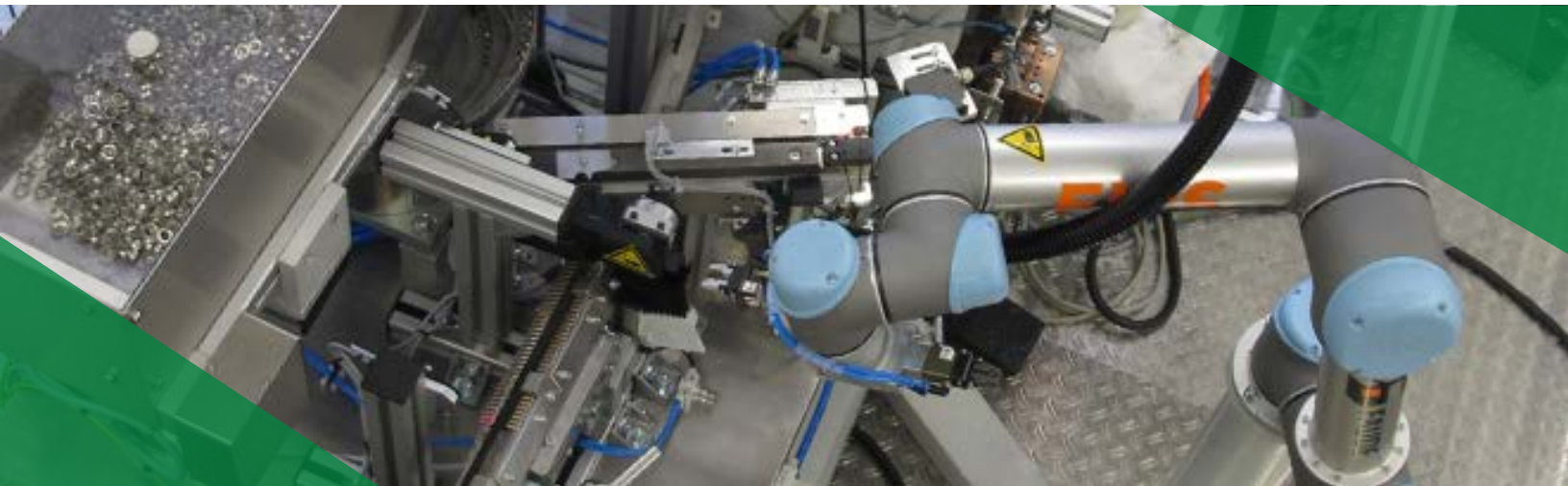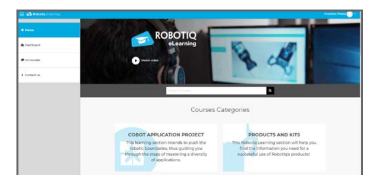# How Cobots Can Work For Your Business

What is Your Automation Budget?

One of the most important Steps for integrating Cobots into your operations is determining your automation budget. Along with the project timeline, budget is a large determining factor in your cobot application.

Important Considerations:

- Do you want to get an integrator involved? Integrators like Vention, can be a great option for organizations new to automation who still want to do it in house. Other integrators that specialize in turn key solutions, can reduce the requirements for in house engineering. However this will be at an additional cost.

- Do you need to hire someone to program the Cobot? SKEANS offers in depth training for Cobot programming to help improve your skills. Additionally, Universal Robots and Robotiq have great online training tools designed for machine tending applications.

- What type of part are the Cobots going to be processing? More complicated parts may require more complicated hardware, grippers, and programming.

- Are the cobots going to be working closely with people? If so, you may need to look into safety guarding options for the robotic cell.

For more information on building your budget, Robotiq has great training specifically for Machine Tending applications. Please follow the link to start their training process.

As always, if you need any help our talented sales team is here to assist you.

Robotiq E-Learning

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604.777.4247	250.828.2344	250.564.2201	780.463.8400	403.279.6644	306.651.3366	204.633.9699
sales@skeans.com	sekam@skeans.com	sepg@skeans.com	seal@skeans.com	secal@skeans.com	sesk@skeans.com	sewin@skeans.com

skeans.com

Is there someone who can program the Cobot?

