





Light Duty Torque Arm

Description of Operation

The tool arm is an integrated group of components designed to maximize the interaction of man and machine.

Ease of operation minimizes operator fatigue and incorporates added safety during the performance of repetitive tasks.

The tool arm is assembled at the factory for ease of installation. The arm will automatically raise up and retract to the operators right.



Light Duty Torque Arm Principle of Operation

The tool arm is designed to allow vertical and/ or horizontal operational control within a specific ranger of motion.

During travel ensure the tool path is clear and pay attention to the direction of travel during movement.

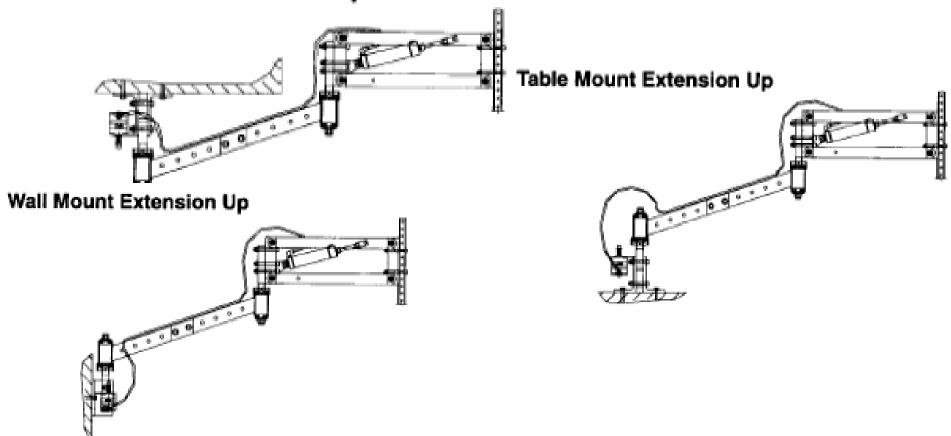
Vertical raising and lowering of the tool should be easily accomplished by exerting force on the tool.

Use the tool to move side to side and to raise or lower the tool arm.



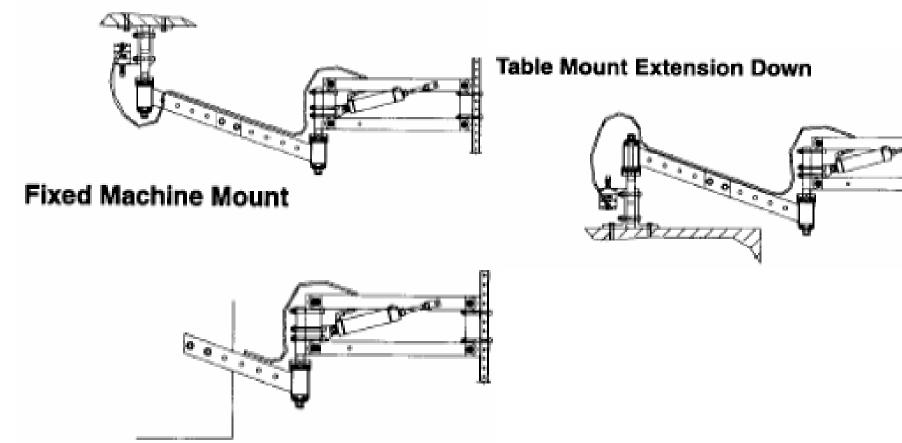
Weight Maximum Torque Maximum Travel Maximum Capacity Maximum Tool Diameter Material 14.96 Kg (33 Lbs.) 80Nm (60 ft.-lbs.) 508mm (20 in.) 13.6Kg (30 lb.) @ 698Kpa (100psi) 63.5mm (2.5 in.) Anodized Aluminum







Overhead Mount Extension Down



Assembly Solutions Light Duty Torque Arm Tool Holder Options



PN ZHS52000 Fixed Axis Tool Holder

> Applications: Right Angle Tools

Maximum Capacity 100Nm (74 ft. lb.)

