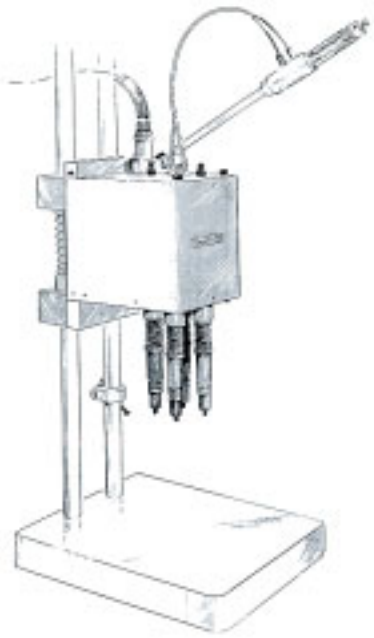


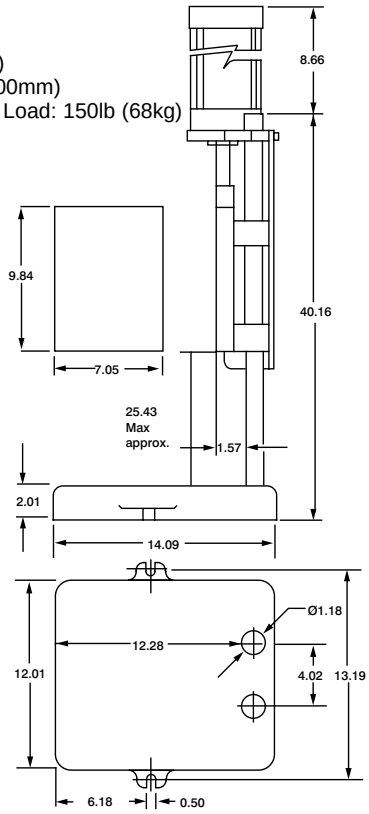
Lever operated version of the MC55 is available upon request.

Mounting Brackets can be made to order for the R55-S and MC55.

MC55 Cylinder-Operated Stand

With Linear Bearings

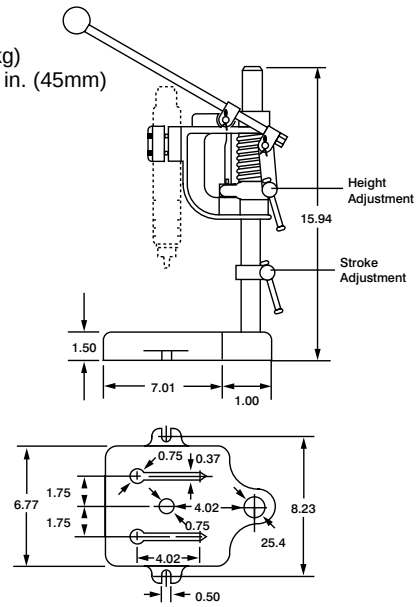
Part No. 902914
Weight: 70.4lb (32kg)
Max. Stroke: 4 in. (100mm)
Max. Mounting Plate Load: 150lb (68kg)



D54 Lever-Operated Stand

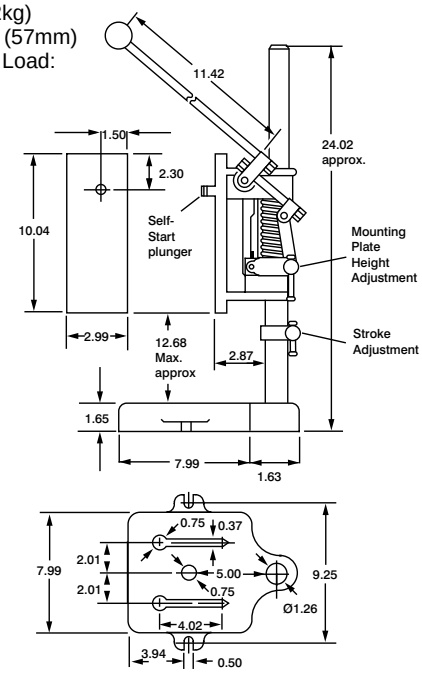
For SD, DM6, 2DM6 Motors

Part No. 901944
Weight: 15.4lb (7kg)
Max. Stroke: 1.77 in. (45mm)



R55-S Lever-Operated Stand

Part No. 903644
Weight: 24.9lb (11.32kg)
Max. Stroke: 2.24 in. (57mm)
Max. Mounting Plate Load:
13.2lb (6kg)

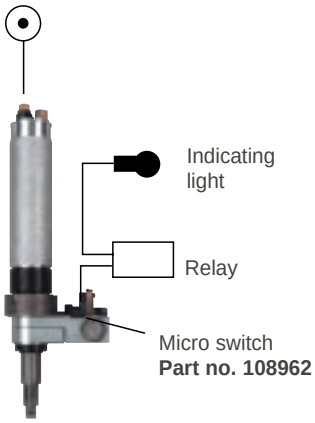


All dimensions are in inches calculated from measured millimeter values unless otherwise stated

