

The Able Exoskeleton is a haptic device

Its main applications are:

- tele-operation
- rehabilitation



## Preliminary Technical characteristics

The ABLE Exoskeleton is the only force-feedback system of the market today, which offers the following characteristics:

- ☒ The ABLE Exoskeleton is available in 3 configurations:
  - ☒ 4 DOFs: Exoskeleton for the shoulder and elbow
  - ☒ 5 DOFs: Exoskeleton for the shoulder, elbow and pronation & supination at the level of the wrist
  - ☒ 7 DOFs: Exoskeleton for the shoulder, elbow and 3 DOFs of the wrist
- ☒ Modular end-effector equipped with programmable switches
- ☒ Gripping tool equipped with a proximity sensor, connected to a "dead-man" function: as long as the user does not hold the gripping tool in his hand, and as soon as he releases it, the motors are switched off, and no active movement can occur
- ☒ Need a mechanical support to position the device at the right height to be correctly use
- ☒ Development kit (API) available for the major operating systems