

Manual Tool Changers

Product Description

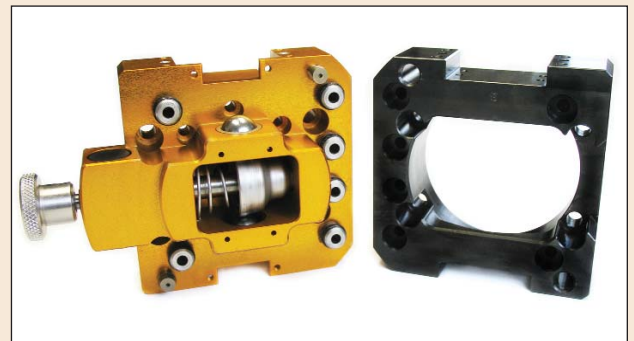
ATI Industrial Automation has developed a series of Manual Tool Changers that provide a cost-effective solution for quickly changing tools by hand. A patent-pending screw-cam locking mechanism with multiple fail-safe features resists vibration and prevents loosening. Featuring quick-action locking for one-handed manual operation, these robust and compact Manual Tool Changers can handle payloads up to 100 pounds (45 kg) and pass pneumatics and electrical signals.

Product Features

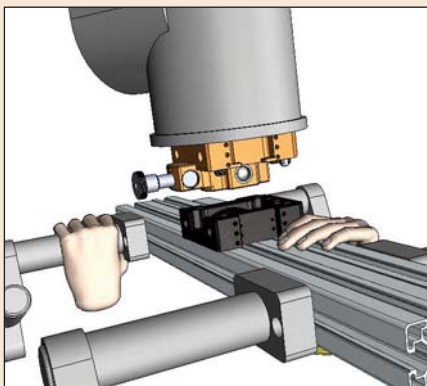
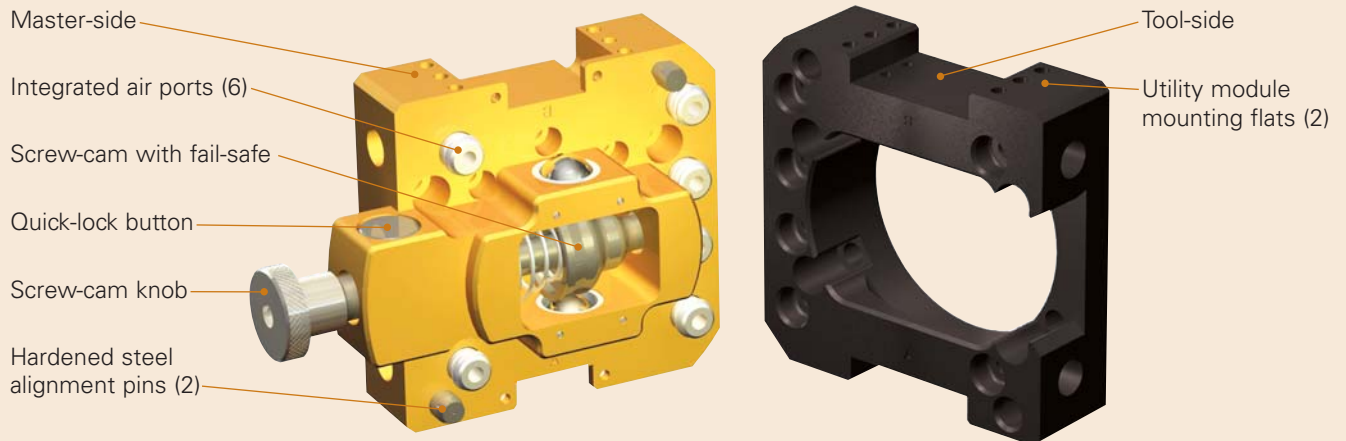
- Manual one-handed actuation.
- High strength-to-weight ratio.
- Very small package size.
- Integrated air pass-through ports.
- Screw-cam results in high locking force.
- Additional mounting flats for adding ATI utility modules.



