



Assembly Technologies

# QPM TOOLS

*Selection & Configuration Catalog*



# QPM delivers value over the life cycle of the product

Lowered costs on materials and labor.  
 Reduced times for setup, fastening, rework,  
 and maintenance. Increased quality,  
 productivity, ergonomics and flexibility.  
 Compared to pneumatic and other DC electric  
 assembly tools, QPM is THE COMPLETE  
 TIGHTENING SOLUTION that delivers  
 lifetime value.



**QPM**

OTHER DC

AIR TOOLS

**RETURN INVESTMENT**

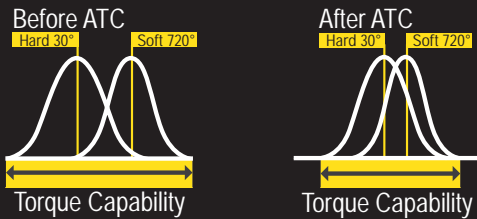


**STANLEY**

Assembly Technologies

QPM can improve ROI from a lower overall life cycle cost as compared to pneumatic and other DC electric tool solutions.

## Quality



Stanley's patented Adaptive Tightening Control technology gives more consistent torque results by automatically adjusting for different joint rates.

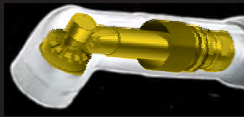
## Flexibility



QPM enables flexible manufacturing. A single tool can be set to assemble joints of different target torque levels.

## Productivity

**MTBF**

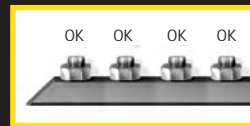


**MTRR**

QPM systems reduce the frequency of maintenance with increased Mean Time Between Failures from long life components.

Simple QPM construction decreases the Mean Time To Repair.

## Error Proofing



QPM compares fastening results to quality limits to eliminate missed fasteners.

## Ergonomics



QPM ATC prevents sudden downshifting which can reduce operator fatigue and torque reaction impulse.

## Modularity



Common modular controllers and tool components allow a smaller inventory of interchangeable parts.

## Environment



No Lubricating Oil



Low Noise Levels













Up to 6x's More Energy Efficient



Green Friendly

QPM quietly and cleanly creates a better environment for your workers, their product and the globe.

## QPM Tools, Controllers and Software

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	E Pistol	2	EA Straight Lever (2 to 100 Nm)	8
	E & EA Straight Lever	2	EA Angle Lever (2 to 120 Nm)	8
	E Straight Motors	2	EA Flush Angle Lever (3 to 120 Nm)	9
	E & EA Angle Lever	3	EA Crowfoot Lever (4.5 to 88 Nm)	10
	E & EA Flush Angle Lever	3	EA Tubenut Lever (6.5 to 62 Nm)	11
	E Angle Motors	3	EA Hold & Drive Lever (14 to 110 Nm)	13
	E & EA Crowfoot Lever	4	E Pistol (0.6 to 340 Nm)	20
	E & EA Tubenut Lever	4	E Straight Lever (0.6 to 2000 Nm)	22
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			Standard Socket Options	34
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### How to Use the QPM Catalog

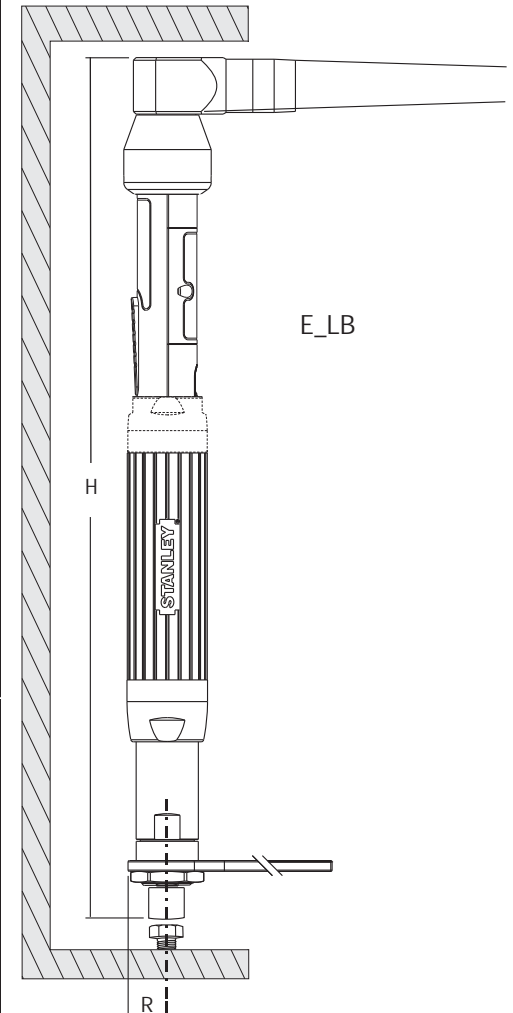
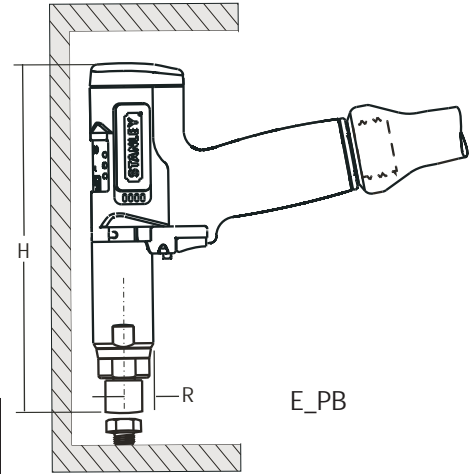
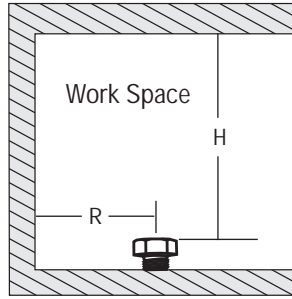
1. To select a tool using job criteria, see either the Single Spindle or Multiple Spindle Tool Selector.
2. To configure a specific tool, see the pages under Tool Specification and Configuration.
3. Select required cables, controllers and accessories.

## Single Spindle Tool Selector

### Selection Instructions:

1. Select the Tool Style and Output Type.
2. Select the Torque Range that fits the fastener torque.
3. Ensure Tool Clearance fits your Work Space.
4. Find the Catalog Model and Page.

NOTE: All Tool Styles are operator controlled except Motors. Also consider tool ergonomics when selecting Tool Style and Output.



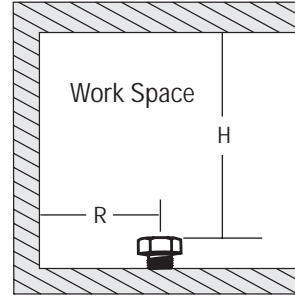
Tool Style	Output Type		Tool Clearance				Catalog Model	Page
	Nm	ft lb	"R" Side to Center	"H" Height/QC Chuck				
			mm	inch	mm	inch		
P I S T O L H I G H T	0.7 - 2	0.5 - 1.5	18	0.7	197	7.7	E02PB-2	20
	1 - 5	0.7 - 3.5	18	0.7	211	8.3	E02PB	
	1.3 - 4	1 - 3	20	0.8	222	8.7	E12PB-4	
	3 - 10	2 - 7	20	0.8	236	9.3	E12PB-10	
					"H" Height/Std Socket			
					mm	inch		
					250	9.8	E12PB	20
					286	11.2	E23PB-8	
					301	11.8	E23PB	
					326	12.8	E33PB	
				375	15	E34PB1	21	
				520	20.5	E35PB2		
				558	22	E35PB4		
				"H" Height/QC Chuck				
				mm	inch			
L E V E R H I G H T	0.6 - 4	0.4 - 3	18	0.7	256	10.1	E12LB-4	22
	2 - 10	1.3 - 7.4	18	0.7	270	10.6	E12LB	
					"H" Height/Std Socket (90° cable except E12 Models)			
					mm	inch		
					410	16.2	E12LB	8
					424	16.7	EA23LB-7	
					439	17.3	EA23LB	22
					496	19.5	E23LB-8	
					511	20.1	E23LB	8
					450	17.7	EA33LB-15	
					465	18.3	EA33LB	22
					536	21.1	E33LB	
					514	20.2	EA34LB1	8
					585	23	E34LB1	
					594	23.4	E44LB1	23
					660	26	E45LB2	
					687	27.1	E55LB2	23
				700	27.5	E55LB3		
				748	29.4	E55LB4	23	
				778	30.6	E55LB5		
				810	31.9	E55LB5		
M O T O R H I G H T	0.6 - 17	0.4 - 12.5	21	0.83	410	16.2	E12LP	23
	2.5 - 8	2 - 6	24	0.9	439	17.3	E23MB-8	
					454	17.9	E23MB	24
					479	18.9	E33MB	
					528	20.8	E34MB1	24
					537	21.2	E44MB1	
					603	23.8	E45MB2	25
					630	24.9	E55MB2	
					643	25.3	E55MB3	25
					691	27.2	E55MB4	
					721	28.4	E55MB5	25
				753	29.7	E55MB5		

## Single Spindle Angle Tool Selector

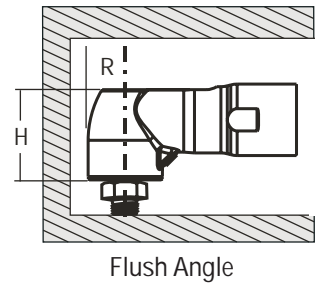
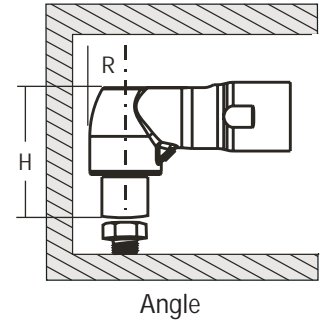
### Selection Instructions:

1. Select the Tool Style and Output Type.
2. Select the Torque Range that fits the fastener torque.
3. Ensure Tool Clearance fits your Work Space.
4. Find the Catalog Model and Page.

NOTE: All Tool Styles are operator controlled except Motors. Also consider tool ergonomics when selecting Tool Style and Output.



Tool Style	Output Type	Torque Range		Tool Clearance				Catalog Model	Page
		Nm	ft lb	"R" Side to Center		"H" Height/Std Socket			
		mm	inch	mm	inch	mm	inch		
ANGLE	LEVER	0.6 - 6	0.4 - 4.4	10	0.4	56	2.2	E12LA10	25
		3 - 18	2.2 - 13	13	0.5	72	2.8	E12LA13	
		7 - 23	5 - 17	14	0.55	73	2.9	E12LA14	
		2 - 6	1.3 - 4.4	10	0.4	55	2.2	EA23LA10-6	8
		3 - 18	2.2 - 13	13	0.5	71	2.8	EA23LA13	
		3.5 - 11	2.5 - 8	13	0.5	71	2.8	E23LA13-11	26
		6.6 - 35	5 - 26	14	0.55	74	2.9	EA23LA14	8
		6 - 33	5 - 24	14	0.55	74	2.9	E23LA14	26
		12 - 46	9 - 34	17.5	0.69	78	3.1	EA33LA18	8
		14 - 46	10 - 34	17.5	0.69	78	3.1	E33LA18-46	26
		15 - 48	10.5 - 35	19	0.75	85	3.4	EA33LA19-48	8
		18 - 60	13 - 44	19	0.75	98	3.9	EA33LA19-60	
		15 - 60	10.5 - 44	19	0.75	85	3.4	E33LA19	26
		24 - 80	18 - 59	19	0.75	98	3.9	EA34 LA19-80	9
		21 - 70	15 - 51.5	19	0.75	98	3.9	E34/44LA19-70	26
		30 - 120	22 - 88.5	22	0.88	101	4.0	EA34LA22	9
		30 - 115	22 - 85	22	0.88	101	4.0	E34LA22	26
		30 - 120	22 - 88.5	22	0.88	101	4.0	E44LA22	
		45 - 201	33 - 148	26	1.02	117	4.6	E45LA26	27
		33 - 221	22 - 163	26	1.02	117	4.6	E55LA26	
101 - 401	75 - 295	32	1.25	138	5.4	E55LA32			
FLUSH ANGLE	LEVER	3 - 11	2.2 - 13	13	0.5	35	1.4	E12LA13	28
		7 - 23	5 - 17	14	0.55	36	1.4	E12LA14-23	
		3 - 18	2.2 - 13	13	0.5	35	1.4	EA23LA13	9
		3.5 - 11	2.5 - 8	13	0.5	35	1.4	E23LA13-11	28
		6.6 - 31	5 - 23	14	0.55	36	1.4	EA23LA14	9
		6 - 31	5 - 23	14	0.55	33	1.3	E23LA14	28
		14 - 41	10 - 34	17.5	0.69	47	1.9	E33LA18-46	
		15 - 60	10.5 - 44	19	0.75	49	1.9	EA33LA19	9
		15 - 60	10.5 - 44	19	0.75	47	1.9	E33LA19	28
		24 - 80	18 - 59	19	0.75	49	1.9	EA34LA19	9
		21 - 70	15 - 51.5	19	0.75	50	2.0	E34/44LA19-70	26
		30 - 120	22 - 88.5	22	0.88	50	2	EA34LA22	9
		30 - 115	22 - 85	22	0.88	47	1.9	E34LA22	29
		30 - 120	22 - 88.5	22	0.88	50	2.0	E44LA22	
		45 - 201	33 - 148	26	1.02	60	2.4	E45LA26	
33 - 221	22 - 163	26	1.02	60	2.4	E55LA26			
101 - 361	75 - 295	32	1.25	71	2.8	E55LA32			
MOTOR	ANGLE	14 - 46	10 - 34	17.5	0.69	78	3.1	E33MA18F0-46	30
		15 - 60	10.5 - 44	19	0.75	85	3.4	E33MA19F0-60	
		21 - 70	15 - 51.5	19	0.75	98	3.9	E34/44MA19-70	
		30 - 115	22 - 85	22	0.88	101	4.0	E34MA22	
		30 - 120	22 - 88.5	22	0.88	101	4.0	E44MA22	
		45 - 201	33 - 148	26	1.02	117	4.6	E45MA26	
		33 - 221	22 - 163	26	1.02	117	4.6	E55MA26	
101 - 401	75 - 295	32	1.25	138	5.4	E55MA32			

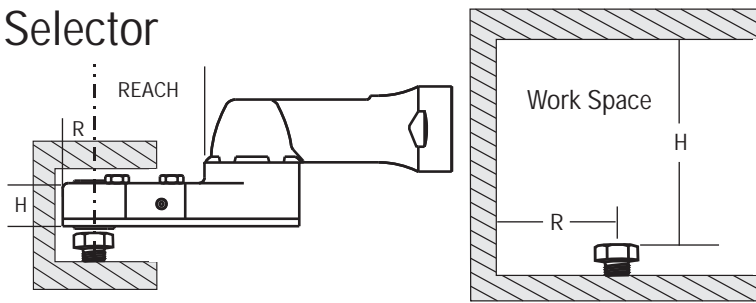


## Single Spindle Crowfoot Tool Selector

### Selection Instructions:

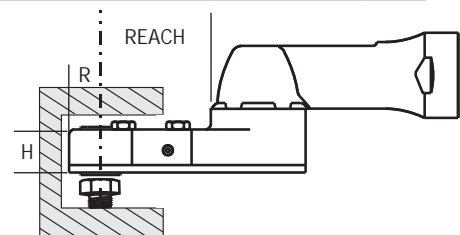
1. Select the Tool Style and Output Type.
2. Select the Torque Range that fits the fastener torque.
3. Ensure Tool Clearance fits your Work Space.
4. Find the Catalog Model and Page.

NOTE: All Tool Styles are operator controlled except Motors. Also consider tool ergonomics when selecting Tool Style and Output.



Output Type Tool Style	Torque Range		Tool Clearance				Reach		Max Hex Size mm (in)	Catalog Model	Page
			"R" Side to Center		"H" Height/Std Socket						
	Nm	ft lb	mm	inch	mm	inch	mm	inch			
L E V E R  C R O W F O O T	3 - 16	2 - 12	13	0.5	16	0.64	44.5	1.75	13 (1/2)	EA23LC8-16	10
	4 - 16	3 - 12	13	0.5	16	0.64	44.5	1.75		E12/23LC8	31
	4 - 16	3 - 12	13	0.5	16	0.64	64.5	2.5		E12/23LC106	
	4.5 - 15	3.5 - 11	13.5	0.53	16	0.64	47	1.9		EA23LC69-15	31
	8 - 27	6 - 20	13.5	0.53	16	0.64	47	1.9		EA33LC69-27	
	4.5 - 15	3.5 - 11	13.5	0.53	16	0.64	47	1.9		E23LC69-15	31
	8 - 27	6 - 20	13.5	0.53	16	0.64	47	1.9		E33LC69-27	
	9 - 30	7 - 22	16	0.63	15	0.58	45	1.8		E12LC379-30	31
	9 - 30	7 - 22	16	0.63	15	0.58	45	1.8		EA23LC379-30	
	6 - 20	4.5 - 15	16	0.63	20.5	0.81	46	1.8		EA23LC246-20	31
	12 - 38	9 - 28	16	0.63	20.5	0.81	46	1.8		EA33LC246-38	
	6.5 - 22	5 - 16	16	0.63	20.5	0.81	46	1.8		E23LC246-22	31
	12 - 38	9 - 28	16	0.63	20.5	0.81	46	1.8	E33LC246-38	10	
	8 - 27	6 - 20	16	0.63	20.5	0.81	56	2.2	EA33LC800-27		31
	5.5 - 18	4 - 13	16	0.63	20.5	0.81	47	1.9	EA23LC13-18	10	
	9 - 30	6.5 - 22	16	0.63	20.5	0.81	47	1.9	EA33LC13-30		31
	5.5 - 18	4 - 13	16	0.63	20.5	0.81	47	1.9	E23LC13-18	10	
	9 - 30	6.5 - 22	16	0.63	20.5	0.81	47	1.9	E33LC13-30		31
	5 - 16	3.5 - 12	20.5	0.81	14	0.55	75	3	E23LC35-16	32	
	9 - 31	7 - 23	20.5	0.81	14	0.55	75	3	E33LC35-31		11
	10.5 - 35	8 - 26	20.5	0.81	14	0.55	43	1.7	EA33LC29-35	32	
	13.5 - 45	10 - 33	20.5	0.81	14	0.55	43	1.7	EA34LC29-45		11
	13.5 - 45	10 - 33	20.5	0.81	14	0.55	43	1.7	E34LC29-45	32	
	15 - 49	11 - 36	20.5	0.81	28	1.1	71	2.8	EA34LC10		11
	15 - 49	11 - 36	20.5	0.81	28	1.1	71	2.8	E34LC10-49	32	
	26 - 88	20 - 65	20.5	0.81	28	1.1	71	2.8	E44LC10-88		11
	31 - 102	23 - 75	20.5	0.81	28	1.1	39	1.5	E44LC31-102	32	
	65 - 216	48 - 159	29	1.16	31	1.2	59	2.3	E45LC21-216		

## Single Spindle Tubenut Tool Selector



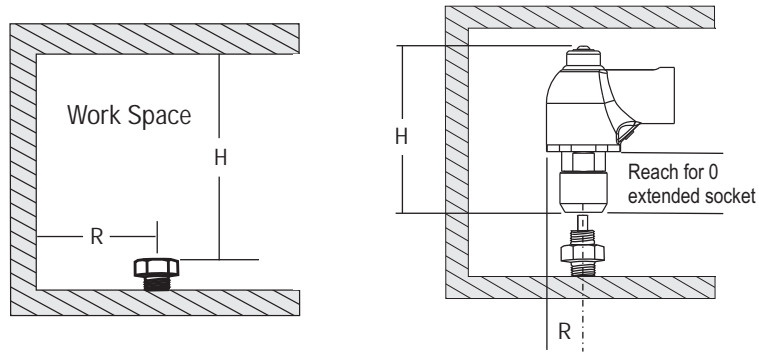
Output Type Tool Style	Torque Range		Tool Clearance				Reach		Max Hex Size mm (in)	Catalog Model	Page
			"R" Side to Center		"H" Height/Std Socket						
	Nm	ft lb	mm	inch	mm	inch	mm	inch			
L E V E R  T U B E N U T	6.5 - 22	5 - 16	13	0.5	14	0.54	56	2.2	13 (1/2)	EA33LT252	11
	7.5 - 25	5.5 - 18	13	0.5	14	0.54	56	2.2		E12/23LT252	33
	4 - 25	3 - 18	13	0.5	14	0.54	34	1.3		E23LT346	
	7.5 - 25	5.5 - 18	13	0.5	14	0.54	34	1.3	18 (11/16)	EA33LT346-25	11
	7.5 - 25	5.5 - 18	13	0.5	14	0.54	24	0.9		EA33LT801-25	
	4 - 30	3 - 22	18.5	0.73	14.5	0.57	52	2.1	EA33LT74-30	33	
	4 - 30	3 - 22	18.5	0.73	14.5	0.57	52	2.1	E23LT74		
	6.5 - 22	5 - 16	21.3	0.84	18	0.7	82	3.2	24 (15/16)	EA23LT264	11
	6.5 - 44	5 - 32	21.3	0.84	18	0.7	82	3.2		EA33LT264	
	6.5 - 44	5 - 32	21.3	0.84	18	0.7	82	3.2	18 (11/16)	E23LT264	33
	12 - 41	9 - 30	18.5	0.73	23	0.92	48	1.9		EA34LT23-41	
	12 - 41	9 - 30	18.5	0.73	23	0.92	48	1.9	E34LT23-41	33	
	14 - 62	10 - 46	26	1.03	19.5	0.77	66	2.6	EA34LT99		11
	14 - 62	10 - 46	26	1.03	19.5	0.77	66	2.6	E34LT99	33	
	31 - 102	23 - 75	26	1.03	32	1.25	66	2.6	EA44LT20-102		

## Single Spindle Hold & Drive Tool Selector

### Selection Instructions:

1. Select the Tool Style and Output Type.
2. Select the Torque Range that fits the fastener torque.
3. Ensure Tool Clearance fits your Work Space.
4. Find the Catalog Model and Page.

NOTE: All Tool Styles are operator controlled except Motors. Also consider tool ergonomics when selecting Tool Style and Output.



Output Type Tool Style	Tool Clearance								Catalog Model	Page	
	Torque Range		"R" Side to Center		1" Travel "H" Height/Std Socket		Minimum Reach				
	Nm	ft lb	mm	inch	mm	inch	mm	inch			
L H O L D  &  D R I V E	14 - 46	10 - 34	17.5	0.69	109	4.28	52	2	EA33LH18V1	13	
	11 - 46	8 - 34	17.5	0.69	109	4.28	52	2	E23/33LH18V1	35	
	23 - 110	17 - 81	22	0.88	99	3.88	32	1.3	EA34LN22V1	13	
	20 - 110	16 - 81	22	0.88	99	3.88	32	1.3	E34/44LN22V1	35	
	23 - 110	17 - 81	22	0.88	118	4.65	51	2	EA34LH22V1	13	
	20 - 110	16 - 81	22	0.88	118	4.65	51	2	E34/44LH22V1	35	
	43 - 191	32 - 141	26	1.02	96	3.8	30	1.2	E45LN26V1	36	
	29 - 210	21 - 155	26	1.02	96	3.8	30	1.2	E55LN26V1		
	43 - 191	32 - 141	26	1.02	114	4.62	43	1.7	E45LH26V1		
	29 - 210	21 - 155	26	1.02	114	4.62	43	1.7	E55LH26V1		
	96 - 380	71 - 280	32	1.25	155	6.1	60	2.4	E55LH32V1		

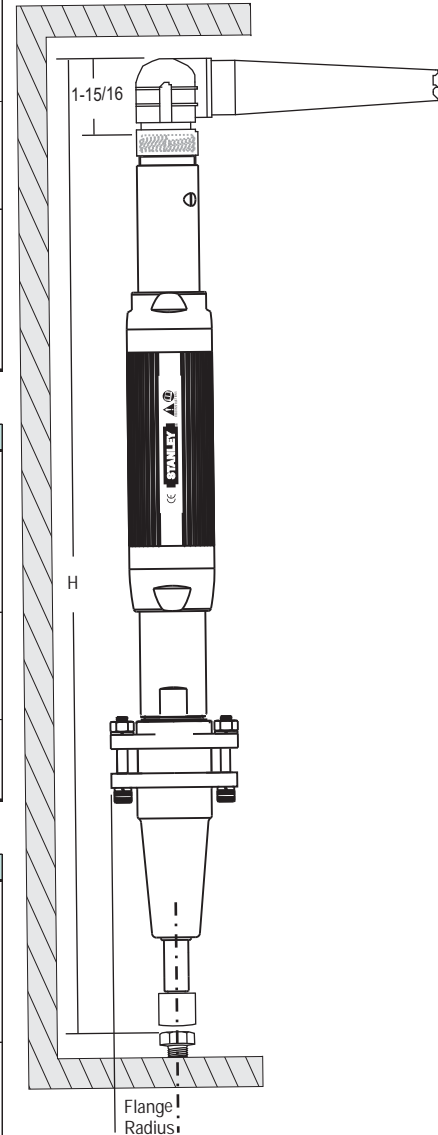
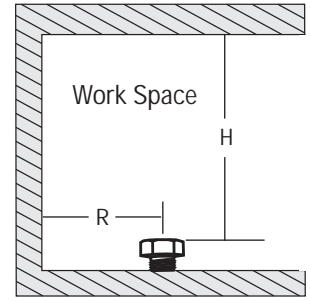


