SMART AUTOMATION WITH COBOTS AND END-OF-ARM TOOLING AT LDA NV

In a world where industrial automation and production automation are becoming increasingly important, cobots (collaborative robots) play a key role. But what exactly are cobots? And how can companies in Belgium already start using them today?

Cobots are collaborative robots that work safely alongside humans. They support employees by taking over repetitive or heavy tasks such as moving parts , operating machines, or performing precision work. Thanks to their flexibility and

user-friendliness, they are ideal for both large production lines and SMEs that are committed to robot automation.
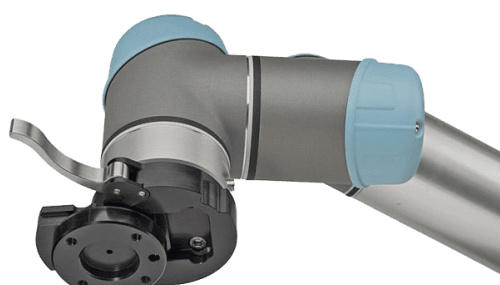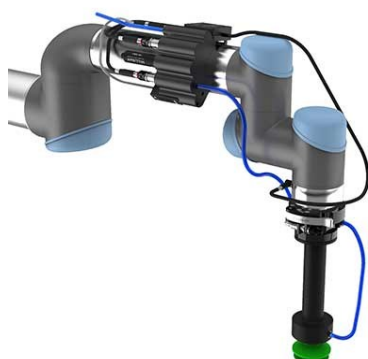
END-OF-ARM TOOLING: THE KEY TO VERSATILITY

A cobot only becomes truly useful with the right end-of-arm tooling. These are the grippers, suction cups, or customized modules that determine what task the robot arm can perform. At LDA nv, we offer a wide range of standard solutions and custom end-of-arm tooling, fully tailored to the customer's needs. Components such as a robot gripper for small to heavy applications or smart vacuum systems.

FROM CNC TO HANDLING ROBOTS

Cobots are often used in combination with robot CNC applications such as a mini CNC. This allows companies to speed up their production processes while improving quality. With a well-chosen handling robot or robot arm, loading, unloading, or assembly becomes simple and efficient. There are also Universal Robots cobots!

BRANDS AND POSSIBILITIES

At LDA, we work with well-known brands. Yaskawa robots are renowned worldwide for their reliability and power. Whether it's precision, speed, or versatility, there's always a solution that fits your process.

VACUUM TECHNOLOGY AND GRIPPERS: FLEXIBILITY IN EVERY APPLICATION

A cobot or robot arm only becomes truly efficient with the right gripper. For this purpose, we offer a wide

range of end-of-arm tooling: pneumatic grippers to advanced vacuum technology. This allows us to provide the right solution for every task.

PNEUMATIC GRIPPERS

- You can find the pneumatic grippers in our catalog, but here are a few examples:
- Micro grippers: compact and suitable for small workpieces.
- 3-claw grippers: for round or cylindrical parts.
- Heavy-duty grippers: for heavier industrial applications.
- Parallel pneumatic grippers: for accuracy in repetitive movements.

VACUUM SOLUTIONS

- In addition to grippers, we also offer vacuum solutions:
- Suction cups and pads: suitable for flat, smooth, or sensitive surfaces.
- Venturi vacuum pumps: energy-efficient and powerful for fast cycles.
- Variable vacuum pumps: flexible use with varying products and sizes.
- Pumps for material transport: ideal for handling bulk goods or light parts.

CUSTOM SOLUTIONS

Because no two production processes are the same, LDA also offers custom end-of-arm tooling. Think of unique grippers or vacuum modules that fit your product or process perfectly. This allows you to get the most out of your handling robot, Universal robot, or Yaskawa robots.

With our combination of grippers, vacuum systems, and customization, we ensure that your

collaborative robots and robot arms perform optimally in every phase of automation.

WHAT DOES THIS MEAN FOR YOUR COMPANY?

More possibilities: whether you want to assemble small parts or move heavy pieces, we always have the right solution.

Greater accuracy: your processes become more consistent and error-free, ideal for CNC applications or precision work.

Faster production: less downtime and higher cycle speeds provide an immediate boost to your output.

Flexible response to changes: do you often change products or formats? With our custom

end-of-arm tooling and variable vacuum pumps, your production will always remain agile.

LDA NV: YOUR PARTNER IN ROBOTICS

Belgium has many robotics companies, but LDA nv stands out thanks to its personal service and comprehensive range. We guide customers from advice to implementation. Whether you opt for a cobot, a Yaskawa solution, or a complete robot automation project, we ensure that your investment pays off.

LDA
Solutions for Life