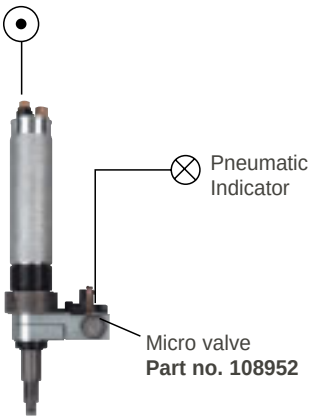
System 200/300 – Control Circuits

SYSTEM 200

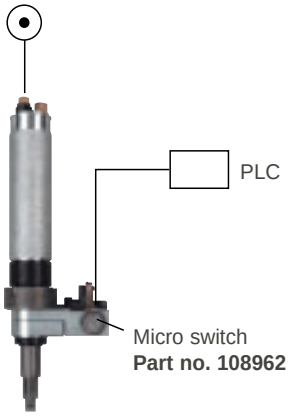
Indicating Light



Pneumatic Indicator

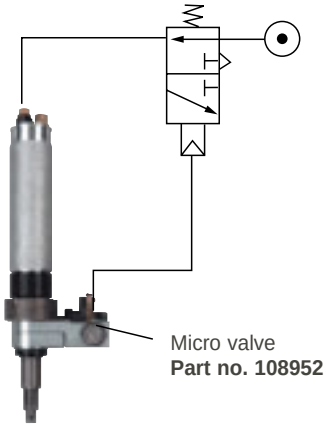


Signal to PLC

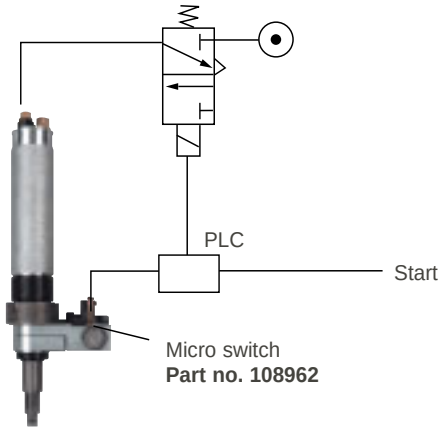


SYSTEM 300

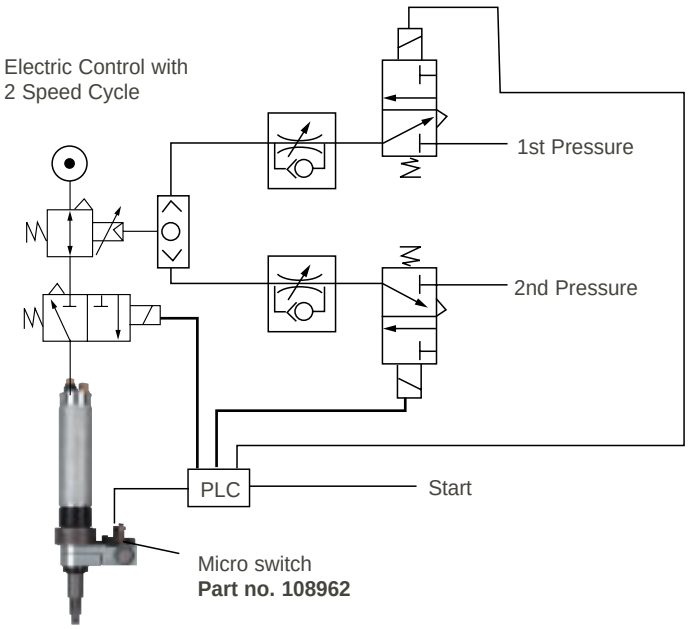
Pneumatic Control



Electric Control



Electric Control with
2 Speed Cycle



Notes:

- Ensure that any valves and tubing used with the torque motors have the appropriate air flow rating.
- Avoid using pneumatic lubricating oil in any control circuit.
- For high torques, it may be necessary to introduce a short pulse (<1 sec) of low pressure (<2 bar) air onto the reverse port to permit the socket to disengage from the fastener.

Chicago Pneumatic™

Torque Motor Selection

JOINT INTEGRITY

Average → High → Excellent

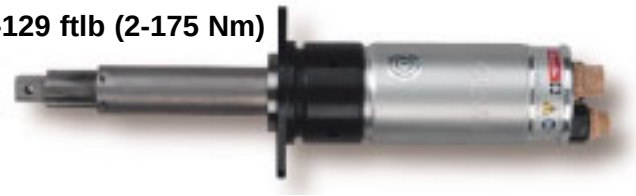
System 100 System 200	System 300	Torque Controlled Shut Off

The Desoutter range of Torque Motors includes 4 options of torque control.

Torque Controlled Shut Off – 3.5 inlb - 23.6 ftlb (0.4-32 Nm)

These tools feature the Desoutter Target Tork clutch that operates a shut-off valve built into the tool. The low friction rolling action of the clutch dogs together with the synchronous air shut-off can provide torque repeatability's greater than ±5% depending on the joint.

System 100 – Stall Torque – 1.5-129 ftlb (2-175 Nm)



With this system the motors are controlled by regulating the air pressure.

Stall torque is the best method of torque control for the majority of joints of a non critical nature and torque repeatability of ±10% can be readily achieved with a consistent air supply.

System 200 – Minimum Torque Indication (MTI) – 6.6-129 ft lb (9-175 Nm)

System 200 is used where a signal is required to show that the minimum torque required has been achieved.

The motor is mounted on a caliper which incorporates a torque reaction spring of a known value. The fixed part of the caliper is bolted to the base plate of the unit whilst the motor is mounted onto the moving part of the caliper.

When the motor stalls out the caliper closes and provided the minimum torque has been achieved, closes a valve or switch. The signal can be used to provide a visual indication, signal a PLC or other ancillary equipment.

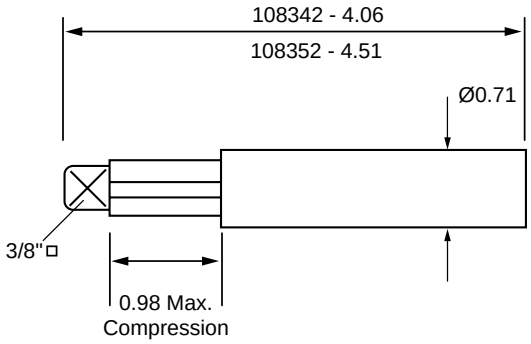
System 300 – Indicated Torque Control (ITC) – 6.6-129 ftlb (9-175 Nm)

When more accurate control of torque is required, outside the scope of stall torque, some means of motor shut-off must be used so the motors can be stopped when the torque has been achieved. Desoutter System 300 is designed to shut-off the motors when the desired torque has been reached. It uses the same caliper system as System 200, but the signal from the caliper is used to switch a shuttle valve, controlling air entry into the motor. The signal from the valve can also be used to operate other equipment.

