

Alignment Recommendations for TF Modular Lower Limb Prostheses according to MOBIS

Bench alignment in the PROS.A. Assembly	Polycentric Knee Joints			Monocentric Knee Joints			To make use of the functional benefits of the Ottobock knee joints, correct bench alignment , e.g. in the PROS.A. Assembly or in the L.A.S.A.R. Assembly is required as follows: 1 Position the middle of the foot 30 mm anterior to the alignment reference line (observe the alignment recommendation contained in the instructions for use of the knee joint and foot). 2 Add 5 mm to the required heel height (observe the alignment recommendation contained in the instructions for use of the foot) and set correct outward rotation of the foot. 3 Position the alignment reference point (for monocentric knee joints = rotation axis; for polycentric knee joints = anterior upper axis) in relation to the alignment reference line in accordance with the alignment recommendation of the knee joint. Pay attention to the knee ground distance and outward rotation of the knee (adapter inserts provide for a rotation of approx. 5°). Recommended sagittal position of the alignment reference point: 20 mm above the medial tibial plateau. 4 Connect the foot to the knee joint by means of a tube adapter. 5 Mark the centre of the socket proximal and distal on the lateral side. Draw a line through both marks from socket brim to the distal end of the socket. 6 Now position the socket such that the alignment reference line passes through the proximal mark. Set the socket flexion to somewhere between 3° and 5°; however, the individual situation (e.g. hip flexion contractures) must be taken into account. Also take into account to the ischial tuberosity to ground distance. 7 Connect the socket and knee by means of an adapter.																																																																																																						
	3R60 EBS / 3R60 EBS^{PRO} Recommended prosthetic feet according to MOBIS for: 3R60 Greissinger plus 1A30, Dynamic Motion 1D35, Trias 1C30, C-Walk 1C40, Axtion 1E56 or Axtion DP 1E58 (Selection depends on the Mobility Grade and functional demands of the patient)	3R106 Recommended prosthetic feet according to MOBIS for: 3R106 Greissinger plus 1A30, Dynamic Motion 1D35, Trias 1C30, C-Walk 1C40, Axtion 1E56 or Axtion DP 1E58 (Selection depends on the Mobility Grade and functional demands of the patient)	Bench alignment* 3 <table><tr><td>3R20 / 3R36</td><td>0 mm</td></tr><tr><td>3R21 / 3R30</td><td>0 mm</td></tr><tr><td>3R23 / 3R32</td><td>0 mm</td></tr><tr><td>3R46</td><td>0 mm</td></tr><tr><td>3R55</td><td>0 mm</td></tr><tr><td>3R60 EBS</td><td>0 mm</td></tr><tr><td>3R60 EBS^{PRO}</td><td>0 mm</td></tr><tr><td>3R72</td><td>0 mm</td></tr><tr><td>3R78</td><td>0 mm</td></tr><tr><td>3R106</td><td>0 mm</td></tr></table> Recommended prosthetic feet according to MOBIS (Selection depends on the Mobility Grade and functional demands of the patient) Please refer to the respective instructions for the use of the knee joints.	3R20 / 3R36	0 mm	3R21 / 3R30		0 mm	3R23 / 3R32	0 mm	3R46	0 mm	3R55	0 mm	3R60 EBS	0 mm	3R60 EBS ^{PRO}	0 mm	3R72	0 mm	3R78	0 mm	3R106	0 mm	3R93 Recommended prosthetic feet according to MOBIS for: 3R93 Adjust 1M10, Single Axis Foot 1H32–1H40, SACH foot 1S49–1S90, Dynamic Foot 1D10/ 1D11, Greissinger Plus 1A30, Dynamic Motion 1D35, Trias 1C30. (Selection depends on the Mobility Grade and functional demands of the patient)	C-Leg / C-Leg compact Recommended prosthetic feet according to MOBIS for: C-Leg/ C-Leg compact Dynamic Foot 1D10, Greissinger plus 1A30, Dynamic Motion 1D35, Trias 1C30, C-Walk 1C40, Axtion 1E56 or Lo Rider 1E57 (Selection depends on the Mobility Grade and functional demands of the patient)	Bench alignment* 3 <table><tr><td>3R15 / 3R49</td><td>– 10 mm</td></tr><tr><td>3R17 / 3R33</td><td>– 15 mm</td></tr><tr><td>3R22 / 3R34</td><td>– 15 mm</td></tr><tr><td>3R40 / 3R41</td><td>– 15 mm</td></tr><tr><td>3R80</td><td>0 mm</td></tr><tr><td>3R90 / 3R90-1</td><td>– 10 mm</td></tr><tr><td>3R92 / 3R92-1</td><td>– 10 mm</td></tr><tr><td>3R93 / 3R93-1</td><td>– 10 mm</td></tr><tr><td>3R95 / 3R95=1</td><td>– 15 mm</td></tr><tr><td>C-Leg</td><td>5 mm</td></tr><tr><td>C-Leg compact</td><td>5 mm</td></tr><tr><td colspan="2">„-“ = Posterior placement</td></tr></table> Recommended prosthetic feet according to MOBIS (Selection depends on the Mobility Grade and functional demands of the patient) Please refer to the respective instructions for the use of the knee joints.	3R15 / 3R49	– 10 mm	3R17 / 3R33	– 15 mm	3R22 / 3R34	– 15 mm	3R40 / 3R41	– 15 mm	3R80	0 mm	3R90 / 3R90-1	– 10 mm	3R92 / 3R92-1	– 10 mm	3R93 / 3R93-1	– 10 mm	3R95 / 3R95=1	– 15 mm	C-Leg	5 mm	C-Leg compact	5 mm	„-“ = Posterior placement																																																											
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Posture. In order to ensure appropriate stability combined with easy swing phase initiation, please proceed as follows: 1 To make the load line visible, the amputee (with shoes) stands on the L.A.S.A.R. Posture with the prosthetic side on the force plate and with the other leg on the height compensation panel. The prosthetic side should at least be loaded with 35 % of the body weight. 2 Now adapt the alignment by only adjusting the plantar flexion of the foot. The load line / laser line should be placed anterior to the alignment reference point (except for 3R60, see ill.) according to the alignment recommendation of the knee joint. 3 Perform dynamic optimisation during trial walking. You will often have to take the following aspects into consideration and make any necessary adjustments: • Socket flexion position by verifying step length symmetry (sagittal plane) • Adduction position of the socket and M-L positioning of the socket adapter (frontal plane) • Rotation position of the knee joint axis and outward rotation of the prosthetic foot (transversal plane) 4 Finally, document the fitting result using the „Dartfish“ motion analysis software.
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