

NEURO MATIC into NEURO TRONIC

This online tutorial describes the conversion of a NEURO MATIC into a NEURO TRONIC system knee joint.

In the course of a treatment with an orthosis, patient-specific requirements regarding the orthosis, and thus the system joint, may change. Through a conversion from a NEURO MATIC into a NEURO TRONIC system knee joint, you can react to these changed requirements in a timely manner.

You will find further information about the system knee joints in the instructions for use of the [NEURO MATIC](#) and of the [NEURO TRONIC](#).

In addition, you can find information concerning the placement of lamination dummies and the specifics of reinforcement in the online tutorial [Special Work Steps when Producing a KAFO with a NEURO MATIC](#).

The NEURO MATIC system knee joint is an automatic, mechanical system knee joint for the production of an orthosis with stance phase control. In order to convert it into the automatic, electromechanical system knee joint NEURO TRONIC, for the production of an orthosis with microprocessor-controlled stance phase control, take the following into account:

1. For a conversion into a NEURO TRONIC system knee joint being possible, you already need to use the respective lamination dummies when producing the orthosis. Regard the online tutorial [Special Work Steps when Producing a KAFO with a NEURO TRONIC](#). This enables a successful treatment and a visually appealing orthosis.
2. You need:
 - a. the NEURO TRONIC functional unit in the corresponding system width,
 - b. a connection cable for solenoid,
 - c. one controller,
 - d. one remote control for the patient,
 - e. one charging cable and maybe adapter,
 - f. the instructions for use for the NEURO TRONIC system knee joint,
 - g. the instructions for use NEURO TRONIC for patients.

For exchanging the adaptor screw of the system ankle joint, you may need some screws.

If you cannot loosen the connecting wire to the system ankle joint, you need a new pin as well.

3. Demount the NEURO MATIC system knee joint including the cable cover and the cable cover conduit.
4. While converting, please note the steps of the [assembly](#) for the NEURO TRONIC system knee joint. Follow the directions on the adjustment options of the controller.

5. Make sure that the patient can use the orthosis and explain the particularities of the system joint.
The locking/unlocking mechanism in Auto Mode must be clear to the patient.