# Multiple Spindle Motor Selector

Output Type Tool Style	Tool Clearance (90° cable)						Tool Removal	Catalog Model	Page		
	Torque Range		Flange Radius		3/4 & 1" Travel						
	Nm	ft lb	mm	inch	mm	inch					
MOTOR SELECT	S	2.5 - 8	2 - 6	48	1.88	544	21.4	Front Only	E23MBF1-8	40	
		6 - 31	5 - 23	48	1.88	557	21.9		E23MBF1		
		10 - 40	7 - 30	48	1.88	582	22.9		E33MBF1		
	R	2.5 - 8	2 - 6	35	1.38	544	21.4	Front or Rear	E23MBF1-8F		
		6 - 31	5 - 23	35	1.38	556	21.9		E23MBF1-F		
		10 - 40	7 - 30	35	1.38	582	22.9		E33MBF1-F		
	A	18 - 100	13 - 74	49	1.94	631	24.8	Front or Rear	E34MB1F1		41
		20 - 100	15 - 74	49	1.94	640	25.2		E44MB1F1		
		48 - 160	35 - 118	49	1.94	727	28.7		E45MB2F1		
	R	38 - 200	28 - 147	49	1.94	755	29.8	Rear Only	E55MB2F1		
		75 - 250	55 - 184	56	2.19	744	29.2		E45MB3F1		42
		75 - 250	55 - 184	56	2.19	772	30.3		E55MB3F1		
A	97 - 322	71 - 237	56	2.19	850	33.4	Front or Rear	E55MB3F1-322			
	141 - 623	104 - 459	72	2.84	943	37.04		E55MB4F1			
	307 - 1023	226 - 754	80	3.16	988	38.84		E55MB5F1-1023			
C	491 - 2005	362 - 1479	80	3.16	1020	40.04	Front or Rear	E55MB5F1			
	2" Travel							Tool Removal	Catalog Model	Page	
	Torque Range		Flange Radius		"H" Height/Std Socket						
Nm	ft lb	mm	inch	mm	inch						
MOTOR SELECT	S	2.5 - 8	2 - 6	48	1.88	634	25	Front Only	E23MBF2-8	40	
		6 - 31	5 - 23	48	1.88	648	25.5		E23MBF2		
		10 - 40	7 - 30	48	1.88	674	26.5		E33MBF2		
	R	2.5 - 8	2 - 6	35	1.38	634	24.9	Front or Rear	E23MBF2-8F		
		6 - 31	5 - 23	35	1.38	648	25.5		E23MBF2-F		
		10 - 40	7 - 30	35	1.38	674	26.5		E33MBF2-F		
	A	18 - 100	13 - 74	49	1.94	716	28.2	Front or Rear	E34MB1F2		41
		20 - 100	15 - 74	49	1.94	725	25.2		E44MB1F2		
		48 - 160	35 - 118	49	1.94	778	30.7		E45MB2F2		
	R	38 - 200	28 - 147	49	1.94	786	31.8	Rear Only	E55MB2F2		
		75 - 250	55 - 184	56	2.19	823	32.4		E45MB3F2		42
		75 - 250	55 - 184	56	2.19	851	33.5		E55MB3F2		
A	97 - 322	71 - 237	56	2.19	929	36.5	Front or Rear	E55MB3F2-322			
	141 - 623	104 - 459	72	2.84	1057	41.5		E55MB4F2			
	307 - 1023	226 - 754	80	3.16	1093	42.9		E55MB5F2-1023			
C	491 - 2005	362 - 1479	80	3.16	1125	44.1	Front or Rear	E55MB5F2			
	3/4 & 1" Travel							Tool Removal	Catalog Model	Page	
	Torque Range		"R" Side to Center		"H" Height/Std Socket						
Nm	ft lb	mm	inch	mm	inch						
MOTOR SELECT	S	2 - 7	105 - 5	13	0.5	544	21.4	Front Only	E23MDF1-7	43	
		6 - 27	4 - 20	13	0.5	557	21.9		E23MDF1		
		9 - 36	6.5 - 27	13	0.5	583	22.9		E33MDF1		
	R	2 - 7	1.5 - 5	13	0.5	544	21.4	Front or Rear	E23MDF1-7F		
		6 - 27	4 - 20	13	0.5	557	21.9		E23MDF1-F		
		9 - 36	6.5 - 27	13	0.5	583	22.9		E33MDF1-F		
	A	16 - 90	12 - 66	17	0.67	631	24.8	Front Only	E34MD1F1		44
		17.5 - 90	13 - 66	17	0.67	640	25.2		E44MD1F1		
		43 - 144	32 - 106	19	0.75	711	28		E45MD2F1-144		
	R	34 - 180	25 - 133	19	0.75	739	29.1	Front Only	E55MD2F1		
		43 - 225	32 - 166	25.4	1	744	29.2		E45MD3F1		45
		54 - 225	33 - 166	25.4	1	772	30.3		E55MD3F1		
C	87 - 290	64 - 214	25.4	1	826	32.5	Front Only	E55MD3F1-290			
	2" Travel							Tool Removal	Catalog Model	Page	
	Torque Range		"R" Side to Center		"H" Height/Std Socket						
Nm	ft lb	mm	inch	mm	inch						
MOTOR SELECT	S	2 - 7	105 - 5	13	0.5	621	24	Front Only	E23MDF2-7	43	
		6 - 27	4 - 20	13	0.5	636	25		E23MDF2		
		9 - 36	6.5 - 27	13	0.5	661	26		E33MDF2		
	R	2 - 7	1.5 - 5	13	0.5	634	25	Front or Rear	E23MDF2-7F		
		6 - 27	4 - 20	13	0.5	647	25.4		E23MDF2-F		
		9 - 36	6.5 - 27	13	0.5	672	26		E33MDF2-F		
	A	16 - 90	12 - 66	17	0.67	716	28.2	Front Only	E34MD1F2		44
		17.5 - 90	13 - 66	17	0.67	728	28.6		E44MD1F2		
		43 - 144	32 - 106	19	0.75	800	31.4		E45MD2F2-144		
	R	34 - 180	25 - 133	19	0.75	818	32.2	Front Only	E55MD2F2		
		43 - 225	32 - 166	25.4	1	823	32.4		E45MD3F2		45
		54 - 225	33 - 166	25.4	1	851	33.5		E55MD3F2		
C	87 - 290	64 - 214	25.4	1	906	35.6	Front Only	E55MD3F2-290			

Selection Instructions:  
 1. Select the Output Type.  
 2. Select the Torque Range that fits the fastener.  
 3. Ensure Tool Clearance fits your Work Space.  
 4. Find the Catalog Model and Page.

NOTE: the Tool Removal options for maintenance on E23/33 Models.

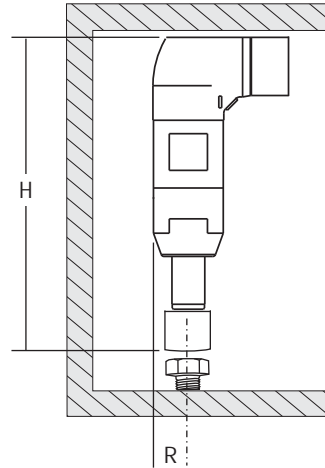




## Multiple Spindle Angle Motor Selector

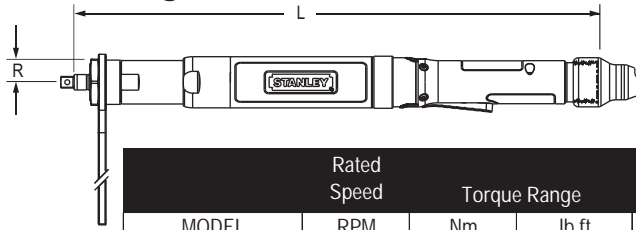
### Selection Instructions:

1. Select the Output Type.
  2. Select the Torque Range that fits the fastener.
  3. Ensure Tool Clearance fits your Work Space.
  4. Find the Catalog Model and Page.
- NOTE: All Tool Removal options for maintenance.



Output Type Tool Style	Tool Clearance						Tool Removal	Catalog Model	Page		
	Torque Range		Head Radius		3/4 & 1" Travel "H" Height/Std Socket						
	Nm	ft lb	mm	inch	mm	inch					
MOTOR SELECTOR	A	14 - 46	10 - 34	17.5	0.69	135	5.3	Front Only	E33MA18F1-46	45	
	N	18 - 60	13 - 44	19	0.75	197.5	7.8		E33MA19F1-60		
	G	21 - 70	15 - 52	19	0.75	197.5	7.8		E34MA19F1-70		
	L	21 - 70	15 - 52	19	0.75	197.5	7.8		E44MA19F1-70		
	E	30 - 115	22 - 85	22	0.88	165	6.5		E34MA22F1-116		
		30 - 120	22 - 89	22	0.88	165	6.5		E44MA22F1-115		
	R	45 - 201	33 - 148	26	1.02	194	7.7		E45MA26F1		46
	E	33 - 221	22 - 163	26	1.02	204	8		E55MA26F1		
	T	101 - 401	75 - 295	32	1.25	245	9.6		E55MA32F1-401		
	MOTOR SELECTOR	Torque Range		Head Radius		2" Travel "H" Height/Std Socket			Tool Removal		Catalog Model
Nm		ft lb	mm	inch	mm	inch					
A		14 - 46	10 - 34	17.5	0.69	176	6.9	Front Only		E33MA18F2-46	
B		18 - 60	13 - 44	19	0.75	245	9.6		E33MA19F2-60		
L		21 - 70	15 - 52	19	0.75	246	9.6		E34MA19F2-70		
E		21 - 70	15 - 52	19	0.75	247	9.6		E44MA19F2-70		
		30 - 115	22 - 85	22	0.88	201	7.9		E34MA22F2-116		
		30 - 120	22 - 89	22	0.88	201	7.9		E44MA22F2-115		
		45 - 201	33 - 148	26	1.02	283	11.2		E45MA26F2	46	
		33 - 221	22 - 163	26	1.02	293	11.5		E55MA26F2		
	101 - 401	75 - 295	32	1.25	384	15.1	E55MA32F2-401				

## EA Straight Lever (2 to 100 Nm)

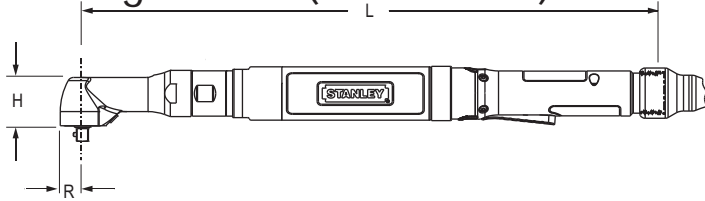


Tool Configuration  
Select model and options.  
See p 14-19 for Cables/Controllers.

MODEL	Rated Speed RPM	Torque Range		"R" Side to Center		"L" Length		Weight		Output	
		Nm	lb ft	mm	in	mm	in	kg	lb	Standard	Options
EA23LB-7	3140	2 - 7	1.5 - 5	21	0.8	386	15.2	1.3	2.9	3/8" SD	1/4" QC
EA23LB-12	1390	3.6 - 12	2.7 - 9	21	0.8	401	15.8	1.3	2.9	3/8" SD	1/4" QC
EA23LB-21	965	6 - 21	4.6 - 15.5	21	0.8	401	15.8	1.3	2.9	3/8" SD	
EA23LB-31	665	9 - 31	7 - 23	21	0.8	401	15.8	1.3	2.9	3/8" SD	
EA33LB-15	3465	4.5 - 15	3.3 - 11	21	0.8	412	16.2	1.4	3.1	3/8" SD	
EA33LB-25	1530	7.5 - 25	5.5 - 18	21	0.8	427	16.8	1.4	3.1	3/8" SD	
EA33LB-32	1210	10 - 32	7 - 24	21	0.8	427	16.8	1.4	3.1	3/8" SD	
EA33LB-40	1065	12 - 40	9 - 30	21	0.8	427	16.8	1.4	3.1	3/8" SD	
EA34LB1-60	745	18 - 60	13 - 44	25	1	463	18.2	1.9	4.2	1/2" SD	
EA34LB1-74	555	22 - 74	17 - 55	25	1	463	18.2	1.9	4.2	1/2" SD	
EA34LB1-100	495	30 - 100	22 - 74	25	1	463	18.2	1.9	4.2	1/2" SD	

Standard Configuration	Handle Options	Mounting Options
Rear Facing Lever	20H207910 Rubber Grip	A8606 Base Mount EA23/33
Reaction Bar:	20H100008 Front Facing Lever	20K100100 Reaction Bar Steel EA23/33
F3698 Aluminum (EA23 Models)	E23/33 Spindle Options	20K100300 Flange Mount EA34
20K100100 Steel (EA33 Models, EA23 Option)	20D100701 3/8"-24 Threaded	20K100500 Base Mount EA34
20K100000 Steel (EA34)	20D100702 3/8" SD X 8" Ext	20K101000 Flange Mount EA23/33
		20K101400 Swivel Bail EA23/33
		20K200000 Swivel Bail EA34

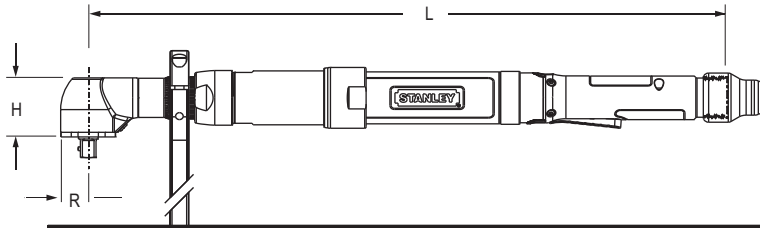
## EA Angle Lever (2 to 120 Nm)



MODEL	Rated Speed RPM	Torque Range		"R" Side to Center		"H" Head Height		"L" Length		Weight		Output
		Nm	lb ft	mm	in	mm	in	mm	in	kg	lb	Standard
EA23LA10-6	2875	2 - 6	1.3 - 4.4	10	0.4	30	1.2	376	14.8	1	2.2	1/4" SD
EA23LA13-10	2090	3 - 10	2.2 - 7.4	13	0.5	33	1.3	379	14.9	1.1	2.4	3/8" SD
EA23LA13-18	925	5.4 - 18	4 - 13	13	0.5	33	1.3	393	15.5	1.2	2.6	3/8" SD
EA23LA14-22	890	6.6 - 22	5 - 16	14	0.55	36	1.4	401	15.8	1.3	2.9	3/8" SD
EA23LA14-31	615	9 - 31	7 - 23	14	0.55	36	1.4	401	15.8	1.3	2.9	3/8" SD
EA33LA14-29	1415	9 - 29	6 - 21	14	0.55	36	1.4	426	16.8	1.4	3.1	3/8" SD
EA33LA14-35	1115	10.5 - 35	7.2 - 26	14	0.55	36	1.4	426	16.8	1.4	3.1	3/8" SD
EA33LA18-40	1020	12 - 40	9 - 29	17.5	0.69	39	1.55	455	17.9	1.6	3.5	3/8" SD
EA33LA18-46	805	14 - 46	10 - 34	17.5	0.69	39	1.55	455	17.9	1.6	3.5	3/8" SD
EA33LA19-48	780	15 - 48	10.5 - 35	19	0.75	49	1.9	458	18	1.8	4	3/8" SD
EA33LA19-60	685	18 - 60	13 - 44	19	0.75	49	1.9	458	18	1.8	4	1/2" SD
EA34ALA19-80	530	24 - 80	18 - 59	19	0.75	49	1.9	475	18.7	2.3	5	1/2" SD

Standard Configuration	Handle Options	A13 Output Options	A14 Output Options
Rear Facing Lever	20H207910 Rubber Grip	A3157 1/4" Female Hex Magnetic	20D110000 3/8" SD Ball Ret Anti-Vib
	20H100008 Front Facing Lever	A3156 1/4" Square Drive	20D118300 1/4" Hex Flush Socket Head
<b>Mounting Options</b>		A3351 1/4" - 28 Threaded Female	<b>A19 Output Options &lt;48 Nm (35 lb ft)</b>
20K101400 Swivel Bail EA23/33		A3158 3/8" - 24 Threaded Magnetic	20D100000 A19 Thd, 1/2" SD
<b>Gearcase Extensions</b>		A3441 5/16" - 24 Threaded Female	20D100006 A19 Thd 3/8 SD Ball Retainer
Add E4 to Model#	4" Extension for EA23/33 Models	F3376 Head/Advel Attachment	<b>A19 Output Options &lt;60 Nm (44 lb ft)</b>
Add E6 to Model#	6" Extension for EA23/34 Models	* B3117 3/8" Double Ended SD	20D100003 Double Ended RH Thd 1/2"
Add E8 to Model#	*8" Extension for EA23/34 Models	<b>A18 Output Options</b>	20D100004 A19 Thd 1/2 SD Ball Retainer
Add E10 to Model#	**10" Extension for EA23/34 Models	F3832 1/4" Internal Hex	20D100001 A19, 1/2" SD Anti Vibration
*Except A13, A18, EA33, A19; ** Except A13		* F3828 3/8" Double Ended SD	* 20D100003 Double End RH Thrd 1/2" SD
Example: EA23LA14-31E4		F3831 3/8" - 24 Female Threaded	<b>A18 Output Options</b>
<b>Vinyl Head Cover Options</b>		F3973 3/8" Square Drive Paint Mark Angle Head	F3829 1/2" Square Drive
20D250705 A13	20D250702 A18	*A6473 1/2" Double Ended Square Drive	F3833 5/16" Internal Hex
20D250701 A14	20D250707 A19	20D104600 3/8" Square Drive/Ball Anti-Vibration	* For Right Hand Assembly Only
		20D104606 3/8" Square Drive/Ball	

## EA Angle Lever (2 to 120 Nm)

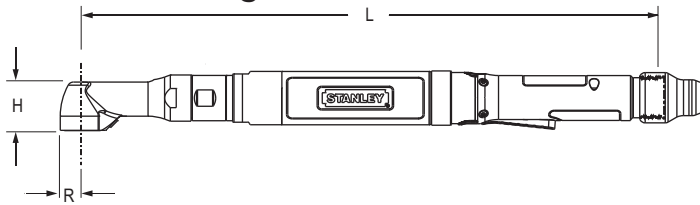


Tool Configuration  
Select model and options.  
See p 14-19 for Cables/Controllers.

MODEL	Rated Speed RPM	Torque Range		"R" Side to Center		"H" Head Height		"L" Length		Weight		Output
		Nm	lb ft	mm	in	mm	in	mm	in	kg	lb	Standard
EA34LA19-80	530	24 - 80	18 - 59	19	0.75	49	1.9	506	19.9	2.4	5.3	1/2" SD
EA34LA22A-100	410	30 - 100	22 - 74	22	0.88	50	2	514	20.2	2.7	5.9	1/2" SD
EA34LA22A-120	340	36 - 120	27 - 88.5	22	0.88	50	2	514	20.2	2.7	5.9	1/2" SD

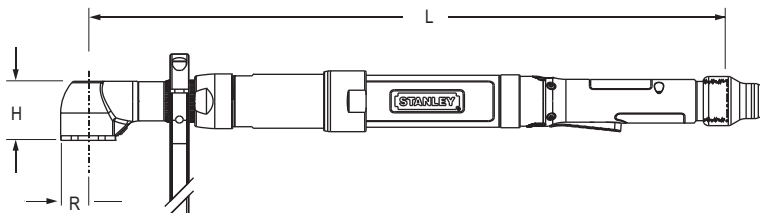
Standard Configuration				A19 Output Options				Mounting Options				
Rear Facing Lever	20K100000	Reaction Bar Steel		20D100102	A19 Spline 1/2 SD Ball Retainer			20K200000	Swivel Bail EA34			
				20D100101	A19 Spline, 1/2" SD Anti Vibration			20K100500	Base Mount EA34			
				20D100107	A19 Double Ended 1/2" SD 'RH Threaded			20K100300	Flange Mount EA34			
Gearcase Extensions				Handle Options				Vinyl Head Cover Options		A22 Output Options		
Add E6 to Model#	6"	Extension for EA34 Models		20H207910	Rubber Grip	20D250707	A19	20D100309	A22 Flush Socket			
Add E8 to Model#	8"	Extension for EA34 Models		20H100008	Front Facing Lever	20D250708	A22	20D100322	A22 Double Ended 1/2" SD			
Add E10 to Model#	10"	Extension for EA34 Models										
Example: EA34LA22-120E6												

## EA Flush Angle Lever (3 to 120 Nm)



MODEL	Rated Speed RPM	Torque Range		"R" Side to Center		"H" Head Height		"L" Length		Weight		Output
		Nm	lb ft	mm	in	mm	in	mm	in	kg	lb	Flush Socket Head
EA23LA13-10	2090	3 - 10	2.2 - 7.4	13	0.5	35	1.4	379	14.9	1.1	2.4	20D121914
EA23LA13-18	925	5.4 - 18	4 - 13	13	0.5	35	1.4	393	15.5	1.2	2.6	
EA23LA14-22	890	6.6 - 22	5 - 16	14	0.55	36	1.4	401	15.8	1.3	2.9	Contact Stanley
EA23LA14-31	615	9 - 31	7 - 23	14	0.55	36	1.4	401	15.8	1.3	2.9	
EA33LA14-29	1415	9 - 29	6 - 21	14	0.55	36	1.4	426	16.8	1.4	3.1	
EA33LA14-35	1115	10.5 - 35	7.2 - 26	14	0.55	36	1.4	426	16.8	1.4	3.1	
EA33LA18-40	1020	12 - 40	9 - 29	17.5	0.69	39	1.55	455	17.9	1.6	3.5	
EA33LA18-46	805	14 - 46	10 - 34	17.5	0.69	39	1.55	455	17.9	1.6	3.5	
EA33LA19-48	780	15 - 48	10.5 - 35	19	0.75	49	1.9	458	18	1.8	4	
EA33LA19-60	685	18 - 60	13 - 44	19	0.75	49	1.9	458	18	1.8	4	

Standard Configuration		Handle Options		Flush Socket Options		Vinyl Head Cover Options	
Rear Facing Lever	20K101400	20H207910	Rubber Grip	A13 Flush Socket Options (see p 28)	20D250705	A13	
Mounting Options		20H100008	Front Facing Lever	A14 Flush Socket Options (see p 28)	20D250701	A14	
				A18 Flush Socket Options (see p 28)	20D250702	A18	
				A19 Flush Socket Options (see p 34)	20D250707	A19	

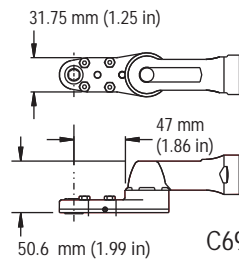
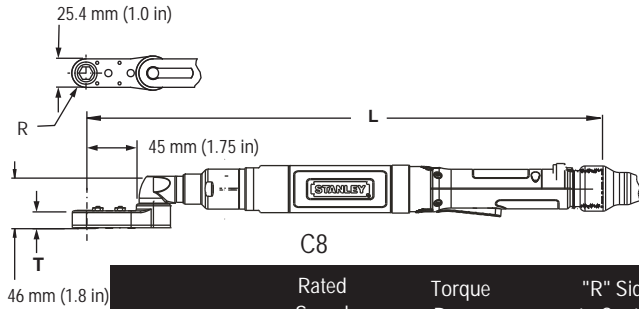


MODEL	Rated Speed RPM	Torque Range		"R" Side to Center		"H" Head Height		"L" Length		Weight		Output
		Nm	lb ft	mm	in	mm	in	mm	in	kg	lb	Flush Socket Head
EA34LA19-80	530	24 - 80	18 - 59	19	0.75	49	1.9	475	18.7	2.1	4.6	20D100106
EA34LA22A-100	410	30 - 100	22 - 74	22	0.88	50	2	514	20.2	2.7	5.9	20D100309
EA34LA22A-120	340	36 - 120	27 - 88.5	22	0.88	50	2	514	20.2	2.7	5.9	

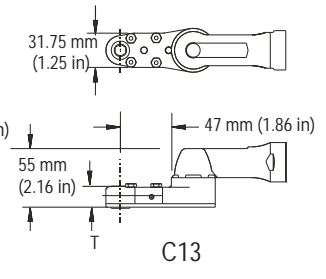
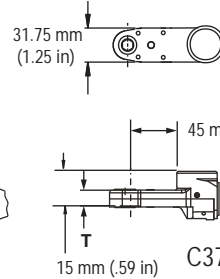
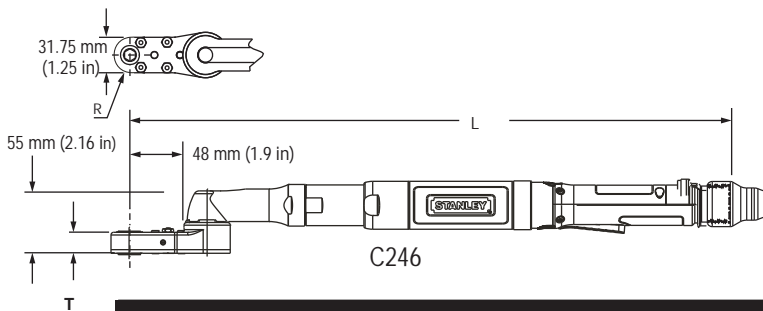
Standard Configuration		Flush Socket Options (See p 34)				Handle Options		Vinyl Head Cover Options	
Rear Facing Lever	20K100000	Gearcase Extensions (See Above)				20H207910	Rubber Grip	20D250707	A19
						20H100008	Front Facing Lever	20D250708	A22

Tool Configuration  
 Select model and options.  
 See p 14-19 for Cables/Controllers.  
 See p 34 for Standard Hex Socket Options.

