

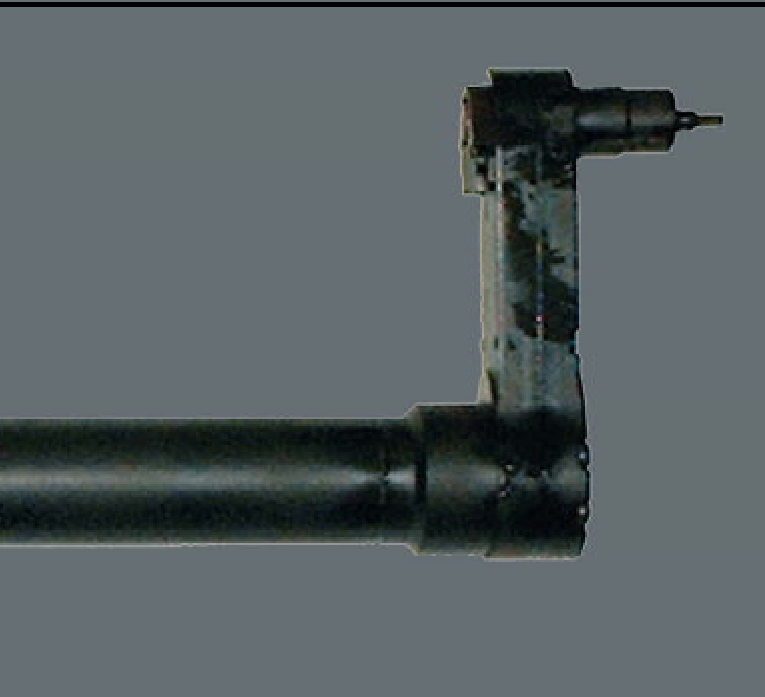


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Industrial Tools



**Frangible Collar
Fastener Installation Tools**

Aerospace Fastener Installation Tools

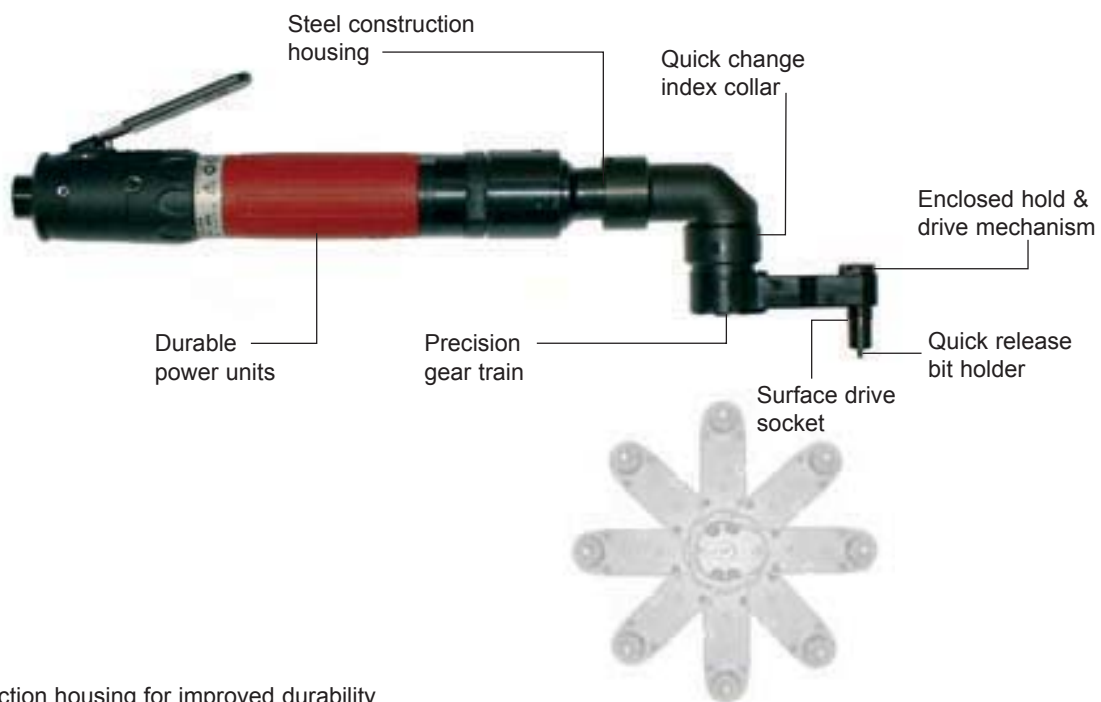
Introducing the new Frangible Collar 'Hold & Drive' Fastener Installation Tools from Chicago Pneumatic.

