Robotics and Material Handling

COURSE MATERIALS

		Quantity
Hardware	Motoman Robotic Arm	1
	YRC1000micro Controller with programming pendant	1
	Pneumatic multigripper with I/O box	1
	Workbench and adapter plate	1
	I/O experiment table package (includes workpieces)	1
	Gravity feeder	1
	Palletizing rack with pegs	1
	Conveyor (with optical sensor)	1
	Rotary table (with optical sensor)	1
Software	RoboCell V10	
Additional Materials	External source of air pressure (e.g. a portable compressor)	
	Computer	

The robotic arm (manipulator) requires a table for support and an area for performing exercises. The workbench is designed for both of these purposes. In the absence of the workbench, separate tables can be used, one for supporting the robotic arm, and one for performing exercises. The support table must be able to hold the 32+ kg arm. The exercise table should have surface dimensions of at least 0.5m x 0.5m (20" x 20"), and it should be of the same approximate height as the support table.

Intelitek software and documentation is available at http://intelitekdownloads.com.