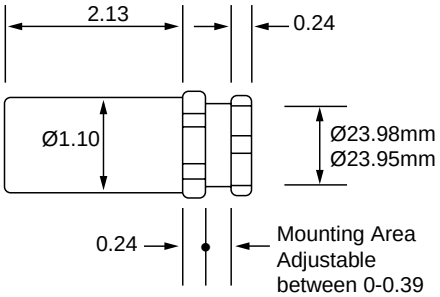
The ITC System is not subject to error due to air pressure fluctuation as motors can operate at higher pressure settings than would be used when operating the motor under stall conditions. This also means that faster cycle times can be achieved.

Torque Controlled Shut Off – Accessories

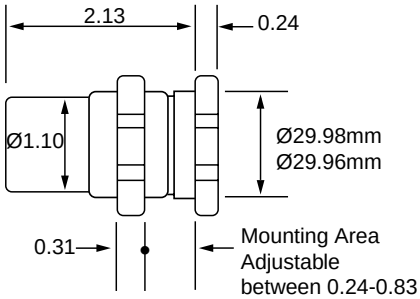
108342/
108352



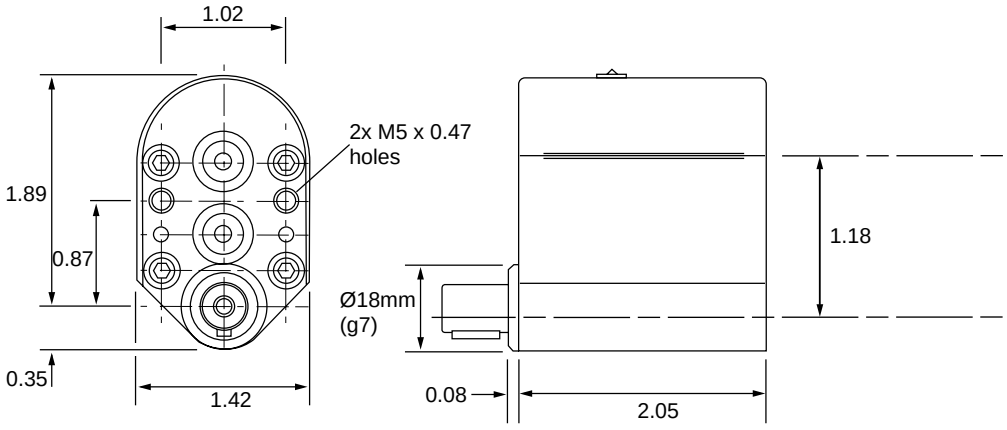
130742/108412



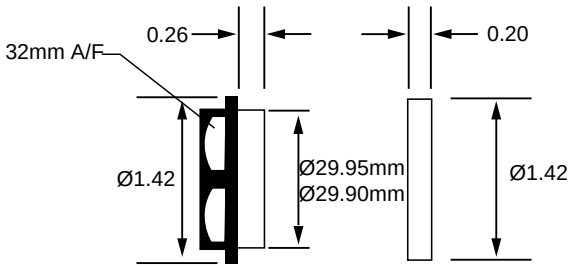
103752



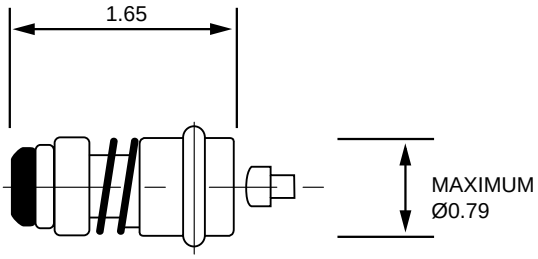
384993



103722/103732/108392



108322



All dimensions are in inches calculated from measured millimeter values unless otherwise stated

System 100 – DM Series

A

B

SPECIFICATION

PIC REF	TOOL TYPE	MOTOR ROTATION	AIR FLOW AT 6.3 BAR	AIR HOSE BORE	SOUND LEVEL	VIBRATION
			cfm	in.	dB(A)	ms^2
A	**DM6**	One Way	19.90	3/8"	76	<2.5
B	**2DM6**	Two Way	19.90	3/8"	73	<2.5

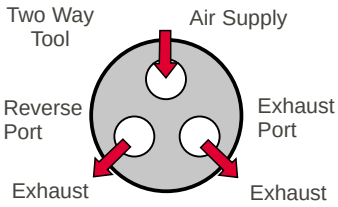
TORQUES (ft lb)

AIR PRESSURE		FREE SPEED				
bar	psi	290	390	620	980	1650
6	87	–	–	–	7.67	4.50
5	75	–	–	–	6.42	3.76
4	58	–	–	8.48	5.16	3.02
3	43	–	8.85	6.12	3.91	2.21
2	29	6.64	5.90	4.06	2.58	1.48

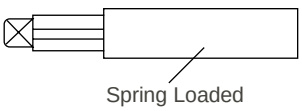
Maximum stall torque 8.9 ftlb
Data obtained from a lubricated air line
Torque figures are to be used as a guide only

Pneumatic Control

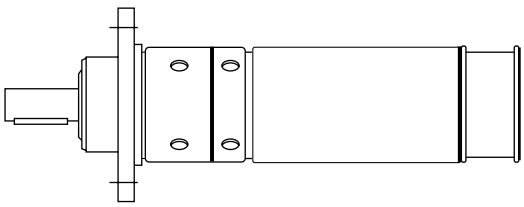
Tools will start as soon as air is supplied to the forward or reverse port.



