STANLEY
Engineered Fastening

Driving Fastener Access

With Specialty Nutrunner Outputs

TIME TESTED SOLUTIONS

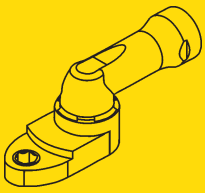
Four Specialty Output Options

Plus many other output configurations such as inline, right angle, and straight and offset retractable heads drive precision and productivity in complex applications.

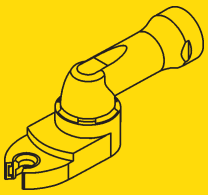
- Existing Specialty Solutions from 3 Nm to over 1250 Nm
- Leveraging Solutions and Experience Generated Across More than 50 Years
- Tool and Output Design from One Source Eliminates Adapters

HOLD & DRIVE
Torque Range:
11 - 380 Nm

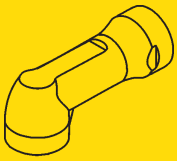
CROWFOOT
Torque Range:
4 - 1250 Nm



TUBENUT
Torque Range:
4 - 650 Nm



FLUSH ANGLE
Torque Range:
3 - 400 Nm

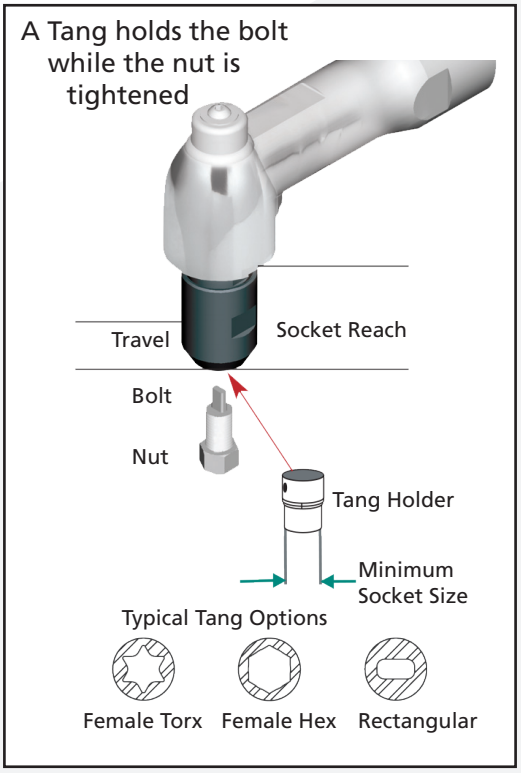


STANLEY Assembly Technologies designs and manufactures a complete range of threaded assembly tools with integrated outputs. From flush angle tools maximizing head space in vertically challenged areas, and offset inline tools for tight bolt patterns, to specialty tubenut tools, by designing and manufacturing both the tool and output, STANLEY produces a superior tool, custom fit to your application. Let us show you why our customers have chosen STANLEY as partner for over 5 decades of precision fastening.