## EA Crowfoot Lever (4.5 to 88 Nm)

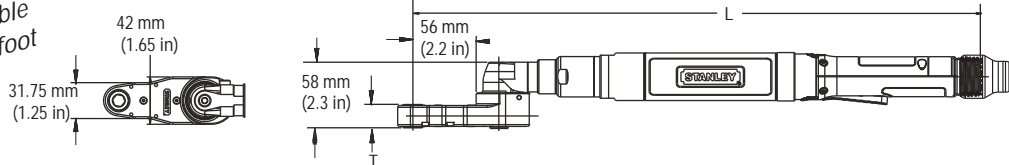


MODEL	Rated Speed (RPM)	Torque Range (Nm / lb ft)		"R" Side to Center (mm / in)		"R" Nose Radius (mm / in)		"T" Thickness (mm / in)		"L" Length (mm / in)		Weight (kg / lb)		m Hex Size (mm (in))
EA23LC8-16	730	5 - 16	3.5 - 12	13	0.5	13	0.5	16	0.64	453	17.8	1.5	3.4	13 (1/2)
EA23LC69-15	820	4.5 - 15	3.5 - 11	16	0.63	13.5	0.53	16	0.64	498	19.6	2.2	4.8	
EA33LC69-27	905	8 - 27	6 - 20	16	0.63	13.5	0.53	16	0.64	523	20.6	2.2	5	

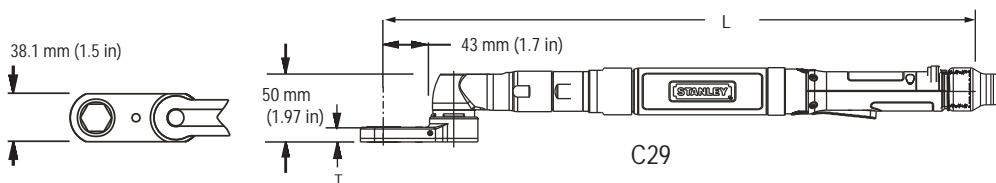


MODEL	Rated Speed (RPM)	Torque Range (Nm / lb ft)		"R" Side to Center (mm / in)		"R" Nose Radius (mm / in)		"T" Thickness (mm / in)		"L" Length (mm / in)		Weight (kg / lb)		Maximum Hex Size (mm (in))
EA23LC379-30	410	9 - 30	6.5 - 22	16	0.6	13.5	0.53	15	0.58	460	18.1	1.6	3.6	13 (1/2)
EA23LC246-20	640	6 - 20	4.5 - 15	16	0.63	16	0.63	20.5	0.81	499	19.6	2.2	5	
EA33LC246-38	710	12 - 38	9 - 28	16	0.63	16	0.63	20.5	0.81	524	20.6	2.4	5.2	
EA23LC13-18	720	5.5 - 18	4 - 13	16	0.63	13.5	0.53	20.5	0.81	498	19.6	2.2	5	
EA33LC13-30	795	9 - 30	6.5 - 22	16	0.63	13.5	0.53	20.5	0.81	523	20.6	2.4	5.2	

Indexable Crowfoot



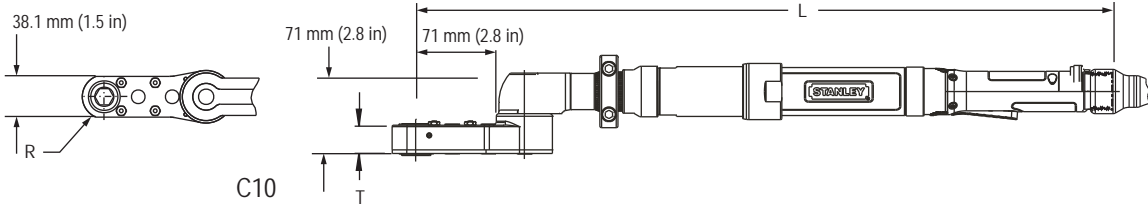
MODEL	Rated Speed (RPM)	Torque Range (Nm / lb ft)		"R" Side to Center (mm / in)		"R" Nose Radius (mm / in)		"T" Thickness (mm / in)		"L" Length (mm / in)		Weight (kg / lb)		Maximum Hex Size (mm (in))
EA33LC800-27	905	8 - 27	6 - 20	16	0.63	13.5	0.53	20.5	0.81	502	19.8	2.3	5.1	13 (1/2)



MODEL	Rated Speed (RPM)	Torque Range (Nm / lb ft)		"R" Side to Center (mm / in)		"R" Nose Radius (mm / in)		"T" Thickness (mm / in)		"L" Length (mm / in)		Weight (kg / lb)		Maximum Hex Size (mm (in))
EA33LC29-35	685	10.5 - 35	8 - 26	20.5	0.81	20.5	0.81	14	0.55	527	20.7	2.5	5.6	19 (3/4)
EA34LC29-45	530	13.5 - 45	10 - 33	20.5	0.81	20.5	0.81	14	0.55	570	22.5	2.8	6.2	

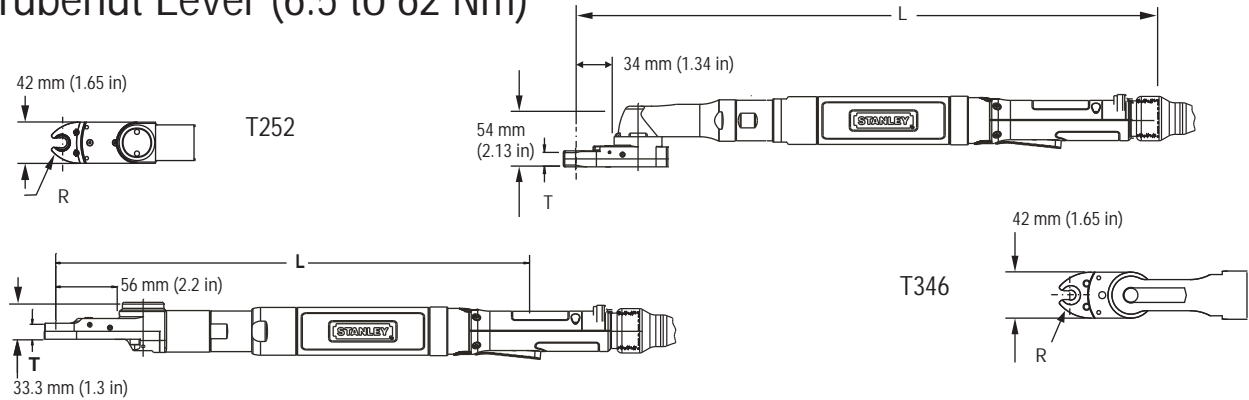
Tool Configuration  
 Select model and options.  
 See p 14-19 for Cables/Controllers.  
 See p 34 for Standard Hex Socket Options.

## EA Crowfoot Lever (4.5 to 88 Nm)

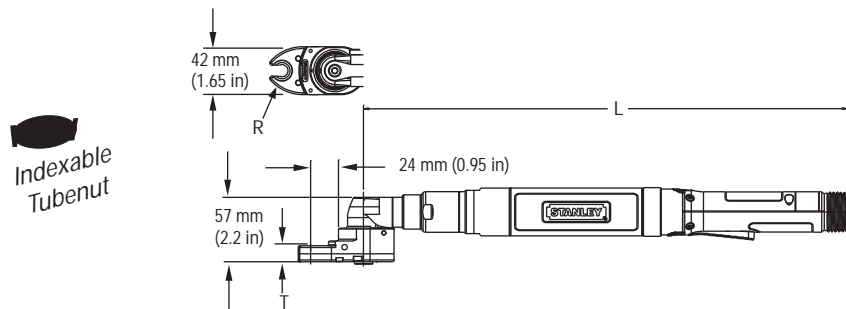


MODEL	Rated Speed (RPM)	Torque Range (Nm / lb ft)		"R" Side to Center (mm / in)		"R" Nose Radius (mm / in)		"T" Thickness (mm / in)		"L" Length (mm / in)		Weight (kg / lb)		Maximum Hex Size (mm (in))							
EA34LC10-49	445	15 - 49	11 - 36	20.5	0.81	20.5	0.81	28	1.1	610	24	3.4	7.4	19 (3/4)							
EA34LC10-88	360	26 - 88	20 - 65	20.5	0.81	20.5	0.81	28	1.1	610	25	3.4	7.4								
<b>Standard Configuration</b>				<b>Gearcase Extensions</b>						<b>Includes One Integral Socket</b>											
Rear Facing Lever				Add E4 to Model#						4" Extension for EA23/33 Models						Standard Hex Socket Options (see p 34)					
Reaction Bar   20K100000 Steel (E34 Models)				Add E6 to Model#						6" Extension for EA23/34 Models						Contact Stanley for Special Socket Options					
<b>Mounting Options</b>				Add E8 to Model#						8" Extension for EA23/34 Models						<b>Handle Options</b>					
20K101400 Swivel Bail EA23/33				Add E10 to Model#						10" Extension for EA23/34 Models						20H207910 Rubber Grip					
20K200000 Swivel Bail EA34				Example: EA33LC29-35E4												20H100008 Front Facing Lever					
20K100500 Base Mount EA34				<b>Vinyl Head Cover Options</b>						20D250723 C8						20D250712 C10					
20K100300 Flange Mount EA34				20D250721 C69						20D250714 C13											
				20D250717 C246						20D250718 C29											

## TubeNut Lever (6.5 to 62 Nm)



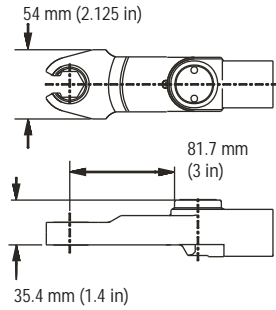
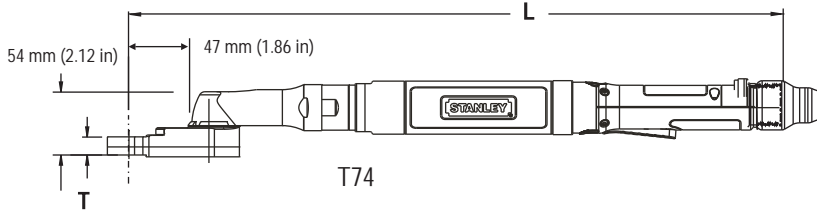
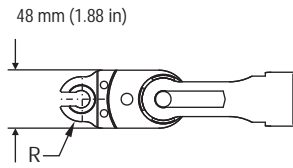
MODEL	Rated Speed (RPM)	Torque Range (Nm / lb ft)		"R" Side to Center (mm / in)		"R" Nose Radius (mm / in)		"T" Thickness (mm / in)		"L" Length (mm / in)		Weight (kg / lb)		Maximum Hex Size (mm (in))	Maximum Tube Size (mm (in))
EA33LT252-22	1300	6.5 - 22	5 - 16	13	0.5	13	0.5	14	0.54	510	20.1	2.4	5.2	13 (1/2)	8 (5/16)
EA33LT346-25	1105	7.5 - 25	5.5 - 18	13	0.5	13	0.5	14	0.54	511	20.1	2.2	4.9		



MODEL	Rated Speed (RPM)	Torque Range (Nm / lb ft)		"R" Side to Center (mm / in)		"R" Nose Radius (mm / in)		"T" Thickness (mm / in)		"L" Length (mm / in)		Weight (kg / lb)		Maximum Hex Size (mm (in))	Maximum Tube Size (mm (in))
EA33LT801-25	1105	7.5 - 25	5.5 - 18	13	0.5	13	0.5	14	0.54	473	18.6	2.2	4.9	13 (1/2)	8 (5/16)

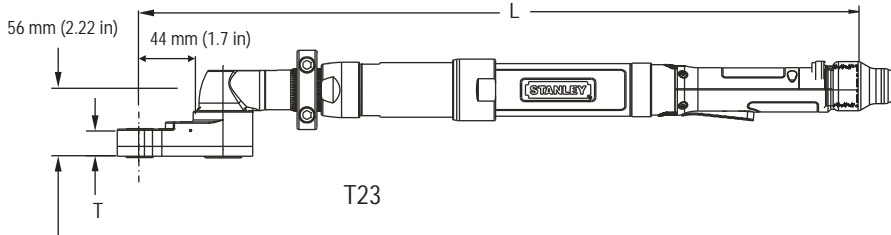
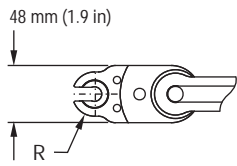
**Tool Configuration**  
 Select model and options.  
 See p 14-19 for Cables/Controllers.  
 See p 34 for Standard Hex Socket Options.

## Tubenut Lever (9 to 62 Nm)

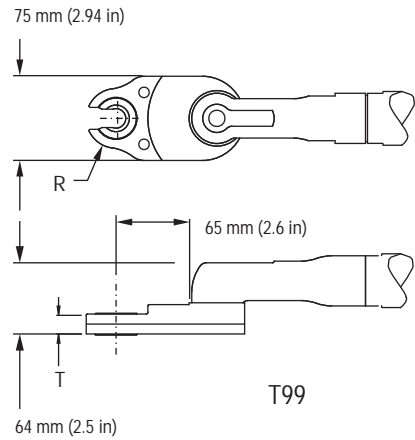


T264

MODEL	Rated Speed (RPM)	Torque Range (Nm / lb ft)		"R" Side to Center (mm / in)		"R" Nose Radius (mm / in)		"T" Thickness (mm / in)		"L" Length (mm / in)		Weight (kg / lb)		Maximum Hex Size (mm (in))	Maximum Tube Size (mm (in))
EA33LT74-30	805	9 - 30	6.5 - 22	18.5	0.73	18.5	0.73	14.5	0.57	517	20.3	2.4	5.3	18 (11/16)	11 (7/16)
EA23LT264-22	675	6.5 - 22	5 - 16	21.3	0.84	21.3	0.84	18	0.7	507	20	2	4.3	24 (15/16)	13 (1/2)
EA33LT264-44	740	13 - 44	9.5 - 32	21.3	0.84	21.3	0.84	18	0.7	532	21	2.1	4.6		
Standard Configuration		Handle Options			Gearcase Extensions						Includes One Integral Socket				
Rear Facing Lever		20H207910 Rubber Grip 20H100008 Front Facing Lever			Add E4 to Model# 4" Extension for EA23/33 Models Add E6 to Model# 6" Extension for EA23/33 Models Add E8 to Model# 8" Extension for EA23/33 Models Add E10 to Model# 10" Extension for EA23/33 Models Example: EA33LT74-30E4						Standard Hex Socket Options (see p 34) Contact Stanley for Special Socket Options				
Mounting Options		20K101400 Swivel Bail EA23/33			Vinyl Head Cover Options						20D250726 T252 20D250729 T74 20D250724 T346 20D250728 T264				



T23



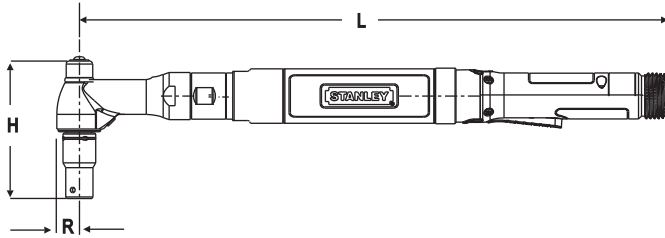
T99

MODEL	Rated Speed (RPM)	Torque Range (Nm / lb ft)		"R" Side to Center (mm / in)		"R" Nose Radius (mm / in)		"T" Thickness (mm / in)		"L" Length (mm / in)		Weight (kg / lb)		Maximum Hex Size (mm (in))	Maximum Tube Size (mm (in))
EA34LT23-41	605	12 - 41	9 - 30	18.5	0.73	18.5	0.73	23	0.92	575	22.6	3.5	7.7	18 (11/16)	11 (7/16)
EA34LT99-62	400	12.5 - 62	19 - 62	14 - 46	1.03	26	1.03	19.5	0.77	604	23.8	3.9	8.5	27 (1 1/16)	19 (3/4)
Standard Configuration		Reaction Bar: 20K100000 Steel (E34 Models)			Gearcase Extensions						Includes One Integral Socket				
Rear Facing Lever					Add E6 to Model# 6" Extension for EA34 Models Add E8 to Model# 8" Extension for EA34 Models Add E10 to Model# 10" Extension for EA34 Models Example: EA34LT99-62E6						Standard Hex Socket Options (see p 34) Contact Stanley for Special Socket Options				
Mounting Options		20K200000 Swivel Bail EA34 20K100500 Base Mount EA34 20K100300 Flange Mount EA34			Vinyl Head Cover Options						Handle Options				
					20D250727 T23 20D250730 T99						20H207910 Rubber Grip 20H100008 Front Facing Lever				



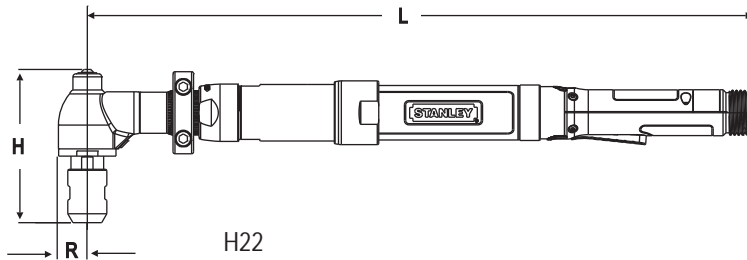
## Hold & Drive Options (14 to 110 Nm)

Tool Configuration  
 Select model and options.  
 See pp 14-19 for Cables/Controllers.  
 See pp 37-39 for Hold & Drive Options.

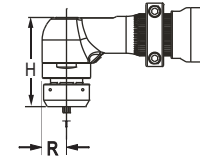


H18

MODEL	Rated Speed RPM	Torque Range		"R" Side to Center		"H" Head Height		"L" Length		Weight		Output
MODEL	RPM	Nm	lb ft	mm	in	mm	in	mm	in	kg	lb	Standard
EA33LH18V1-46	805	14 - 46	10 - 34	17.5	0.69	109	4.28	464	18.3	2	4.5	1" Tang
EA33LH18V2-46	805	14 - 46	10 - 34	17.5	0.69	142	5.58	464	18.3	2	4.5	2" Tang
Standard Configuration		H18 Output Options					Gearcase Extensions					
Rear Facing Lever		20D124600		1" Retraction H18 Bit Holder Head		Add E4 to Model#		4" Extension for EA33 Models				
Handle Options		20D124601		2" Retraction H18 Bit Holder Head		Add E6 to Model#		6" Extension for EA33 Models				
20H207910 Rubber Grip						Add E8 to Model#		8" Extension for EA33 Models				
20H100008 Front Facing Lever						Add E10 to Model#		10" Extension for EA33 Models				
Mounting Options								Example: EA33LH18-V1-46E6				
20K101400 Swivel Bail												
A3061 Wire Bail												



H22



N22

MODEL	Rated Speed RPM	Torque Range		"R" Side to Center		"H" Head Height		"L" Length		Weight		Output
MODEL	RPM	Nm	lb ft	mm	in	mm	in	mm	in	kg	lb	Standard
EA34LH22AV1-77	510	23 - 77	17 - 57	22	0.88	118	4.65	361	14.2	3.15	6.8	1" Tang
EA34LH22AV2-77	510	23 - 77	17 - 57	22	0.88	144	5.68	361	14.2	3.15	6.8	1" Tang
EA34LN22AV1-77	510	23 - 77	17 - 57	22	0.88	99	3.89	361	14.2	3.15	6.8	1" Tang
EA34LN22AV2-77	510	23 - 77	17 - 57	22	0.88	137	5.40	361	14.2	3.15	6.8	1" Tang
EA34LH22AV1-110	340	33 - 110	24 - 81	22	0.88	118	4.65	361	14.2	3.15	6.8	1" Tang
EA34LH22AV2-110	340	33 - 110	24 - 81	22	0.88	144	5.68	361	14.2	3.15	6.8	1" Tang
EA34LN22AV1-110	340	33 - 110	24 - 81	22	0.88	99	3.89	361	14.2	3.15	6.8	1" Tang
EA34LN22AV2-110	340	33 - 110	24 - 81	22	0.88	137	5.40	361	14.2	3.15	6.8	1" Tang
Standard Configuration		H22 Output Options					Gearcase Extensions					
Rear Facing Lever		20D103212		1" Retraction H22 Bit Holder Head		Add E6 to Model#		6" Extension for EA34 Models				
20K100000 Reaction Bar Steel		20D103214		2" Retraction H22 Bit Holder Head		Add E8 to Model#		8" Extension for EA34 Models				
Mounting Options								Add E10 to Model# 10" Extension for EA34 Models				
20K200000 Swivel Bail EA34		20D131300		1" Retraction N22 Bit Holder Head				Example: EA34LH22AV1-77E6				
20K100500 Base Mount EA34		20D103214		2" Retraction N22 Bit Holder Head								
20K100300 Flange Mount EA34												
								Handle Options				
								20H207910 Rubber Grip				
								20H100008 Front Facing Lever				

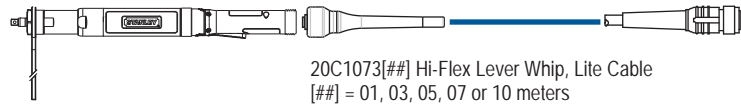
### Cable Selection

Select a tool whip for the tool model.  
 Select an extension for the selected whip number.  
 Note: All High Flex cables have an 8 cm (3 in) minimum bend radius at the tool end.

Stanley's EA tool cables (patent pending) work with QA Kappa and QA Alpha controllers.

## Cables for EA Tools

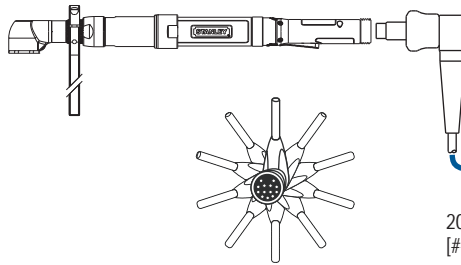
Fits  
EA23-34  
Lever Tools



20C1073[##] Hi-Flex Lever Whip, Lite Cable  
[##] = 01, 03, 05, 07 or 10 meters

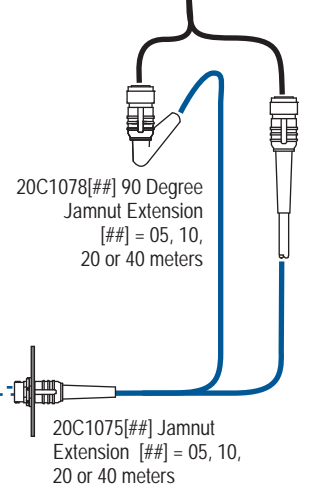


20C1076[##] Hi-Flex Lever Whip, Heavy Duty Cable  
[##] = 01, 03, 05, 07 or 10 meters



20C1077[##] 90° Hi-Flex Lever Whip  
[##] = 01, 03, 05, 07 or 10 meters

90° Hi-Flex Lever Whip  
Adjusts to 10 Positions @ 36°

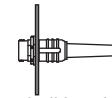


20C1078[##] 90 Degree  
Jamnut Extension  
[##] = 05, 10,  
20 or 40 meters

20C1075[##] Jamnut  
Extension [##] = 05, 10,  
20 or 40 meters

### NOTE:

Jamnut cables have connectors that can be fixed to bulkheads.





## Single Spindle Controller for EA and E Tools

The QA0001 Kappa controller operates any QPM tool from 0.5 to 2000 Nm as a stand alone controller. Kappa Controllers can be set-up from the front panel on the controller, or from a laptop using the serial connection with as many as 8 parameter sets.

Kappa controllers include a 24 VDC 8 inputs/8 outputs connector, 24V DC mating connector, plinth, power cords and Embedded Toolbox software.

Specifications
15w x 36h x 20d cm
6w x 14h x 8d in
Wt. 6.7 kg (15 lb)
Power Supply: 1A Internal
Ready for External PS
Power Source: Auto Detect
100 – 240 VAC, 50 – 60 Hz
Humidity: 0 to 95 % non-cond.

Red, Green, Yellow LED's for Limits Evaluation

Maintenance Due and ATC<sup>(Patented)</sup> Active LED's

New Larger, Easy-to-Read 240 x 64 Dot Display

Function Keys with Active Label Above

Cursor Keys with Center Button to Expand Lists

Numeric Keypad to Enter Numbers or Select Options

Menu driven user interface with Wizard Programming



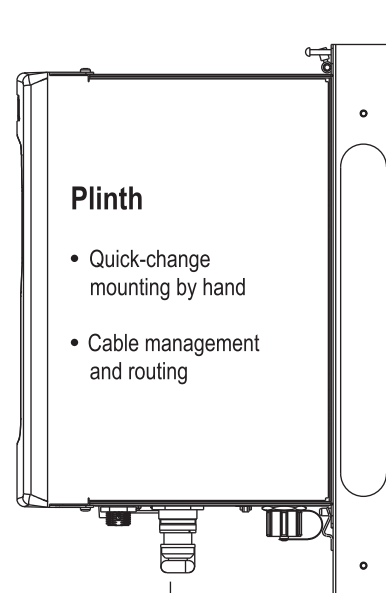
Step 1. Order Model No. QA0001

Step 2. Select a power cord by supply voltage, country and tool size (if noted, otherwise all tool models apply).

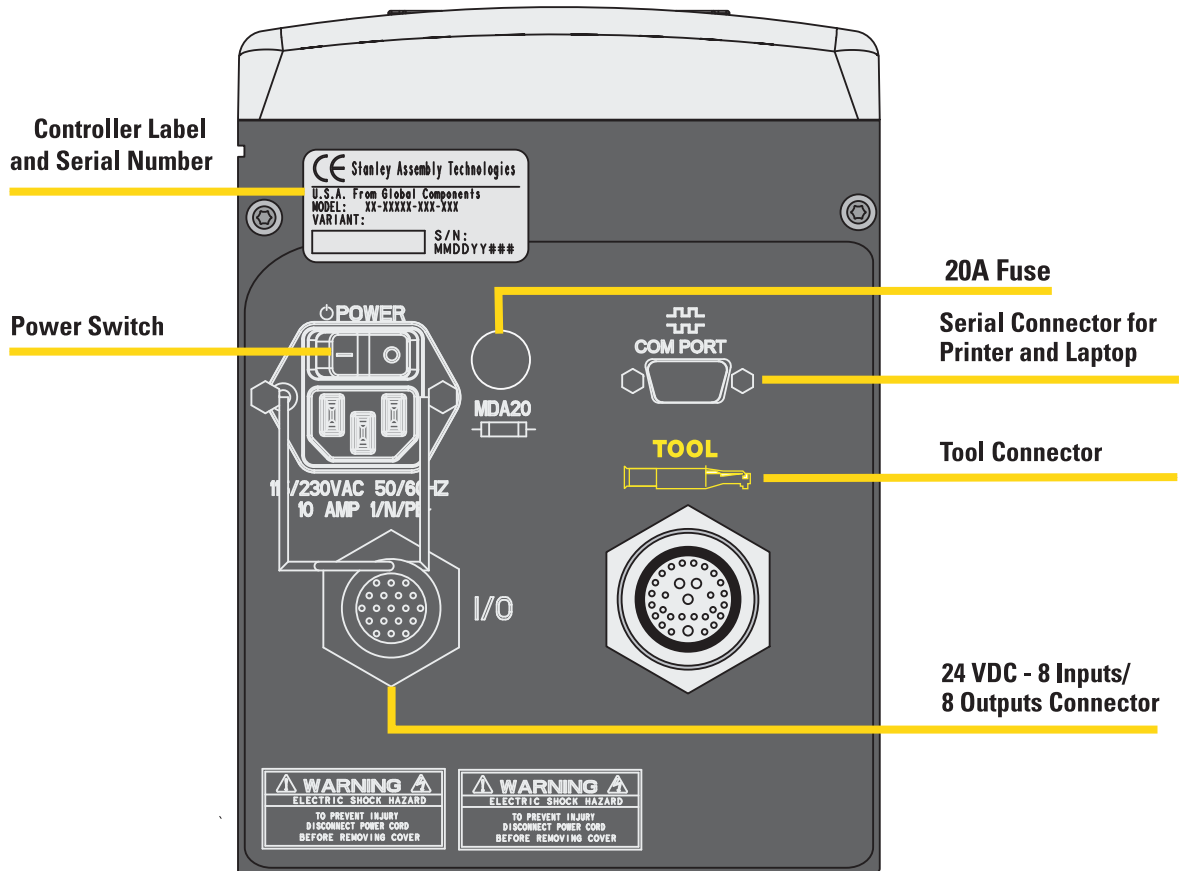
Part No.	Power Cord Description
20C203302	US Power Cord E_02 to E_34 115V, 2m
20C102002	US Power Cord E_44 to E_55 115V, 2m
21C103902	US Power Cord 230V, 2m (6-20R)
20C102102	Euro Power Cord 230V, 2m
20C102202	UK Power Cord 230V, 2m
20C103802	Twist Lock Power Cord 115V, 2m
20C103804	Twist Lock Power Cord 115V, 4m

Step 3. Select a Floor Stand.