Through the combination of superior ergonomics & durability of the Chicago Pneumatic power tools coupled with the accuracy, efficiency & durability of the offset geared heads you can be confident of a quality fastener installation.

A wide range of product configurations ensure selection of the tool best suited for the application.

Features:

Frangible Collar Tool



- Steel construction housing for improved durability
- Quick change index collar allows radial orientation of the offset head for ease of access to the fastener
- Precision gear train provides effective power transmission & control
- One piece construction of output gear & surface drive socket minimize backlash/torque inaccuracies through precision gear train
- Surface drive socket enables quicker socket location & release
- Enclosed hold & drive mechanism provides protection against inadvertent damage to tool and structure
- Rotary reverse actuator accommodates dis-assembly of 'hold & drive' fastenings

Ergonomics & Operator Comfort

- High Power to Weight ratio
- Lightweight for ease of handling
- Available in pistol grip form and 90° & 110° angle head configurations

Reliability

- Modular construction provides wide selection, flexibility & ease of servicing of product

Aerospace Fastener Installation Tools

Tool Selection Criteria

To select the correct tool for the application consideration is given to the following:

- Torque required to shear frangible collar / fastener collar torque
- Access to fastener
- Tool configuration:

90° Angle head

– generally used for vertical fastening



110° Angle head

– used for difficult access applications



Pistol grip

– generally used for horizontal fastening



- Collar hexagon size
- Socket length
- Hold bit size

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Frangible Collar Fastener Installation Tools



90° offset angle head

MODEL	OUTPUT SPEED		MAX TORQUE OUTPUT	
	RPM	Nm	in lbs	
SD220-LR180-D90-1-XXXX	135	9.5	84	
SD220-LR180-D90-2-XXXX	135	9.5	84	
SD220-LR180-D90-3-XXXX	135	18	159	
SD220-LR180-D90-4-XXXX	135	11	97	
SD220-LR180-D90-5-XXXX	135	16	142	
F414-L-240-D90-6-XXXX	180	20	177	



110° offset angle head

MODEL	OUTPUT SPEED		MAX TORQUE OUTPUT	
	RPM	Nm	in lbs	
SD220-LR180-D110-1-XXXX	150	9.5	84	
SD220-LR180-D110-2-XXXX	150	9.5	84	
SD220-LR180-D110-3-XXXX	150	18	159	
SD220-LR180-D110-4-XXXX	150	11	97	
SD220-LR180-D110-5-XXXX	150	16	142	
F414-L-240-D110-6-XXXX	200	20	177	

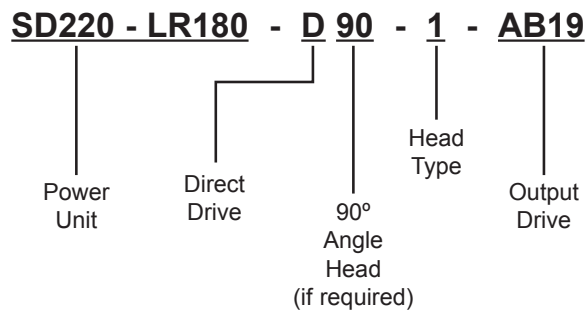
Offset angle head - pistol grip mount

MODEL	OUTPUT SPEED		MAX TORQUE OUTPUT	
	RPM	Nm	in lbs	
SDP220-T180-D-1-XXXX	180	9.5	84	
SDP220-T180-D-2-XXXX	180	9.5	84	
SDP220-T180-D-3-XXXX	180	18	159	
SDP220-T180-D-4-XXXX	180	11	97	
SDP220-T180-D-5-XXXX	180	16	142	
DR750-P-400-D-6-XXXX	400	28	248	

