

Nimbl'Bot designs and manufactures **AGILE, MULTI-TASKING, ACCURATE** and **HIGHLY REDUNDANT** compact robotic arms, for maintenance and inspection operations. Our robots are based on a new actuation principle: **MORE RIGID, MORE NIMBLE, HOLLOW** and **TORSION FREE**.

Carried by a mobile base, this patented (in Europe, Japan & USA) disruptive technology **pushes forward the limits of accessibility** and allows to operate in environments that are **inaccessible or dangerous for humans** with:

- total freedom of movement,
- quick setup & easy control,
- the best accuracy to payload capacity ratio on the market.

FUNCTIONAL PROTOTYPES

NB-55

(suitable for inspection and intervention in confined spaces)

- Diameter: **60 mm**
- Length: **80 cm**
- Bending radius: **10 cm**
- Payload capacity: **1 kg**
- Degrees of freedom: **21**
- Material: **Carbon-Reinforced Nylon**



NB-120

(suitable for drilling, routing, sanding, etc.)

- Diameter: **120 mm**
- Length: **2 m**
- Bending radius: **27,05 cm**
- Accuracy: **< 0,2 mm**
- Payload capacity: **10 kg**
- Degrees of freedom: **21**
- Material: **Steel**



USER INTERFACE:

- Control of the motion of the head
- Cartesian control like a CNC machine (G-Code)

A WIDE RANGE OF APPLICATIONS



ENERGY



WATER



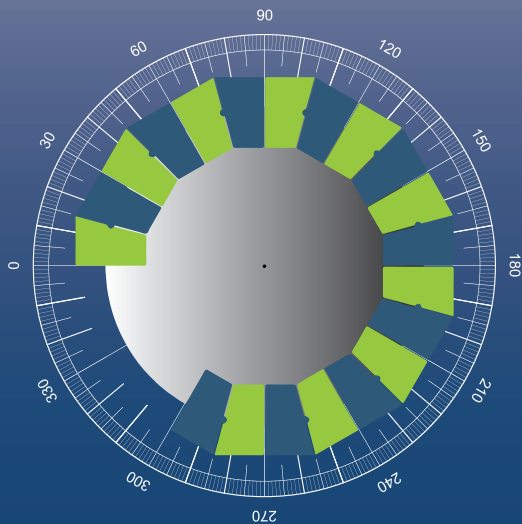
AERONAUTICS /
SPACE



TRANSPORT

A MODULAR TECHNOLOGY

The Nimbl'Bot robotic arms are made of actuation modules, each covering a 60° solid angle. Therefore, the more modules the arm has, the larger its workspace. The payload capacity also depends on the number of modules. The shorter the arm, the greater its payload capacity.



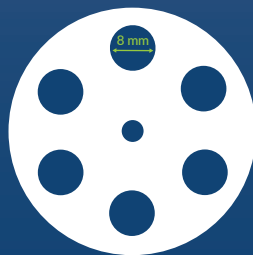
An NB-55 with 10 modules can cover a 300° working area. In this configuration, it measures 60 cm and carries up to 1 kg.

A NB-120 with 10 modules measures 2 m and carries 10kg.

The Nimbl'Bot architecture is hollow and torsion free.

The NB-55's internal space can accommodate cables for a communication network and a 12 V power supply.

The NB-120 maximizes the diameter available to the user and allows the passage of multiple pipes up to 8 mm in diameter.



NB-120 interior view drawing

A REASSURING CUSTOMER PROCESS

Contact



Feasibility study



POC



Production



THEY TRUST US



Contact Nimbl'Bot

contact@nimbl-bot.com / +33 6 64 70 44 79

Bordeaux - FRANCE

www.nimbl-bot.com