Floor Stand Part No.	Description	QPM Spindles	Dimensions
21F100404	Floor Stand Kit	1 to 5	198h 61w 56d cm
Add /F to Model No.	Assembled System with Floor Stand		78 x 24 x 22 in



## Kappa Connectivity





# Single Spindle Controller for EA and E Tools

QA1001 Alpha Controller Operates any QPM tool from 0.5 to 2000 Nm either stand-alone or as part of a networked system. Alpha Controllers can be set-up from the front panel, a laptop, or any remote computer on the network. Menu-driven user interface includes Wizard Programming.

All Alpha Controllers include plinths, power cords and Embedded Toolbox software. Models equipped with Device Net also include 0.2 m Device Net cable/tee. The 24V DC option includes mating connector.

## Controls Assembly Process and Data Output

- Up to 99 Parameter Sets
- Stores 10,000 Torque/Angle Cycles, Date/time Stamp, Vin # or Part ID
- Traces of Last10 OK Rundowns, Last 10 No-Go Rundowns
- Statistics:  $C_{Pr}$ ,  $C_{PKr}$ ,  $P_{Pr}$ ,  $P_{PKr}$ ,  $C_{AMr}$ , Mean, Deviation, Etc.

## Step 1. Specify Model Number

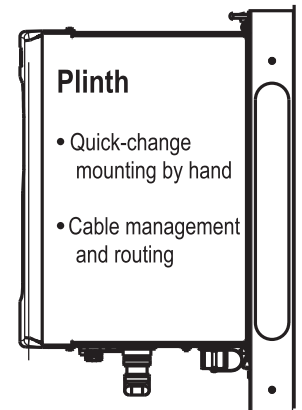
Alpha Model Number	Device Ethernet	Device Net	24 VDC Profibus I/O	Serial	Device Net Master
QA1001-XDV	+	+		+	+
QA1001-XDX	+	+			+
QA1001-XPV	+		+	+	+
QA1001-XPX	+		+		+
QA1001-XXV	+			+	+
QA1001-XXX	+				+
QA1001-MDV	+	+		+	+
QA1001-MDX	+	+			+
QA1001-MPV	+		+	+	+
QA1001-MPX	+		+		+
QA1001-MXV	+			+	+
QA1001-MXX	+				+

QA1001 Specifications
15w x 36h x 26d cm
6w x 14h x 10d in
Wt. 7.7 kg (17 lb)
Power Supply: 1A Internal
Ready for External PS
Power Source: Auto Detect
100 – 240 VAC, 50 – 60 Hz
Humidity: 0 to 95 % non-cond.



New Larger, Easy-to-Read on 240 x 64 Dot Display

Menu driven user interface with Wizard Programming.



### Plinth

- Quick-change mounting by hand
- Cable management and routing

Step 2. Select a power cord by supply voltage, country and tool size (if noted, otherwise all tool models apply).

Part No.	Power Cord Description
20C203302	US Power Cord E_02 to E_34 115V, 2m
20C102002	US Power Cord E_44 to E_55 115V, 2m
21C103902	US Power Cord 230V, 2m (6-20R)
20C102102	Euro Power Cord 230V, 2m
20C102202	UK Power Cord 230V, 2m
20C103802	Twist Lock Power Cord 115V, 2m
20C103804	Twist Lock Power Cord 115V, 4m

Step 3. Select a 24V I/O for X\_V models

Part No.	19-pin 24V I/O Port	Connection
21C104800	Mating Connector - Solder pins	Standard
21C104802	Mating Connector - Crimp pins	Optional
21C104804	Mating Connector - Crimp pins, crimp tool	Optional
21E102202	Breakout Box	Optional
21C202005	Extension Cable 5M	Optional
21C202010	Extension Cable 10M	Optional
21C202020	Extension Cable 20M	Optional

Step 4. Select a Floor Stand.

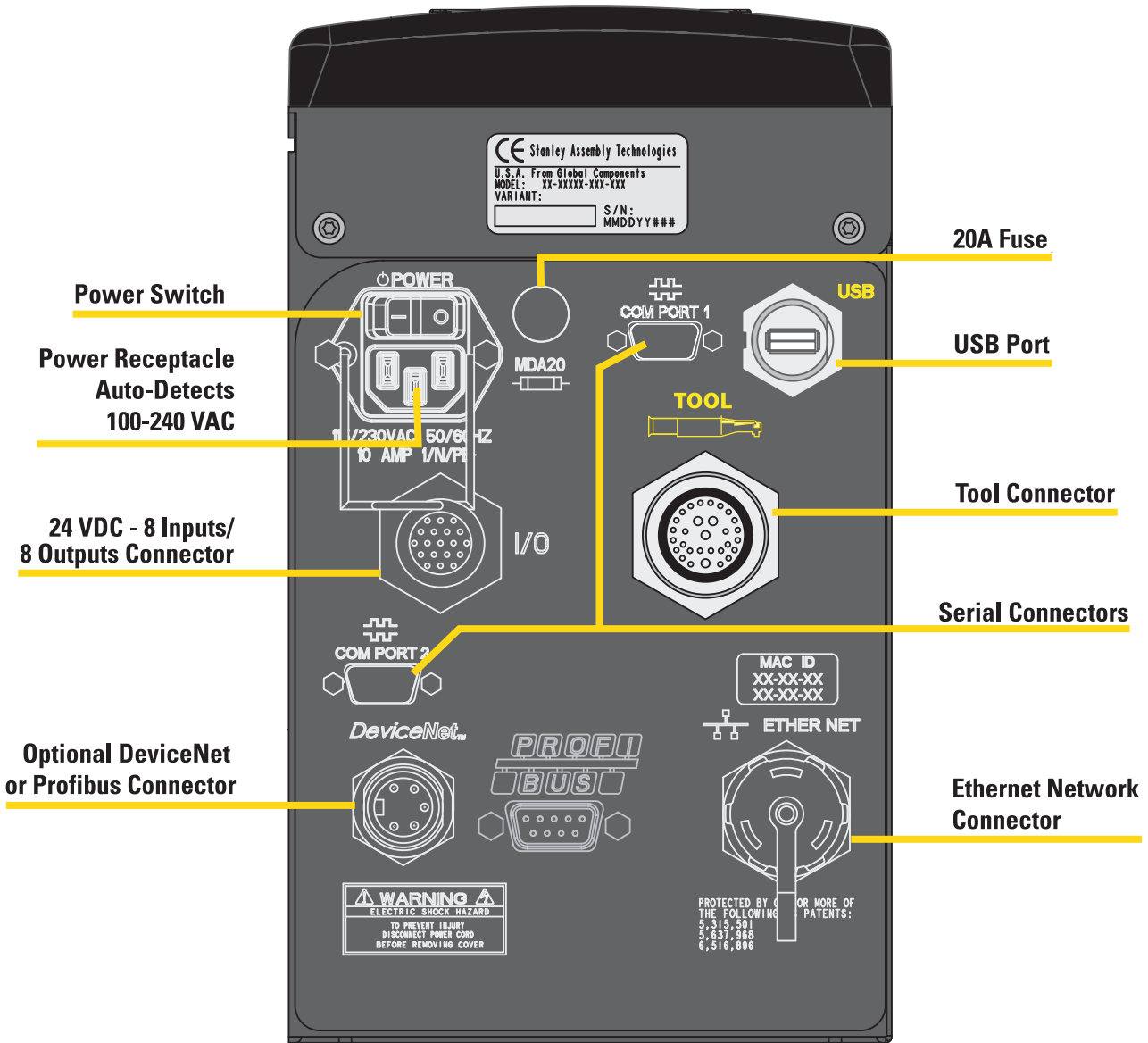
Floor Stand Part No.	Description	QPM Spindles	Dimensions
21F100404	Floor Stand Kit	1 to 5	198h 61w 56d cm
Add /F to Model No.	Assembled System with Floor Stand		78 x 24 x 22 in

## USB Memory Included



Part No.	Description
21K200100	USB Memory Stick

## Alpha Connectivity Options Fit Your Plant Interface Requirements





## Accessories

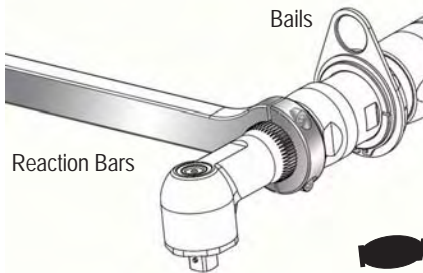
### Socket Trays



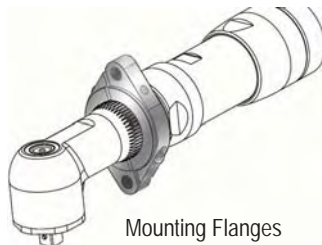
DeviceNet Models	# Socket Positions	Connection	Dimensions mm (in)		Cable	Square Drive	Max Socket Diam.
Q4S04-39	4	<i>DeviceNet</i> Sigma or Gamma	160x160x90	(6.3x6.3x3.5)	0.2m (8") with tee	to 1/2"	39mm (1-1/2")
Q4S08-39	8		360x160x90	(14.2x6.3x3.5)			
Q4S04-50	4		260x160x90	(10.2x6.3x3.5)			
Q4S04-120	4		560x160x90	(22x6.3x3.5)			
<b>DeviceNet Extension Cables</b>							
21C102101	1m	21C102110	10m				
21C102105	5m	21C102120	20m				
24VDC Models	# Socket Positions	Connection	Dimensions mm (in)		Cable	Square Drive	Max Socket Diam.
Q1S06-39	6	24VDC I/O Alpha/Kappa	260x160x90	(10.2x6.3x3.5)	Requires Cable Below	to 1/2"	39mm (1-1/2")
Q1S08-39	8		360x160x90	(14.2x6.3x3.5)			
Q1S04-50	4		260x160x90	(10.2x6.3x3.5)			
Q1S04-120	4		560x160x90	(22x6.3x3.5)			
<b>24VDC Cables for QA Alpha &amp; Kappa Controllers</b>				<b>24VDC Cables for Alpha Controllers</b>			
20C108101	1m	20C108110	10m	20C108001	1m	20C108010	10m
20C108103	3m	20C108120	20m	20C108003	3m	20C108020	20m
20C108107	7m			20C108007	7m		

### Mounting Options

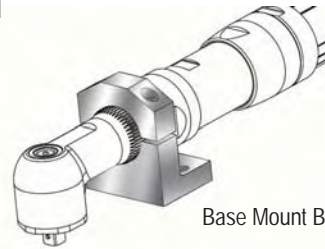
See Tool Tables for P/N 20K\_\_\_\_\_  
Mounting Options



Reaction Bars



Mounting Flanges



Base Mount Brackets

### Test Fixtures

#### Protective Head Covers



See Tool Tables for P/N 20D\_\_\_\_\_  
Vinyl Head Cover Options



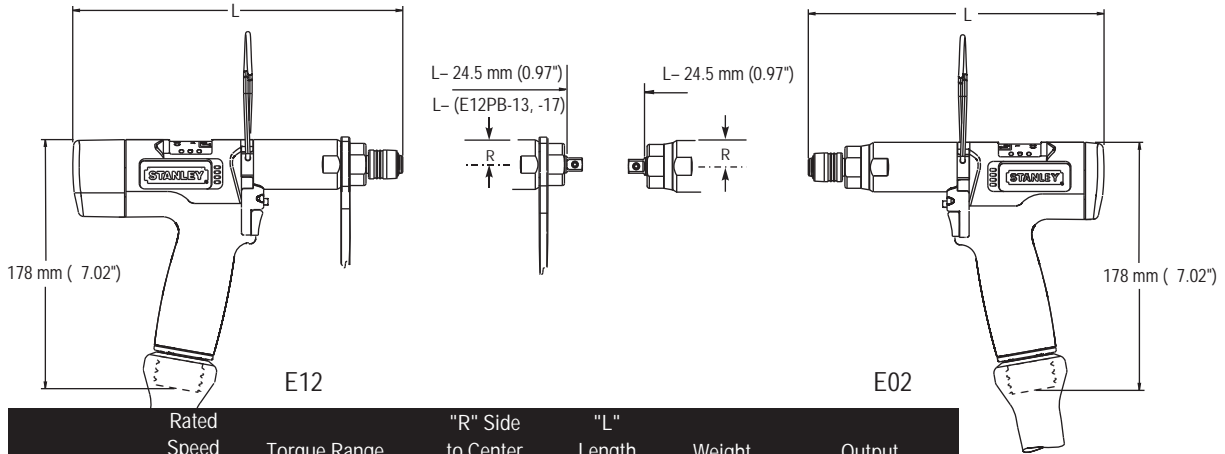
P/N 20V101000 ATC Joint Simulator  
(3) 1/2 - 13 Bolts with Hard,  
Medium and Soft Joints

MODEL	Joint Type	Max Input Torque		Torque Rate		Bolt Size
		Nm	lb ft	Nm	lb ft	in
T00916/S1	Soft	20	15	4	3	1/2 - 13
T00916/S2		38	28	8.7	6.4	1/2 - 13
T00915/S3		60	45	14	10.3	3/4 - 16
T00915/S4		88	65	22.6	16.7	3/4 - 16
T00915/S5		135	100	34	25	3/4 - 16
T00915/S6		200	148	50	37	3/4 - 16
T00915/H1	Hard	20	15	125	92.4	5/8 - 11
T00915/H2		40	30	285	210	5/8 - 11
T00915/H3		54	40	405	300	3/4 - 16
T00915/H4		75	55	610	450	3/4 - 16
T00915/H5		135	100	950	700	3/4 - 16
T00915/H6		200	148	1700	1257	3/4 - 16



Tool Configuration  
 Select model and options.  
 See p 47 for E Cables.  
 See pp 15-18 for QA Controllers.  
 See pp 48-52 for Q Controllers.

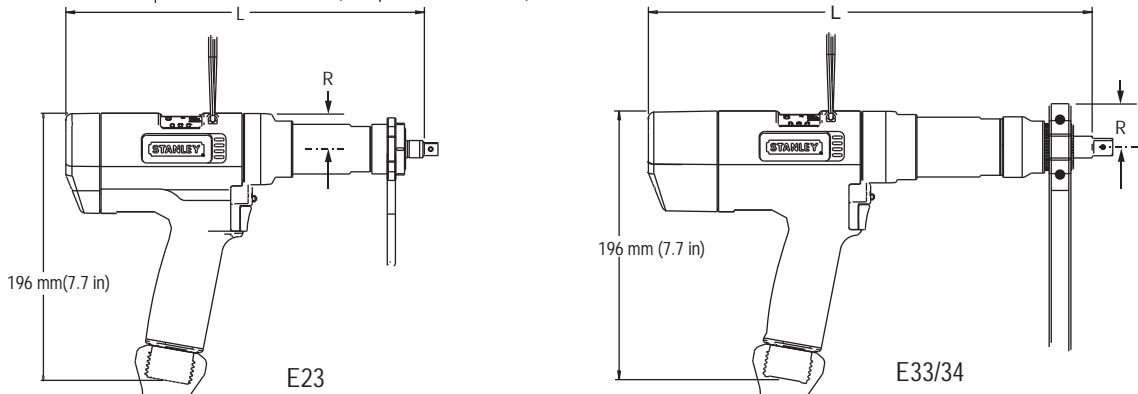
## Straight Pistol (0.6 to 340 Nm)



MODEL	Rated Speed RPM	Torque Range		"R" Side to Center		"L" Length		Weight		Output	
		Nm	lb ft	mm	in	mm	in	kg	lb	Standard	Options
E02PB-2	2050	0.6 - 2	0.5 - 1.5	18	0.7	197	7.7	0.7	1.5	1/4" QC	1/4" SD
E02PB-3	1620	1 - 3	0.7 - 2.2	18	0.7	211	8.3	0.8	1.7	1/4" QC	3/8" SD
E02PB-5	880	1.5 - 5	1 - 3.5	18	0.7	211	8.3	0.8	1.7	1/4" QC	3/8" SD
E12PB-4	2535	1.3 - 4	1 - 3	20	0.8	222	8.7	0.8	1.8	1/4" QC	3/8" SD
E12PB-10	1280	3 - 10	2 - 7	20	0.8	236	9.3	0.9	1.9	1/4" QC	3/8" SD
E12PB-13	880	4 - 13	3 - 9.5	20	0.8	212	8.3	0.9	1.9	1/4" QC	3/8" SD
E12PB-17	610	5 - 17	12.5	20	0.8	212	8.3	0.9	1.9	1/4" QC	3/8" SD

Standard Configuration			Handle Options			Mounting Options		
Bottom Exit Cable		20H207107	Rubber Grip	20K200007	Rear Bail Mount Kit			
20K100103	Reaction Bar Aluminum	20H206319	Top Exit Cable	A3061	Wire Bail			
	(E12PB-10 thru -17)	20H206325	Cooling Fan Kit	(Bottom Exit Cable Models Only)				

**E12 Output Option**  
 20D243503 | 3/8" Guided Ext Collar (See p 26 for extensions)

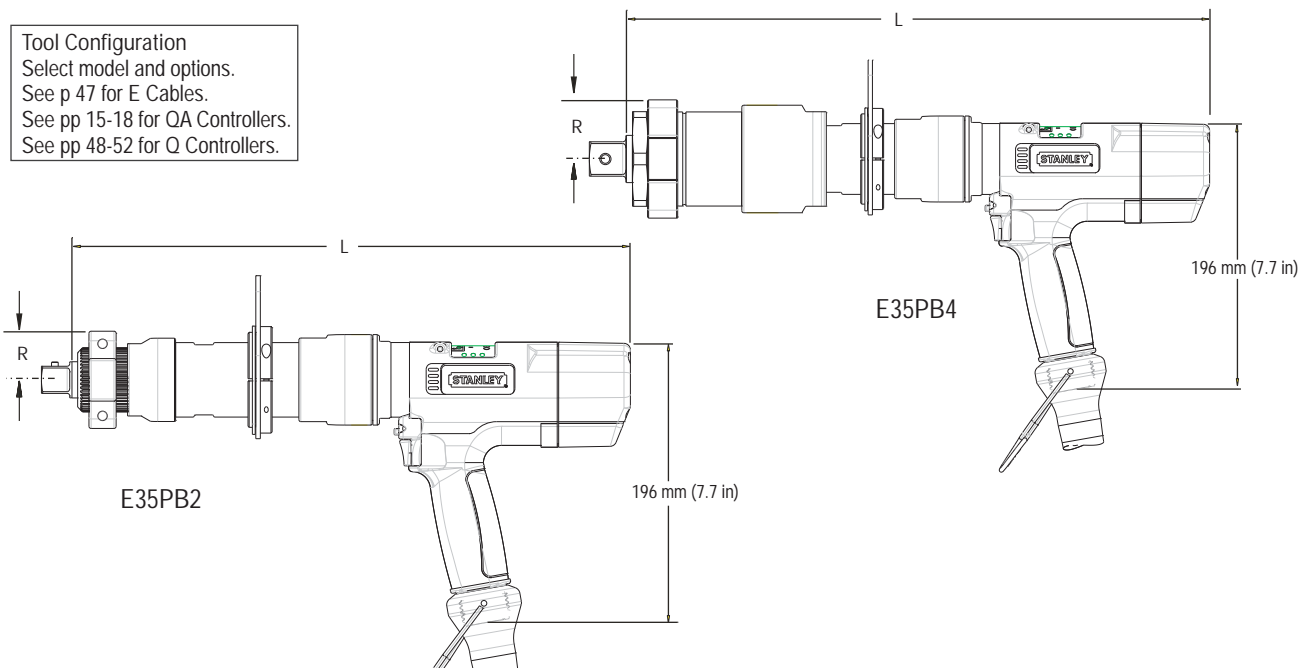


MODEL	Rated Speed RPM	Torque Range		"R" Side to Center		"L" Length		Weight		Output	
		Nm	lb ft	mm	in	mm	in	kg	lb	Standard	Options
E23PB-8	2245	2.5 - 8	2 - 6	26	1.04	248	9.7	1.3	2.8	3/8" SD	1/4" QC
E23PB-17	990	5 - 17	4 - 12.5	26	1.04	248	9.7	1.3	2.8	3/8" SD	1/4" QC
E23PB-21	785	6 - 21	5 - 15.5	26	1.04	263	10.3	1.4	3.2	3/8" SD	
E23PB-31	540	9 - 31	7 - 23	26	1.04	263	10.3	1.4	3.2	3/8" SD	
E33PB-32	1125	10 - 32	7 - 24	26	1.04	288	11.3	1.6	3.5	3/8" SD	
E33PB-40	890	12 - 40	9 - 30	26	1.04	288	11.3	1.6	3.5	3/8" SD	
E34PB1-60	605	18 - 60	13 - 44	32	1.25	324	12.8	2.4	5.2	1/2" SD	
E34PB1-74	490	22 - 74	17 - 55	32	1.25	324	12.8	2.4	5.2	1/2" SD	
E34PB1-100	365	30 - 100	22 - 74	32	1.25	324	12.8	2.4	5.2	1/2" SD	

Standard Configuration			Handle Options			Mounting Options		
Bottom Exit Cable		20H207107	Rubber Grip	20K200007	Rear Bail Mount Kit			
F3698	Reaction Bar Alum.E23	20H206319	Top Exit Cable	20K101400	Swivel Bail E23/33			
20K100100	Reaction Bar Steel E33	20H207111	Cooling Fan Kit	20K200000	Swivel Bail E34/44			
20K100000	Reaction Bar Steel E34		(Bottom Exit Cable Models Only)	20K101000	Flange Mount 23/33			
<b>E23/33 Spindle Options</b>				20K100300	Flange Mount 34/44			
20D100701	3/8"-24 Threaded			20K100100	Reaction Bar Steel E23			
20D100702	3/8" SD X 8" Ext			A8606	Base Mount 23/33			
20D243502	3/8" Guided Ext Collar (See p 26 for extensions)			20K100500	Base Mount 34/44			

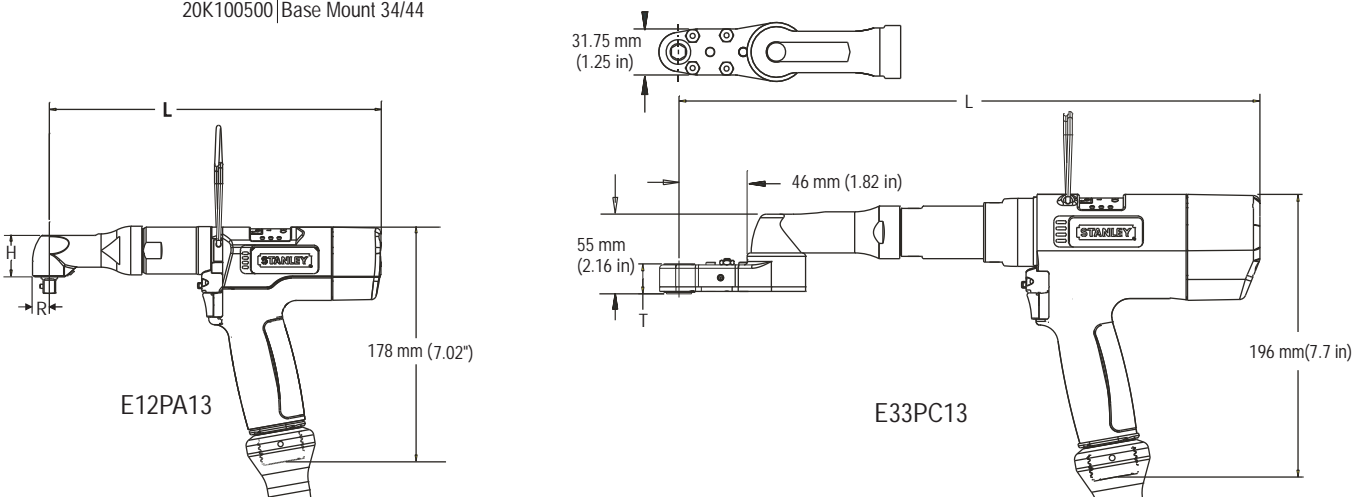
## Straight Pistol (0.6 to 340 Nm)

Tool Configuration  
 Select model and options.  
 See p 47 for E Cables.  
 See pp 15-18 for QA Controllers.  
 See pp 48-52 for Q Controllers.



	Rated Speed	Torque Range		"R" Side to Center		"L" Length		Weight		Output
MODEL	RPM	Nm	lb ft	mm	in	mm	in	kg	lb	Standard
E35PB2-155	225	47 - 155	35 - 115	34	1.34	393	15.5	3.6	8	3/4" SD
E35PB4-271	99	81 - 271	60 - 201	44	1.72	431	17	6.8	15	1" SD
E35PB4-340	99	102 - 340	76 - 252	44	1.72	431	17	6.8	15	

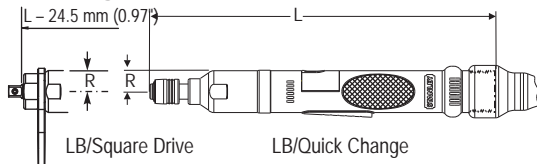
Standard Configuration		Handle Options		B2 Output Options	
Bottom Exit Cable		20H207107 Rubber Grip		20D102503 3/4" SD X 8" Ext	
20K100000 Reaction Bar Steel E34		20H206319 Top Exit Cable		20D102502 5/8" SD <200 Nm	
<b>Mounting Options</b>		20H207111 Cooling Fan Kit		<b>B4 Output Options</b>	
20K200007 Rear Bail Mount Kit		(Bottom Exit Cable Models Only)		20D208301 1" SD Ball Retainer	
20K200000 Swivel Bail E34/44				20D208302 1" SD x 1 1/2" Ext	
20K100300 Flange Mount 34/44					
20K100500 Base Mount 34/44					



	Rated Speed	Torque Range		"R" Side to Center		"R" Nose Radius		"H" Head Height		"L" Length		Weight		Output
MODEL	RPM	Nm	lb ft	mm	in	mm	in	mm	in	mm	in	kg	lb	Standard
E12PA13-14	850	4 - 14	3 - 10	13	0.5			33	1.3	252	9.9	1	2.1	3/8" SD
								"T" Thickness						Max Hex Size
E33PC13-30	760	9 - 30	6.5 - 22	13.5	0.53	13.5	0.53	20.5	0.81	404	15.9	2.4	5.2	13mm (1/2")

Standard Configuration		Mounting Options		Vinyl Head Cover Options		E33PC13 Includes One Integral Socket	
Bottom Exit Cable		A3061 Wire Bail		20D250711 A13		Standard Hex Socket Options (see Standard Sockets p 34)	
<b>E12P/E33P Handle Options: See p 20</b>				20D250714 C13		Contact Stanley for Special Socket Options	
				<b>A13 Output Options: See p 26</b>			

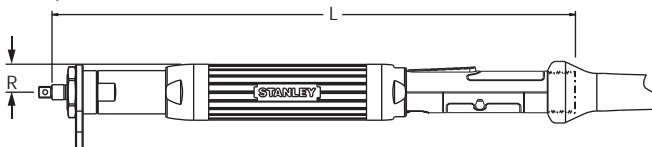
## Straight Lever (0.6 to 2000 Nm)



Tool Configuration  
 Select model and options.  
 See p 47 for E Cables.  
 See pp 15-18 for QA Controllers.  
 See pp 48-52 for Q Controllers.

