

INFORMATION SHEET TORQUE SPECIFICATIONS

This document provides various information on the tightening torque values to be applied to Motion Composites wheelchairs.

It is **important** to **observe the** recommended tightening **torque values to** ensure the **proper functioning of the chair** and the **safety of the user**.

Wheelchair model(s):	Tool(s) and materials required:
All models	Torque wrench

GENERAL INFORMATION

TOOLS TO USE AND NOT TO USE:

 Always use a torque wrench calibrated according to the manufacturer's recommendations and use it according to the instructions



• DO NOT USE a screwdriver or drill to apply torque

TOLERANCES:

- The tolerance of a tightening torque for Motions Composites products is **± 7%.**
 - Do not apply excessive torque beyond the recommended values. This could damage or weaken components and present a safety hazard to the user.

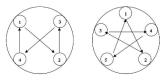
DEFAULT TIGHTENING TORQUES:

- The default torque values, unless otherwise specified, for screws with hexagon socket heads are as follows:
 - 3 mm: 4 Nm
 - 4 mm: 7 Nm
 - 5 mm: 12 Nm



MULTIPLE TORQUES:

• When **several screws** are tightened to a given torque on the same element, **tighten them in a cross or star** pattern, i.e., alternate sides at each tightening



DRY TIGHTENING:

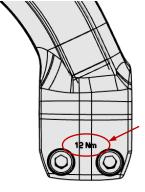
 The values given in the table below are for dry tightening torque. Dry tightening should always be carried out unless otherwise indicated.

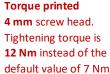
THREAD-LOCKING ADHESIVE:

 Unless otherwise specified, always apply medium strength thread-locking adhesive (blue Loctite) to the threads

PRINTED TORQUE VALUE:

• When a torque value is printed, engraved or stamped on a part, this value supersedes any other value.



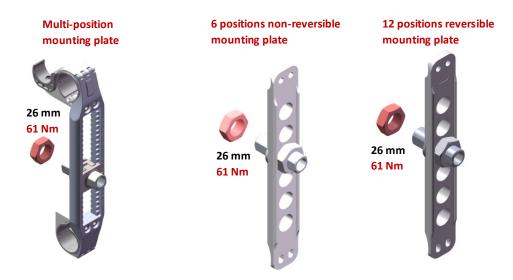




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TIGHTENING TORQUES FOR AXLE NUTS (FOLDING WHEELCHAIRS)

• Tightening torque for axle nuts for all types of folding chair mounting plates: 61 Nm



FRONT WHEEL FORK NUT TIGHTENING TORQUES (FOLDING CHAIRS ONLY)

• Tightening torques for the fork nuts for all types of folding chair front frames: 29.3 Nm



• Note that for the APEX range of <u>rigid</u> wheelchairs, the fork nut is used to adjust the wheel flutter. There is no particular tightening torque.