HOW TO ORDER



Spring Loaded Shaft
Part No. 108352



TOOL TYPE	PART NUMBER	TOOL TYPE	PART NUMBER
DM6-290T	1454214	2DM6-290	1414164
DM6-390T	1454204	2DM6-390	1414244
DM6-620T	1454194	2DM6-620	1413774
DM6-980T	1454184	2DM6-980	1414084
DM6-1650T	1454304	2DM6-1650	1416604

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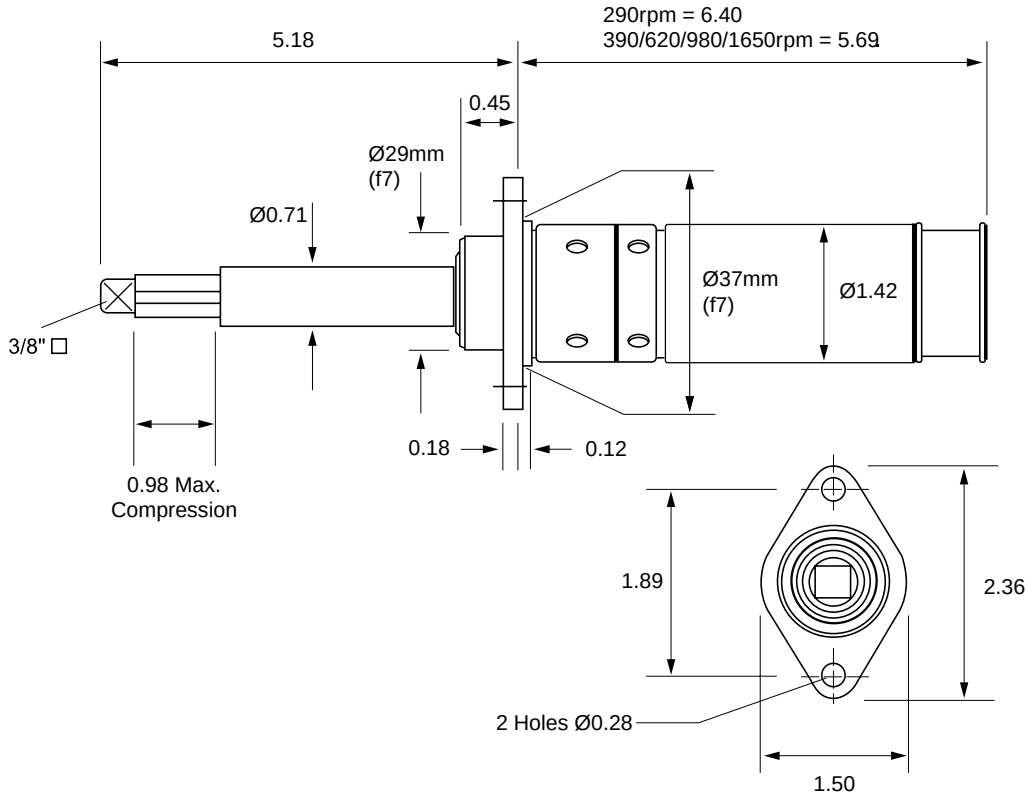
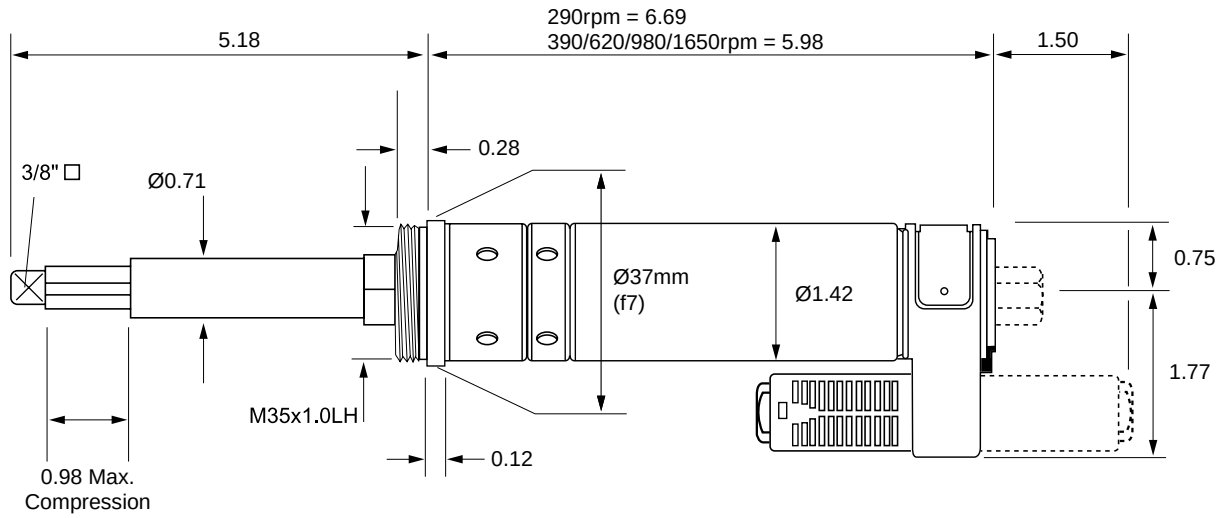
2DM6



DM6



All dimensions are in inches calculated from measured millimeter values unless otherwise stated

System 100 – HM Series

A

B

REMOTE START – TWO WAY *SPECIFICATION*

PIC REF	TOOL TYPE	AIR FLOW AT 6.3 BAR	AIR HOSE BORE	SOUND LEVEL	SOUND POWER LEVEL	VIBRATION
		cfm	in.	dB(A)	dB(A)	ms^2
A	**2HM5**	35.0	3/8"	89	100	<2.5
B	**2HM5** with Offset Head	35.0	3/8"	89	100	<2.5

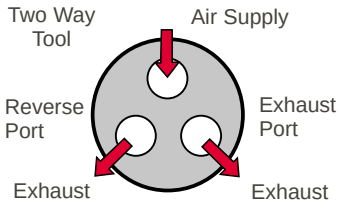
REMOTE START – TWO WAY *TORQUES (ft lb)*

