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| Task. No.: | 6 | Points: | 5 | Palletizing and depalletizing |

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| Objectives:  1. Use pallet template to palletize and depalletize workpieces. |

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| Description: This exercise aims to add a buffer of workpieces to the pick and place program. When the robot cannot place a new workpiece because the previous one has not been removed yet from the placing position, the workpieces should be placed in a buffer square pattern instead of waiting for workpieces to be removed. |

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| Step | Action |
| 1 | Modify your program so that, if the placing position is free, the workpiece is placed normally, but if not, the piece is stored in a pallet. The operator can set a variable to show if placing position is free or not. |
| 2 | Insert a pallet from the Templates menu. Select grid pattern and configure it. |
| 3 | Add depalletizing to you program. In other words, modify the program so that when the robot has no new workpieces in the picking location, it starts picking workpieces from the buffer pallet and move them to normal placing location. Again, the operator can set another variable to show if picking position is empty or not. |

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