Slow walking velocity of an adult human

The slow, normal walking speed of an adult human is around 3,5km/h.

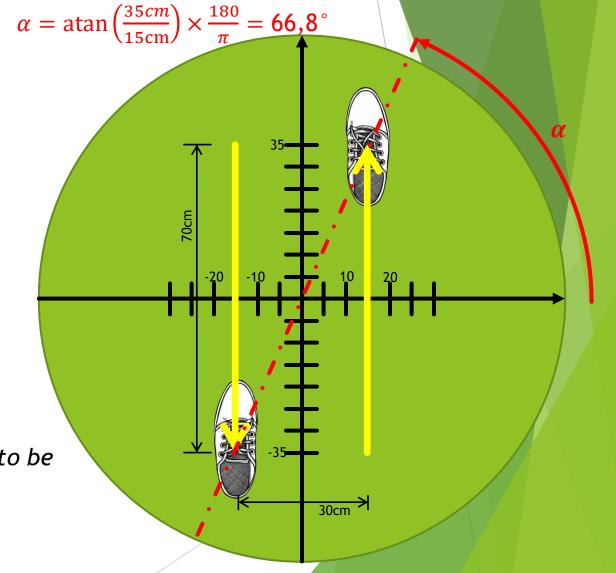
Slow walking speed	3,5km/h
Step length at 3,5km/h around	70cm
Steps per hour (with 70cm)	5000
Time to take a single step (70cm)	0,72s
Feet distance while standing	30cm

In other words

To take one full step (70cm) in 0,72s, the axis has to rotate from 0° to +66,8°.

This makes around 92.8° per second or 15.5rpm where the disc has to spin.

Note: 15,5rpm is not the fastest speed which has to be achieved, because the rotation speed depends on tangens and the feet distance (while standing).



Walking straight ahead with 70cm in 0,72s



Note: as you can see, the highest rpm is about 30rpm or 180°/second.