Features: Fixed Axis control to prevent misalignment of tool to part

Tool can be installed in any orientation and secured

Assembly Solutions Light Duty Torque Arm Tool Holder Options



PN 54033162

Bi-Directional Tool Holder

Applications:

Push to start tools/ In-line screwdrivers

Features:

Two axis of motion for tool to part alignment

Assembly Solutions Light Duty Torque Arm Control Option



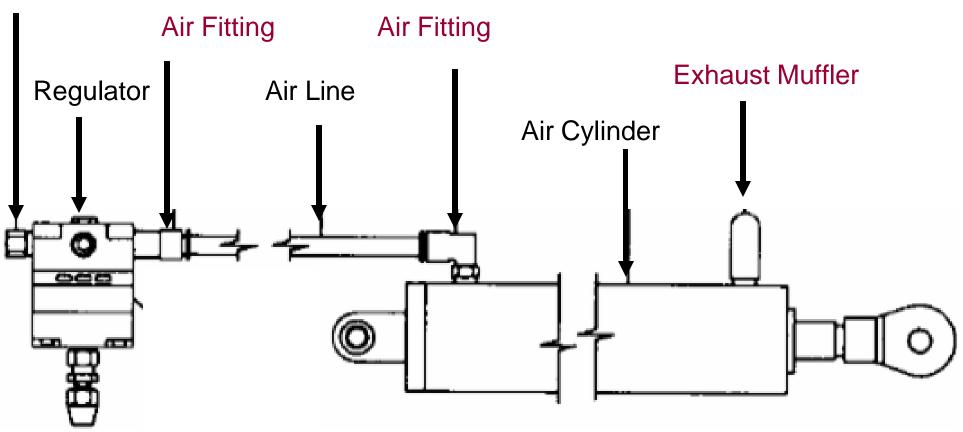
Adjustable Self- relieving regulator

Utilizes regulator- same as Balancer BA control

Balances tool or can be set to raise when work is complete

Assembly Solutions Light Duty Torque AM Control Option

Check Valve



Assembly Solutions Light Duty Torque Arm Retract Feature



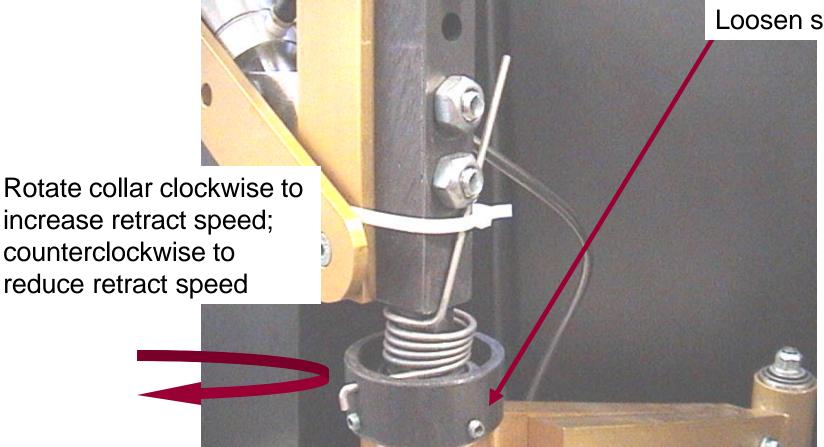
Torsion Spring retracts arm out of work area when cycle is complete

Proper Operation the torsion spring should be compressed when extended and relax when retracted

Adjustable- Rotating the lower mounting collar clockwise will increase tension arm retracts more quickly

Replace upper pivot assembly with lower to change direction of retract.

(IR) Assembly Solutions Light Duty Torque Arm **Retract Adjustment**



Loosen set screw

Assembly Solutions Light Duty Torque Arm Troubleshooting

COMPONENT	SYMPTOM	REMEDY
Pivot Assemblies	Movement is not smooth, or may be binding.	Inspect pivot assembly. Repair or replace as necessary to ensure pivot assembly movement is smooth and does not bind. Check spring retract adjustment.
	Fasteners are loose.	Ensure fasteners are tightened to rated torque specifications.
	Lack of lubrication in pivot assembly.	Lubricate pivot assembly.
Control Hoses	Hose leaks at fittings or along length of hose.	Replace worn, leaking or damaged hoses and fittings.
	Hose binding at connections.	Ensure swivel connections operate correctly without sticking or binding. Replace fittings that stick or bind.
Cylinder	Effort to extend or retract Tool Arm is not equal.	Check regulator adjustment.
		Ensure cylinder vent is clean and unrestricted.
Parallel Links	Movement up and down is restricted.	Inspect flanged bushings. Replace flanged bushings if worn or damage.

Complete instructions in MHD56174, Light Duty Tool Arm Service and Installation Manual



Operator should test arm to ensure smooth and unrestricted movement

Check for loose fasteners

Check tool is secure in tool holder

Check air system for leaks and arm for drifting down

Annual Inspections

Inspect all components for wear

Maintenance personnel should torque fasteners



Torque Range- up to 80 Nm

Tool Capacity- up to 14.96 Kg

Tools- In-line push to start or screwdriver & right angle wrenches

Features Wall/ Machine/ Table Mounting

Spring retract from work area

Adjustable regulator to balance tool

Two styles of tool holder for fixed or bi-directional movement