AIR PRESSURE		FREE SPEED			
bar	psi	150	350	550	950
6	87	–	–	30.24	18.44
5	75	–	36.88	24.34	15.49
4	58	–	29.50	19.18	11.80
3	43	–	22.13	14.75	8.85
2	29	36.88	15.49	10.33	6.64

Maximum stall torque 37.6 ftlb
Data obtained from a lubricated air line
Torque figures are to be used as a guide only

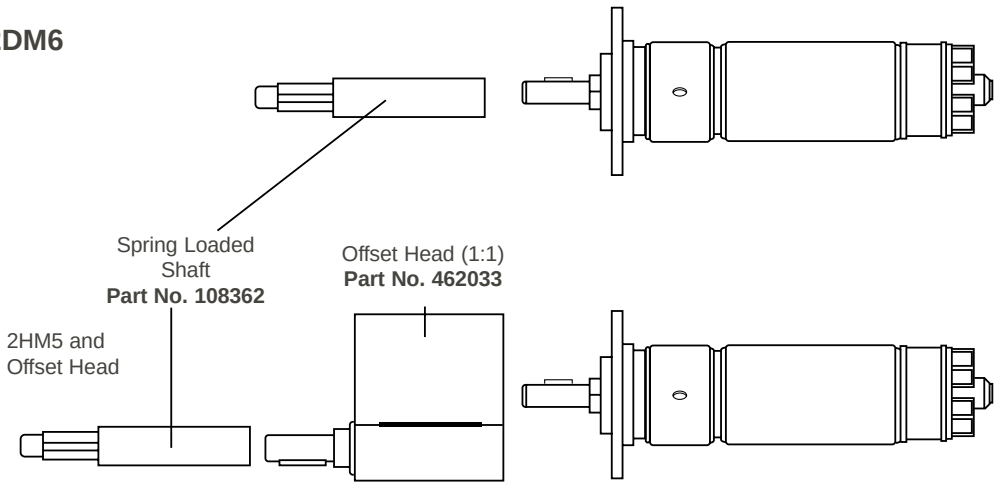
Pneumatic Control

Tools will start as soon as air is supplied to the forward or reverse port.



HOW TO ORDER

2DM6



TOOL TYPE	PART NUMBER
2HM5-150	1309284
2HM5-350	1309444
2HM5-550	1309524
2HM5-950	1309604

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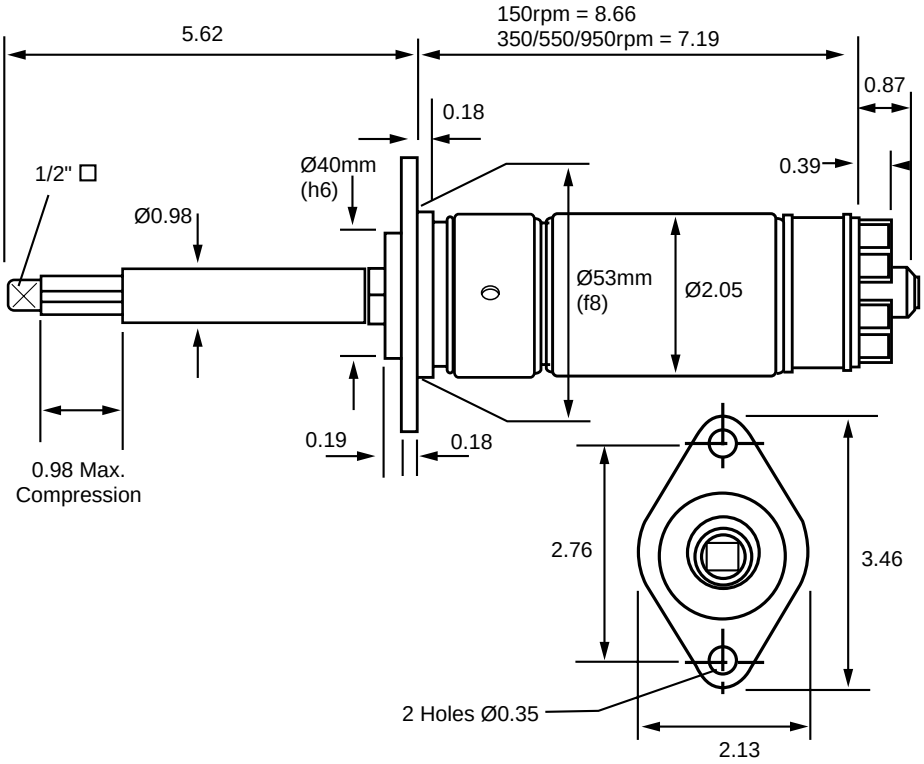
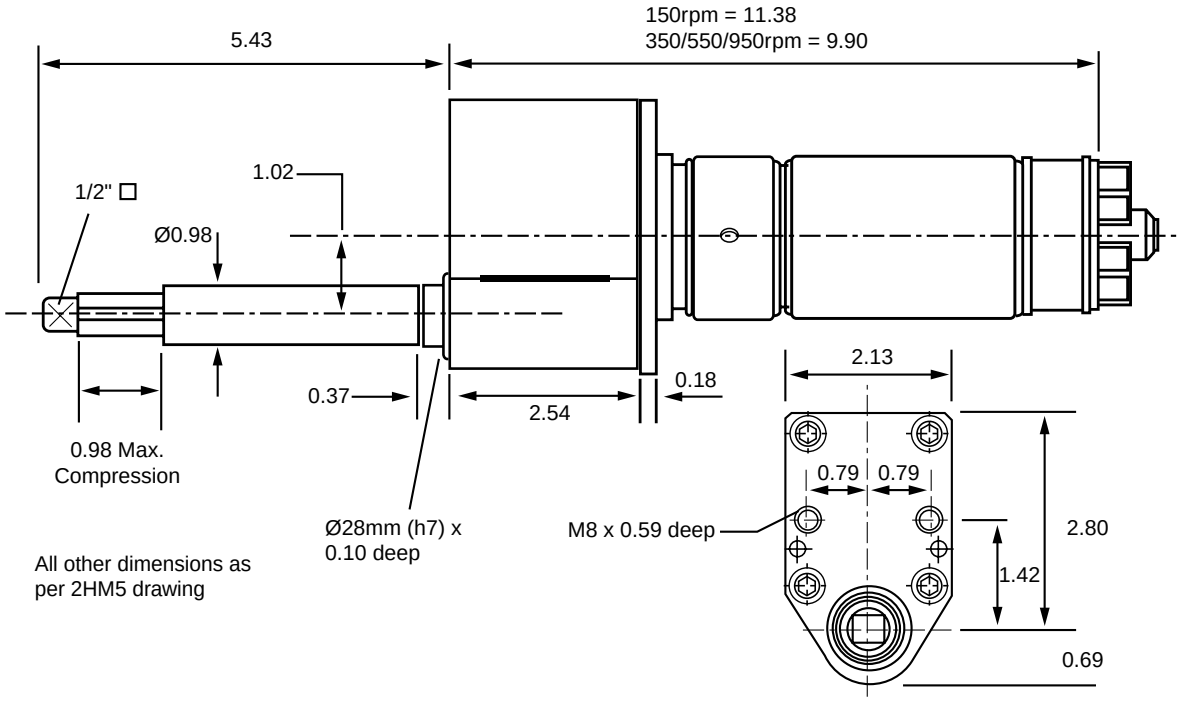
2HM5



