

WestMARC Knee Guide for Prosthetic Multidisciplinary Team

Mechanical Knees: locked

NAME	Semi Automatic Knee Lock (SAKL)					Optional Manual Knee Lock (HOKL)		
	Compact SAKL	NOFM0	3R33	3R41	Prose/3R31	NOFM1 (4 bar)	NOFM2 (weight activated)	ESK
	Blatchford	Ossur	Ottobock	Ottobock	Ottobock	Ossur	Ossur	Blatchford

General	Activity level (see Appendix 2 in full guide)	1	L	1	1	1	L-M	L-M	1-3
	Weight of unit (gms)	325	275	530	385	600	590	495	1200
	MAX KNEE FLEXION ANGLE	140	140	120	150	145	150	145	140
	Max weight of patient (kgs)	125	125	125	125	125	136	125	125
	FULL HIP EXTENSION or flexion accommodated NB unaccommodated hip flex contracture can make locking knee difficult and for optional lock, knee unstable when unlocked	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	GOOD RESIDUAL LIMB STRENGTH REQUIRED	No	No	No	No	No	Yes	No	No

Prosthetic Stance Control *refers to knee unlocked	Locked	Yes	Yes	Yes	Yes	Yes	Optional	Optional	Optional
	Weight activated lock	No	No	No	No	No	No	Yes when unlocked	Yes when unlocked
	Geometric lock	No	No	No	No	No	No	No	No
	Optional Manual Lock	No	No	No	No	No	Yes	Yes	Yes
	Mechanical stance flexion at initial contact	No	No	No	No	No	No	No	Yes
	Load activated hydraulic yield	No	No	No	No	No	No	No	No
	Position dependent hydraulic yield	No	No	No	No	No	No	No	No
	Microprocessor	No	No	No	No	No	No	No	No
	Alignment only	No	No	No	No	No	Yes when unlocked	No	No

		Semi Automatic Knee Lock (SAKL)					Optional Manual Knee Lock (HOKL)		
NAME		Compact SAKL	NOFM0	3R33	3R41	Prosedo/3R31	NOFM1 (4 bar)	NOFM2 (weight activated)	ESK

Prosthetic Swing Control	Locked	Yes	Yes	Yes	Yes	Yes	Optional	Optional	Optional
	Optional Manual Lock	No	No	No	No	No	Yes	Yes	Yes
	Constant Friction	No	No	No	No	No	Yes when unlocked	Yes when unlocked	No
	Extension assist	No	No	No	No	No	Yes when unlocked	Yes when unlocked	No
	Pneumatic	No	No	No	No	No	No	No	Yes when unlocked
	Hydraulic	No	No	No	No	No	No	No	No

Implications for gait training	<i>For Loading Response</i>								
	Actively extend hip & prosthetic knee	No	No	No	No	No	Crucial when unlocked	Yes when unlocked	Yes when unlocked
	<i>At pre-swing:</i>								
	Unload toe and hip hitch	Yes	Yes	Yes	Yes	Yes	Yes when locked	Yes when locked	Yes when locked
Load toe	No	No	No	No	No	Yes when unlocked	No	Yes when unlocked	

Sitting down	To unlock: proximal <u>push</u> lever with cable	Yes	No	No	No	No	No	No	Yes
	• Lever position for locked	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Up
	• lever position for unlocked (HOKL)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Down
	To unlock: proximal <u>pull</u> lever with cable <small>NB can change to push lever if required</small>	No	Yes	Yes	Yes	Yes	Yes	Yes	No
	• Lever position for locked	n/a	n/a	n/a	n/a	n/a	n/a	Down (resting position) Up ('hook' to keep unlocked)	n/a
	• lever position for unlocked (HOKL)	n/a	n/a	n/a	n/a	n/a	n/a	Down (resting position) Up ('hook' to keep unlocked)	n/a
	To unlock: patellar release	No	No	No	Yes	No	No	No	No
	Hydraulic flexion resistance sitting assist (load foot to activate)	No	No	No	No	Yes	No	No	No
Foot position: weight on toe (foot behind)	No	No	Yes	No	No	Yes	No	Yes	
Foot position: unload foot	No	No	No	No	No	No	Yes	No	

Stairs /slope	Step together	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
---------------	---------------	-----	-----	-----	-----	-----	-----	-----	-----