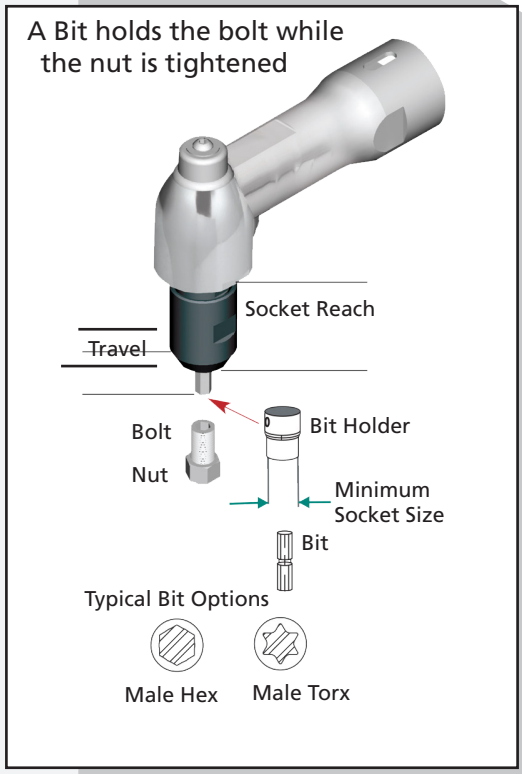
HOLD AND DRIVE

Hold the Bolt - Drive the Nut

Bolt with Tang



Bolt with Recess



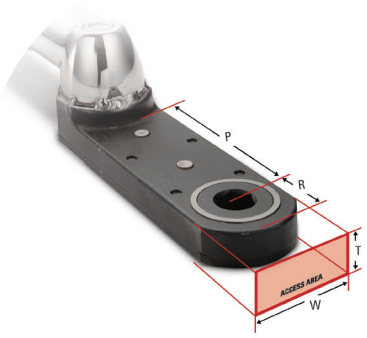
Output Dimensions

Output	Travel	Max Rating		"R" Radius		"H" Height		Minimum Reach	
	in	Nm	ftlb	mm	in	mm	in	mm	in
H18	1	46	34	17.5	0.69	109	4.3	52	2.0
H18	2	46	34	17.5	0.69	142	5.6	85	3.3
H22	1	110	81	22	0.88	118	4.7	51	2.0
H22	2	110	81	22	0.88	144	5.7	81	3.2
H26	1	210	155	26	1.02	114	4.6	43	1.7
H26	2	210	155	26	1.02	140	5.6	73	2.9
H32	1	380	281	32	1.25	155	6.1	60	2.4
H32	2	380	281	32	1.25	180	7.1	87	3.4

CROWFOOT

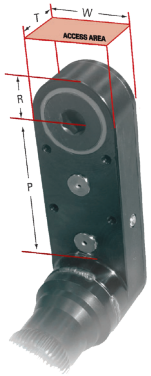
Hundreds of Crowfoot and Tubenut Options

Angle crowfoot outputs fit most applications.



Inline Crowfoot outputs also available.

Vertical crowfoot outputs fit applications where the fastener is parallel to the access direction.

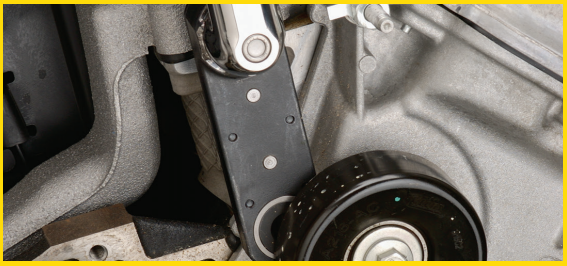


Crowfoot dimensions are derived from the application's access area dimensions.

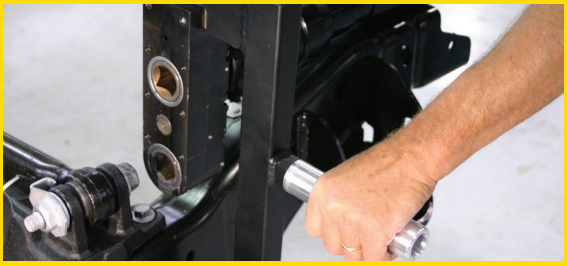
Output Dimensions

Output	Type	Max Rating		Max Hex Size		"W" Width		"R" Nose Radius		"T" Thickness		"P" Reach	
		Nm	ftlb	mm	in	mm	in	mm	in	mm	in	mm	in
C69	Angle	27	20	13	0.51	32	1.25	13.5	0.53	16	0.63	47	1.86
C379	Inline	32	22	13	0.51	32	1.25	13.5	0.53	16	0.63	45	1.76
C82	Verticle	24	17.7	13	0.51	32	1.25	13	0.51	14	0.55	47	1.86

These are examples of the many crowfoot tools available.



