



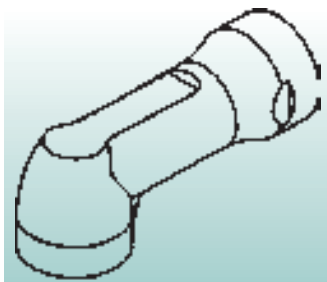
Driving Fastener Access

FASTENER ACCESS

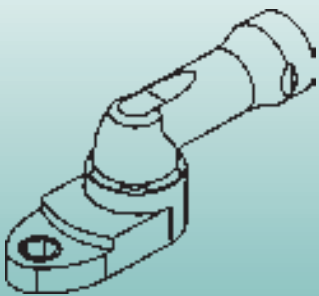
With Specialty Outputs

Four output styles and many standard designs enable unique geometries that fit the application.

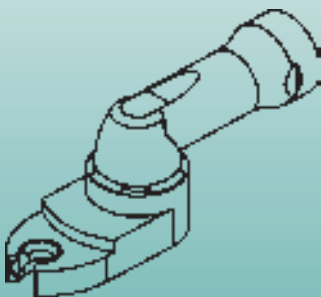
- Torque Levels From 3 to 1250 Nm and Higher
- Hundreds of Unique Designs From Over 50 Years Experience
- Outputs Matched to the Tool Helps Optimize Performance



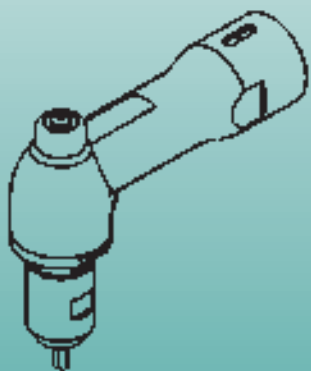
FLUSH ANGLE
Torque Range:
3 - 400 Nm



CROWFOOT
Torque Range:
4 - 1250 Nm



TUBENUT
Torque Range:
4 - 650 Nm



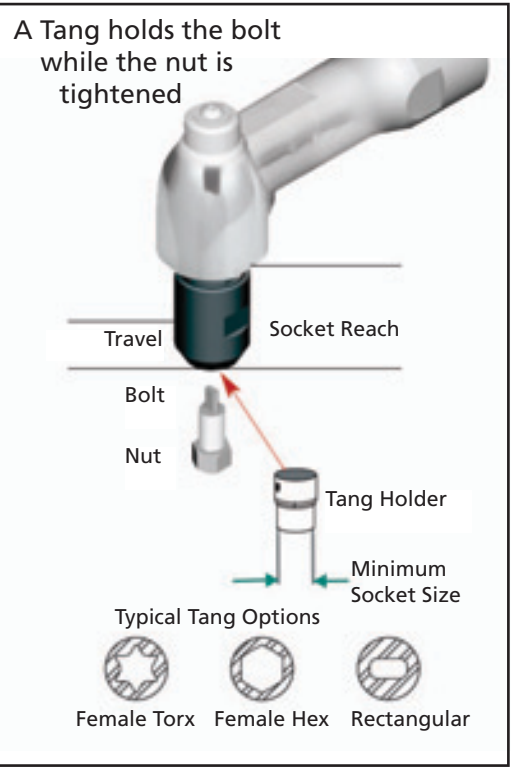
HOLD and DRIVE
Torque Range:
11 - 380 Nm

Hundreds of output designs enable solutions that fit your application. STANLEY manufactures a complete range of outputs to access all types of threaded fasteners. By controlling both the design of the tool and the output, STANLEY can properly match components in the tool design to help optimize performance and long life. With over 50 years of experience in developing standard and special outputs, STANLEY has the expertise to handle the most challenging fastening requirements.

