular economy etc.	Remanufacturing Industries Council, Ellen MacArthur Foundation, China Association of Circular Economy
Other (please specify)	Click here to enter text.	Click here to enter text.

Liaisons: A listing of relevant external international organizations or internal parties (other ISO and/or IEC committees) to be engaged as liaisons in the development of the deliverable(s). Society of Automotive Engineers (SAE) State Key Laboratory of Chinese Remanufacturing European Remanufacturing Center Conseil Européan de Remanufacture International Federation of Engine Remanufacturers and Rebuilders United Nations Environment Programme (UNEP) ISO/TC 245 Cross-border trade of second hand goods ISO/TC 127 Earth-moving machinery ISO/TC 22 Road vehicles IEC/SC 62B Diagnostic Imaging Equipment	**Joint/parallel work:** **Possible joint/parallel work with:** ☐ IEC (please specify committee ID) Click here to enter text. ☐ CEN (please specify committee ID) Click here to enter text. ☐ Other (please specify) Click here to enter text.
A listing of relevant countries which are not already P-members of the committee. Brazil, Canada, China, Egypt, France, Germany, Ghana, India, Japan, Malaysia, Morocco, Netherlands, Republic of Korea, Russia, Senegal, Singapore, South Africa, Spain, Sweden, Thailand, Tunisia, Turkey, United Kingdom, United States. Note: The committee secretary shall distribute this NWIP to the countries listed above to see if they wish to participate in this work	
Proposed Project Leader (name and e-mail address) Project Leader: John Disharoon; Project Co-Leader: Ramesh Subramoniam	**Name of the Proposer** (include contact information)  Steven P. Cornish Senior Director – International Policy & Strategy American National Standards Institute

This proposal will be developed by:

☐ An existing Working Group (please specify which one: Click here to enter text.)

☐ A new Working Group (title: Click here to enter text.)

(Note: establishment of a new WG must be approved by committee resolution)

☐ The TC/SC directly

☒ To be determined

Supplementary information relating to the proposal

☒ This proposal relates to a new ISO document;

☐ This proposal relates to the adoption as an active project of an item currently registered as a Preliminary Work Item;

☐ This proposal relates to the re-establishment of a cancelled project as an active project.

Other:

A new global ISO standard similar to the ANSI reman standard.

☐ Annex(es) are included with this proposal (give details)

ANSI/RIC001.1-2016 Specifications for the Process of Remanufacturing, which is intended to serve as the basis for this ISO standard is available online.

Additional information/questions

Click here to enter text.