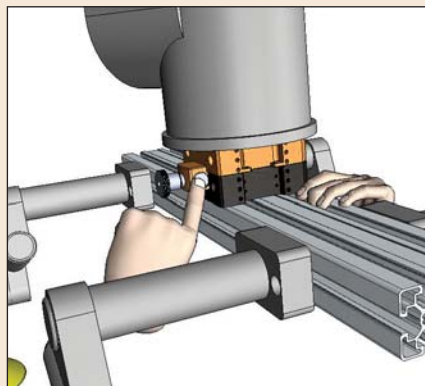
MC-016 Master- and Tool-Side Manual Tool Changer



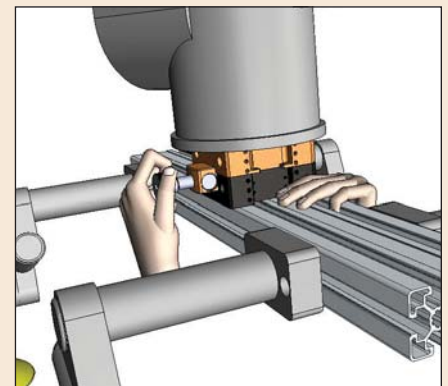
MC-036 Master- and Tool-Side Manual Tool Changer



Bring tooling to Master



Push button for quick locking
(tighten knob to secure)

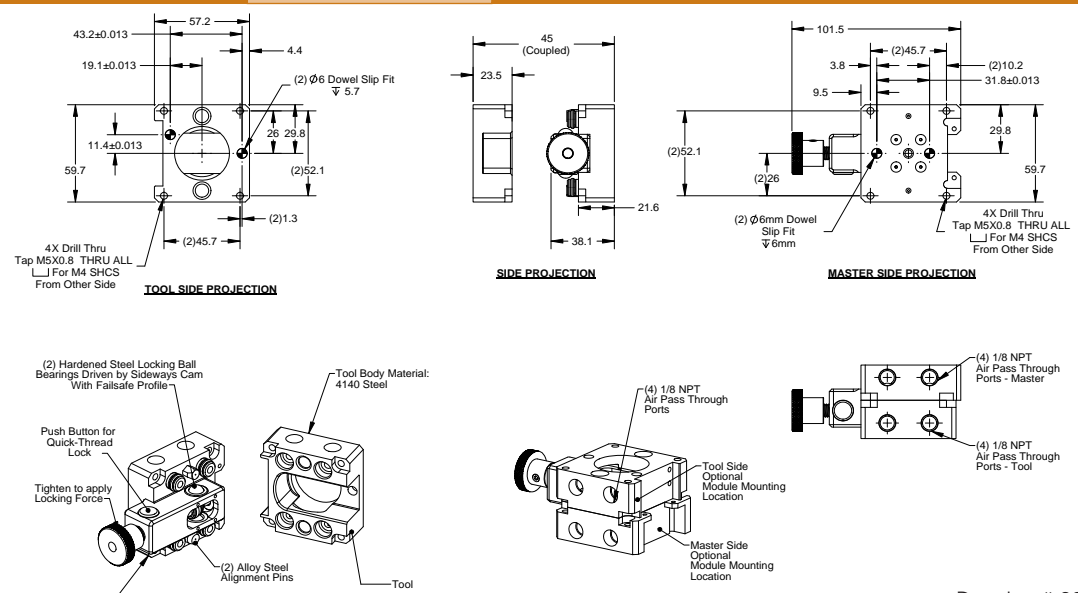


Unscrew knob to unlock

Specifications	MC-016	MC-036
Suggested Payload Limit	40 lb (18 kg)	100 lb (45 kg)
Static Moment Capacity – (X and Y)	400 lbf-in (45 Nm)	1000 lbf-in (113 Nm)
Weight – when coupled (no accessory modules)	1.25 lb (0.27 kg)	3.5 lb (0.27 kg)
Pneumatic pass-through Ports (qty) size	(4) 1/8 NPT	(6) 1/8 NPT
Additional pass-through utilities	1 Flat	2 Flats

ATI reserves the right to change these specifications.

ATI INDUSTRIAL AUTOMATION
www.ati-ia.com
MC-016 Manual Tool Changer



TOOL SIDE PROJECTION
 43.2±0.013, 57.2, 4.4, 19.1±0.013, (2) Ø6 Dowel Slip Fit ∇ 5.7, 11.4±0.013, 26, 29.8, 59.7, (2)52.1, (2)1.3, (2)45.7, 4X Drill Thru Tap M5X0.8 THRU ALL For M4 SHCS From Other Side