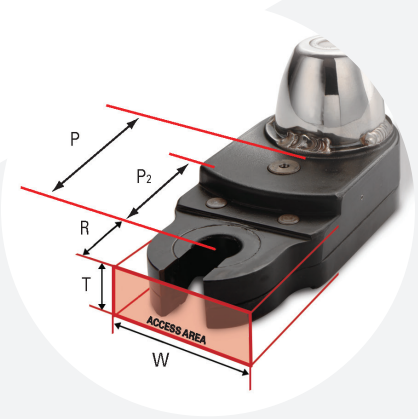
Crowfoot nutrunners can access fasteners in unique, hard to access spaces. Tightening torque can range from 4 Nm to over 1250 Nm.



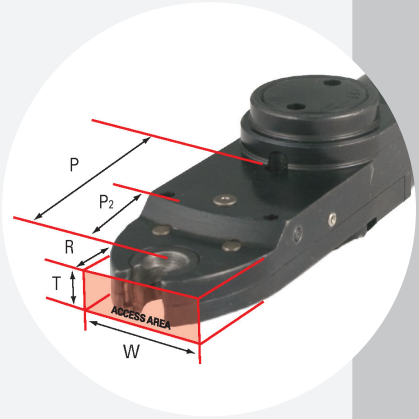
Fixtured tools help to improve ergonomics and productivity.

Drive Fasteners in Hard to Access Spaces

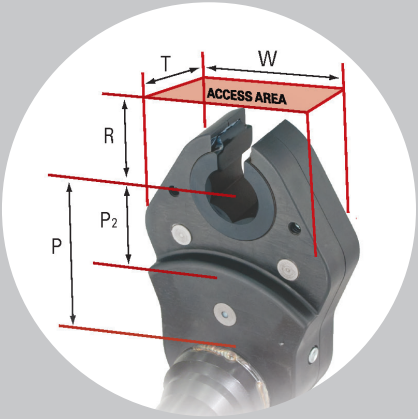
Angle tubenut outputs fit most applications.



Inline outputs lower the tool height and weight as compared to angle versions.



Vertical tubenut outputs fit applications where the fastener is parallel to the access direction.

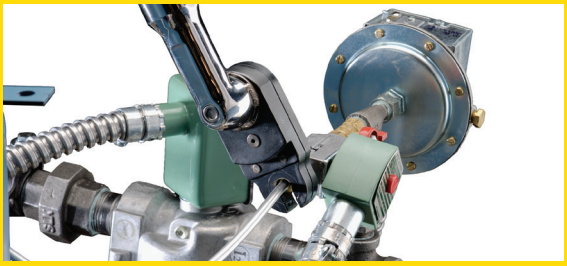


Tubenut dimensions are derived from the application's access area dimensions and tube size.

Output Dimensions

Output	Type	Max Rating		Max Hex Size		Max Tube Size		"W" Width		"R" Nose Radius		"T" Thickness		"P" Reach	
		Nm	ftlb	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
T346	Angle	25	18	13	0.51	8	5/16	32	1.25	13.5	0.53	16	0.63	47	1.86
T252	Inline	25	18	13	0.51	8	5/16	32	1.25	13.5	0.53	16	0.63	45	1.76
T369	Verticle	25	18	13	0.51	8	5/16	42	1.66	13	0.51	14	0.55	34	1.34

These are examples of the many tubenut tools available.



Tubenut nutrunners can access fasteners in unique, hard to access spaces. Tightening torque can range from 4 Nm to over 650 Nm.

Tubenut inserts allow for quick change of sockets for multiple tasks per job.