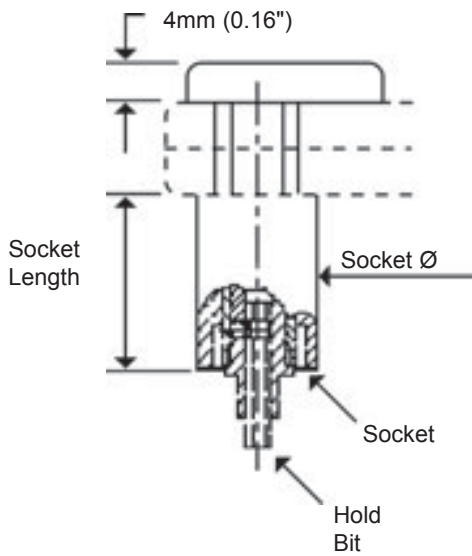


To order the correct tool please specify as follows:

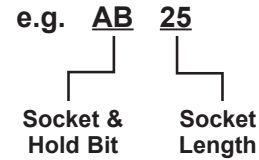
(select output drive code from page 5)



Output Drives



Select output drive code from matrices below & specify socket length:



- AB = 7/32" SFD socket size with 5/64" A/F Hold Bit
- 25 = Socket Length 25 mm

Note: all output drives are available with Socket Length of 19mm, 25mm or 50mm - specify as 19, 25 or 50

Hold Bit Stroke Length: 9mm for 19mm socket length
11mm for 25mm socket length
17mm for 50mm socket length

Head Type 1 & 2

Socket Ø11mm (0.43")

SFD SOCKET	HOLD BIT A/F	
	1/16"	5/64"
7/32"	AA	AB
1/4"	BA	BB
9/32"	CA	CB
5/16"	DA	DB

Head Type 4

Socket Ø13mm (0.51")

SFD SOCKET	HOLD BIT A/F			
	1/16"	5/64"	3/32"	1/8"
9/32"	CA	CB	-	CD
5/16"	DA	DB	DC	-
11/32"	EA	EB	EC	-
3/8"	-	FB	FC	FD

Head Type 3 & 5

Socket Ø13mm (0.51")

SFD SOCKET	HOLD BIT A/F			
	1/16"	5/64"	3/32"	1/8"
9/32"	CA	BC	-	-
5/16"	DA	BD	CD	-
11/32"	EA	BE	CE	-
3/8"	-	BF	CF	DF

Head Type 6

Socket Ø17mm (0.67")

SFD SOCKET	HOLD BIT A/F			
	5/64"	3/32"	1/8"	5/32"
3/8"	FB	FC	FD	-
7/16"	-	GC	GD	GE
1/2"	-	-	HD	HE

Accessories



CONSUMABLE ACCESSORIES		
ITEM		PART NO.
1	Hold Bit 1/16" A/F	2050113822
1	Hold Bit 5/64" A/F	2050113832
1	Hold Bit 3/32" A/F	2050113842
1	Hold Bit 1/8" A/F	2050113852
1	Hold Bit 5/32" A/F	2050113862



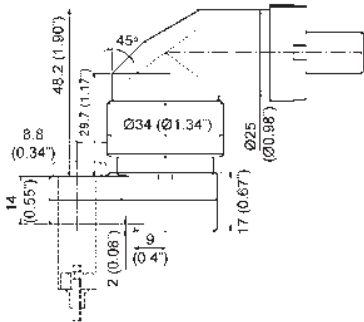
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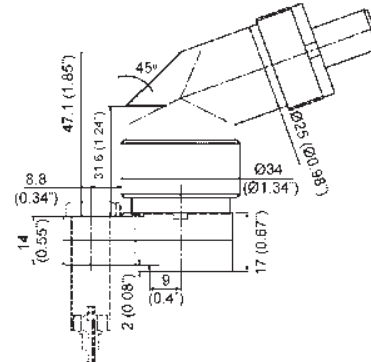
Technical Data - Offset Head Dimensions

Head Type 1:

