

User Manual

TA-3-12, TA-3-12-ANSI

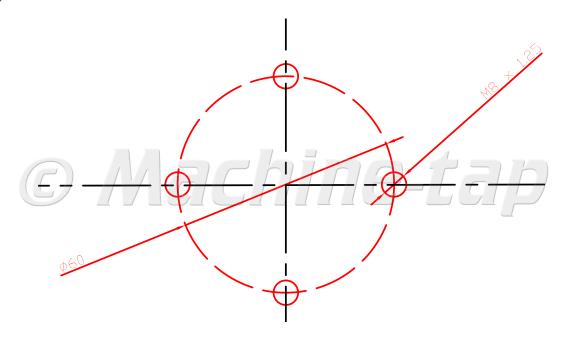


Introduction

Assembly



- Ensure the mounting base pivot is clean.
- Locate the radial arm to the mounting base.
- Ensure the top radial pivot is clean and apply a small amount of grease.
- Locate and slide the radial arm pivot on to the pantographic arm
- Ensure the motor clamp and pneumatic motor are clean. Slot the motor into the clamp and tighten (do not over tighten)





Setting the Angle of the Motor

The pneumatic motor can be set at any angle between the vertical and horizontal position. The motor has a locating peg for the vertical position and is secured by a threaded locking handle.

To adjust the angle simply loosen the locking handle, swivel to desired angle and tighten locking handle.



Operating the Pneumatic Motor



The pneumatic motor has a large finger operated paddle trigger and thumb operated reverse button. Pull the trigger to start forward rotation, hold both paddle trigger and reverse button for reverse rotation.



Air Supply and Lubrication

Regulator & Lubricator Installation

- Fit the mounting bracket to the regulator. Attach the regulator to the arm using the two fixing bolts.
- Fit the gauge with PTFE and tighten by hand. (do not over tighten)
- Screw the air fittings into the lubricator and use 10mm flexible air hose to connect to the motor.
- Remove the plug on the top of the lubricator and fill with high grade pneumatic oil (DIN51524 or ISO VG32). Do not fill above the maximum line and refit the plug.
- Fit main air feed to the regulator.

Adjusting Air Pressure



To adjust air pressure, pull the regulator knob upwards. Turn the knob clockwise to increase the pressure and turn the knob anti-clockwise to decrease the pressure.

Normal operating pressure for the pneumatic motor is between 6.5-8 BAR.

Any water/moisture collected by the regulator bowl must be drained regularly.

Setting Lubricator Oil Feed

The lubricator injects a mist of oil into the air line to lubricate the pneumatic motor. The amount of oil injected is controlled by an adjustment screw located on top of the sight glass.

With the air supply on and the motor operating the screw should be adjusted so that 3 to 5 drops of oil can be seen every 60 seconds through the lubricator sight glass.

Fill with high grade pneumatic oil (DIN51524 or ISO VG32). Do not fill above the maximum line and refit the plug.



The lubricator must be set up correctly, with suitable oil and oil level maintained, otherwise permanent damage to the pneumatic motor will occur.



TA-3-12

Tap Size	D1 - Tap Shank Diameter	Tap Square Size - (across flats)	ISO or BS Standard Required		
M3	3.15mm	2.5mm	ISO 529		
M4	4mm	3.15mm	ISO 529		
M5	5mm	4mm	ISO 529		
M6	6.3mm	5mm	ISO 529		
M8*	6.3mm	5mm	ISO 2283 BS949		
M10*	8mm	6.3mm	ISO 2283 BS949		
M12*	9mm	7.1mm	ISO 2283 BS949		

^{*} Require long shank machine taps

TA-3-12-ANSI

Thread	Standard	Dia.	Square
1/8.(#0-6)	ANSI	0.141	0.110
5/32.(#8)	ANSI	0.168	0.131
3/16.(#10)	ANSI	0.194	0.152
1/4.	ANSI	0.255	0.191
5/16.	ANSI	0.318	0.238
3/8.	ANSI	0.381	0.286
7/16.	ANSI	0.323	0.242
1/2.	ANSI	0.367	0.275

^{*} Require long shank machine taps



Torque Settings of Ratchet Collets (factory set)

Collet Size	M3	M4	M5	M6	M8	M10	M12
Clutch Torque	0.54	1.1	2.3	4.2	8.5	15	25
(nm)							

Torque Settings of ANSI (factory set)

Collet Size	1/8	5/32	3/16	1/4.	5/16.	3/8.	7/16.	1/2.
Clutch Torque (nm)	0.786	1.573	2.983	5.884	9.802	15.700	21.571	31.387

Inserting a Machine Tap into Collet

Step I;



Step 2;



Press the locking button on the front of the collet

Step 3;



Insert machine tap and locate the square of the tap with the square at the rear of the collet

Step 4;



Release the locking button



Inserting a Collet into the Chuck



Lift the black knurled locking ring on the chuck.

Locate the collet with the chuck.

Step 3;



Step 4;

Align the two drive pegs.

Release the black knurled locking ring on the chuck



Removing a Collet from the Chuck

Step I;

Step 2;



Grip the collet and knurled locking ring.

Lift black knurled locking ring on the chuck

Step 3;

Step 4;



The collet can be removed.



Maintenance

The lubricator must be set up correctly, with suitable oil and level maintained, otherwise permanent damage to the pneumatic motor will occur.

Any water/moisture collected by the regulator bowl must be drained regularly.

The pneumatic motor on the pantographic arm has a sealed gas strut counter balance, which can not be adjusted.





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ENTIOBZ

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