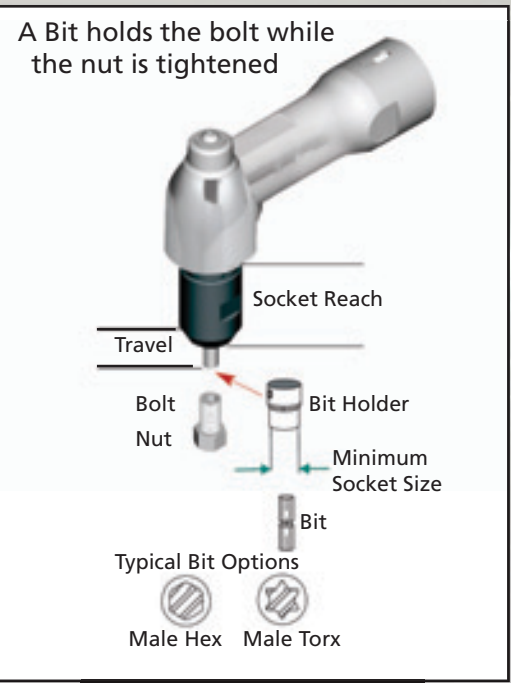
HOLD and DRIVE

Hold the Bolt - Drive the Nut

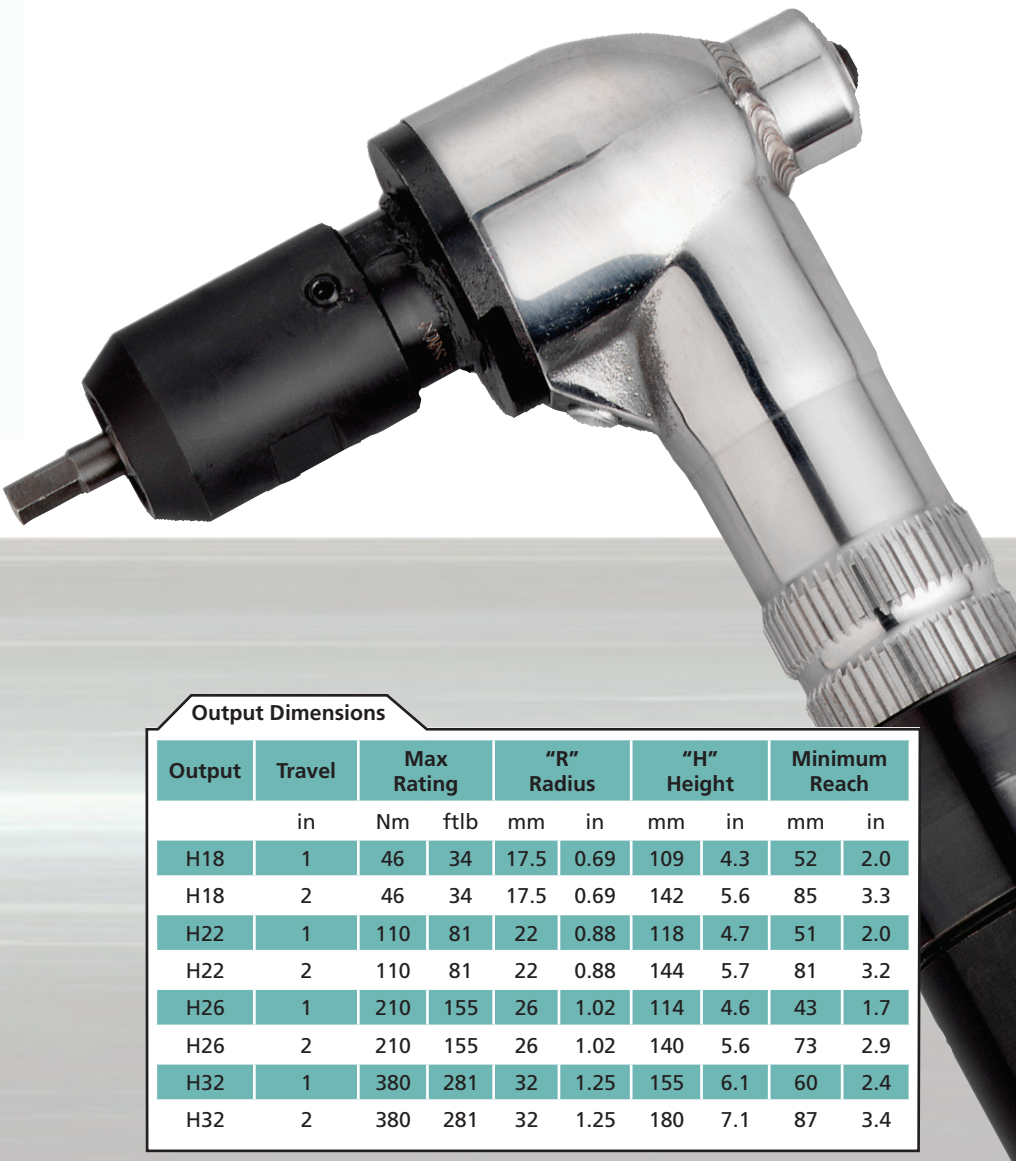
Bolt with Tang



Bolt with Recess



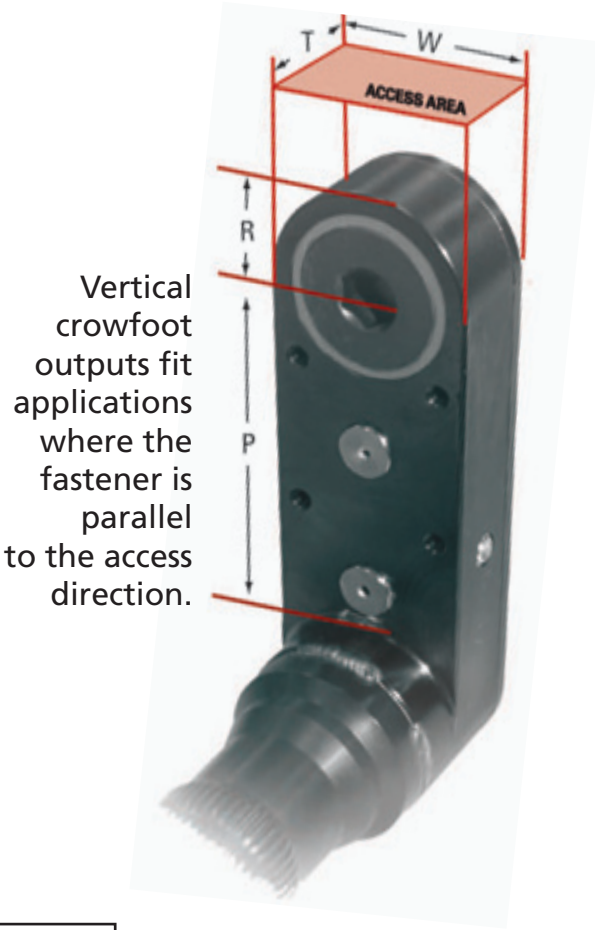
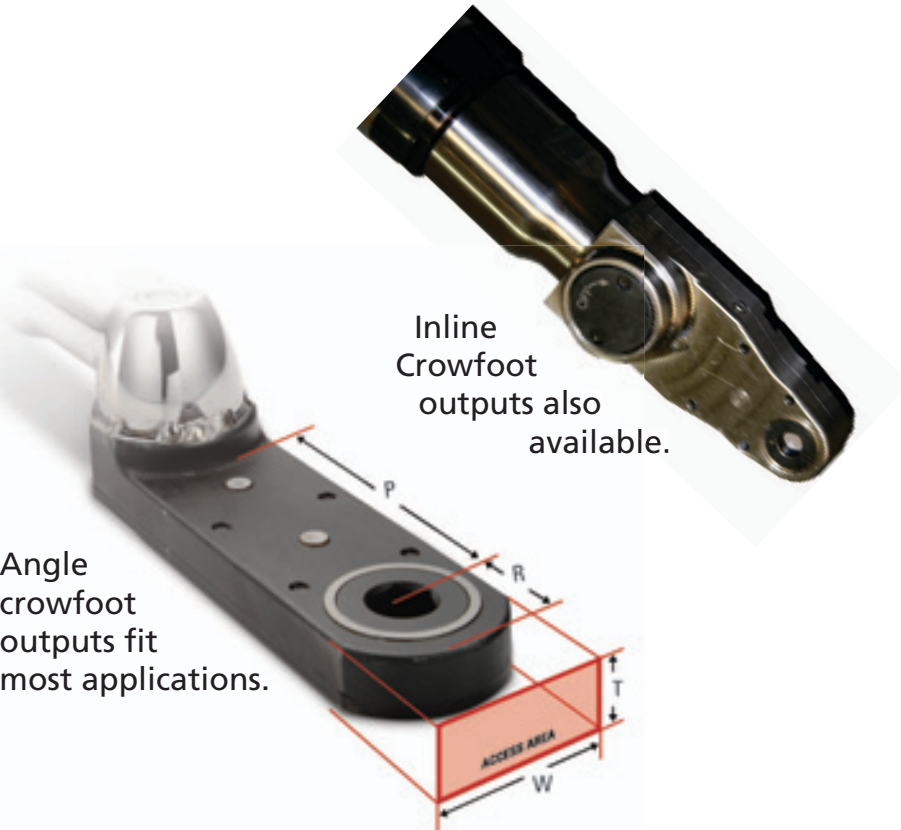
Hold and drive tools simultaneously hold the bolt while the nut is tightened. A formed end on the bolt interfaces with a mating tang holder or bit to prevent bolt rotation. The nonrotating tang holder or bit retracts into the tool to allow the rotating socket to engage the nut.



