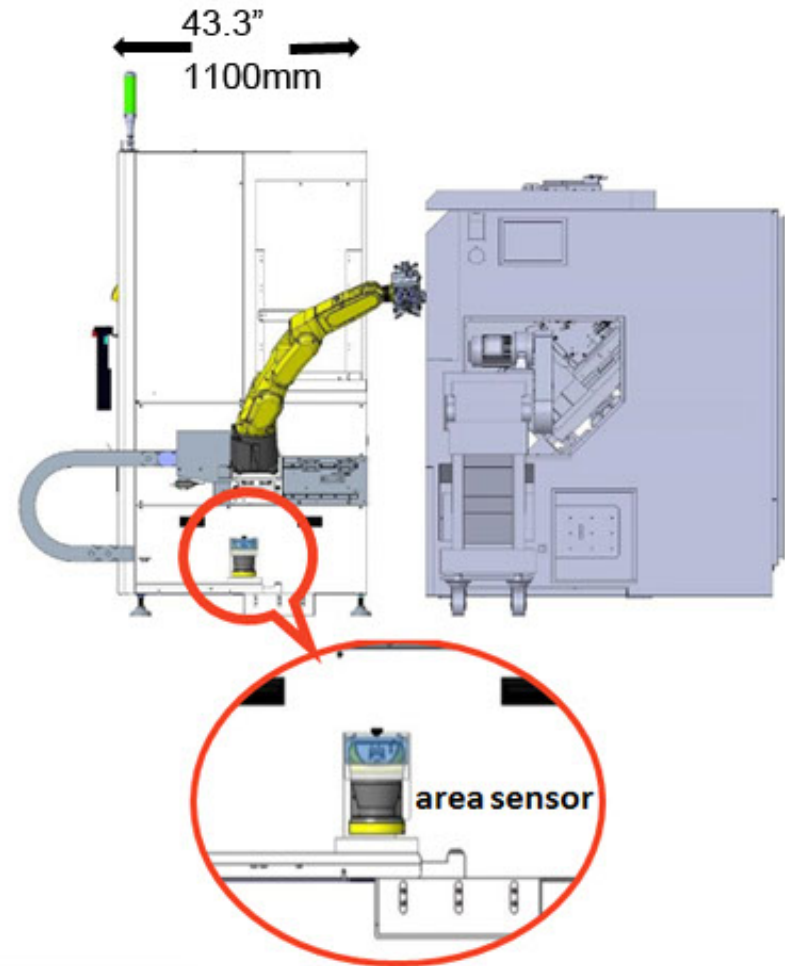


# HHO Smart

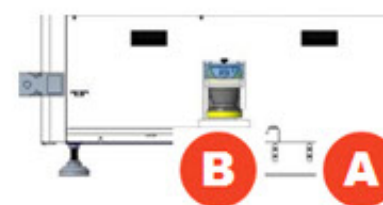
Helping Human Opportunity™



FD-1 for Front Entry CNC Machine Tool, Space Saving,  
EZ to Operate Robotic Module  
Can Be Used with Milling Center or Lathe: Industrial  
Robot and Cobot Options  
Flexible Output for Low Volume High Mix to  
Medium Production Runs



Proximity Safety Sensor Range: Scanning Range  
56.7" x 80.3" / 1440mm x 2040mm (The Scanning  
Range Can be Adjusted as Needed)



The robot can be manually moved within the AB range when space is required, The robot is manually moved (11.8" / 300mm) from A to B. When production needs to resume, it is moved back to point A.

FD-1 is a material loading system that integrates with industrial robots and cobots. It is suitable for use in conjunction with milling, turning, machine tending cleaning, inspection, or other feed systems. It can be configured alongside a single processing machine as part of the production operation. It has 2 cassettes of 16 trays for increased storage capacity. This system is ideal for small to medium-sized parts.

It retains space for manual mold changing, and its arm can move left and right. The tray size is 15.25 x 12.5" (390 x 320mm) suitable for small to medium-sized pieces, maintaining a weight that can be handled by one person even after loading the workpiece onto the tray.

The trays can store different types of pieces, which can be picked by the system according to processing requirements. Utilizing a touchscreen panel, FD-1 offers visual representation of the production progress, enhancing user-friendliness and intuitiveness. Its control system is built on an industrial PC framework, allowing flexible communication with peripheral machines.



## HHO Smart

*Helping Human Opportunity™*



Robot Arm With Adjustable Positioning for Pick/Place and to Create Additional Space When not in Use.



Dual Gripper for Quick Change Gripping

FD-1 Module Can be Positioned and Re-Located as Needed to Provide Multi-Machine Tending