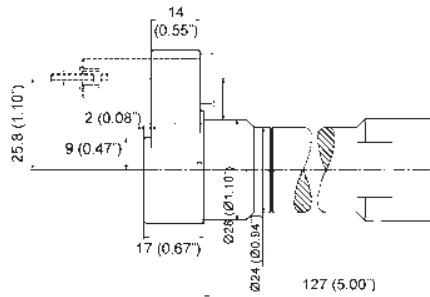
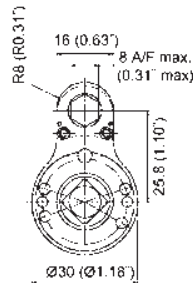
Angle Head mount - 90°



Angle Head mount - 110°

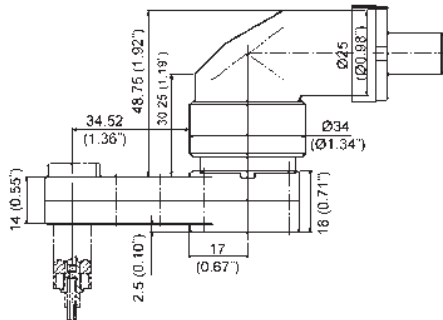


Pistol Grip mount

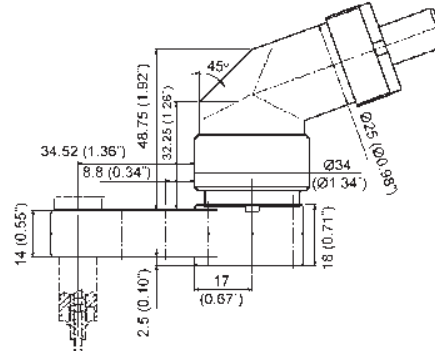


Head Type 2:

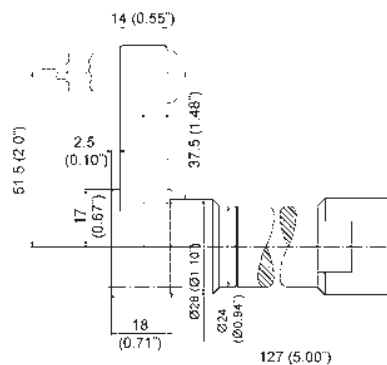
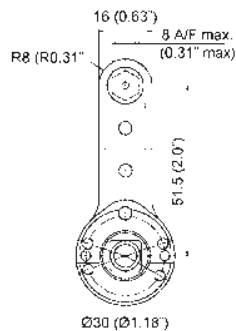
Angle Head mount - 90°