2HM5 and Offset Head



All dimensions are in inches calculated from measured millimeter values unless otherwise stated

System 100 – 2HM5-HT Series

A

REMOTE START – TWO WAY

PICTURE REF	TOOL TYPE	PART NUMBER	FREE SPEED[1]	TORQUE RANGE	AIR FLOW[1]	AIR HOSE BORE	AIR INLET	SOUND LEVEL	SOUND POWER LEVEL	VIBRATION
			r/min	ft lb	cfm	in.	NPT	dB(A)	dB(A)	ms^{-2}
A	**2HM5-HT-230**	**1462654**	230	22-62	35.0	3/8"	1/4"	89	100	<2.5
A	**2HM5-HT-130**	**1462644**	130	36-103	35.0	3/8"	1/4"	89	100	<2.5
A	**2HM5-HT-80**	**1462634**	80	55-129	35.0	3/8"	1/4"	89	100	<2.5

(1) Values taken at 6.3 bar inlet pressure

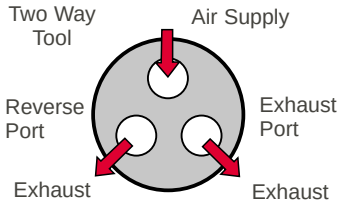
TORQUES (ft lb)

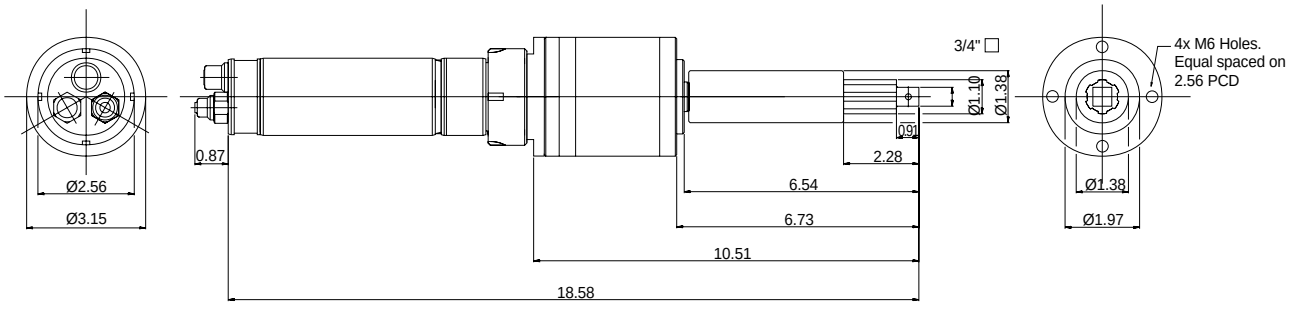
AIR PRESSURE		FREE SPEED		
bar	psi	80	130	230
6	87	–	103.26	62.69
5	75	125.39	84.82	51.63
4	58	99.57	66.38	40.57
3	43	73.76	51.63	33.19
2	29	55.32	36.88	22.13

Maximum stall torque 129 ftlb
Data obtained from a lubricated air line
Torque figures are to be used as a guide only

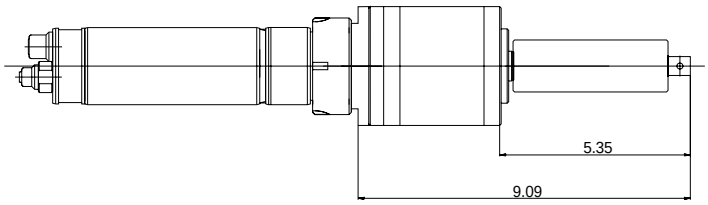
Pneumatic Control

Tools will start as soon as air is supplied to the forward or reverse port.





