INTERNATIONAL STANDARD

ISO 14242-1

Third edition
2014-10-15

AMENDMENT 1
2018-07

Implants for surgery — Wear of total hip-joint prostheses —

Part 1: Loading and displacement parameters for wear-testing machines and corresponding environmental conditions for test

AMENDMENT 1

Implants chirurgicaux — Usure des prothèses totales de l'articulation de la hanche —

Partie 1: Paramètres de charge et de déplacement pour machines d'essai d'usure et conditions environnementales correspondantes d'essai

AMENDEMENT 1

Reference number
ISO 14242-1:2014/Amd.1:2018(E)

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Published in Switzerland

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This document was prepared by Technical Committee ISO/TC 150, *Implants for surgery*, Subcommittee SC 4, *Bone and joint replacements*.

Implants for surgery — Wear of total hip-joint prostheses —

Part 1:
Loading and displacement parameters for wear-testing machines and corresponding environmental conditions for test

AMENDMENT 1

3.1

Add “or Figure 1 e)” at the end of the definition.

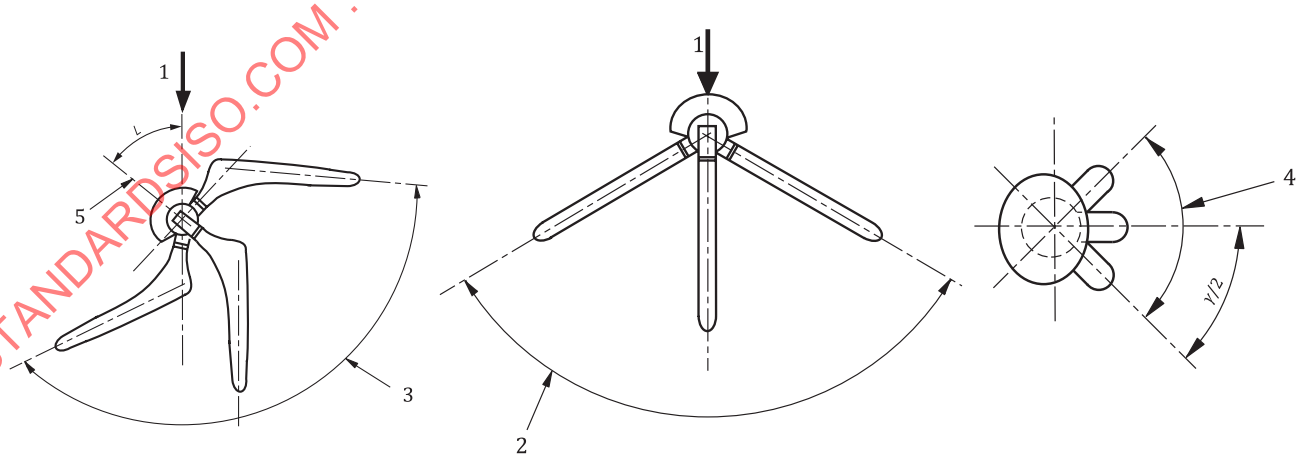
3.2

Add “or Figure 1 f)” at the end of the definition.

6.5

Add “and/or acetabular” between the words “femoral” and “component”.