Angle Head mount - 110°



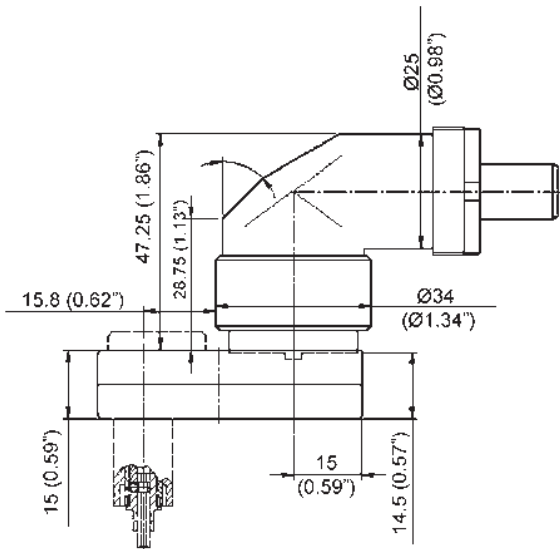
Pistol Grip mount



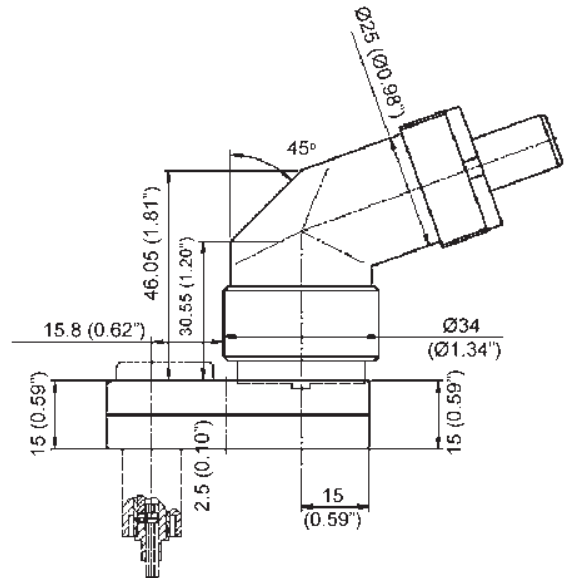
Technical Data - Offset Head Dimensions

Head Type 3:

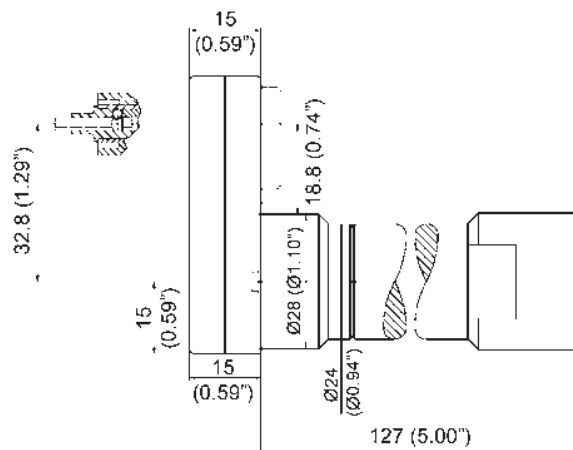
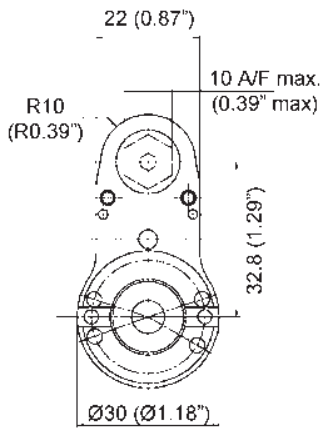
Angle Head mount - 90°



Angle Head mount - 110°



Pistol Grip mount



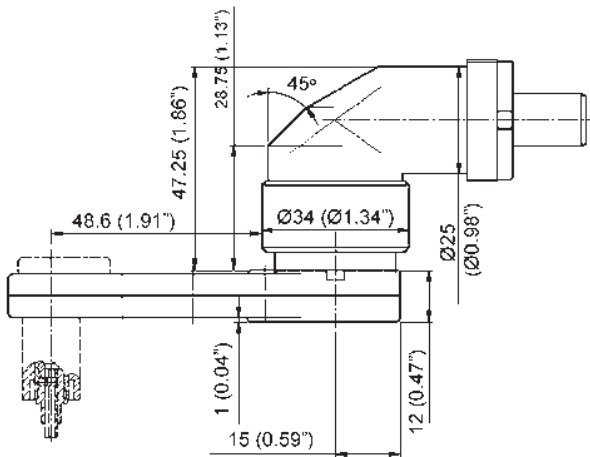
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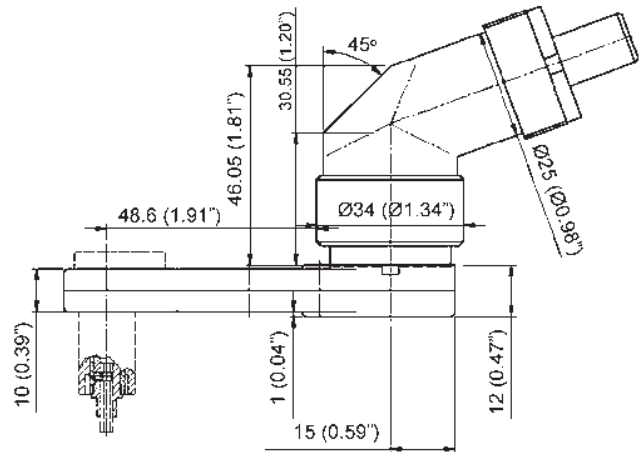
Technical Data - Offset Head Dimensions