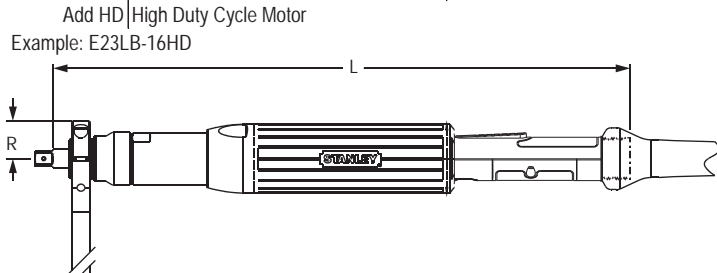
MODEL	Rated Speed (RPM)	Torque Range (Nm / lb ft)		"R" Side to Center (mm / in)		"L" Length (mm / in)		Weight (kg / lb)		Output		
E12LB-4	2535	0.6 - 4	0.4 - 3	18	0.7	282	11.1	0.7	1.5	1/4" QC	1/4" SD	3/8" SD
E12LB-6	1620	2 - 6	1.3 - 4.4	18	0.7	296	11.7	0.7	1.5	1/4" QC	1/4" SD	3/8" SD
E12LB-10	1280	3 - 10	2.2 - 7.4	18	0.7	296	11.7	0.7	1.5	1/4" QC	1/4" SD	3/8" SD
E12LB-13	880	4 - 13	3 - 9.5	18	0.7	296	11.7	0.7	1.5	1/4" QC	3/8" SD	
E12LB-17	610	5 - 17	4 - 12.5	18	0.7	296	11.7	0.7	1.5	1/4" QC	3/8" SD	

Standard Configuration | Handle Options | Mounting Options  
 Reaction Bar | 20K101601 (-10, -13, -17 Models) | 20H207910 Rubber Grip | A3061 Wire Bail  
 Rear Facing Lever | 20H102200 Lever Extension | 20K101601 Aluminum Reaction Bar (-6 Model)



MODEL	Rated Speed (RPM)	Torque Range (Nm / lb ft)		"R" Side to Center (mm / in)		"L" Length (mm / in)		Weight (kg / lb)		Output	
E23LB-8	2245	2.5 - 8	2 - 6	24	0.9	402	15.8	1.4	3.1	3/8" SD	1/4" QC
E23LB-16	1000	5 - 16	4 - 12	24	0.9	402	15.8	1.4	3.1	3/8" SD	1/4" QC
E23LB-21	785	6 - 21	5 - 15.5	24	0.9	417	16.4	1.6	3.5	3/8" SD	
E23LB-31	540	9 - 31	7 - 23	24	0.9	417	16.4	1.6	3.5	3/8" SD	
E33LB-32	1125	10 - 32	7 - 24	24	0.9	442	17.4	1.7	3.8	3/8" SD	
E33LB-40	890	12 - 40	9 - 30	24	0.9	442	17.4	1.7	3.8	3/8" SD	
E34LB1-60	605	18 - 60	13 - 44	32	1.25	478	18.8	2.4	5.2	1/2" SD	
E34LB1-74	490	22 - 74	17 - 55	32	1.25	478	18.8	2.4	5.2	1/2" SD	
E34LB1-100	365	30 - 100	22 - 74	32	1.25	478	18.8	2.4	5.2	1/2" SD	

Standard Configuration | Handle Options | Mounting Options  
 Rear Facing Lever | 20H100005 Front Facing Lever E23/33/34 | 20K101400 Swivel Bail E23/33  
 Reaction Bar: | 20H207207 Rubber Grip (Rear facing lever) | A8606 Base Mount 23/33  
 F3698 Aluminum (E23 Models) | E23/33 Spindle Options | 20K200000 Swivel Bail 34/44  
 20K100100 Steel (E33 Models) | 20D100701 3/8"-24 Threaded | 20K100100 Reaction Bar Steel E23  
 20K100000 Steel (E34/44 Models) | 20D100702 3/8" SD X 8" Ext | 20K101000 Flange Mount 23/33  
 E3\_L Motor Options | Headlight Kit | 20K100500 Base Mount 34/44  
 20M102600 E3L Cooling Fan Kit | 20K101800 E2\_L, E3\_L | 20K100300 Flange Mount 34/44



MODEL	Rated Speed (RPM)	Torque Range (Nm / lb ft)		"R" Side to Center (mm / in)		"L" Length (mm / in)		Weight (kg / lb)		Output	
E44LB1-66	885	20 - 66	15 - 49	32	1.25	487	19.2	2.9	6.4	1/2" SD	
E44LB1-100	590	30 - 100	22 - 74	32	1.25	487	19.2	2.9	6.4	1/2" SD	

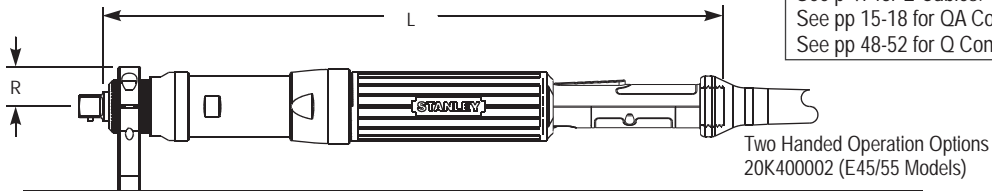
Standard Configuration | Handle Options | Mounting Options  
 Rear Facing Lever | 20H100005 Front Facing Lever | 20K200000 Swivel Bail 34/44  
 20K100000 Reaction Bar Steel | 20H207207 Rubber Grip | 20K100500 Base Mount 34/44  
 E4\_L Motor Options | (Rear facing lever) | 20K100300 Flange Mount 34/44

Add HD | High Duty Cycle Motor  
 Example: E44LB-66HD



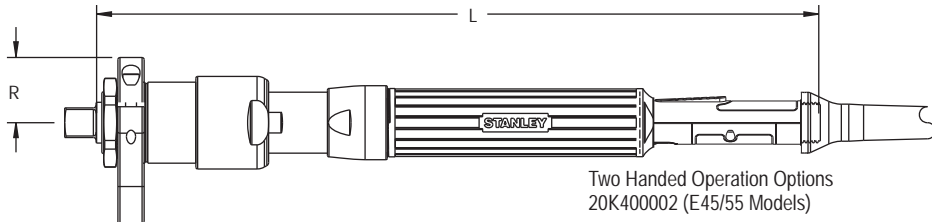
# Straight Lever (0.6 to 2000 Nm)

Tool Configuration  
 Select model and options.  
 See p 47 for E Cables.  
 See pp 15-18 for QA Controllers.  
 See pp 48-52 for Q Controllers.



MODEL	Rated Speed (RPM)	Torque Range		"R" Side to Center		"L" Length		Weight		Output
		Nm	lb ft	mm	in	mm	in	kg	lb	Standard
E45LB2-160	345	48 - 160	35 - 118	34	1.35	533	21	4.4	9.6	3/4" SD
E45LB2-250	220	75 - 250	55 - 184	34	1.35	533	21	4.4	9.6	3/4" SD
E55LB2-127	720	38 - 127	28 - 94	34	1.35	560	22.1	4.7	10.3	3/4" SD
E55LB2-200	475	60 - 200	44 - 147	34	1.35	560	22.1	4.7	10.3	3/4" SD
E55LB2-250	380	75 - 250	55 - 184	34	1.35	560	22.1	4.7	10.3	3/4" SD
Standard Configuration		Handle Options				Mounting Options				
Rear Facing Lever		20H100105		Front Facing Lever		20K200100		Swivel Bail E45/55		
20K100200		Reaction Bar Steel		20H207207		Rubber Grip (Rear facing lever)		20K100600		Base Mount E45/55
E4_L/E5_L Motor Options		B2 Output Options				20K100700				
Add HD   High Duty Cycle Motor		20D102503		3/4" SD X 8" Ext <250 Nm (184 lb ft)						
Example: E45LB-160HD		20D102502		5/8" SD <200 Nm (147 lb ft)						
		20D102603		3/4" SD X 8" Ext -250 Nm (184 lb ft)						

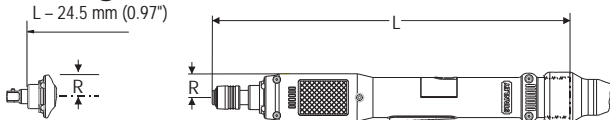
Two Handed Operation Options  
 20K400002 (E45/55 Models)



Two Handed Operation Options  
 20K400002 (E45/55 Models)

MODEL	Rated Speed (RPM)	Torque Range		"R" Side to Center		"L" Length		Weight		Output
		Nm	lb ft	mm	in	mm	in	kg	lb	Standard
E55LB3-322	230	97 - 322	71 - 237	32	1.25	573	22.5	5.3	11.5	3/4" SD
E55LB4-471	185	141 - 471	101 - 347	44	1.7	621	24.4	7.4	16.3	1" SD
E55LB4-623	140	187 - 623	138 - 459	44	1.7	621	24.4	7.4	16.3	1" SD
E55LB4-800	90	240 - 800	177 - 590	44	1.7	621	24.4	7.4	16.3	1" SD
E55LB5-1023	75	307 - 1023	226 - 754	48	1.9	651	25.6	9.6	21.1	1" SD
E55LB5-1637	45	491 - 1637	362 - 1207	48	1.9	683	26.9	12	26.4	1" SD
E55LB5-2005	35	602 - 2005	444 - 1479	48	1.9	683	26.9	12	26.4	1" SD
Standard Configuration		Handle Options				Mounting Options				
Rear Facing Lever: Reaction Bar:		20H100105		Front Facing Lever		20K200100		Swivel Bail E45/55		
B4487 Steel (E55LB3)		20H207207		Rubber Grip (Rear facing lever)		F4201		Base Mount B4/B5		
F4192 Steel (B4 Models, B5-1023)		B3 Output Options				20K101100		Flange Mount B4/B5		
J4228 Steel (E55LB5-1637, -2005)		20D104502		3/4" SD/Ball Retainer		H1140		Base Mount B3		
E5_L Motor Options		B4 Output Options				M4329				
Add HD   High Duty Cycle Motor		20D208301		1" SD Ball Retainer						
Example: E55LB-322HD		20D208302		1" SD x 1 1/2" Ext						

# Straight Motors (0.6 to 2000 Nm)

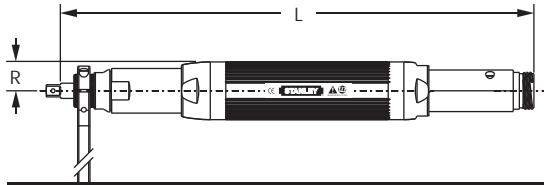


LP (Push to Start)

MODEL	Rated Speed (RPM)	Torque Range		"R" Side to Center		"L" Length		Weight		Output	
		Nm	lb ft	mm	in	mm	in	kg	lb	Standard	Options
E12LP-4	2535	0.6 - 4	0.4 - 3	21	0.83	314	12.3	0.7	1.6	1/4" QC	1/4" SD 3/8" SD
E12LP-6	1620	2 - 6	1.3 - 4.4	21	0.83	314	12.3	0.7	1.6	1/4" QC	1/4" SD 3/8" SD
E12LP-10	1280	3 - 10	2.2 - 7.4	21	0.83	314	12.3	0.7	1.6	1/4" QC	1/4" SD 3/8" SD
E12LP-13	880	4 - 13	3 - 9.5	21	0.83	314	12.3	0.7	1.6	1/4" QC	3/8" SD
E12LP-17	610	5 - 17	4 - 12.5	21	0.83	314	12.3	0.7	1.6	1/4" QC	3/8" SD
Standard Configuration		Handle Options				E1_L Motor Options					
Front Facing Lever		20H207915		Rubber Grip		Add HD   High Duty Cycle Motor					
Headlights		Mounting Options				Example: E12LP-17HD					
20K101700		Mounting Collar Kit		A3061		Wire Bail					

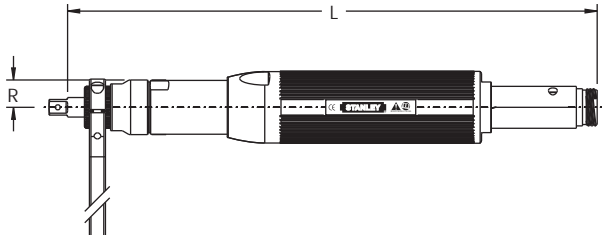
## Straight Motors (0.6 to 2000 Nm)

Tool Configuration  
 Select model and options.  
 See p 47 for E Cables.  
 See pp 15-18 for QA Controllers.  
 See pp 48-52 for Q Controllers.



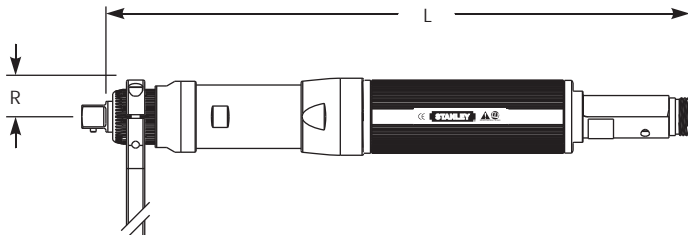
MODEL	Rated Speed RPM	Torque Range		"R" Side to Center		"L" Length		Weight		Output	
		Nm	lb ft	mm	in	mm	in	kg	lb	Standard	Options
E23MB-8	2245	2.5 - 8	2 - 6	24	0.93	344	13.6	1.4	3.1	3/8" SD	1/4" QC
E23MB-16	1000	5 - 16	4 - 12	24	0.93	344	13.6	1.4	3.1	3/8" SD	1/4" QC
E23MB-21	785	6 - 21	5 - 15.5	24	0.93	359	14.1	1.6	3.5	3/8" SD	
E23MB-31	540	9 - 31	7 - 23	24	0.93	359	14.1	1.6	3.5	3/8" SD	
E33MB-32	1125	10 - 32	7 - 24	24	0.93	385	15.1	1.7	3.8	3/8" SD	
E33MB-40	890	12 - 40	9 - 30	24	0.93	385	15.1	1.7	3.8	3/8" SD	
E34MB1-60	605	18 - 60	13 - 44	32	1.03	421	16.6	2.6	5.7	1/2" SD	
E34MB1-74	490	22 - 74	17 - 55	32	1.03	421	16.6	2.6	5.7	1/2" SD	
E34MB1-100	365	30 - 100	22 - 74	32	1.03	421	16.6	2.6	5.7	1/2" SD	

Standard Configuration	Mounting Options	E23/33 Spindle Options
Reaction Bar: F3698 Aluminum (E23 Models) 20K100100 Steel (E33 Models) 20K100000 Steel (E34/44 Models)	A8606 20K101000 20K100500 20K100300 20K100100	Base Mount 23/33 Flange Mount 23/33 Base Mount 34/44 Flange Mount 34/44 Reaction Bar Steel E23
		20D100701 3/8"-24 Threaded 20D100702 3/8" SD X 8" Ext



MODEL	Rated Speed RPM	Torque Range		"R" Side to Center		"L" Length		Weight		Output
		Nm	lb ft	mm	in	mm	in	kg	lb	Standard
E44MB1-66	885	20 - 66	15 - 49	32	1.25	430	16.9	2.9	6.4	1/2" SD
E44MB1-100	590	30 - 100	22 - 74	32	1.25	430	16.9	2.9	6.4	1/2" SD

Standard Configuration	Mounting Options
20K100000 Reaction Bar Steel	20K100500 Base Mount 34/44 20K100300 Flange Mount 34/44



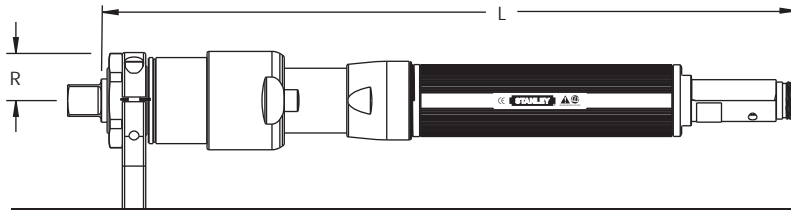
MODEL	Rated Speed RPM	Torque Range		"R" Side to Center		"L" Length		Weight		Output
		Nm	lb ft	mm	in	mm	in	kg	lb	Standard
E45MB2-160	345	48 - 160	35 - 118	34	1.35	475	18.7	4.4	9.6	3/4" SD
E45MB2-250	220	75 - 250	55 - 184	34	1.35	475	18.7	4.4	9.6	3/4" SD
E55MB2-127	715	38 - 127	28 - 94	34	1.35	503	19.8	4.7	10.3	3/4" SD
E55MB2-200	475	60 - 200	44 - 147	34	1.35	503	19.8	4.7	10.3	3/4" SD
E55MB2-250	380	75 - 250	55 - 184	34	1.35	503	19.8	4.7	10.3	3/4" SD

Standard Configuration	Mounting Options	B2 Output Options
20K100200 Reaction Bar Steel	20K100600 Base Mount E45/55 20K100700 Flange Mount E45/55	20D102503 3/4" SD X 8" Ext <250 Nm (184 lb ft) 20D102502 5/8" SD <200 Nm (147 lb ft) 20D102603 3/4" SD X 8" Ext -250 Nm (184 lb ft)





## Straight Motors (0.6 to 2000 Nm)

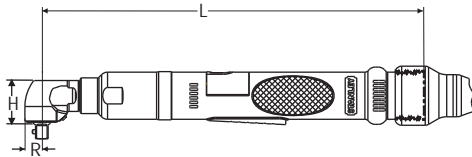


Tool Configuration  
 Select model and options.  
 See p 47 for E Cables.  
 See pp 15-18 for QA Controllers.  
 See pp 48-52 for Q Controllers.

MODEL	Rated Speed RPM	Torque Range		"R" Side to Center		"L" Length		Weight		Output
		Nm	lb ft	mm	in	mm	in	kg	lb	Standard
E55MB3-322	230	97 - 322	71 - 237	35	1.25	517	20.4	5.3	11.5	3/4" SD
E55MB4-471	185	141 - 471	101 - 347	44	1.7	564	22.2	7.4	16.3	1" SD
E55MB4-623	140	187 - 623	138 - 459	44	1.7	564	22.2	7.4	16.3	1" SD
E55MB5-1023	75	307 - 1023	226 - 754	48	1.9	594	23.4	9.6	21.1	1" SD
E55MB5-1637	45	491 - 1637	362 - 1207	48	1.9	625	24.6	12	26.4	1" SD
E55MB5-2005	35	602 - 2005	444 - 1479	48	1.9	625	24.6	12	26.4	1" SD

Standard Configuration	B3 Output Options	Mounting Options
Reaction Bar: B4487 Steel (E55LB3) F4192 Steel (E55LB4-5 Models)	20D104502 3/4" SD/Ball Retainer B4 Output Options 20D208301 1" SD Ball Retainer 20D208302 1" SD x 1 1/2" Ext	20K200100 Swivel Bail E45/55 F4201 Base Mount B4/B5 20K101100 Flange Mount B4/B5 H1140 Base Mount B3 M4329 Flange Mount B3

## Angle Lever (0.4 to 401 Nm)



MODEL	Rated Speed RPM	Torque Range		"R" Side to Center		"H" Head Height		"L" Length		Weight		Output	
		Nm	lb ft	mm	in	mm	in	mm	in	kg	lb	Standard	Options
E12LA10-4	2325	0.6 - 4	0.4 - 3	10	0.4	30	1.2	271	10.7	0.7	1.6	1/4" SD	3/8" SD
E12LA10-6	1490	2 - 6	1.3 - 4.4	10	0.4	30	1.2	285	11.2	0.8	1.7	1/4" SD	3/8" SD
E12LA13-10	1080	3 - 10	2.2 - 7.4	13	0.5	33	1.3	287	11.3	0.8	1.7	3/8" SD	
E12LA13-14	850	4 - 14	3 - 10	13	0.5	33	1.3	287	11.3	0.8	1.7	3/8" SD	
E12LA13-18	590	5.5 - 18	4 - 13	13	0.5	33	1.3	287	11.3	0.8	1.7	3/8" SD	
E12LA14-23	600	7 - 23	5 - 17	14	0.55	36	1.4	297	11.7	0.9	1.9	3/8" SD	

Handle Options	Mounting Options	Vinyl Head Cover Options
20H207910 Rubber Grip 20H102200 Lever Extension	A3061 Wire Bail	20D250711 A13/A14

E1_L Motor Options	A13 Output Options: See page 25
Add HD   High Duty Cycle Motor Example: E12LA-10HD	

## Special Output Options

### Guided Extension Collars

### Pinch Point Protectors

Output	3/8" SD P/N	1/2" SD P/N	Output	3/8" SD P/N	1/2" SD P/N
A13	20D243003		A13	20D243002	
A14	20D243104		A14	20D243103	
A18	20D243203	20D243206	A18	20D243202	20D243205
A19 < 48 Nm	20D243303	20D243306	A19 < 48 Nm	20D243302	20D243305
A19			A19		
A22		20D243406	A22		20D243405

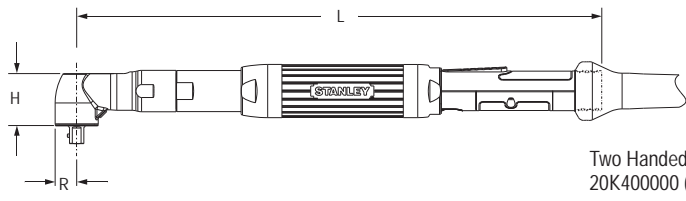
Each Guided Extension Collar Requires an Ultralite Extension

Extension Length	3/8 SD P/N	1/2 SD P/N
4"	20D124404	20D124504
6"	20D124406	20D124506
8"	20D124408	20D124508
10"	20D124410	20D124510
12"	20D124412	20D124512



# Angle Lever (0.4 to 401 Nm)

Tool Configuration  
 Select model and options.  
 See p 47 for E Cables.  
 See pp 15-18 for QA Controllers.  
 See pp 48-52 for Q Controllers.  
 Contact Stanley for Special Socket Options.



Two Handed Operation Options  
 20K400000 (E23/33 Models)

MODEL	Rated Speed (RPM)	Torque Range (Nm)	Torque Range (lb ft)	"R" Side to Center		"H" Head Height		"L" Length		Weight	Output	
				mm	in	mm	in	mm	in	kg	lb	Standard
E23LA13-11	1500	3.5 - 11	2.5 - 8	13	0.5	33	1.3	435	17.1	1.5	3.3	3/8" SD
E23LA14-21	725	6 - 21	5 - 15.5	13	0.5	36	1.4	449	17.7	1.6	3.6	3/8" SD
E23LA14-31	500	9 - 31	7 - 23	14	0.55	36	1.4	449	17.7	1.6	3.6	3/8" SD
E33LA14-33	1040	10 - 33	7 - 24	14	0.55	36	1.4	474	18.7	1.8	4	3/8" SD
E33LA18-46	750	14 - 46	10 - 34	17.5	0.69	39	1.55	490	19.3	2	4.3	3/8" SD
E33LA19-48	730	15 - 48	10.5 - 35	19	0.75	49	1.9	492	19.4	2.2	4.8	3/8" SD
E33LA19-60	570	18 - 60	13 - 44	19	0.75	49	1.9	492	19.4	2.2	4.8	1/2" SD

Standard Configuration      A13 Output Options      A19 Output Options <48 Nm (35 lb ft)

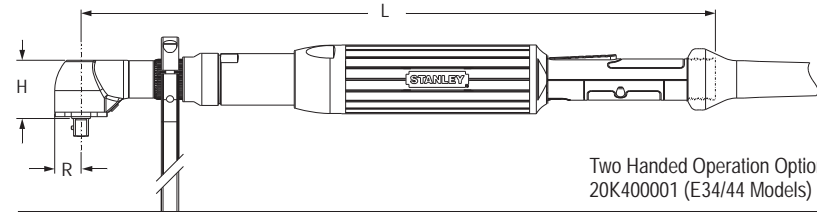
- Rear Facing Lever: A3157 1/4" Female Hex Magnetic (20D100000) A19 Thd, 1/2" SD
  - Handle Options: A3156 1/4" Square Drive (20D100006) A19 Thd 3/8 SD Ball Retainer
  - 20H100005 Front Facing Lever E23/33: A3351 1/4" - 28 Threaded Female (A19 Output Options <60 Nm (44 lb ft))
  - 20H207207 Rubber Grip (Rear facing lever): A3158 3/8" - 24 Threaded Magnetic (20D100003) Double Ended RH Thd 1/2"
  - Mounting Options: A3441 5/16" - 24 Threaded Female (20D100004) 1/2 SD Ball Retainer
  - 20K101400 Swivel Bail E23/33: F3376 Angle Head with Advcl Attachment (20D100001) A19, 1/2" SD Anti Vibration
  - Gearcase Extensions: B3117 3/8" Double Ended Square Drive (\* 20D100003) Double Ended RH Thrd 1/2" SD
- \* For Right Hand Assembly Only

- Add E4 to Model# 4" Extension for E23/33 Models: A14 Output Options
- Add E6 to Model# 6" Extension for E23/33 Models: 20D110000 3/8" SD Ball Retainer Anti-Vib (Headlight Kit)
- Add E10 to Model# 10" Extension for E23/33 Models: 20D118300 1/4" Hex Flush Socket Head (20K101800) E23L, E33L

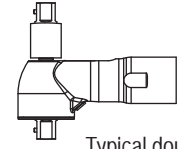
Example: E23LA14-31E4      A18 Output Options

- Vinyl Head Cover Options: F3832 1/4" Internal Hex (F3831) 3/8" - 24 Female Threaded
- 20D250705 A13 20D250702 A18: \* F3828 3/8" Double Ended Square Drive (F3829) 1/2" Square Drive
- 20D250701 A14 20D250707 A19: F3973 3/8" SD Paint Mark Angle Head (F3833) 5/16" Internal Hex
- E2\_L/E3\_L Motor Options: 20D104600 3/8" SD/Ball Anti-Vibration (F3830) 1/2" SD Double Ended
- 20M102600 E3L Cooling Fan Kit: 20D104606 3/8" Square Drive/Ball

Add HD High Duty Cycle Motor, Example: E23LA-11HD



Two Handed Operation Options  
 20K400001 (E34/44 Models)



Typical double ended square drive output

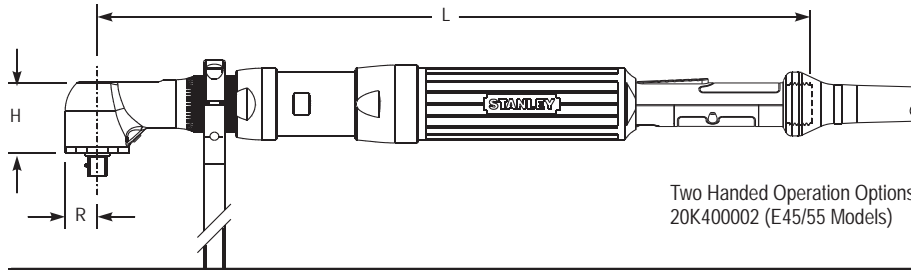
MODEL	Rated Speed (RPM)	Torque Range (Nm)	Torque Range (lb ft)	"R" Side to Center		"H" Head Height		"L" Length		Weight	Output	
				mm	in	mm	in	mm	in	kg	lb	Standard
E34LA19-70	435	21 - 70	51.5	19	0.75	49	1.9	522	20.6	2.9	6.3	1/2" SD
E34LA22-101	335	30 - 101	22 - 74.5	22	0.88	49	1.9	530	20.9	3	6.6	1/2" SD
E34LA22-115	300	35 - 115	26 - 85	22	0.88	49	1.9	530	20.9	3	6.6	1/2" SD
E44LA19-70	635	21 - 70	15 - 51.5	19	0.75	49	1.9	531	20.9	3.3	7.3	1/2" SD
E44LA22-101	545	30 - 101	22 - 74.5	22	0.88	49	1.9	539	21.2	3.5	7.6	1/2" SD
E44LA22-120	360	63 - 120	27 - 88.5	22	0.88	49	1.9	539	21.2	3.5	7.6	1/2" SD

Standard Configuration      A19 Output Options      Mounting Options

- Rear Facing Lever: 20D100102 A19 Spline 1/2 SD Ball Retainer (20K200000) Swivel Bail E34/44
- 20K100000 Reaction Bar Steel: 20D100101 A19 Spline, 1/2" SD Anti Vibration (20K100500) Base Mount 34/44
- Handle Options: 20D100107 A19 Double Ended 1/2" SD 'RH Threaded (20K100300) Flange Mount 34/44
- 20H100105 Front Facing Lever E44/45/55: A22 Output Options
- 20H207207 Rubber Grip (Rear facing lever): 20D100322 A22 Double Ended 1/2" SD
- E3\_L/E4\_L Motor Options: Gearcase Extensions: 20D250707 A19
- 20M102600 E3L Cooling Fan Kit: Add E6 to Model# 6" Extension for E34/44 Models (20D250708) A22
- Add HD High Duty Cycle Motor: Add E8 to Model# 8" Extension for E34/44 Models (Headlight Kit)
- Example: E34LA-70HD: Add E10 to Model# 10" Extension for E34/44 Models (20K101800) E34L

Tool Configuration  
 Select model and options.  
 See p 47 for E Cables.  
 See pp 15-18 for QA Controllers.  
 See pp 48-52 for Q Controllers.

## Angle Lever (0.4 to 401 Nm)

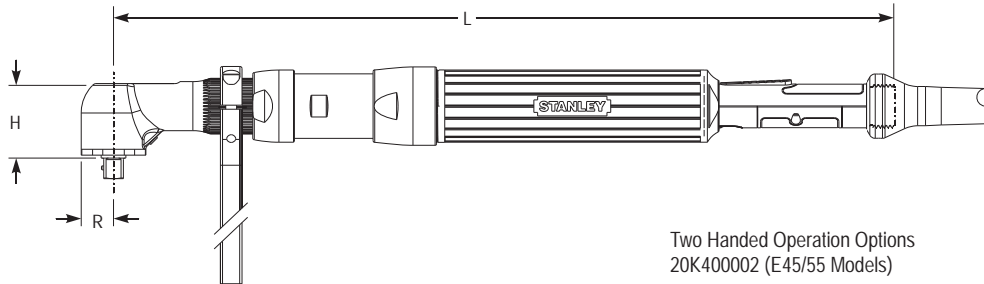


Two Handed Operation Options  
 20K400002 (E45/55 Models)

MODEL	Rated Speed RPM	Torque Range Nm	lb ft	"R" Side to Center mm	in	"H" Head Height mm	in	"L" Length mm	in	Weight kg	lb	Output Standard		
E45LA26-150	330	45 - 150	33 - 110	26	1.02	60	2.4	582	22.9	5.2	11.5	3/4" SD		
E45LA26-201	265	60 - 201	49 - 148	26	1.02	60	2.4	582	22.9	5.2	11.5	3/4" SD		
Standard Configuration		Gearcase Extensions						Mounting Options						
Rear Facing Lever 20K100200		Reaction Bar Steel		Add E6 to Model#		6" Extension for E45/55 Models		20K200100		Swivel Bail E45/55				
Handle Options		Add E9 to Model#		9" Extension for E45/55 Models		20K100700		Flange Mount 45/55			20K100600		Base Mount 45/55	
20H100105		Front Facing Lever E44/45/55		Example: E45LA26 - 150E6		A26 Output Options								
20H207207		Rubber Grip (Rear facing lever)		Vinyl Head Cover Options		20D100411		3/4" SD/Ball Retainer						
E4_L Motor Options		Add HD		High Duty Cycle Motor		Example: E45LA-150HD								

Special High Duty Cycle Models: Contact your Stanley representative for configuration options.

MODEL	Rated Speed RPM	Torque Range Nm	lb ft	"R" Side to Center mm	in	"H" Head Height mm	in	"L" Length mm	in	Weight kg	lb	Output Standard
E43LA19-60	700	18 - 60	13 - 44	19	0.75	49	1.9	517	20.3	2.6	5.8	1/2" SD
E54LA22-120	470	63 - 120	27 - 88.5	22	0.88	49	1.9	742	29	4.75	10.5	1/2" SD

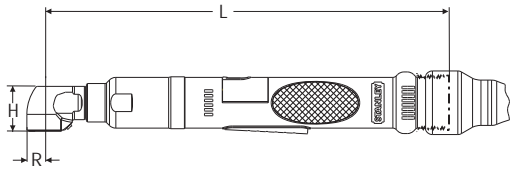


Two Handed Operation Options  
 20K400002 (E45/55 Models)

MODEL	Rated Speed RPM	Torque Range Nm	lb ft	"R" Side to Center mm	in	"H" Head Height mm	in	"L" Length mm	in	Weight kg	lb	Output Standard		
E55LA26-100	880	33 - 100	22 - 74	26	1.02	60	2.4	632	24.9	5.8	12.8	1/2" SD		
E55LA26-167	510	50 - 167	37 - 123	26	1.02	60	2.4	632	24.9	5.8	12.8	3/4" SD		
E55LA26-221	385	67 - 221	49 - 163	26	1.02	60	2.4	632	24.9	5.8	12.8	3/4" SD		
E55LA32-337	250	101 - 337	75 - 248	32	1.25	73	2.9	639	25.1	6.5	14.2	3/4" SD		
E55LA32-401	200	120 - 401	89 - 295	32	1.25	73	2.9	639	25.1	6.5	14.2	3/4" SD		
Standard Configuration		Gearcase Extensions						A26 Output Options						
Rear Facing Lever 20K100200		Reaction Bar Steel		Add E6 to Model#		6" Extension for E45/55 Models		20D100400		5/8" SD for -100				
Mounting Options		Add E9 to Model#		9" Extension for E45/55 Models		20D100410		3/4" Square Drive			20D100411		3/4" SD/Ball Retainer	
20K200100		Swivel Bail E45/55		Example: E55LA26-167E6		A32 Output Options								
20K100700		Flange Mount 45/55		Handle Options		20D104300		3/4" SD/Ball Retainer						
20K100600		Base Mount 45/55		20H100105		Front Facing Lever E44/45/55		Vinyl Head Cover Options						
E5_L Motor Options		Add HD		High Duty Cycle Motor		Example: E55LA-100HD								
				20H207207		Rubber Grip (Rear facing lever)		20D250709		A26				
								20D250710		A32				

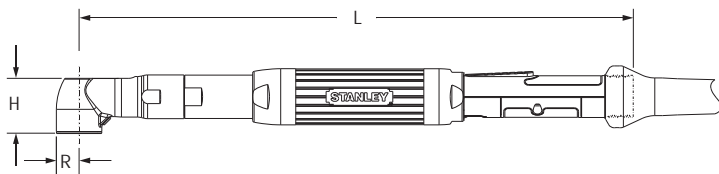
## Flush Angle Lever (2 to 401 Nm)

Tool Configuration  
 Select model and options.  
 See p 47 for E Cables.  
 See pp 15-18 for QA Controllers.  
 See pp 48-52 for Q Controllers.



MODEL	Rated Speed RPM	Torque Range		"R" Side to Center		"H" Head Height		"L" Length		Weight		Output
		Nm	lb ft	mm	in	mm	in	mm	in	kg	lb	Flush Socket Head
E12LA13-10	1080	3 - 10	2.2 - 7.4	13	0.5	35	1.4	287	11.3	0.8	1.7	20D121906
E12LA13-14	850	4 - 14	3 - 10	13	0.5	35	1.4	287	11.3	0.8	1.7	
E12LA13-18	590	5.5 - 18	4 - 13	13	0.5	35	1.4	287	11.3	0.8	1.7	

Handle Options		A13 Flush Socket Options										
20H207910	Rubber Grip	J3823	5/16" Magnet.	B3686	7mm	B3754	10mm					
20H102200	Lever Extension	B3752	5/16" (8mm)	B3752	8mm (5/16")	F3667	10mm X 1/4" Ext Magnetic					
<b>Mounting Options</b>		B3751	1/4"	J3041	8mm X 1/4" Extension	J3100	10mm X 1/2" Ext Magnetic					
A3061	Wire Bail	B3753	3/8"	J3706	8mm X 1/16" Ext Magnetic	L3073	10mm X 1/4" Ext Magnetic					
<b>Vinyl Head Cover Options</b>		B3834	4mm	L3154	8mm Double Hex	F3587	11mm					
20D250711	A13/A14											
<b>E1_L Motor Options</b>												
Add HD		High Duty Cycle Motor										
Example: E12LA-10HD												



Two Handed Operation Options  
 20K400000 (E23/33 Models)

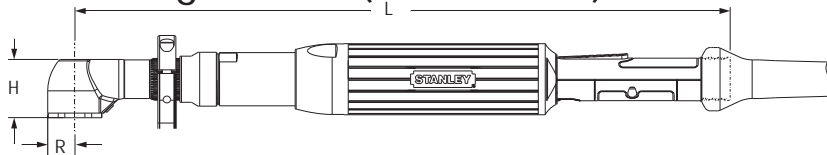
MODEL	Rated Speed RPM	Torque Range		"R" Side to Center		"H" Head Height		"L" Length		Weight		Output
		Nm	lb ft	mm	in	mm	in	mm	in	kg	lb	Flush Socket Head
E23LA13-11	1500	3.5 - 11	2.5 - 8	13	0.5	35	1.4	435	17.1	1.5	3.3	B3755
E23LA14-21	725	6 - 21	5 - 15.5	13	0.5	33	1.3	449	17.7	1.6	3.6	20D118301
E23LA14-31	500	9 - 31	7 - 23	14	0.55	33	1.3	449	17.7	1.6	3.6	20D118301
E33LA14-33	1040	10 - 33	7 - 24	14	0.55	33	1.3	474	18.7	1.8	4	20D118301
E33LA18-46	750	14 - 46	10 - 34	17.5	0.69	44	1.7	490	19.3	2	4.3	F3834
E33LA19-48	730	15 - 48	10.5 - 35	19	0.75	49	1.9	492	19.4	2.2	4.8	20D100007
E33LA19-60	570	18 - 60	13 - 44	19	0.75	49	1.9	492	19.4	2.2	4.8	

Standard Configuration		A18 Flush Socket Options										
Rear Facing Lever		F4897	10mm	H4494	13mm X 12mm Extension							
<b>Handle Options</b>		J4979	10mm X 1" Extension	J4435	14mm							
20H100005	Front Facing Lever E23/33	N4638	10mm X 3mm Extension	H4371	14mm Surface Drive X 30mm Ext							
20H207207	Rubber Grip (Rear facing lever)	N4251	10mm X 7mm Extension	N4268	14mm X 1/4" Extension							
<b>Mounting Options</b>		F4898	11mm	F4900	15mm							
20K101400	Swivel Bail E23/33	L4509	11mm X 5/8" Extension Mag	J4684	15mm X 1/2" Extension							
<b>Gearcase Extensions</b>		L4006	12mm	L4378	15mm X 1/4" Extension							
Add E4 to Model#	4" Extension for E23/33 Models	F4899	13mm	N4686	15mm X 1/4" Extension/Retention Ring							
Add E6 to Model#	6" Extension for E23/33 Models	L4543	13mm (1/2" Clearance)	H4459	15mm X 3/8" Extension							
Add E10 to Model#	10" Extension for E23/33 Models	L4834	13mm Magnetic	N4769	15mm/Retention Ring							
Example: E23LA14-31E4												
A13 Flush Socket Options (see E12LA13 Options above)		L4022	13mm Surface Drive	N4312	16mm X 1/4" Extension							
		L4934	13mm Surface Dr X 10mm Ext	N4581	16mm X 1/4" Extension Surface Drive							
		L4935	13mm Surface Dr X 5mm Ext	N4343	16mm X 150mm Extension							
<b>A14 Flush Socket Options</b>		J4444	13mm X 1" Extension	H4301	17mm X 5mm Extension							
20D255500	12mm Surface Drive	H4921	13mm X 1/2" Extension	L4653	5/16"/Retention Ring							
20D255501	13mm Surface Drive	N4918	13mm X 1/4" Extension	F4896	7/16"							
20D118300	1/4" Integral Hex Head Ass'y	N4086	13mm X 1/8" Extension	H4236	3/8" Surface Drive X 10mm Extension							
<b>Vinyl Head Cover Options</b>		F4895	1/2"									
20D250705	A13	20D250702	A18	<b>E3_L Motor Options</b>		<b>A19 Flush Socket Options</b>						
20D250701	A14	20D250707	A19	20M102600	E3L Cooling Fan Kit	(see Standard Sockets p 34)						
<b>Headlight Kit</b>		Add HD High Duty Cycle Motor										
20K101800		Example: E23LA-11HD										



# Flush Angle Lever (2 to 401 Nm)

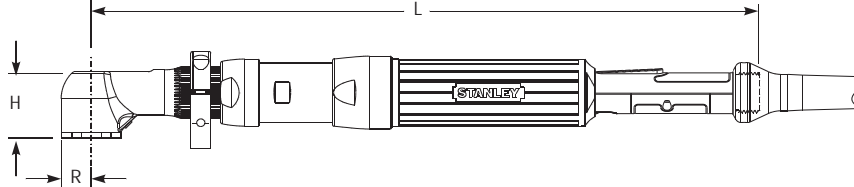
Tool Configuration  
 Select model and options.  
 See p 47 for E Cables.  
 See pp 15-18 for QA Controllers.  
 See pp 48-52 for Q Controllers.



Two Handed Operation Options  
 20K400001 (E34/44 Models)

MODEL	Rated Speed RPM	Torque Range		"R" Side to Center		"H" Head Height		"L" Length		Weight		Output
		Nm	lb ft	mm	in	mm	in	mm	in	kg	lb	Flush Socket Head
E34LA19-70	435	21 - 70	51.5	19	0.75	49	1.9	522	20.6	2.9	6.3	20D100106
E34LA22-101	335	30 - 101	22 - 74.5	22	0.88	51	2	530	20.9	3	6.6	20D100309
E34LA22-115	300	35 - 115	26 - 85	22	0.88	51	2	530	20.9	3	6.6	
E44LA19-70	635	21 - 70	15 - 51.5	19	0.75	49	1.9	531	20.9	3.3	7.3	20D100106
E44LA22-101	545	30 - 101	22 - 74.5	22	0.88	51	2	539	21.2	3.5	7.6	20D100309
E44LA22-120	360	63 - 120	27 - 88.5	22	0.88	51	2	539	21.2	3.5	7.6	

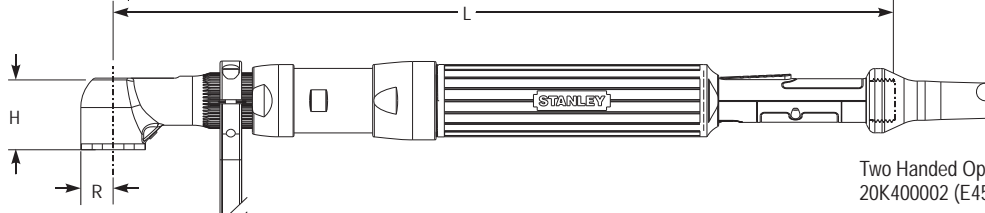
Standard Configuration	Gearcase Extensions	Mounting Options
Rear Facing Lever 20K100000 Reaction Bar Steel	Add E6 to Model# 6" Extension for E34/44 Models Add E8 to Model# 8" Extension for E34/44 Models Add E10 to Model# 10" Extension for E34/44 Models Example: E34LA22-115E6	20K200000 Swivel Bail E34/44 20K100500 Base Mount 34/44 20K100300 Flange Mount 34/44
<b>Handle Options</b>	<b>E3_L/E4_L Motor Options</b>	<b>Headlight Kit</b>
20H100105 Front Facing Lever E44/45/55 20H207207 Rubber Grip (Rear facing lever)	20M102600 E3L Cooling Fan Kit Add HD High Duty Cycle Motor Example: E34LA-70HD	20K101800 E34L A19 and A22 Flush Socket Options (see Standard Sockets p 34)
<b>Vinyl Head Cover Options</b>		
20D250707 A19 20D250708 A22		



Two Handed Operation Options  
 20K400002 (E45/55 Models)

MODEL	Rated Speed RPM	Torque Range		"R" Side to Center		"H" Head Height		"L" Length		Weight		Output
		Nm	lb ft	mm	in	mm	in	mm	in	kg	lb	Flush Socket Head
E45LA26-150	330	45 - 105	33 - 110	26	1.02	66	2.6	582	22.9	5.2	11.5	20D100409
E45LA26-201	265	60 - 201	49 - 148	26	1.02	66	2.6	582	22.9	5.2	11.5	

Standard Configuration	Gearcase Extensions	Mounting Options
Rear Facing Lever 20K100200 Reaction Bar Steel	Add E6 to Model# 6" Extension for E45/55 Models Add E9 to Model# 9" Extension for E45/55 Models Add E12 to Model# 12" Extension for E45/55 Models Example: E45LA26 - 150E6	20K200100 Swivel Bail E45/55 20K100700 Flange Mount 45/55 20K100600 Base Mount 45/55
<b>Handle Options</b>	<b>E4_L Motor Options</b>	
20H100105 Front Facing Lever E44/45/55 20H207207 Rubber Grip (Rear facing lever)	Example: E45LA26 - 150E6	Add HD High Duty Cycle Motor Example: E45LA-150HD
<b>Vinyl Head Cover Options</b>	A26 Flush Socket Options (see Standard Sockets p 34)	
20D250709 A26		



Two Handed Operation Options  
 20K400002 (E45/55 Models)

MODEL	Rated Speed RPM	Torque Range		"R" Side to Center		"H" Head Height		"L" Length		Weight		Output
		Nm	lb ft	mm	in	mm	in	mm	in	kg	lb	Flush Socket Head
E55LA26-100	880	33 - 100	22 - 74	26	1.02	66	2.6	632	24.9	5.8	12.8	20D100409
E55LA26-167	510	50 - 167	37 - 123	26	1.02	66	2.6	632	24.9	5.8	12.8	
E55LA26-221	385	67 - 221	49 - 163	26	1.02	66	2.6	632	24.9	5.8	12.8	
E55LA32-337	250	101 - 337	75 - 248	32	1.25	70	2.7	639	25.1	6.5	14.2	20D102201
E55LA32-401	200	120 - 401	89 - 295	32	1.25	70	2.7	639	25.1	6.5	14.2	

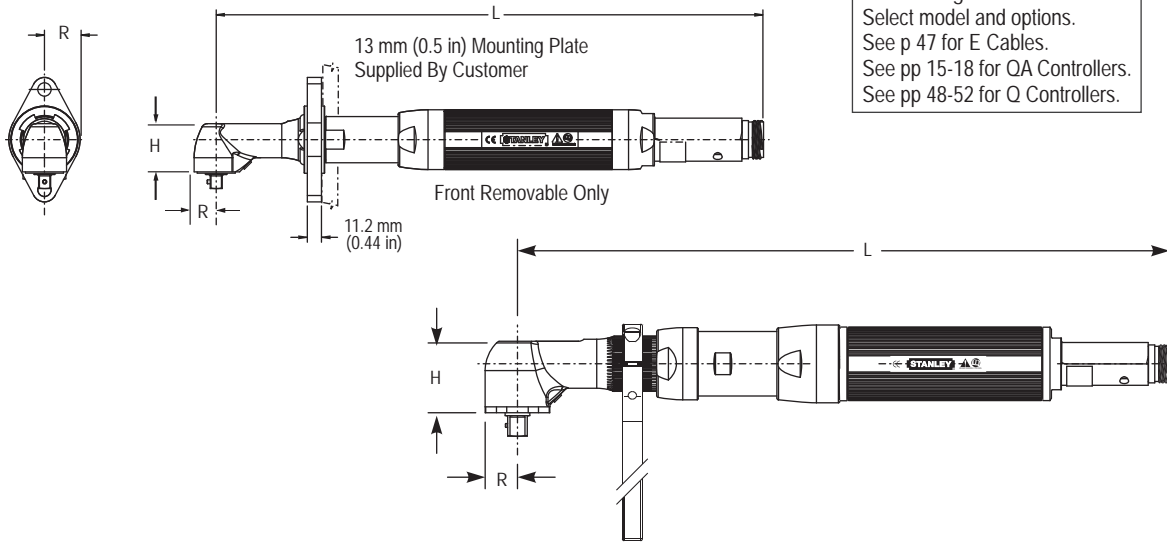
Standard Configuration	Gearcase Extensions	Mounting Options
Rear Facing Lever 20K100200 Reaction Bar Steel	Add E6 to Model# 6" Extension for E45/55 Models Add E9 to Model# 9" Extension for E45/55 Models Add E12 to Model# 12" Extension for E45/55 Models Example: E55LA26-167E6	20K200100 Swivel Bail E45/55 20K100700 Flange Mount 45/55 20K100600 Base Models 20K100600
<b>Handle Options</b>	<b>Vinyl Head Cover Options</b>	
20H100105 Front Facing Lever E44/45/55 20H207207 Rubber Grip (Rear facing lever)	Example: E55LA26-167E6 A32 Flush Socket Options (see p 30)	20D250709 A26
<b>E5_L Motor Options</b>	A26 Flush Socket Options (see Standard Sockets p 34)	20D250710 A32
Add HD High Duty Cycle Motor: Example, E55LA-100HD		

## Flush Angle Lever (2 to 401 Nm)

### A32 Flush Socket Options

A5248	3/4" (19mm)	A5114	1 - 1/16" (27mm)	A5261	24mm (15/16") X 8mm Extension
A5479	3/4" (19mm) Square Drive Female	A5651	18mm	A5129	24mm (15/16") X 15mm Extension
A5112	7/8" (22mm)	A5175	21mm	A6428	24mm X 1/1" Extension
A5183	7/8" (22mm) Fast Lead	A6234	21mm x 1/2" Extension	A5114	27mm (1 - 1/16")
A5107	15/16" (24mm)	A5107	24mm (15/16")	A5238	27mm (1 - 1/16") X 2.5mm Extension
A5113	1"	A5380	24mm (15/16") Fast Lead	A5574	27mm (1 - 1/16") X 20mm Extension
A5473	1" Fast Lead	A5438	24mm (15/16") Surface Drive		

## Angle Motors (46 to 401 Nm)



**Tool Configuration**  
 Select model and options.  
 See p 47 for E Cables.  
 See pp 15-18 for QA Controllers.  
 See pp 48-52 for Q Controllers.

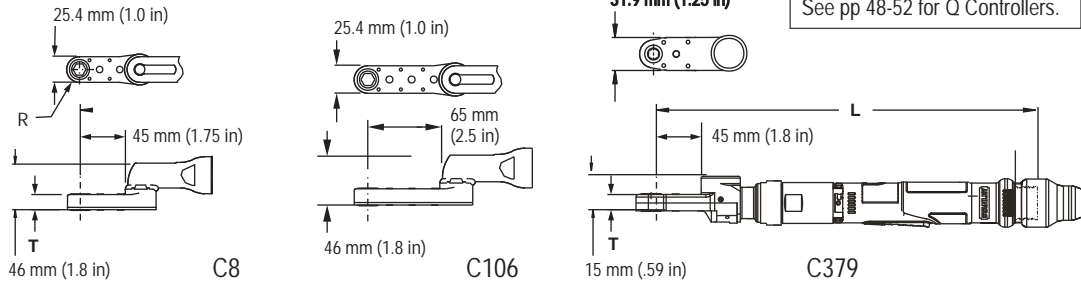
MODEL	Rated Speed RPM	Torque Range		"R" Side to Center		"H" Head Height		"L" Length		Weight		Output
		Nm	lb ft	mm	in	mm	in	mm	in	kg	lb	Standard
E33MA18F0-46	750	14 - 46	10 - 34	28	1.1	39	1.55	490	19.3	2.1	4.7	1/2" SD
E33MA19F0-60	570	18 - 60	13 - 44	28	1.1	49	1.9	492	19.4	2.4	5.2	1/2" SD
E34MA19-70	435	21 - 70	15 - 51.5	28	1.1	49	1.9	465	18.3	4	8.7	1/2" SD
E44MA19-70	635	21 - 70	15 - 51.5	31	1.2	49	1.9	474	18.7	4.3	9.5	1/2" SD
E34MA22-101	335	30 - 101	22 - 74.5	28	1.1	49	1.9	473	18.6	4.1	9.1	1/2" SD
E34MA22-115	300	35 - 115	26 - 85	28	1.1	49	1.9	473	18.6	4.1	9.1	1/2" SD
E44MA22-101	545	30 - 101	22 - 74.5	31	1.2	49	1.9	482	19	4.5	9.9	1/2" SD
E44MA22-120	360	36 - 120	27 - 88.5	31	1.2	49	1.9	482	19	4.5	9.9	1/2" SD
E45MA26-150	330	45 - 150	33 - 110	34	1.34	60	2.6	525	20.7	7.5	16.5	3/4" SD
E45MA26-201	265	60 - 201	49 - 148	34	1.34	60	2.6	525	20.7	7.5	16.5	3/4" SD
E55MA26-100	880	33 - 100	22 - 74	34	1.34	60	2.6	576	22.7	8.1	17.8	1/2" SD
E55MA26-221	385	67 - 221	49 - 163	34	1.34	60	2.6	576	22.7	8.1	17.8	3/4" SD
E55MA32-337	255	101 - 337	75 - 248	34	1.34	73	2.9	582	22.1	8.8	19.3	3/4" SD
E55MA32-401	205	120 - 401	89 - 295	34	1.34	73	2.9	582	22.1	8.8	19.3	3/4" SD

Standard Configuration	Gearcase Extensions	MA18 Output Options
Reaction Bar:	Add E4 to Model#	4" Extension for E23/33 Models 20D104601
20K100000 Steel (E34/44 Models)	Add E6 to Model#	6" Extension for E23/44 Models 20D104607
20K100200 Steel (E45/55 Models)	Add E8 to Model#	8" Extension for E34/44 Models 20D104608
	Add E10 to Model#	10" Extension for E23/44 Models
	Add E6 to Model#	6" Extension for E45/55 Models 20D100100
	Add E9 to Model#	9" Extension for E45/55 Models 20D100102
	Add E12 to Model#	12" Extension for E45/55 Models 20D100101
	Example: E34MA22 - 115E6	20D100106
A22 Output Options	A26 Output Options	A32 Output Options
20D100309	A22 Flush Socket Head 20D100400	5/8" Square Drive for - 100 Model 20D104300
	20D100409	A26 Flush Socket Head 20D102201
		A18 3/8" SD Flanged
		A18 3/8 - 24 Female Threaded Flanged
		A18 Flush Socket Flanged
		A19 Output Options
		A19 Spline 1/2" SD
		A19 Spline 1/2 SD Ball Retainer
		A19 Spline, 1/2" SD Anti Vibration
		A19 Flush Socket Head
		A32 Flush Socket Head



**Tool Configuration**  
 Select model and model options.  
 See p 47 for E Cables.  
 See pp 15-18 for QA Controllers.  
 See pp 48-52 for Q Controllers.

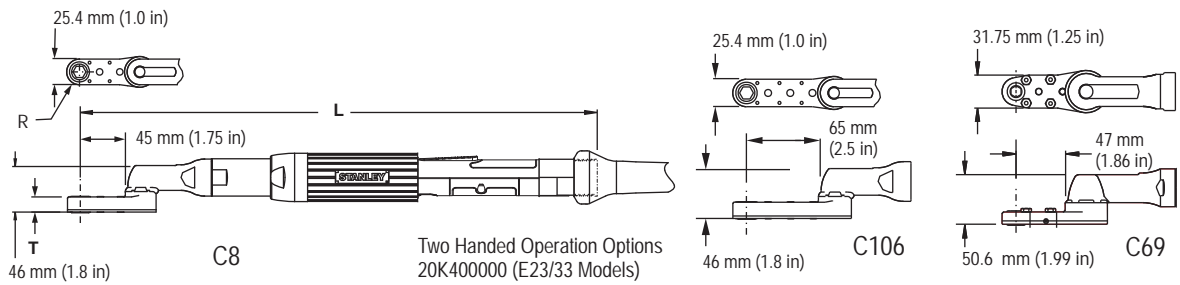
## Crowfoot Lever (4 to 216 Nm)



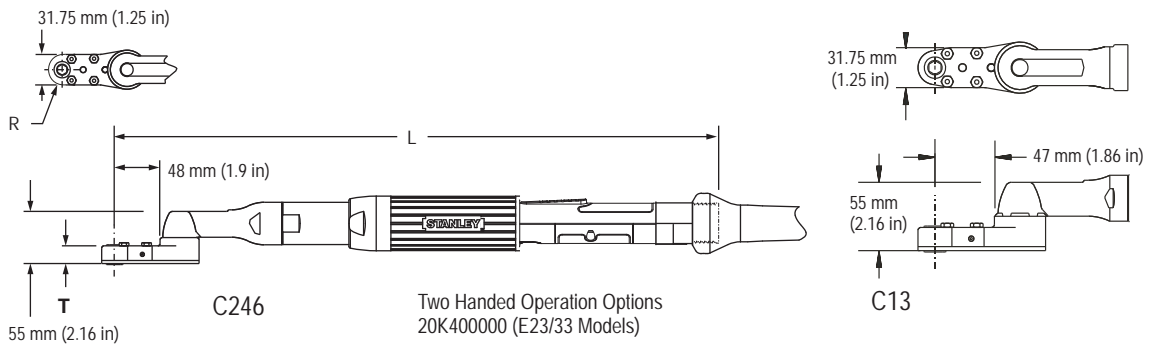
MODEL	Rated Speed (RPM)	Torque Range (Nm)	Torque Range (lb ft)	"R" Side to Center (mm)	"R" Side to Center (in)	"R" Nose Radius (mm)	"R" Nose Radius (in)	"T" Thickness (mm)	"T" Thickness (in)	"L" Length (mm)	"L" Length (in)	Weight (kg)	Weight (lb)	Maximum Hex Size (mm (in))
E12LC8-13	585	4 - 13	3 - 9.5	13	0.5	13	0.5	16	0.64	347	13.7	1	2.2	13 (1/2)
E12LC106-14	585	4 - 14	3 - 10	13	0.5	13	0.5	16	0.64	367	14.5	1.1	2.4	
E12LC379-30	660	9 - 30	7 - 22	16	0.6	13.5	0.53	15	0.58	352	13.9	1.2	2.6	

Handle Options	Mounting Options	Vinyl Head Cover Options	Includes One Integral Socket
20H207910 Rubber Grip	A3061 Wire Bail	20D250723 C8	Standard Hex Socket Options
20H102200 Lever Extension		20D250713 C106	(see Standard Sockets p 34)
<b>E1_L Motor Options</b>		20D250732 C379	Contact Stanley for Special Socket Options

Add HD | High Duty Cycle Motor  
 Example: E12LC8-13HD



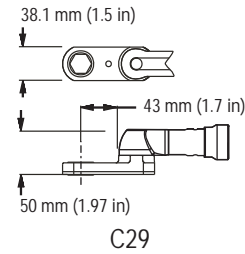
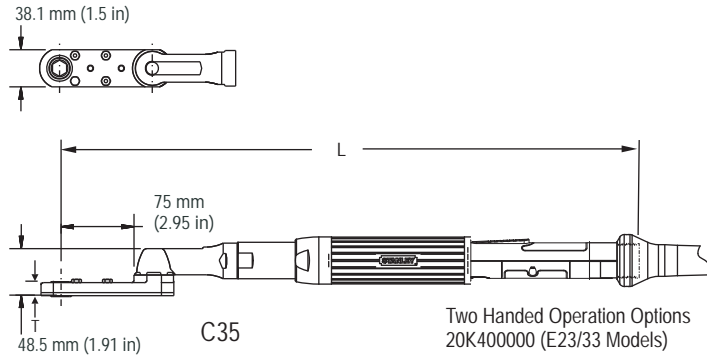
MODEL	Rated Speed (RPM)	Torque Range (Nm)	Torque Range (lb ft)	"R" Side to Center (mm)	"R" Side to Center (in)	"R" Nose Radius (mm)	"R" Nose Radius (in)	"T" Thickness (mm)	"T" Thickness (in)	"L" Length (mm)	"L" Length (in)	Weight (kg)	Weight (lb)	Maximum Hex Size (mm (in))
E23LC8-16	660	5 - 16	3.5 - 12	13	0.5	13	0.5	16	0.64	510	20	1.7	3.8	13 (1/2)
E23LC106-16	660	5 - 16	3.5 - 12	13	0.5	13	0.5	16	0.64	530	20.8	1.8	4	
E23LC69-15	745	4.5 - 15	3.5 - 11	13.5	0.53	13.5	0.53	16	0.64	532	20.9	2.3	5	
E33LC69-27	845	8 - 27	6 - 20	13.5	0.53	13.5	0.53	16	0.64	557	21.9	2.4	5.3	



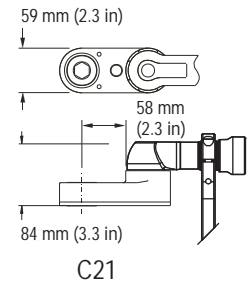
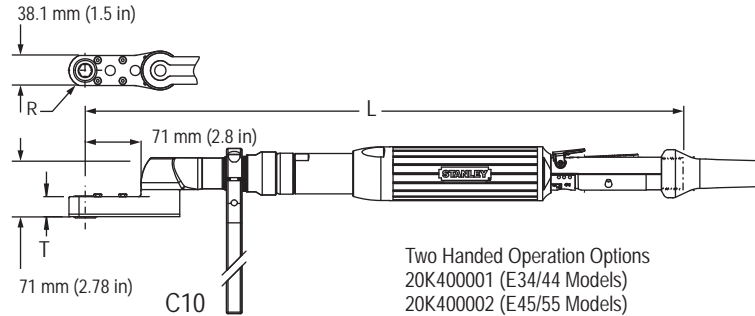
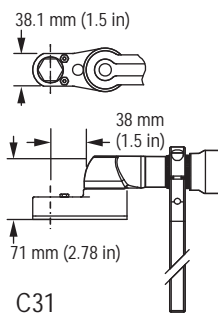
MODEL	Rated Speed (RPM)	Torque Range (Nm)	Torque Range (lb ft)	"R" Side to Center (mm)	"R" Side to Center (in)	"R" Nose Radius (mm)	"R" Nose Radius (in)	"T" Thickness (mm)	"T" Thickness (in)	"L" Length (mm)	"L" Length (in)	Weight (kg)	Weight (lb)	Maximum Hex Size (mm (in))
E23LC246-22	505	6.5 - 22	5 - 16	16	0.63	16	0.63	20.5	0.81	535	21	2.4	5.2	13 (1/2)
E33LC246-38	570	12 - 38	9 - 28	16	0.63	16	0.63	20.5	0.81	560	22	2.5	5.5	
E23LC13-18	590	5.5 - 18	4 - 13	16	0.63	13.5	0.53	20.5	0.81	533	21	2.4	5.2	
E33LC13-30	755	9 - 30	6.5 - 22	16	0.63	13.5	0.53	20.5	0.81	558	22	2.5	5.5	

## Crowfoot Lever (4 to 216 Nm)

**Tool Configuration**  
 Select model and model options.  
 See p 47 for E Cables.  
 See pp 15-18 for QA Controllers.  
 See pp 48-52 for Q Controllers.

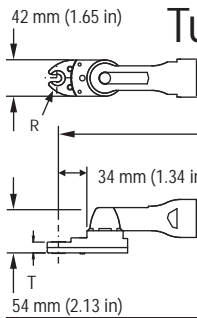


MODEL	Rated Speed RPM	Torque Range Nm lb ft		"R" Side to Center mm in		"R" Nose Radius mm in		"T" Thickness mm in		"L" Length mm in		Weight kg lb		Maximum Hex Size mm (in)	
E23LC35-16	660	5 - 16	3.5 - 12	20.5	0.81	20.5	0.81	14	0.55	559	22	2.7	6	19 (3/4)	
E33LC35-31	750	9 - 31	7 - 23	20.5	0.81	20.5	0.81	14	0.55	585	23	2.9	6.3		
E33LC29-35	675	10.5 - 35	8 - 26	20.5	0.81	20.5	0.81	14	0.55	549	21.6	2.7	5.9		
<b>Standard Configuration</b>				<b>Gearcase Extensions</b>						<b>Includes One Integral Socket</b>					
Rear Facing Lever				Add E4 to Model#				4" Extension for E23/33 Models				Standard Hex Socket Options			
<b>Handle Options</b>				Add E6 to Model#				6" Extension for E23/44 Models				(see Standard Sockets p 34)			
20H100005 Front Facing Lever E23/33				Add E8 to Model#				8" Extension for E34/44 Models				Contact Stanley for Special			
20H207207 Rubber Grip (Rear facing lever)				Add E10 to Model#				10" Extension for E23/44 Models				Socket Options			
<b>Mounting Options</b>				Example: E33LC35-31E4				<b>Headlight Kit</b>							
20K101400 Swivel Bail E23/33				Vinyl Head Cover Options				20K101800 E23L, E33L							
<b>E2_L/E3_L Motor Options</b>				20D250723	C8	20D250714	C13	20D250717	C246						
20M102600 E3L Cooling Fan Kit				20D250713	C106	20D250720	C35	20D250718	C29						
Add HD High Duty Cycle Motor Example: E23LC35-16HD								20D250721	C69						



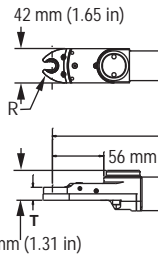
MODEL	Rated Speed RPM	Torque Range Nm lb ft		"R" Side to Center mm in		"R" Nose Radius mm in		"T" Thickness mm in		"L" Length mm in		Weight kg lb		Maximum Hex Size mm (in)			
E34LC10-49	490	15 - 49	11 - 36	20.5	0.81	20.5	0.81	28	1.1	625	24.6	3.5	7.6	19 (3/4)			
E44LC10-88	355	26 - 88	20 - 65	20.5	0.81	20.5	0.81	28	1.1	634	25	3.8	8.4				
E44LC31-102	355	31 - 102	23 - 75	20.5	0.81	20.5	0.81	28	1.1	602	23.7	3.6	8				
E45LC21-216	155	65 - 216	48 - 159	29	1.16	29	1.16	31	1.2	693	27.3	6.1	13.5	27 (1 1/16)			
<b>Standard Configuration</b>				<b>Gearcase Extensions</b>						<b>Includes One Integral Socket</b>							
Rear Facing Lever				Add E6 to Model#				6" Extension for E34/44 Models				Standard Hex Socket Options					
Reaction Bar:				Add E8 to Model#				8" Extension for E34/44 Models				(see Standard Sockets p 34)					
20K100000 Steel (E34/44 Models)				Add E10 to Model#				10" Extension for E34/44 Models				Contact Stanley for Special					
20K100200 Steel (E45/55 Models)				Add E6 to Model#				6" Extension for E45 Models				Socket Options					
<b>Handle Options</b>				Add E9 to Model#				9" Extension for E45 Models				<b>Vinyl Head Cover Options</b>					
20H100105 Front Facing Lever E44/45/55				Add E12 to Model#				12" Extension for E45 Models				20D250722	C7	20D250712	C10		
20H207207 Rubber Grip (Rear facing lever)				Example: E34LC10-49E6								20D250715	C16	20D250719	C31		
<b>E3_L/E4_L Motor Options</b>												20D250716				C21	
20M102600 E3L Cooling Fan Kit				Add HD High Duty Cycle Motor				Example: E34LC10-49HD									

# Tubeut Lever (4 to 102 Nm)



T346

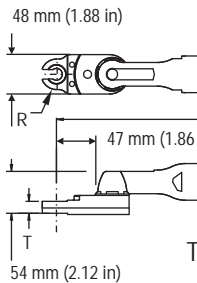
E23/33LT



Tool Configuration  
Select model and model options.  
See p 47 for E Cables.  
See pp 15-18 for QA Controllers.  
See pp 48-52 for Q Controllers.

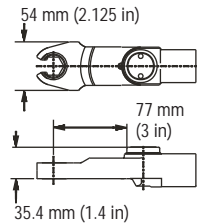
E12LT252

MODEL	Rated Speed RPM	Torque Range		"R" Side to Center		"R" Nose Radius		"T" Thickness		"L" Length		Weight	Maximum Hex Size	Maximum Tube Size	
		Nm	lb ft	mm	in	mm	in	mm	in	mm	in	kg	lb	mm (in)	mm (in)
E12LT252-25	245	7.5 - 25	5.5 - 18	13	0.5	13	0.5	14	0.54	431	17	1.6	3.6	13 (1/2)	8 (5/16)
E23LT346-14	815	4 - 14	3 - 10	13	0.5	13	0.5	14	0.54	519	20.4	2.2	4.8		
E33LT346-25	1050	7.5 - 25	18	13	0.5	13	0.5	14	0.54	545	21.4	2.4	5.2		
E23LT252-13	840	4 - 13	10	13	0.5	13	0.5	14	0.54	499	19.6	2.3	5.1		
E33LT252-22	955	6.5 - 22	5 - 16	13	0.5	13	0.5	14	0.54	524	20.6	2.5	5.5		



T74

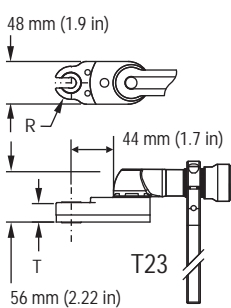
Two Handed Operation Options  
20K400000 (E23/33 Models)



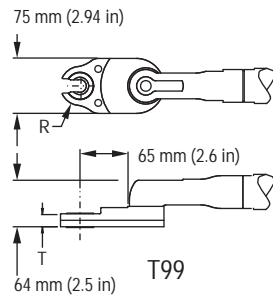
T264

MODEL	Rated Speed RPM	Torque Range		"R" Side to Center		"R" Nose Radius		"T" Thickness		"L" Length		Weight	Maximum Hex Size	Maximum Tube Size	
		Nm	lb ft	mm	in	mm	in	mm	in	mm	in	kg	lb	mm (in)	mm (in)
E23LT74-14	750	4 - 14	3 - 10	18.5	0.73	18.5	0.73	14.5	0.57	532	20.9	2.5	5.4	18 (11/16)	11 (7/16)
E33LT74-30	765	9 - 30	6.5 - 22	18.5	0.73	18.5	0.73	14.5	0.57	557	21.9	2.6	5.7		
E23LT264-22	480	6.5 - 22	5 - 16	21.3	0.84	21.3	0.84	18	0.7	513	20.2	2	4.4	24 (15/16)	13 (1/2)
E33LT264-44	545	13 - 44	9.5 - 32	21.3	0.84	21.3	0.84	18	0.7	538	21.2	2.1	4.7		

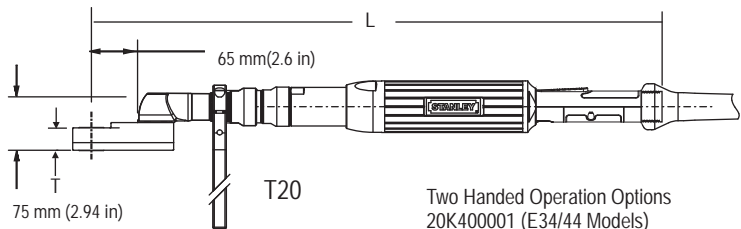
Standard Configuration		Gearcase Extensions		Includes One Integral Socket	
Rear Facing Lever		Add E4 to Model#	4" Extension for E23/33 Models	Standard Hex Socket Options	
Handle Options		Add E6 to Model#	6" Extension for E23/44 Models	(see Standard Sockets p 34)	
20H100005	Front Facing Lever E23/33	Add E8 to Model#	8" Extension for E34/44 Models	Contact Stanley for Special	
20H207207	Rubber Grip (Rear facing lever)	Add E10 to Model#	10" Extension for E23/44 Models	Socket Options	
Mounting Options		Example: E33LT74-30E4		Vinyl Head Cover Options	
20K101400	Swivel Bail E23/33	E3_L Motor Options		20D250724	T346
		20M102600	E3L Cooling Fan Kit	20D250726	T252
				20D250729	T74
				20D250728	T264



T23



T99



T20

Two Handed Operation Options  
20K400001 (E34/44 Models)

MODEL	Rated Speed RPM	Torque Range		"R" Side to Center		"R" Nose Radius		"T" Thickness		"L" Length		Weight	Maximum Hex Size	Maximum Tube Size	
		Nm	lb ft	mm	in	mm	in	mm	in	mm	in	kg	lb	mm (in)	mm (in)
E34LT23-41	495	12 - 41	9 - 30	18.5	0.73	18.5	0.73	23	0.92	590	23.2	3.6	7.9	27 (1 1/16)	19 (3/4)
E34LT99-46	515	14 - 46	10 - 34	26	1.03	26	1.03	19.5	0.77	612	24.1	3.9	8.6		
E34LT99-62	340	19 - 62	14 - 46	26	1.03	26	1.03	19.5	0.77	612	24.1	3.9	8.6		
E44LT20-102	375	31 - 102	23 - 75	26	1.03	26	1.03	32	1.25	628	24.7	4.8	10.6		

Standard Configuration		Gearcase Extensions		Includes One Integral Socket	
Rear Facing Lever		Add E6 to Model#	6" Extension for E34/44 Models	Standard Hex Socket Options	
20K100000	Reaction Bar Steel	Add E8 to Model#	8" Extension for E34/44 Models	(see Standard Sockets p 34)	
Handle Options		Add E10 to Model#	10" Extension for E34/44 Models	Contact Stanley for Special Socket Options	
20H100105	Front Facing Lever E44/45/55	Example: E34LT99-46E6		Vinyl Head Cover Options	
20H207207	Rubber Grip (Rear facing lever)	E3_L Motor Options		20D250727	T23
		20M102600	E3L Cooling Fan Kit	20D250725	T20
				20D250730	T99

# Standard Socket Options

A new part number system for standard crowfoot and tubenut sockets enables customers to describe and price standard sockets for each application. For special sockets or dimensions not included, contact Sales. The part number includes information on head number of the tool, socket type, socket size and extension length.

To Define a Socket Part Number: (See Examples Below)

Select HEAD from HEAD NUMBER table.

Add TYPE/SIZE/EXTENSION from tables, separate with forward slashes (/).

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

Applies to the following Socket Types, Sizes, Extension Lengths

CROWFOOT (G) or TUBENUT (T) HEAD NUMBER	Max Hex Size		TYPE	ID	SH	DH	Double Hex	SD	Surface Drive	FL	Fast Lead	Socket Part Number			
	Size (mm)	Size (in)										HEAD	/TYPE	/SIZE	/EXTENSION
3, 4, 6	16	5/8													
7, 16, 39, 63, 93, 97	19	3/4	L3258												
8, 61, 106, 122, 174, 178, 186, 193, 263, 311	*13	1/2	L3224												
10, 5, 14, 17, 19, 22, 24, 30, 31, 40, 41, 70, 77, 83, 126, 172, 219, 242, 262	19	3/4	L3217												
13, 94, 128, 228, 230, 308	*13	1/2	L3213												
20, 110, 154	27	1 1/16	L3255												
21, 67, 98, 165, 189, 225, 284	27	1 1/16	L3240												
23, 84, 95, 135, 309	18	11/16	L3209												
29, 35, 51, 52, 86, 121, 152, 175, 221, 234	19	3/4	L3218												
47, 57, 170	11	7/16	L3222												
69, 313, 317, 379	*13	1/2	L3201												
74, 156, 164, 214, 261, 265, 274	18	11/16	L3211												
79, 82, 103, 167	*13	1/2	L3202												
80, 105, 183, 257	10	3/8	L3223												
89, 130, 139, 140, 185, 231, 233	*14	*9/16	L3205												
99, 116, 166, 171, 206	27	1 1/16	L3267												
145, 148	*13	1/2	L3226												
147, 32, 75, 91, 92, 132, 136, 137, 138, 182	11	7/16	L3282												
184, 190, 202, 208, 209, 211, 212, 213, 266	12 or *13 only	1/2 only	L3281												
267, 270, 288, 300, 302, 303, 305	13 or *13 only	1/2 only	L3283												
<b>THRU HEX SOCKETS</b>	13	1/2	L3392												
176, 223	*13	1/2	L3203												
160	*13	1/2	L3228												
200	19	3/4	L3220												
203	16	5/8	L3221												
216	*13	1/2	L3225												
246, 297	*14	*9/16	L3256												
252, 346	*13	1/2	L3233												
264, 129, 304	24	15/16	L3259												
<b>THRU HEX SOCKETS</b>	24	15/16	L3260												

\*Single hex type "SH" not available for sizes M13 and larger.

CATALOG HEADS IN BOLD

## Flush Sockets

A19 Socket	17	5/8	20D222300	Socket Part Number
A22 Socket	19	3/4	20D115100	HEAD/TYPE/SIZE/EXTENSION
A26 Socket	22	7/8	20D116600	L3224/SD/6/24

Examples:

A #8 crowfoot head requires a 3/8 in surface drive socket with a 1 in extension.

Select the HEAD (L3224), TYPE (SD), SIZE (6) and EXTENSION (24)

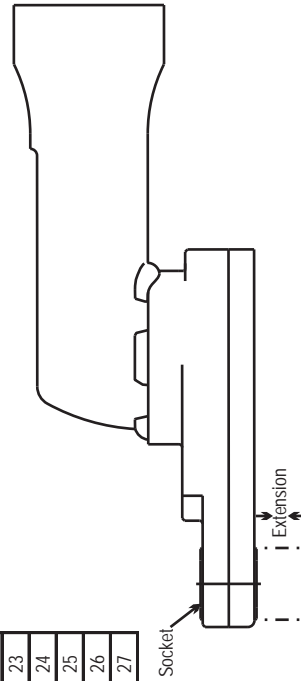
Write the Socket Part Number with the (/) separating each number

A #346 tubenut head requires a 10mm hex socket with a standard extension.

