



# LEG Race



## POWERED LEG PROSTHESIS RACE

In this race, pilots using a leg prosthesis on one or both sides, including a knee joint, have to perform various movements. They can use any kind of active or passive prosthetic device.

## CHALLENGES FOR 2020

The pilots in the Powered Leg Prostheses Race now have to concentrate on secondary activities such as the balancing or carrying of objects such as buckets or boxes. This way it can also be tested whether the leg prosthesis allows the pilots to walk as naturally and symmetrically as possible.

Time Limit 4 minutes						
Task Name	Standing & Sitting	Hurdles	Balancing beam	Stairs	Tilted Path	Ramp
Points (Total: 100)	15	18	20	17	16	14
Task Description	Balance tableware while sitting down and standing up.	Overcome hurdles and transport two apples, each on one plate, to the other side.	Overcome hurdles and transport two apples, each on one plate, to the other side.	Carry boxes and balls to the other side of the stairs; place only one foot on each step (alternating steps)	Cross the tilted path once in each direction while carrying a plate with apples	Balance plate with apples while ascending and descending ramp
Challenge	Leg strength; confined space	Bending ability and movement control of the knee joints.	Bending ability and movement control of the knee joint	Ability to bend the knee joint; motor power on the stairs; precision of steps; stability; limited vision	Bending ability and angle control of the knee and ankle joint	Ability to bend knee and ankle joints; bending stability and motor power at the ramps
Scoring	1. Whoever achieves the highest score by solving the tasks is the race winner. 2. In case of a tied score between two or more pilots, the pilot with the lowest total time is the race winner.			<b>Main Competition Rules</b> The pilot may skip tasks, but cannot return to them later.		