Collapsed View



Weight 12.54lb (5.7kg)

All dimensions are in inches calculated from measured millimeter values unless otherwise stated

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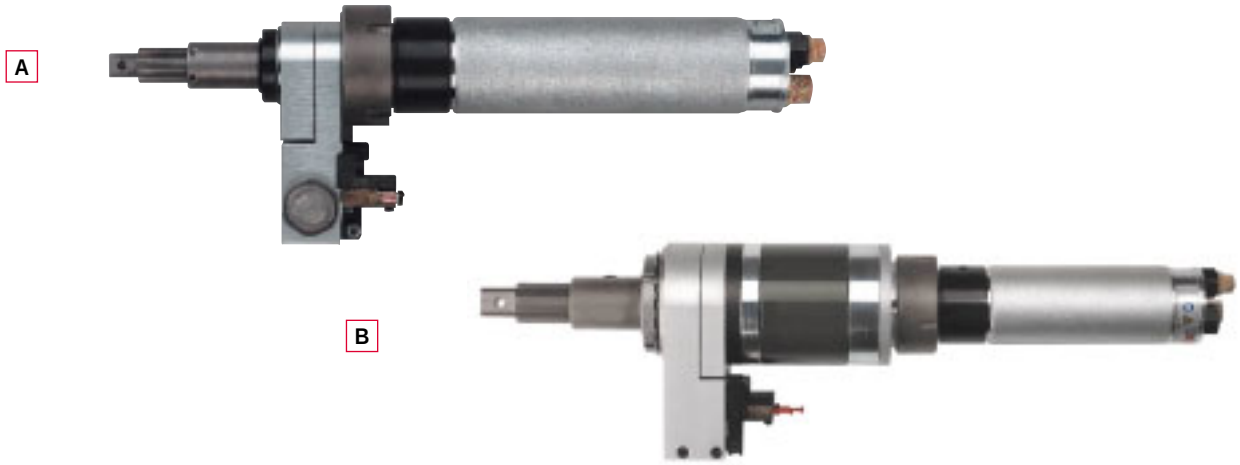


REMOTE START – ONE WAY

PICTURE REF	TOOL TYPE	PART NUMBER	FREE SPEED[1]	TORQUE RANGE	AIR FLOW[1]	AIR HOSE BORE	AIR INLET	SOUND LEVEL	SOUND POWER LEVEL	VIBRATION
			r/min	ft lb	cfm	in.	NPT	dB(A)	dB(A)	ms^{-2}
A	**2HM5-550-MTI/ITC**	**1462624**	550	11.1-30.2	35.0	3/8"	1/4"	89	100	<2.5
A	**2HM5-350-MTI/ITC**	**1462614**	350	15.5-37.6	35.0	3/8"	1/4"	89	100	<2.5
A	**2HM5-150-MTI/ITC**	**1462604**	150	33.2-37.6	35.0	3/8"	1/4"	89	100	<2.5
B	**2HM5-HT-230-MTI/ITC**	**1462684**	230	22.0-62.0	35.0	3/8"	1/4"	89	100	<2.5
B	**2HM5-HT-130-MTI/ITC**	**1462674**	130	36.0-103.0	35.0	3/8"	1/4"	89	100	<2.5
B	**2HM5-HT-80-MTI/ITC**	**1462664**	80	55.0-129.0	35.0	3/8"	1/4"	89	100	<2.5

[1] Values taken at 6.3 bar inlet pressure

2HM5 *TORQUES (ft lb)*

AIR PRESSURE		FREE SPEED		
bar	psi	150	350	550
6	87	–	–	30.24
5	75	–	36.88	24.34
4	58	–	29.50	19.18
3	43	–	22.13	14.75
2	29	36.88	15.49	10.33

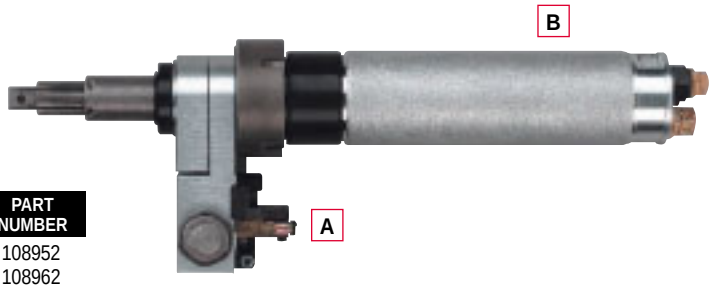
Maximum stall torque 37.6 ftlb
Data obtained from a lubricated air line
Torque figures are to be used as a guide only

2HM5-HT *TORQUES (ft lb)*

AIR PRESSURE		FREE SPEED		
bar	psi	80	130	230
6	87	–	103.26	62.69
5	75	125.39	84.82	51.63
4	58	99.57	66.38	40.57
3	43	73.76	51.63	33.19
2	29	55.32	36.88	22.13

Maximum stall torque 129 ftlb

HOW TO ORDER

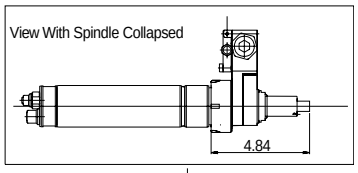


PICTURE REF	SWITCH/VALVE	PART NUMBER
A	Pneumatic	108952
A	Electric	108962

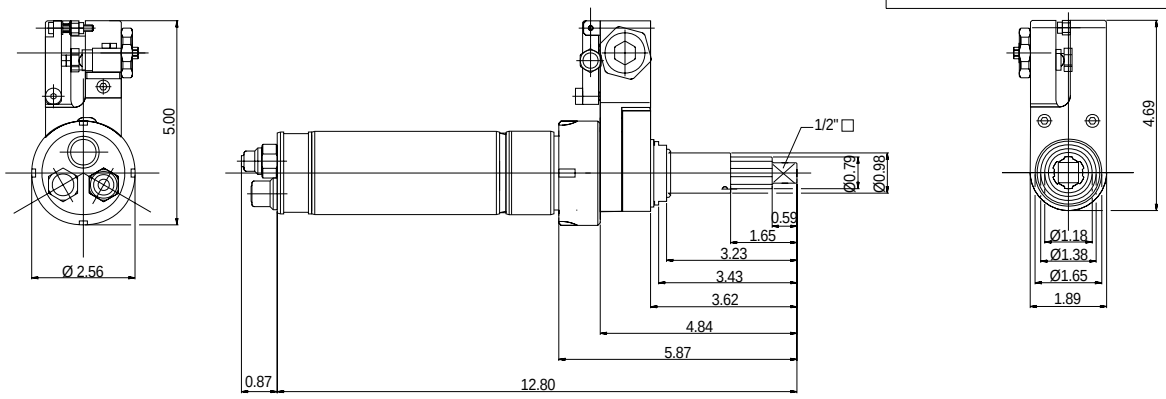
PICTURE REF	TOOL TYPE	PART NUMBER
B	2HM5-550-MTI/ITC	1462624
B	2HM5-350-MTI/ITC	1462614
B	2HM5-150-MTI/ITC	1462604
B	2HM5-HT-230-MTI/ITC	1462684
B	2HM5-HT-130-MTI/ITC	1462674
B	2HM5-HT-80-MTI/ITC	1462664