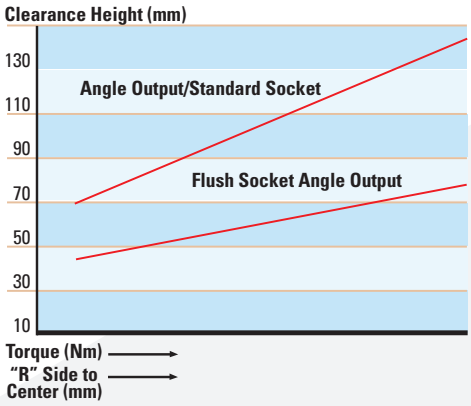
FLUSH ANGLE

Access Smaller Vertical Spaces

Flush angle heads with built-in sockets allow access into smaller vertical spaces than standard angle heads.

Flush Angle Clearance Height

Standard Clearance Height



Output Dimensions

Output Size	Max Rating		"R" Head Radius		Clearance Height		Max Socket Diameter	
	Nm	ftlb	mm	in	mm	in	mm	in
A13	18	13	13	0.51	35	1.4	10	0.38
A15	40	29	15	0.59	36	1.4	13	0.51
A18	46	34	18	0.71	44	1.7	17	0.62
A19	80	59	19	0.75	49	1.9	17	0.62
A22	120	88	22	0.88	51	2.0	19	0.75
A26	221	163	26	1.02	66	2.6	22	0.87
A32	380	281	32	1.25	70	2.7	27	1.06

Flush angle tools can access vertical spaces 40-55% lower than standard angle tools at similar torque levels.

SOCKET SELECTION

STANLEY's part number system for standard flush angle head sockets enables customers to select standard sockets for each application.
The part number includes information on head number of the tool, socket type, socket size and extension length.
For special sockets or dimensions not included on this page contact your local STANLEY sales representative.

Choose your socket

Step 1: Select the Base Code from the Head Number table

Step 2: Add Type, Size and Extension from their tables separated by forward slashes

Base/

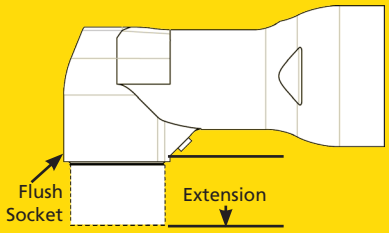
Flush Angle Head Number	Max Hex Size		Base Code
	Size (mm)	Size (in)	
A15 (as in EB-33LA15-27)	13	1/2	20D283200
A19	17	5/8	20D222300
A22	19	3/4	L3270
A26	22	7/8	L3435
A32	22	7/8	L3435

Size/

Size (mm)	Size Code
4	M4
5	M5
6	M6
7	M7
8	M8
9	M9
10	M10
11	M11
12	M12
13	M13
14	M14
15	M15
16	M16
17	M17
18	M18
19	M19
20	M20
21	M21
22	M22
23	M23
24	M24
25	M25
26	M26
27	M27

Size (in)	Size Code
1/8	2
3/16	3
1/4	4
5/16	5
3/8	6
7/16	7
1/2	8
9/16	9
5/8	10
11/16	11
3/4	12
13/16	13
7/8	14
15/16	15
1	16
1 1/16	17

Example Order Number



Example: An A19 flush angle head requires a 3/8 in surface drive socket with a 1 inch extension. Select the BASE (20D222300), TYPE (SD), SIZE (6) and EXTENSION (24). Write the Socket Part Number with the (/) separating each number.

Base	Type	Size	Ext.
20D222300	/SD	/6	/24

Extension/

Length		Extension Code
(mm)	(in)	
Standard	Standard	0
3	1/8	3
6	1/4	6
9	3/8	9
12	1/2	12
15	5/8	15
18	3/4	18
21	7/8	21
24	1	24
27	1 1/16	27
30	1 1/8	30
33	1 1/4	33
36	1 3/8	36
39	1 1/2	39
42	1 5/8	42
45	1 3/4	45
48	1 7/8	48
51	2	51

Type/

Type	
SH Single Hex	SD Surface Drive
DH Double Hex	FL Fast Lead

CROWFOOT/ TUBENUT SOCKET SELECTION

STANLEY's intuitive part numbering system for standard crowfoot and tubenut sockets makes it easier to select standard sockets for each application. The part number includes information on the head number of the tool, socket type, socket size and extension length. For special sockets or dimensions not included here, contact your local STANLEY sales representative.