Head Type 4:

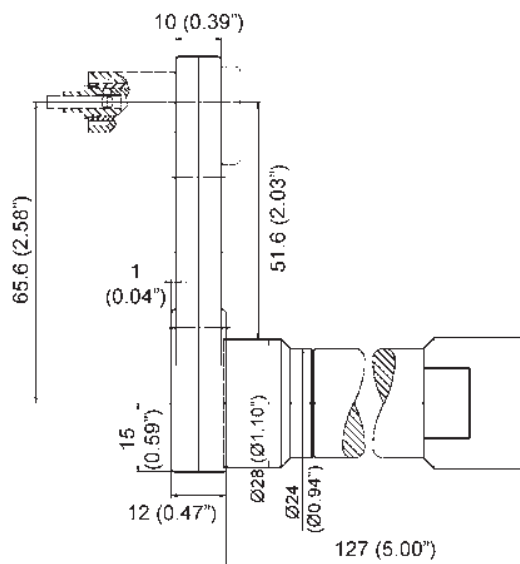
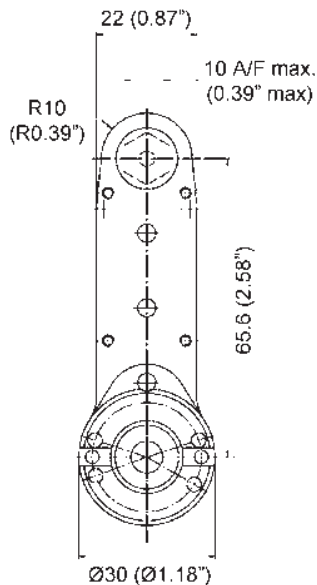
Angle Head mount - 90°



Angle Head mount - 110°



Pistol Grip mount

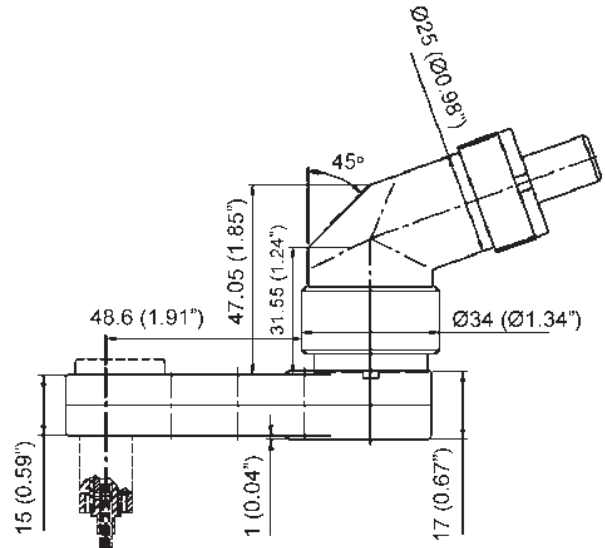
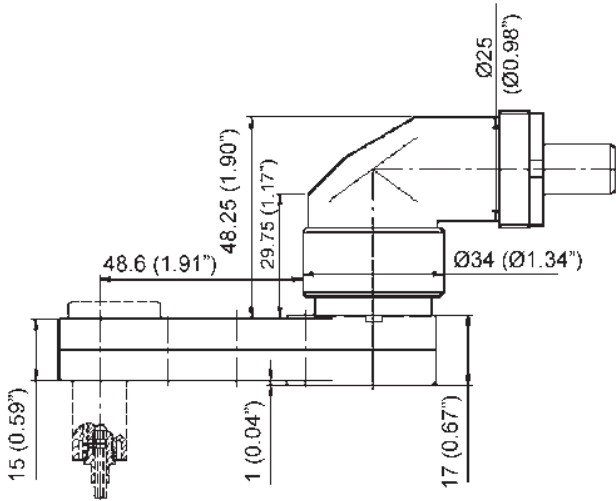