2HM5-MTI/ITC Series – Dimensions

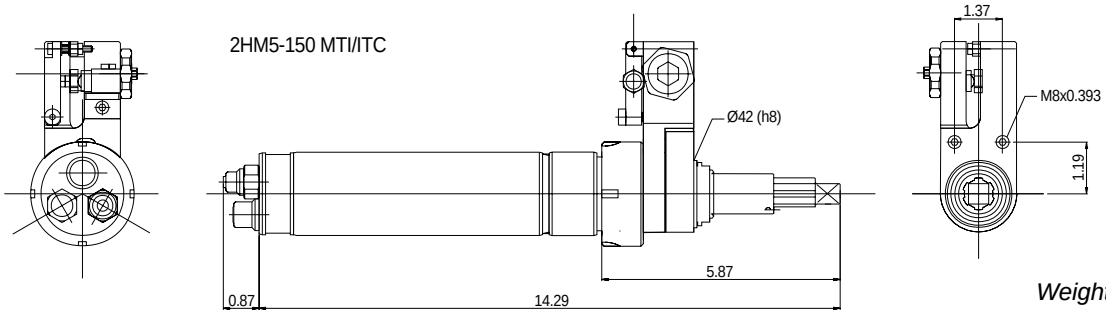
2HM5-MTI/ITC



2HM5-350/550MTI/ITC

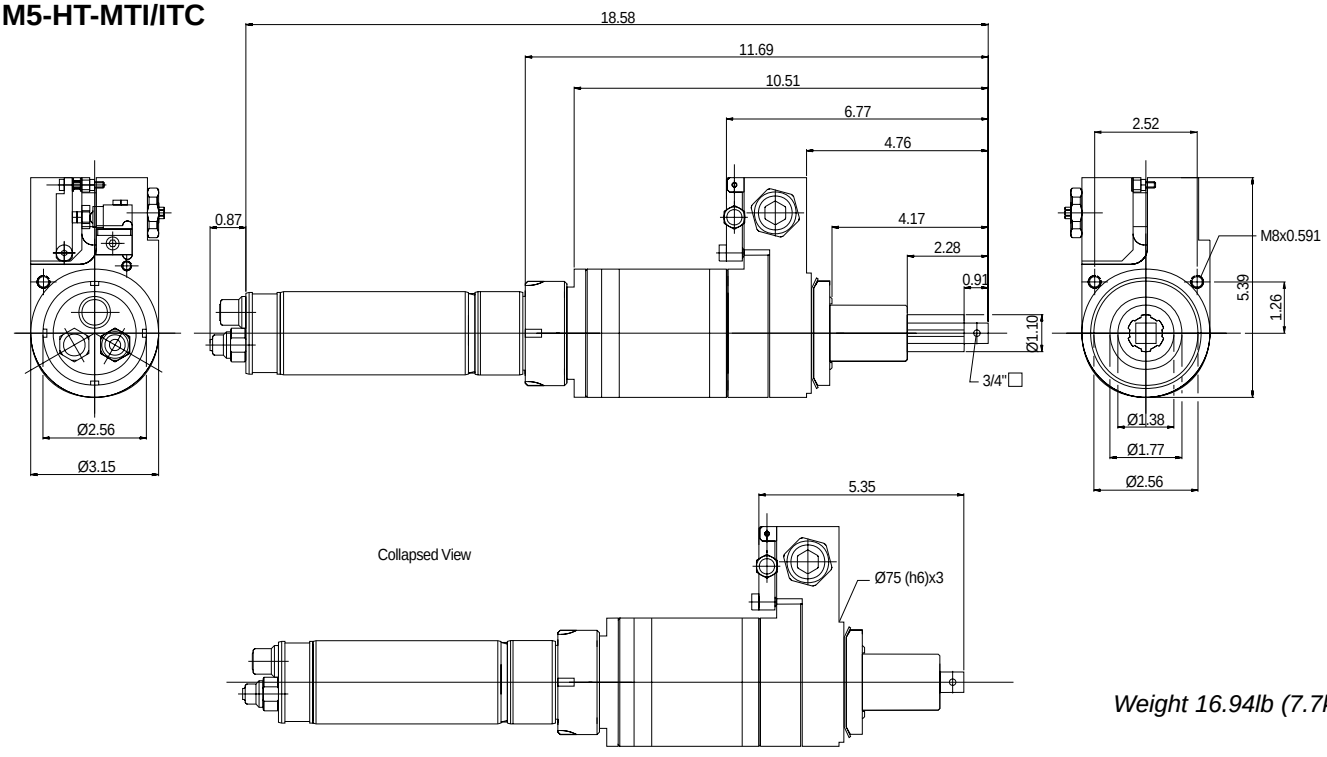


2HM5-150 MTI/ITC



Weight 7.48lb (3.4kg)

2HM5-HT-MTI/ITC



Collapsed View

Weight 16.94lb (7.7kg)

All dimensions are in inches calculated from measured millimeter values unless otherwise stated