Although programming the Cobot isn't all "one's and zero's", it's still critically important to know who on your staff is going to be responsible for it. Cobots can be programmed in multiple different ways.

Universal Robot Programming:

• The Standard UR Interface (Polyscope):

This is where you utilize the standard Universal Robots interface for programming the Cobot. This interface will allow an individual to set, pose, and use the Cobot as you record it's movements. Additionally, you can program the Cobot, by giving it instructions through the intuitive and easy to use interface. If you decide to go with this option, you may not need to hire a costly programmer; however, you will still need someone on your staff willing to train and learn in how to program the Cobot.
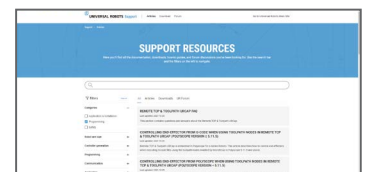
• UR Script Coding:

You can program directly with UR Script, allowing you much deeper control of motors, joints, speeds, variables, work frames, and other key Cobot features. Therefore, allowing you to implement more advanced and difficult applications. UR Script is comparable to Python, so it should be easy for anyone with a coding background to pick up.

• Remote Coding:

Universal Robots' Cobots can be programmed remotely using different client interfaces. This allows your programmers to utilize different languages such as Python, ROS, and G-Code when programming the Cobot. Similarly to UR Script, this also gives you much deeper control over the Cobot's movements and implementation.

For more information on programming your Cobot, Robotiq has great training specifically for Machine Tending applications (Robotiq E-Learning). Additionally, Universal Robots has programming resources available, and you'll find the current UR Script coding book Here.

UR Support Resources

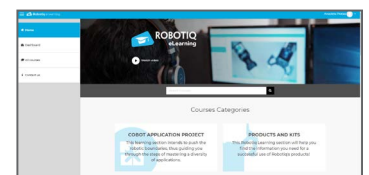# Do You Have Other Kinds of Automation On Site?

Other automation on site can interact and engage with Universal Robots' Cobots in unique ways. You may want them to integrate with existing automation or to help you grow into a fully automated process.

Automation Considerations:

- It's important to determine what other kinds of automation you have on site for a number of reasons, but most importantly it can determine the difficulty of integrating a Cobot. If you're planning to add a Cobot to a fully automated process, then you'll need to determine how those processes are going to communicate and interact.

- Do you want the Cobot to interact with other automated processes, communicate with other processes, or stay blocked off as its own cell? Each implementation can have its own advantages and disadvantages, but it's generally recommended that each of the processes should communicate with each other in some way.

- Do you have the expertise on site to integrate all these processes together? You may need extra staff to help integrate and maintain the Cobot in the manufacturing process. These include the previously discussed programmers, along with electricians and other automation specialists.

For more information on integrating Cobots with already existing automation, Robotiq and Universal Robots have great training specifically for Machine Tending applications. Please follow the link to start their training process.

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skeans.com
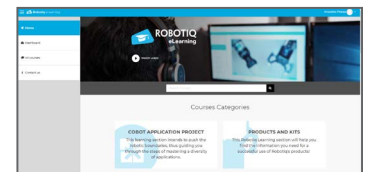
What Does Your Timeline look like?

Your timeline is critical to the implementation of Cobots in your organization. As with anything, your options can change drastically depending on your timeline to implementation.

Timeline Considerations:

- Do it yourself? You can take the do it yourself approach, but remember you'll be paying your own time to learn how to utilize the Cobot efficiently. This can be a great option for those organizations with the in house expertise and the time needed to properly integrate and implement their Cobots.

- Do it with an integrator? Integrators can give you a solution perfectly tailored for your application, at an increased cost. These solutions should be turn key and ready to go. Additionally, integrators can be a great way to accelerate your timeline for activation; however, This does not mean all integrators will be faster then doing it yourself. Making integrators a great solution for organizations that don't have the in-house expertise.

- Do it with a UR application package? Universal Robots has a variety of UR application packages. These packages are designed to streamline the activation of a particular task, making them pre-integrated solutions that are ready to go. These packages are a great option for those organizations which don't have the time to implement an solution from scratch. However, they still require the in-house expertise to implement them.

For more information on building out an appropriate automation timeline, Robotiq and Universal Robots have great training specifically for Machine Tending applications.

As always, if you need any help our talented sales team is here to assist you.

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