

# ITAndroids Humanoid Robots Specifications for RoboCup 2026

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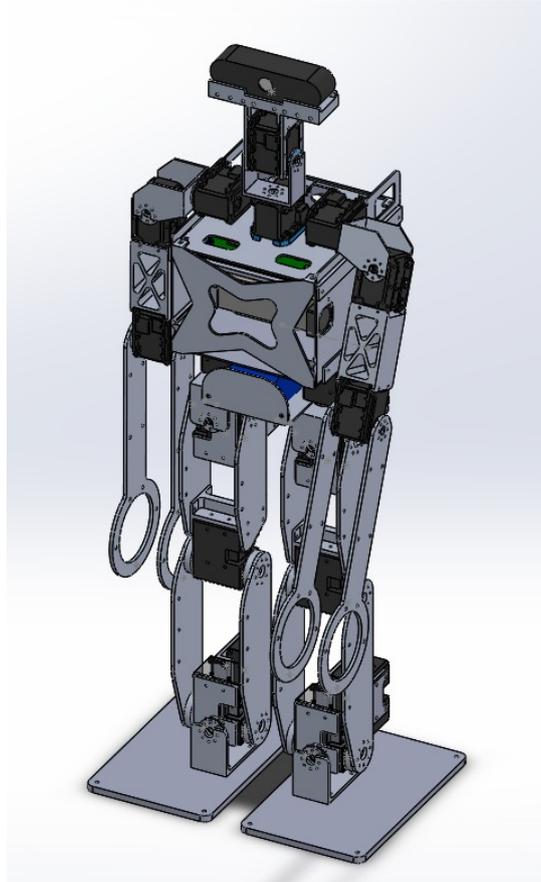
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## 1 Chape (4x)



Robot name	Chape
Height of the robot	530 mm (with football boots)
Weight of the robot	3.8 kg
Walking speed in cm/s (over grass)	30
Number of DoF	20 (2 neck + 3 per arm + 6 per leg)
Main computer	Intel NUC Core i5 @ 2.6 GHz dual core
Electronics (designed by ITAndroids)	CMB v3 (subcontroller), PWB v2 (power board), RIB (interface board)
Camera	Logitech C920
IMU	MinIMU-9 (3-axis acc. + 3-axis gyro)
Materials	Aluminum (structure, comprising the torso, arms, and legs), PLA (gloves and head) and TPU (dampers)
Servomotors	20 x Dynamixel MX-28AT ( $\approx$ 25W)
Battery	1300 mAh 4 cell LiPo (14.8–16.8 V)

## 2 Chape 2nd Generation (1x) – under development



Robot name	Chape 2nd Generation
Height of the robot	695 mm (with football boots)
Weight of the robot	≈ 6.9 kg
Walking speed in cm/s (over grass)	20
Number of DoF	20 (2 neck + 3 per arm + 6 per leg)
Main computer	Intel NUC Core i7 @ 2.6 GHz quad core
Vision Processing Unit (VPU)	Intel Movidius Neural Compute Stick 2
Electronics (designed by ITAndroids)	PCMB v4 (subcontroller and power board) and RIB (interface board)
Camera	Logitech BRIO
IMU	MinIMU-9 (3-axis acc. + 3-axis gyro)
Materials	Aluminum (structure, comprising the torso, arms, and legs) and TPU (dampers)
Servomotors	8x (neck and arms) MX-28AT (≈ 25W) + 12x (legs) XM540-W150-R (≈ 81W)
Battery	3000 mAh 4 cell LiPo (14.8–16.8 V)