Technical Data - Offset Head Dimensions

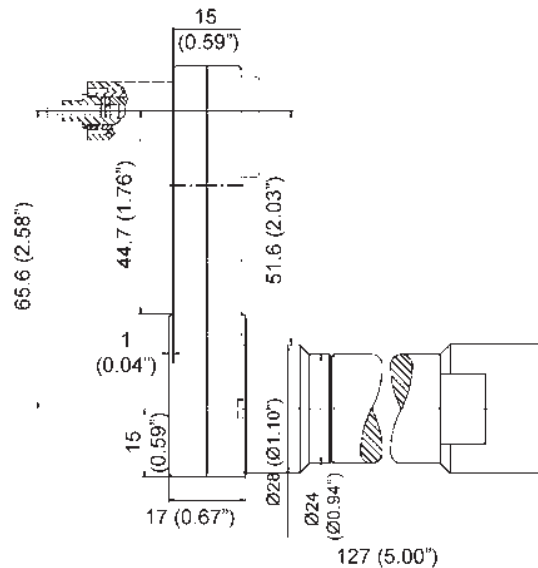
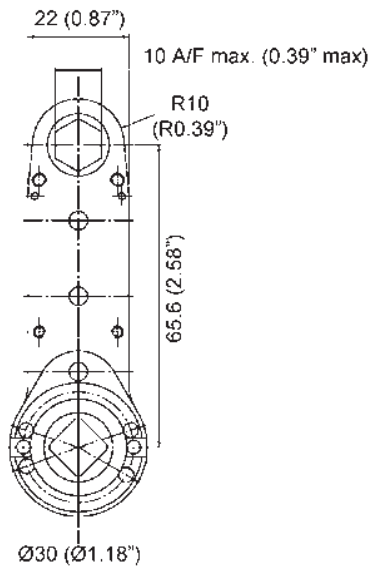
Head Type 5:

Angle Head mount - 90°

Angle Head mount - 110°



Pistol Grip mount



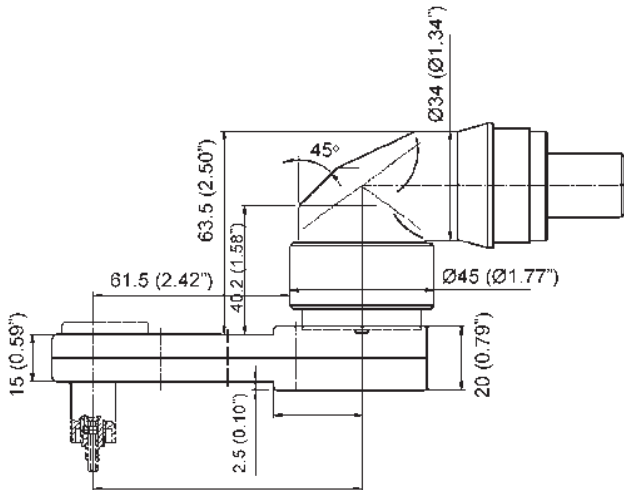
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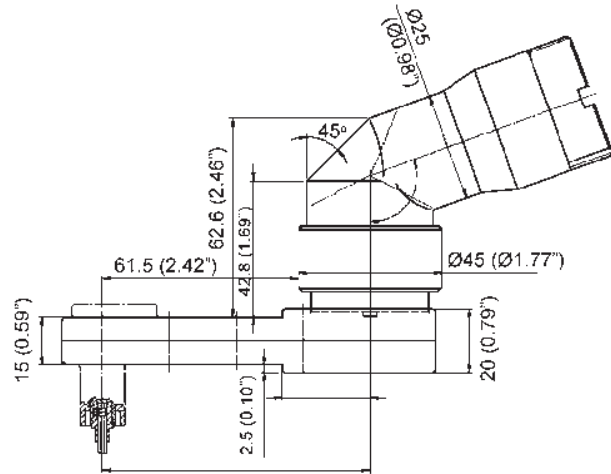
Technical Data - Offset Head Dimensions

Head Type 6:

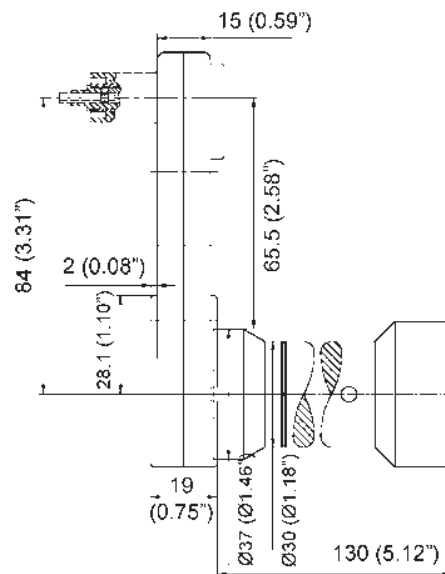
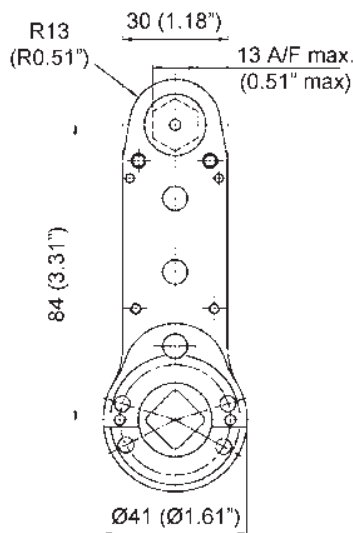
Angle Head mount - 90°



Angle Head mount - 110°



Pistol Grip mount

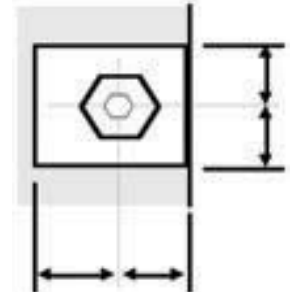
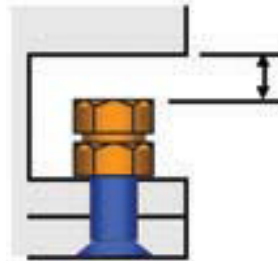


Custom Solutions

Should your application demand a head that is not shown within the standard range then please complete the details below and return it to your local Chicago pneumatic support centre. Alternatively, contact your local Chicago pneumatic representative.

1. Type of Offset Head mount

- 90° Angle Head
- 110° Angle Head
- Pistol Grip



2. Type of fastener

- Frangible Collar
- Torque Controlled
- 'Hold & Drive'

3. Fastening Torque

4. Collar Hexagon Size 'A' (or form, if not hex.)

5. Hold Bit Hexagon Size 'B'

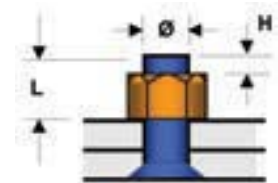


6. For Torque Controlled 'Hold & Drive' final setting dimensions

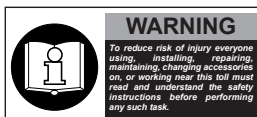
'L'

'H'

'Ø'



Safety Instructions



All tools are designed to operate at a line pressure of 6.3 bar +/- 0.15bar in accordance with ISO2787.

Sound levels +/- 3dB(A)* and vibration values* measured in accordance with ISO15744 and ISO8662, respectively.

*These declared values were obtained by laboratory testing in compliance with stated standards and are not adequate for risk assessments. Values measured in individual work places may be higher than the declared values. The actual exposure values and risk

of harm experienced by an individual are unique and depend upon the way the user works, the work piece and the work station design, as well as upon the exposure time and the physical condition of the user. We Chicago Pneumatic cannot be held liable for the consequences of using declared values, instead of values reflecting the actual exposure, in an individual risk assessment in a work place situation over which we have no control.

Tools are CE marked to comply with European Machinery Directive.

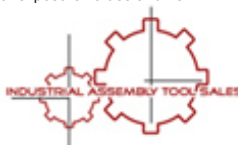
Specifications subject to change without prior notice.

Further occupational health and safety information can be obtained from the following web sites

<http://www.osha.gov> (USA)

<http://europe.osha.eu.int> (Europe).

For further information on the general safety instructions for the operation of power tools please refer to the Industrial Tools Catalogue 2050484063



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