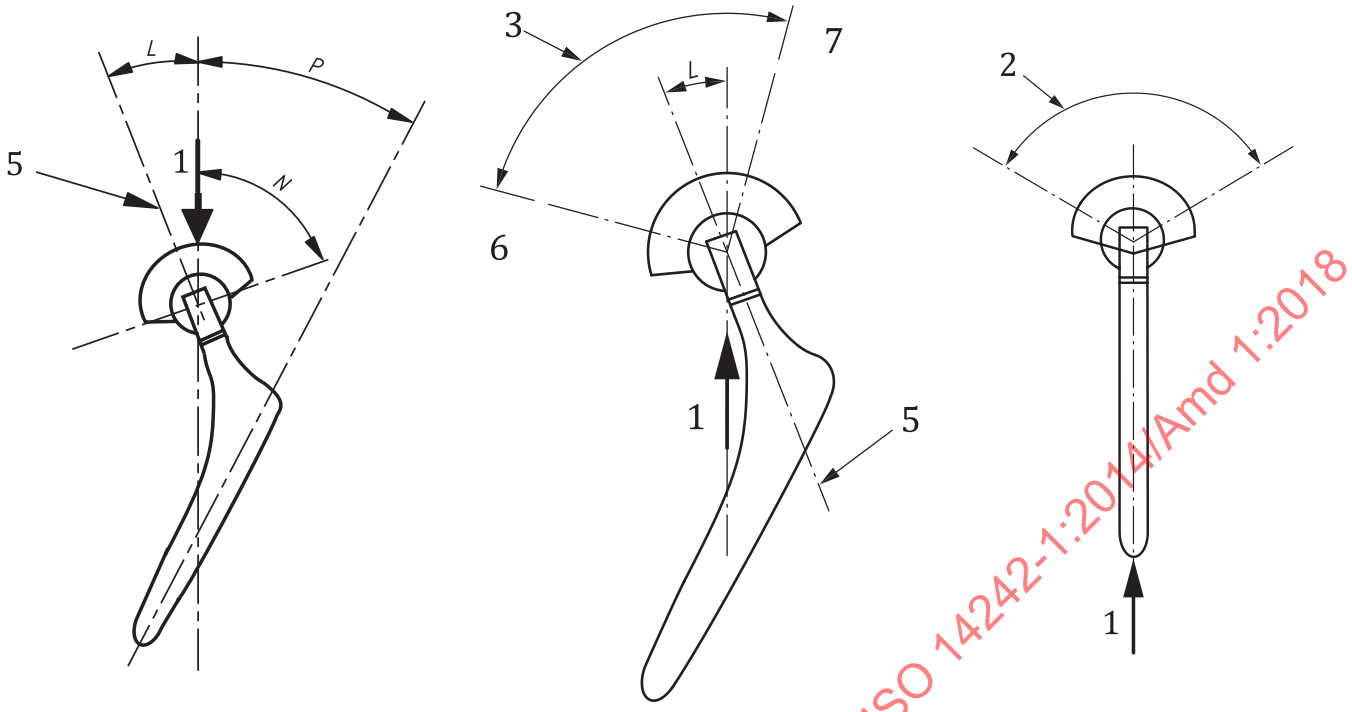
Add two subfigures to Figure 1, and add two keys, and replace the title of Figure 1 “Angular movement of femoral component and orientation of components relative to the load line” with “Angular movement of the femoral and/or acetabular component and orientation of components relative to the load line” to make the Figure as follows:



a) Abduction/adduction with femoral component moving

b) Flexion/extension with femoral component moving

c) Inward/outward rotation



d) Orientation of acetabular component and femoral component in mid-position relative to the load line

e) Abduction/adduction with the acetabular component moving

f) Flexion/extension with the acetabular component moving (right hip depicted)

Key

1	load axis	6	adduction (through motion of the cup/liner)
2	flexion/extension angle	7	abduction (through motion of the cup/liner)
3	abduction/adduction angle	*L*	inclination of the polar axis of the acetabular component to the load line
4	inward/outward rotation angle	*N*	inclination of the face of the acetabular component equal to 60° ± 3° or as specified by the manufacturer
5	polar axis of acetabular component		
		P	inclination of stem axis to load line in mid-position of abduction/adduction range

NOTE 1 Angles N, L, and P are specified in 7.3 and 7.4.

NOTE 2 A full configuration can either be [a) b) c) and d)] or [a) b) e) and f)] as the other configuration.

Figure 1 — Angular movement of the femoral and/or acetabular component and orientation of components relative to the load line

7.4

Add references to Figures 1 f) and 1e to make it read as follows:

7.4 Mount the acetabular component of the testing specimen in the test machine with the polar axis vertical, as illustrated in Figure 1 b) or in the alternative configuration of Figure 1 f), and inclined at an angle *L*, as shown in Figure 1 a) or in the alternative configuration of Figure 1 e), where *L* equals 30° ± 3°. These two configurations are separate and cannot be mixed, so if the configuration of Figure 1 a) is used, that of Figure 1 b) shall be used with it also. Similarly, if Figure 1 e) is used, then Figure 1 f) shall be used with it. Alternatively, if the manufacturer specifies an angle of inclination of the component on surgical implantation to be *N*, as shown in Figure 1 d), then $L = (75 - N)° \pm 3°$.

Add the following NOTE at the end of 7.4 as follows:

