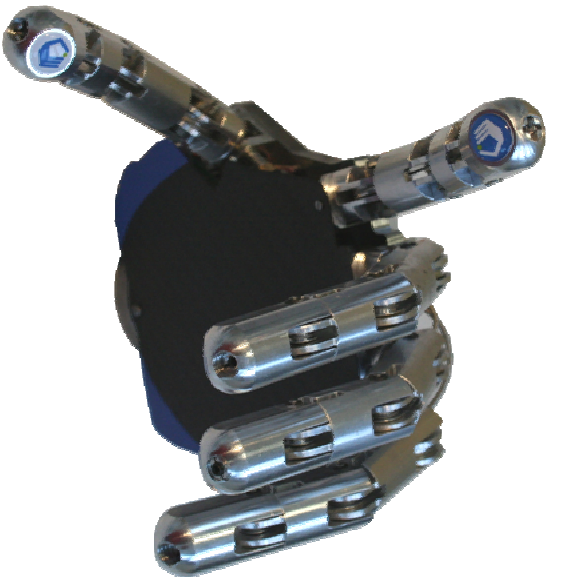




GRASPING INNOVATION



P R E N S I L I A S . R . L .

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B A C K G R O U N D Prensilia S.r.l. is a company spun out from Scuola Superiore Sant'Anna, Pisa, Italy, founded in 2009 by young researchers working at ARTS Lab (Advanced Robotics and Technology Laboratory). Its mission is to design and develop intelligent robotic systems able to adapt and interact with the environment.

Actual core products are anthropomorphic under-actuated robotic hands with dimensional and actuation features similar to the natural hand. These can be exploited in research as advanced hand prosthesis, end effectors for humanoid robots, for rehabilitation and/or neuroscientific experiments; in general, in all research fields where it's important to have an artificial hand that behaves as a natural one.

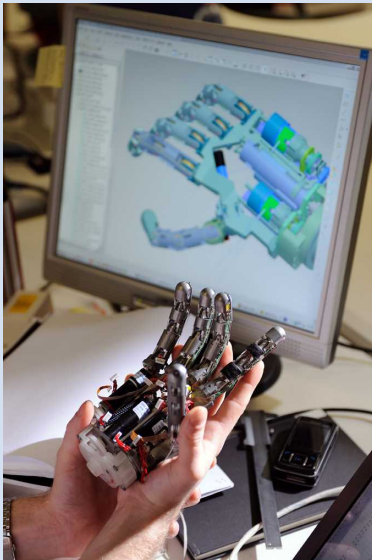
ARTS Lab has been developing robotic hands for more than 10 years; such technology is now available to research institutes, commercialized and customized by Prensilia.

EXPERTISE

The know-how of Prensilia includes the following fields: advanced robotics and mechatronics, embedded control, micro-mechanical sensors, precision mechanics, ICT systems and biomechanical modelling.

Members of Prensilia are and have been involved in many national and international research projects in the field of robotics, hand prosthetics, neuroscience, and wearable exoskeletons allowing them to acquire and consolidate the key expertises of Prensilia.

Starting from Your requirements Prensilia designs, customizes and manufactures advanced robotic hands endowed with embedded actuation, sensory and control systems, with a rapid delivery and at competitive prices.



PROSTHESIS PROTOTYPES



Description

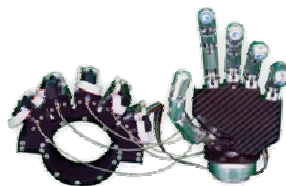
Intrinsic robotic hands with all functional components (4 motors, up to 40 proprioceptive and exteroceptive sensors and the controller) integrated in the palm and in the underactuated, self-adaptive fingers.

Able to grasp and sense objects. Simple communication interface (RS232). Standard prosthetic wrist attachments available.

Applications

The compact size of these hands allows using them in research, evaluation and clinical experience with humans in real daily living environment on Neural-Machine interfaces (either invasive or non-invasive) and control (EMG, ENG, EEG, sensory feedback systems, etc).

MULTIPURPOSE RESEARCH PLATFORMS



Description

Robot hands with different levels of dexterity and embedded sensorization. Embedded controller, and simple communication interface.

Applications

Research in: rehabilitation, humanoid robotics, assistive robotics, Neural-machine interfaces and control, sensory substitution systems, neuroscience, etc...

Contact us for a quotation

Standard prototypes are ready in three months

MECHANISM DESIGN



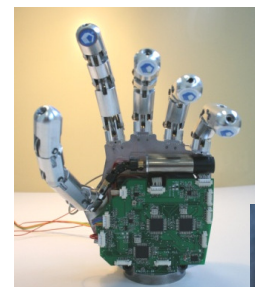
EMBEDDED CONTROL



SENSOR DESIGN



MECHATRONICS



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