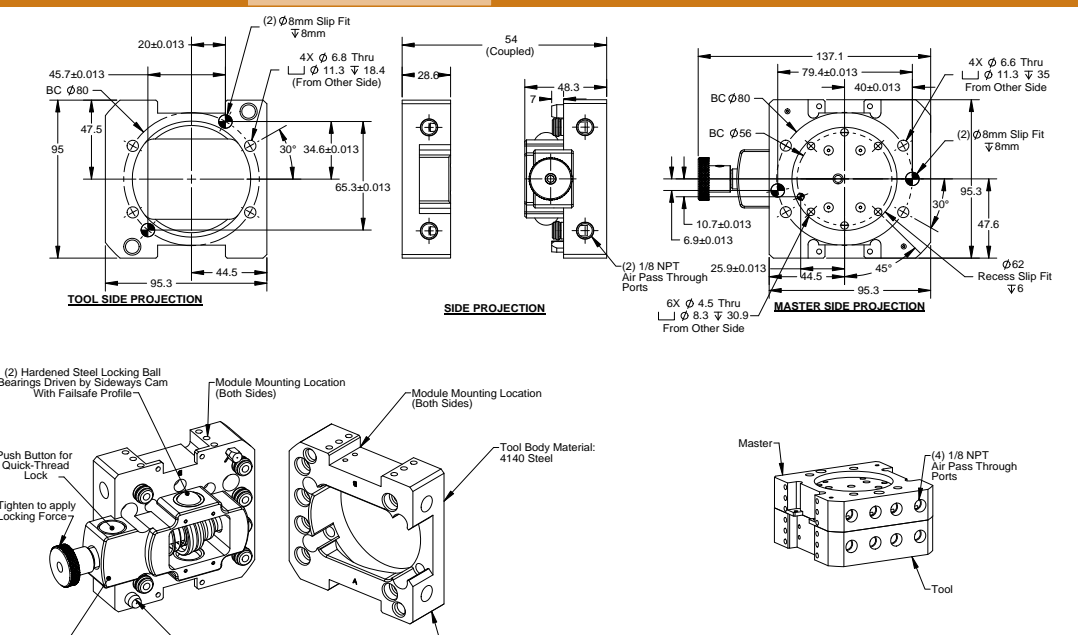
SIDE PROJECTION
 45 (Coupled), 23.5, 21.6, 38.1

MASTER SIDE PROJECTION
 101.5, 3.8, (2)45.7, (2)10.2, 31.8±0.013, 29.8, 59.7, (2)52.1, (2)26, (2) Ø6mm Dowel Slip Fit ∇ 6mm, 4X Drill Thru Tap M5X0.8 THRU ALL For M4 SHCS From Other Side

Assembly Diagrams:
 - (2) Hardened Steel Locking Ball Bearings Driven by Sidelways Cam With Failsafe Profile
 - Push Button for Quick-Thread Lock
 - Tighten to apply Locking Force
 - (2) Alloy Steel Alignment Pins
 - Tool Body Material: 4140 Steel
 - Tool
 - (4) 1/8 NPT Air Pass Through Ports
 - Tool Side Optional Module Mounting Location
 - Master Side Optional Module Mounting Location
 - (4) 1/8 NPT Air Pass Through Ports - Master
 - (4) 1/8 NPT Air Pass Through Ports - Tool

Drawing # 9230-20-2945-02

ATI INDUSTRIAL AUTOMATION
www.ati-ia.com
MC-036 Manual Tool Changer



TOOL SIDE PROJECTION
 20±0.013, (2) Ø8mm Slip Fit ∇ 8mm, 45.7±0.013, 47.5, 95, 30°, 34.6±0.013, 65.3±0.013, 95.3, 44.5, 4X Ø 6.8 Thru ∇ 11.3 ∇ 18.4 (From Other Side), BC Ø80

SIDE PROJECTION
 54 (Coupled), 28.6, 7, 48.3

MASTER SIDE PROJECTION
 137.1, 79.4±0.013, 40±0.013, 4X Ø 6.6 Thru ∇ 11.3 ∇ 35 (From Other Side), (2) Ø8mm Slip Fit ∇ 8mm, 95.3, 47.6, 10.7±0.013, 6.9±0.013, 25.9±0.013, 44.5, 45°, 95.3, Recess Slip Fit ∇ 6, 6X Ø 4.5 Thru ∇ 8.3 ∇ 30.9 (From Other Side)

Assembly Diagrams:
 - (2) Hardened Steel Locking Ball Bearings Driven by Sidelways Cam With Failsafe Profile
 - Module Mounting Location (Both Sides)
 - Push Button for Quick-Thread Lock
 - Tighten to apply Locking Force
 - (2) Alloy Steel Alignment Pins
 - Master
 - Tool Body Material: 4140 Steel
 - Tool
 - (4) 1/8 NPT Air Pass Through Ports

Drawing # 9230-20-2934-02