Base/

Crowfoot or Tubenut Head Number	Max Hex Size		Base Code
	Size (mm)	Size (in)	
5, 10, 19, 31, 83, 126, 172, 406, 565, 586	19	3/4	L3217
7, 16, 39, 97, 299, 353, 552	19	1/2	L3258
8, 106, 178, 311, 420, 445	13	1/2	L3224
13, 230, 308, 333, 394, 443	13	1/2	L3213
20	27	1 1/16	L3255
21, 98, 225, 284, 416	27	1 1/16	L3240
23, 84, 95, 135, 309, 568	18	11/16	L3209
29, 35, 121, 152, 175, 221, 234, 278, 287, 496	19	3/4	L3218
32, 75, 91, 92, 132, 136, 137, 138, 147, 182, 184, 190, 202, 208, 209, 211, 212, 213, 266, 267, 300, 302, 303, 305	19	3/4	L3218
47, 170, 294	11	7/16	L3222
69, 173, 279, 301, 307, 313, 317, 327, 362, 379, 381, 385, 448, 455, 477, 487, 516, 521	13	1/2	L3201
74, 164, 261, 265, 269, 271, 273, 274, 286, 291, 312, 540	18	11/16	L3211
79, 82, 103, 167, 508,	13	1/2	L3202
99, 116, 283, 285, 296	27	1 1/16	L3267
160, 550	13	1/2	L3228
200, 324, 396	19	3/4	L3220
203, 456	19	3/4	L3221
216	13	1/2	L3225
246, 297, 315,	13	9/16	L3256
252, 288, 346, 349, 387, 358, 408, 513	13	1/2	20D280700
264, 304	24	15/16	L3259
264, 304	24	15/16	L3260 Thru Hex

Type/

Type	
SH Single Hex	
SD Surface Drive	
DH Double Hex	
FL Fast Lead	

Size/

Size (mm)	Size Code
4	M4
5	M5
6	M6
7	M7
8	M8
9	M9
10	M10
11	M11
12	M12
13	M 13
14	M14
15	M15
16	M16
17	M17
18	M18
19	M19
20	M20
21	M21
22	M22
23	M23
24	M24
25	M25
26	M26
27	M27

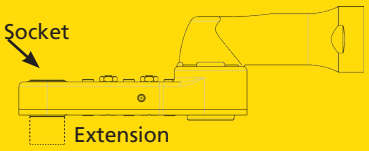
Size (in)	Size Code
1/8	2
3/16	3
1/4	4
5/16	5
3/8	6
7/16	7
1/2	8
9/16	9
5/8	10
11/16	11
3/4	12
13/16	13
7/8	14
15/16	15
1	16
1 1/16	17

Choose mm *or* in

Extension/

Length		Extension Code
(mm)	(in)	
Standard	Standard	0
3	1/8	3
6	1/4	6
9	3/8	9
12	1/2	12
15	5/8	15
18	3/4	18
21	7/8	21
24	1	24
27	1 1/16	27
30	1 1/8	30
33	1 1/4	33
36	1 3/8	36
39	1 1/2	39
42	1 5/8	42
45	1 3/4	45
48	1 7/8	48
51	2	51

Example Order Number



Base	Type	Size	Ext.
L3224	/SD	/6	/24

Example 1: A #8 crowfoot head requires a 3/8 in surface drive socket with a 1 in extension. Select the BASE (L3224), TYPE (SD), SIZE (6) and EXTENSION (24).

Base	Type	Size	Ext.
L3224	/SH	/M10	/0

Example 2: A #147 tubenut head requires a 10mm hex socket with a standard extension. Select the BASE (L3282), TYPE (SH), SIZE (M10) and EXTENSION (0).

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