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 Drive Fasteners in Hard to Access Spaces

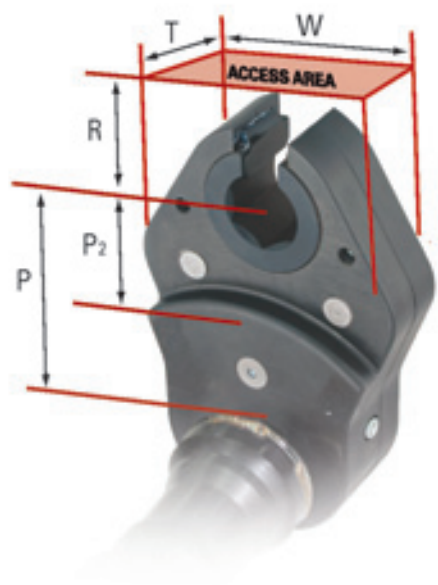
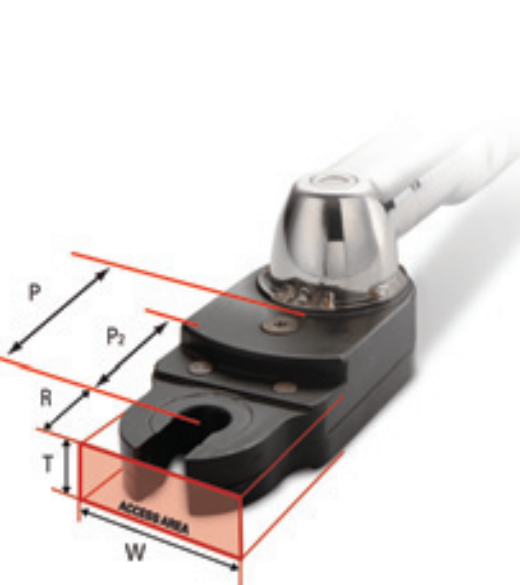


Crowfoot dimensions are derived from the application's access area dimensions.

Output Dimensions		Max Rating		Max Hex Size		"W" Width		"R" Nose Radius		"T" Thickness		"p" Reach	
Output	Type	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.

TUBENUT



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

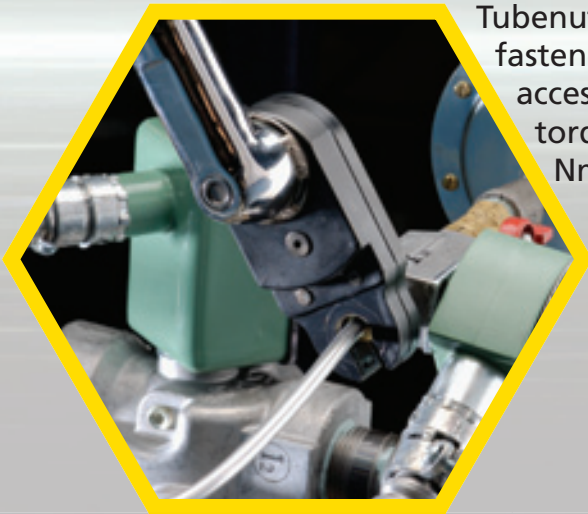
Output Dimensions		Max Rating		Max Hex Size		Max Tube Size		"W" Width		"R" Nose Radius		"T" Thickness		"p" Reach	
Output	Type	Nm	ftlb	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
T346	Angle	25	18	13	0.51	8	5/16	32	1.25	13.5	0.53	16	0.63	47	1.86
T252	Inline	25	18	13	0.51	8	5/16	32	1.25	13.5	0.53	16	0.63	45	1.76
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.



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.



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

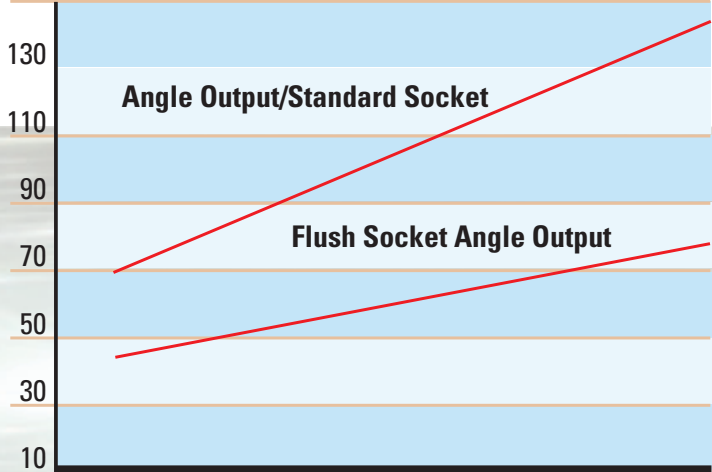
Flush angle heads with built-in socket allow access into smaller vertical spaces than standard angle heads.



Flush Angle Clearance Height

Standard Clearance Height

Clearance Height (mm)



Torque (Nm) →
"R" Side to Center (mm) →

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

A new 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

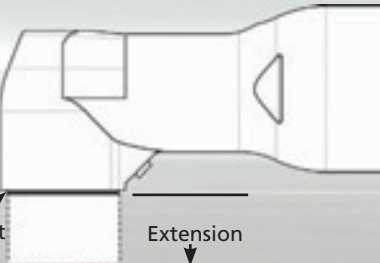
Step 2: Add Type, Size and Extension from their tables separated by forward slashes

Base/			Type/	Size/		Extension		
Flush Angle Head Number			Type	Choose mm or in		Length		Extension Code
				Size (mm)	Size Code	Size (in)	Size Code	
Max Hex Size			SH Single Hex					
Size (mm)								
Size (in)			DH Double Hex					
Base Code								
A15 (as in EB33LA15-27)			SD Surface Drive					
A19								
A22			FL Fast Lead					
A26								
A32								

4	M4	1/8	2
5	M5	3/16	3
6	M6	1/4	4
7	M7	5/16	5
8	M8	3/8	6
9	M9	7/16	7
10	M10	1/2	8
11	M11	9/16	9
12	M12	5/8	10
13	M13	11/16	11
14	M14	3/4	12
15	M15	13/16	13
16	M16	7/8	14
17	M17	15/16	15
18	M18	1	16
19	M19	1 1/16	17
20	M20		
21	M21		
22	M22		
23	M23		
24	M24		
25	M25		
26	M26		
27	M27		

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

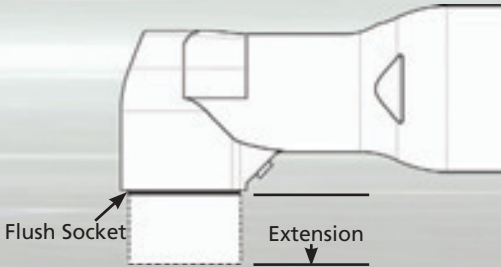
Example Order Number



Flush Socket

Extension

Example Order Number



Example: An A19 flush angle head requires a 3/8 in surface drive socket with a 1 in 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

Crowfoot/ Tubenut Socket Selection



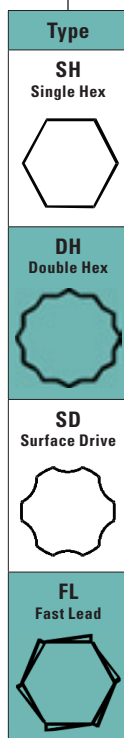
A new part number system for standard crowfoot and tubenut sockets enables customers to select standard sockets for each application. The part number includes information on head number of the tool, socket type, socket size and extension length. For special sockets or dimensions not included on this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

Choose Your Socket

Note: Specify socket size no larger than Max Hex Size.

Base/ Type/ Size/ Extension

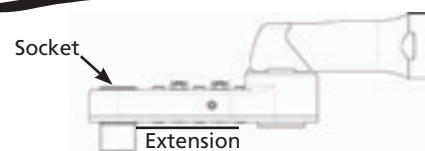
Crowfoot or Tubenut Head Number	Max Hex Size		Base Code
	Size (mm)	Size (in)	
7, 16, 299, 306, 353	19	3/4	L3258
8, 61, 106, 174, 178, 311, 420, 445	13	1/2	L3224
5, 10, 19, 31, 70, 83, 126, 406,	19	3/4	L3217
13, 228, 230, 308, 333, 394, 443	13	1/2	L3213
20	27	1 1/16	L3255
21, 98, 225, 284, 416	27	1 1/16	L3240
23, 84, 95, 135, 309	18	11/16	L3209
29, 35, 121, 152, 175, 221, 234, 278, 287, 496	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	18	11/16	L3211
79, 82, 103, 167, 508,	13	1/2	L3202
99, 116, 283, 285, 296	27	1 1/16	L3267
147, 32, 75, 91, 92, 132, 136, 137, 138, 182, 184, 190, 202, 208, 209, 211, 212, 213, 266, 267, 270, 288, 300, 302, 303, 305	11	7/16	L3282
	12 or 13 only	1/2 only	L3281
	12 or 13 only	1/2 only	L3283
Thru Hex "BASE" number for this section	13	1/2	L3392
160	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, 346, 349, 387, 358, 408, 513	13	1/2	20D280700
264, 304	24	15/16	L3259
Thru Hex "BASE" number for this section	24	15/16	L3260



Choose mm or in	
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

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 Numbers



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	SD	/6	24

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