Select the HEAD (L3233), TYPE (SH), SIZE (M10) and EXTENSION (0)

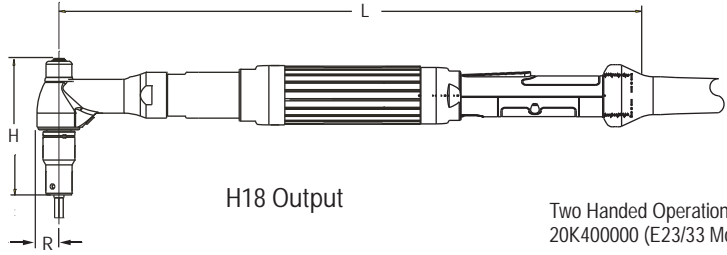
Write the Socket Part Number with the (/) separating each number

METRIC SIZE		INCH SIZE		EXTENSION		LENGTH	
Size (mm)	Size (in)	Size (mm)	Size (in)	ID	(mm)	Standard	(in)
M4	4	2	1/8	0			
M5	5	3	3/16	3	3	1/8	
M6	6	4	1/4	6	6	1/4	
M7	7	5	5/16	9	9	3/8	
M8	8	6	3/8	12	12	1/2	
M9	9	7	7/16	15	15	5/8	
M10	10	8	1/2	18	18	3/4	
M11	11	9	9/16	21	21	7/8	
M12	12	10	5/8	24	24	1	
M13	13	11	11/16	27	27	1 1/16	
M14	14	12	3/4	30	30	1 1/8	
M15	15	13	13/16	33	33	1 1/4	
M16	16	14	7/8	36	36	1 3/8	
M17	17	15	15/16	39	39	1 1/2	
M18	18	16	1	42	42	1 5/8	
M19	19	17	1 1/16	45	45	1 3/4	
M20	20			48	48	1 7/8	
M21	21			51	51	2	
M22	22						
M23	23						
M24	24						
M25	25						
M26	26						
M27	27						



## Hold & Drive Lever (11 to 380 Nm)

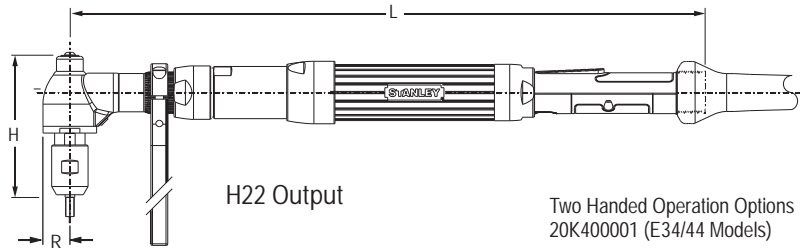
**Tool Configuration**  
 Select model and options.  
 See p 37 - 39 for Hold & Drive Options.  
 See p 47 for E Cables.  
 See pp 15-18 for QA Controllers.  
 See pp 48-52 for Q Controllers.



H18 Output

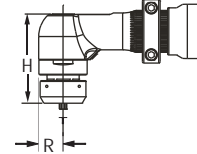
Two Handed Operation Options  
 20K400000 (E23/33 Models)

MODEL	Rated Speed RPM	Torque Range		"R" Side to Center		"H" Head Height		"L" Length		Weight		Output
		Nm	lb ft	mm	in	mm	in	mm	in	kg	lb	Standard
E23LH18V1-35	345	11 - 35	8 - 26	17.5	0.69	109	4.28	464	18.3	2	4.5	1" Tang
E33LH18V1-46	750	14 - 46	10 - 34	17.5	0.69	109	4.28	464	18.3	2.2	4.9	1" Tang
E23LH18V2-35	345	11 - 35	8 - 26	17.5	0.69	142	5.58	464	18.3	2.1	4.6	2" Tang
E33LH18V2-46	750	14 - 46	10 - 34	17.5	0.69	142	5.58	464	18.3	2.3	5	2" Tang
Standard Configuration		H18 Output Options				Gearcase Extensions						
Rear Facing Lever		20D124600		1" Retraction H18 Bit Holder Head				Add E4 to Model# 4" Extension				
Handle Options		20D124601		2" Retraction H18 Bit Holder Head				Add E6 to Model# 6" Extension				
20H100005 Front Facing Lever E23/33		Mounting Options				Add E10 to Model# 10" Extension						
20H207207 Rubber Grip (Rear facing lever)		20K101400		Swivel Bail E23/33		Example: E23LH18V1-35E4						
E3_L Motor Options		A3061		Wire Bail		Headlight Kit						
20M102600 E3L Cooling Fan Kit						20K101800 E23L, E33L						
Add HD High Duty Cycle Motor Example: E23LH18V1-35HD												



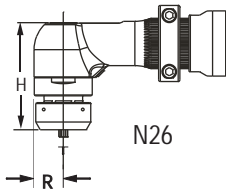
H22 Output

Two Handed Operation Options  
 20K400001 (E34/44 Models)



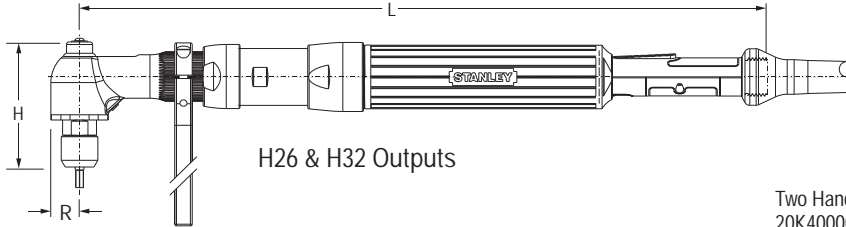
MODEL	Rated Speed RPM	Torque Range		"R" Side to Center		"H" Head Height		"L" Length		Weight		Output
		Nm	lb ft	mm	in	mm	in	mm	in	kg	lb	Standard
E34LH22V1-110	300	33 - 110	24 - 81	22	0.88	118	4.65	530	20.9	3.4	7.5	1" Tang
E34LH22V1-66	535	20 - 66	16 - 48.5	22	0.88	118	4.65	530	20.9	3.4	7.5	1" Tang
E34LN22V1-110	300	33 - 110	24 - 81	22	0.88	99	3.88	530	20.9	3.4	7.5	1" Tang
E34LN22V1-66	535	20 - 66	16 - 48.5	22	0.88	99	3.88	530	20.9	3.4	7.5	1" Tang
E34LH22V2-110	300	33 - 110	24 - 81	22	0.88	144	5.68	530	20.9	3.5	7.6	2" Tang
E34LH22V2-66	535	20 - 66	16 - 48.5	22	0.88	144	5.68	530	20.9	3.5	7.6	2" Tang
E44LH22V1-110	480	33 - 110	24 - 81	22	0.88	144	4.65	539	21.2	3.8	8.3	1" Tang
E44LH22V1-66	680	20 - 66	16 - 48.5	22	0.88	144	4.65	539	21.2	3.8	8.3	1" Tang
E44LN22V1-110	480	33 - 110	24 - 81	22	0.88	99	3.88	539	21.2	3.8	8.3	1" Tang
E44LN22V1-66	680	20 - 66	16 - 48.5	22	0.88	99	3.88	539	21.2	3.8	8.3	1" Tang
E44LH22V2-110	480	33 - 110	24 - 81	22	0.88	144	5.68	539	21.2	3.8	8.4	2" Tang
E44LH22V2-66	680	20 - 66	16 - 48.5	22	0.88	144	5.68	539	21.2	3.8	8.4	2" Tang
Standard Configuration				Gearcase Extensions				Mounting Options				
Rear Facing Lever		20K100000		Reaction Bar Steel		Add E6 to Model# 6" Extension for E34/44 Models		20K200000		Swivel Bail E34/44		
Handle Options						Add E8 to Model# 8" Extension for E34/44 Models		20K100500		Base Mount 34/44		
20H100105 Front Facing Lever E44/45/55						Add E10 to Model# 10" Extension for E34/44 Models		20K100300		Flange Mount 34/44		
20H207207 Rubber Grip (Rear facing lever)						Example: E34LH22-110E4						
Vinyl Head Cover Options		20D250708		H22		E3_L Motor Options		H22 Output Options				
						20D103202		1" Retraction H22 Bit Holder Head				
						20D103204		2" Retraction H22 Bit Holder Head				
						Add HD High Duty Cycle Motor		N22 Output Options				
						Example: E34LH22V1-110HD		20D131300 1" Retraction N22 Bit Holder Head				
								20D103214 2" Retraction N22 Bit Holder Head				

## Hold & Drive Lever (11 to 380 Nm)



N26

**Tool Configuration**  
 Select model and options.  
 See p 37 - 39 for Hold & Drive Options.  
 See p 47 for E Cables.  
 See pp 15-18 for QA Controllers.  
 See pp 48-52 for Q Controllers.



H26 & H32 Outputs

Two Handed Operation Options  
 20K4000002 (E45/55 Models)

MODEL	Rated Speed RPM	Torque Range		"R" Side to Center		"H" Head Height		"L" Length		Weight		Output
		Nm	lb ft	mm	in	mm	in	mm	in	kg	lb	Standard
E45LH26V1-143	330	43 - 143	32 - 105	26	1.02	114	4.62	582	22.9	4.8	10.6	1" Tang
E45LH26V1-191	265	57 - 191	42 - 141	26	1.02	114	4.62	582	22.9	4.8	10.6	1" Tang
E45LN26V1-143	330	43 - 143	32 - 105	26	1.02	96	3.8	582	22.9	4.8	10.6	1" Tang
E45LN26V1-191	265	57 - 191	42 - 141	26	1.02	96	3.8	582	22.9	4.8	10.6	1" Tang
E45LH26V2-143	330	43 - 143	32 - 105	26	1.02	140	5.65	582	22.9	4.9	10.7	2" Tang
E45LH26V2-191	265	57 - 191	42 - 141	26	1.02	140	5.65	582	22.9	4.9	10.7	2" Tang
E55LH26V1-210	385	63 - 210	47 - 155	26	1.02	114	4.62	632	24.9	5.4	11.9	1" Tang
E55LN26V1-95	880	29 - 95	21 - 70	26	1.02	114	4.62	632	24.9	5.4	11.9	1" Tang
E55LN26V1-210	385	63 - 210	47 - 155	26	1.02	96	3.8	632	24.9	5.4	11.9	1" Tang
E55LN26V1-95	880	29 - 95	21 - 70	26	1.02	96	3.8	632	24.9	5.4	11.9	1" Tang
E55LH26V2-210	385	63 - 210	47 - 155	26	1.02	140	5.65	632	24.9	5.5	12	2" Tang
E55LH26V2-95	880	29 - 95	21 - 70	26	1.02	140	5.65	632	24.9	5.5	12	2" Tang
E55LH32V1-320	250	96 - 320	71 - 236	32	1.25	155	6.1	639	25.1	6.1	13.5	1" Tang
E55LH32V1-380	200	114 - 380	84 - 280	32	1.25	155	6.1	639	25.1	6.1	13.5	1" Tang
E55LH32V2-320	250	96 - 320	71 - 236	32	1.25	180	7.1	639	25.1	6.2	13.6	2" Tang
E55LH32V2-380	200	114 - 380	84 - 280	32	1.25	180	7.1	639	25.1	6.2	13.6	2" Tang

Standard Configuration		Gearcase Extensions		Mounting Options	
Rear Facing Lever		Add E6 to Model#	6" Extension for E45/55 Models	20K200100	Swivel Bail E45/55
20K100200	Reaction Bar Steel	Add E9 to Model#	9" Extension for E45/55 Models	20K100700	Flange Mount 45/55
<b>Handle Options</b>		Add E12 to Model#	12" Extension for E45/55 Models	20K100600	Base Mount 45/55
20H100105	Front Facing Lever E44/45/55	Example: E45LH26-143E6		<b>Vinyl Head Cover Options</b>	
20H207207	Rubber Grip (Rear facing lever)			20D250709	H26
<b>H26 Output Options</b>		<b>H32 Output Options</b>		20D250710	H32
20D103602	1" Retraction H26 Bit Holder Head	20D103702	1" Retraction H32 Bit Holder Head		
20D103604	2" Retraction H26 Bit Holder Head	20D103704	2" Retraction H32 Bit Holder Head		
<b>N26 Output Options</b>		<b>E4_L/E5_L Motor Options</b>			
20D127100	1" Retraction N26 Bit Holder Head	Add HD	High Duty Cycle Motor Example: E45LH26V-143HD		

## Hold & Drive H22 & H26 Tang Holder Options

Select a Tang Holder for H22 & H26 Models  
 NOTE: Minimum socket size for each holder.  
 See p 39 for H22 & H26 Sockets.  
 See p 47 for E Cables.  
 See pp 15-18 for QA Controllers.  
 See pp 48-52 for Q Controllers.

### H18 Rectangular Tang Holders [Minimum Socket size]

20D261700 | 6mm X 8mm [14mm, 9/16"]      20D261701 | 5mm X 7.5mm [14mm, 9/16"]

### N22 Tang Holders [Minimum Socket size]

20D264400 | 8mm Hex [17mm, 11/16"]

### N26 Tang Holders [Minimum Socket size]

20D258200 | 8mm Hex Ext [17mm, 11/16"]  
 20D258201 | 8.7mm X 11mm [17mm, 11/16"]

### H22 & H26 Hex Tang Holders [Minimum Socket size]

L4106	11/32" [17mm, 11/16"]	20D214301	8mm Surface [17mm, 11/16"]	J4043	10mm Left Hd Fast L [17mm, 11/16"]
N4927	11/32" X 1-1/2 Ext [17mm, 11/16"]	H4372	8mm X 1" Ext [17mm, 11/16"]	N4189	10mm X 1.531" Ext [17mm, 11/16"]
H4210	0.340" [17mm, 11/16"]	H4888	8mm X 8" Ext [17mm, 11/16"]	F4600	10mm X 13mm [19mm, 3/4"]
L4373	3/8" [17mm, 11/16"]	J4382	8mm X 10mm Ext [17mm, 11/16"]	H4960	10mm X 32mm Ext [17mm, 11/16"]
N4758	5mm [14mm, 9/16"]	L4848	8mm X 19mm Ext [17mm, 11/16"]	A6233	10mm X 75mm Ext [17mm, 11/16"]
20D242700	5mm X 6.33mm [12.5mm, 1/2"]	L4784	8mm X 80mm Ext [17mm, 11/16"]	N4575	10mm X 1/4" Ext [17mm, 11/16"]
N4192	6mm [14mm, 9/16"]	F4636	8.5mm [17mm, 11/16"]	N4712	10mm X 3-1/8" Ext [17mm, 11/16"]
J4586	7mm [12mm, 1/2"]	L4005	9mm [17mm, 11/16"]	H4906	10.2mm X 11.5mm [19mm, 3/4"]
20D246900	7mm Surface [14mm 9/16"]	L4694	9mm Surface Drive [17mm, 11/16"]	L4803	11mm [17mm, 11/16"]
H4161	7mm X 1" Ext [12.5mm, 1/2"]	H4499	9mm X 46mm Ext [17mm, 11/16"]	20D214300	11mm Surface [17mm, 11/16"]
A6003	7mm X 6" Ext [12.5mm, 1/2"]	F4406	10mm [17mm, 11/16"]	20S200602	11.28 Double Hex Tang Holder
J4456	8mm [14mm, 9/16"]	H4877	10mm Fast Lead [17mm, 11/16"]	H4874	12mm [19mm, 3/4"]
F4573	8mm (5/16) [17mm, 11/16"]	20D222700	10mm X 6" Ext [17mm, 11/16"]	N4064	14mm Double End [16mm, 5/8"]

### H22 & H26 Rectangular Tang Holders [Minimum Socket size]

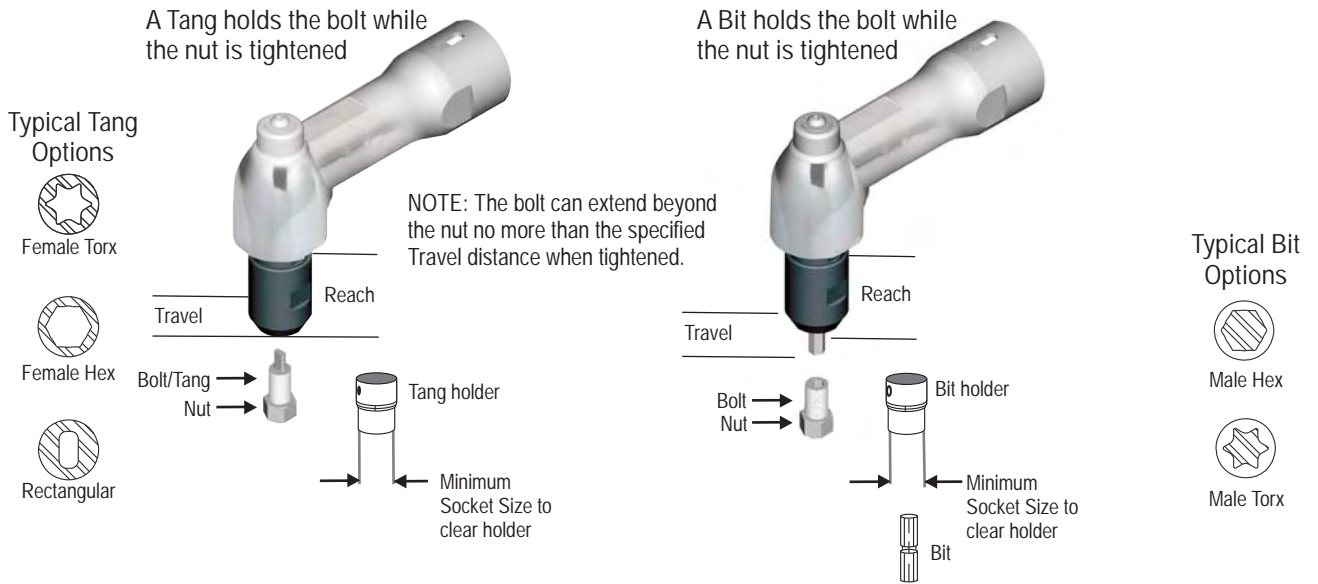
J4178	1/4" X 5/16" [14mm 9/16"]	L4978	6.3mm X 9.8mm [14mm, 17/32"]	N4749	8 X 10 X 80mm Ext (0.7 OD) [18, 11/16"]
N4826	1/4" X 7/16" [15mm 19/32"]	N4834	6.3 X 9.8 X 37mm Ext [14mm, 17/32"]	N4752	8 X 10 X 157mm Ext (0.7 OD) [18, 11/16"]
F4673	.390" X .529" [17mm 11/16"]	F4718	6.35mm X 8mm [15mm, 19/32"]	L4117	8.2mm X 9.8mm [17mm, 11/16"]
H4475	4mm X 6mm [12mm 1/2"]	J4214	6.3 X 8mm X 1/2" Ext [15mm, 19/32"]	L4869	8.2 X 9.8 X 80mm Ext [17mm, 11/16"]
A6005	4.4mm X 8mm [17mm 11/16"]	H4883	6.3 X 8mm X 3/8" Ext [15mm, 19/32"]	J4302	8.5mm X 10.5mm [17mm, 11/16"]
H4857	5mm X 7.5mm [12mm 1/2"]	H4858	6.35mm X 8.12mm [16mm, 5/8"]	J4296	8.5 X 10.5 X 16mm [17mm, 11/16"]
F4544	5mm X 8mm [17mm 11/16"]	20D215400	6.4mm X 8.4mm [17mm, 11/16"]	H4905	8.7mm X 11mm X Std Ext [19mm, 3/4"]
L4019	5mm X 8mm [4mm 7/32"]	F4870	6.7mm X 7mm [17mm, 11/16"]	20D226100	8.8mm X 9.8mm [17mm, 11/16"]
H4607	5.6mm X 9.8mm [14mm 9/16"]	H4725	6.8mm X 8.25mm [17mm, 11/16"]	J4990	8.9mm X 11.2mm X 80mm [19mm, 3/4"]
F4572	5.7mm X 8mm [12mm, 1/2"]	N4587	7.2 X 9.2 X 80mm Ext [15mm, 19/32"]	N4747	9 X 11.5 X 80mm Ext [19mm, 3/4"]
H4840	5.7mm X 8mm [17mm, 11/16"]	N4658	7.2mm X 9.2mm [15mm, 19/32"]	H4578	9mm X 11mm [19mm, 3/4"]
J4830	5.7 X 8 X 1" Ext [15mm, 19/32"]	F4975	7.2mm X 10.2mm [17mm, 11/16"]	N4031	9mm X 12.5mm [19mm, 3/4"]
H4606	5.7 X 8 X 5mm Ext [12mm, 1/2"]	H4064	7.2 X 10.2 X 30mm Ext [16mm, 5/8"]	N4130	9 X 12.5mm X 32mm Ext [19mm, 3/4"]
N4400	5.7 X 8 X 87mm Ext [15mm, 19/32"]	H4829	7.3mm X 9.4mm [17mm, 11/16"]	N4132	9 X 12.5mm X 102mm Ext [19mm, 3/4"]
L4524	5.77mm X 8mm [15mm, 19/32"]	N4995	7.3 X 10 X 152mm Ext [17mm, 11/16"]	N4030	9 X 12.5mm X 145mm Ext [19mm, 3/4"]
H4676	5.9mm X 6.8mm [14mm, 9/16"]	N4133	7.6 X 10 X 32mm Ext [17mm, 11/16"]	N4131	9 X 12.5mm X 27mm Ext [19mm, 3/4"]
F4596	5.9mm X 8.1mm [12mm, 1/2"]	N4994	7.6 X 10 X 152mm Ext [17mm, 11/16"]	N4384	9 X 12.5mm X 52mm Ext [19mm, 3/4"]
H4748	6 & 7 X 8.25mm Ext 2 Step [16mm, 5/8"]	N4033	7.6 X 10 X 75mm Ext [17mm, 11/16"]	N4187	9 X 12.5mm X 62mm Ext [19mm, 3/4"]
L4544	6mm X 7.72mm [12mm, 1/2"]	N4699	7.6 X 10 X 102mm Ext [12mm, 1/2"]	N4029	9 X 12.5mm X 70mm Ext [19mm, 3/4"]
N4716	6mm X 80mm Ext [14mm, 9/16"]	N4697	7.6 X 10 X 182mm Ext [12mm, 1/2"]	N4032	9 X 12.5mm X 75mm Ext [19mm, 3/4"]
N4666	6mm X 8mm [15mm, 9/16"]	F4287	7.7mm X 9.8mm [17mm, 11/16"]	N4748	9 X 12.6mm X 157mm Ext [19mm, 3/4"]
L4644	6mm X 8mm [17mm, 11/16"]	F4542	7.7 X 9.8 X 16mm Ext [17mm, 11/16"]	L4738	9.2 X 12.5 [19mm, 3/4"]
H4577	6mm X 8mm X 43mm Ext [16mm, 5/8"]	N4621	7.7 X 9.8 X 30mm Ext [16mm, 5/8"]	H4448	9.2 X 12.5 [19mm, 3/4"]
H4593	6mm X 8mm X 47mm Ext [16mm, 5/8"]	J4315	7.7 X 9.8mm X 80mm [17mm, 11/16"]	N4467	9.2 X 12.5 X 8.5mm Ext [19mm, 3/4"]
H4209	6mm X 10mm [16mm, 5/8"]	J4317	7.7 X 9.8 X 157mm [17mm, 11/16"]	H4485	9.2 X 12.5 X 10mm Ext [19mm, 3/4"]
L4017	6mm X 10mm [17mm, 11/16"]	N4921	7mm X 10mm [17mm, 11/16"]	N4469	9.2 X 12.5 X 26.5mm Ext [18mm, 11/16"]
N4484	6mm X 13mm [16mm, 5/8"]	H4761	7mm X 11mm [17mm, 11/16"]	H4819	9.2 X 12.5 X 45mm Ext [19mm, 3/4"]
A6136	6.24mm X 7.5mm [17mm, 11/16"]	H4488	8 X 10 X 10mm Ext [17mm, 11/16"]	L4523	9.2 X 12.5 X 80mm Ext [19mm, 3/4"]
J4877	6.3mm X 7.5mm [17mm, 11/16"]	H4958	8 X 10mm X 1-1/8" Ext [17mm, 11/16"]	H4484	9.2 X 12.5 X 155mm Ext [19mm, 3/4"]
N4413	6.3 X 8.0 X 32mm Ext [15mm, 19/32"]	H4904	8 X 10.5mm X 8" Ext [17mm, 11/16"]	N4151	9.2 X 12.5 X 157mm Ext [19mm, 3/4"]
H4489	6.3 X 8.7 X 80mm Ext [17mm, 11/16"]	J4785	8mm X 11mm [17mm, 11/16"]	H4483	9.2 X 12.5 X 182mm Ext [19mm, 3/4"]
J4707	6.3mm X 9mm [17mm, 11/16"]	H4176	8mm X 11mm/Lead [17mm, 11/16"]	L4732	9.2 X 12.5 X 300mm Ext [19mm, 3/4"]
H4115	6.3mm X 9.3mm [17mm, 11/16"]	N4483	8mm X 12mm [19mm, 3/4"]	H4889	9.4mm X 11.3mm X [19mm, 3/4"]
				J4314	9.75mm X 12mm [19mm, 3/4"]

### H22 & H26 Special Tang Holders [Minimum Socket size]

H4748 | 6 & 7 X 8.25mm Ext 2-Step [16mm, 5/8"]      A6226 | 8mm Sq X 47mm Ext [17mm, 11/16"]      R8461 | E12 Torx [17mm, 11/16"]  
 H4191 | 8mm Square [17mm, 11/16"]      20D226200 | E8 Torx [17mm, 11/16"]      H4373 | E14 Torx [17mm, 11/16"]



## Hold & Drive Options



Select a Bit Holder for H22, H26 & H32 Models  
 Select a 1/4" or 5/16" Bit Holder.  
 NOTE: Minimum socket size for each holder.  
 See p 39 for H22 & H26 Sockets.  
 See p 47 for E Cables.  
 See pp 15-18 for QA Controllers.  
 See pp 48-52 for Q Controllers.

## Hold & Drive Bit and Holder Options

H18 1/4" Bit Holder [Min Socket size]	H18 5/16" Bit Holder [Min Socket size]
20D254200   1/4" Hex [13mm (1/2")]	20D253400   5/16" Hex [14mm 9/16"]

N22 & N26 5/16" Bit Holders [Minimum Socket size]	
20D264300   N22 [20mm 13/16"]	20D258100   N26 [20mm 13/16"]

H22 & H26 1/4" Bit Holders [Min Socket size]	
20D215200	1/4" Hex [12mm 7/16"]
F4360	1/4" Hex [13mm (1/2")]
A6181	1/4" Hex X 1/4" Ext [12mm 7/16"]
A6182	1/4" Hex X 1/4" Ext [13mm 1/2"]
A6452	1/4" Hex, 1 5/8" [12mm 7/16"]

H22 & H26 5/16" Bit Holders [Minimum Socket size]			
S7750	5/16" Hex [14mm 9/16"]	H4897	5/16" Hex X 60mm Ext [17mm 11/16"]
A6193	5/16" Hex [16mm 5/8"]	N4670	5/16" Hex X 80mm Ext [17mm 11/16"]
F4288	5/16" Hex [17mm 11/16"]	20D226900	5/16" X 1" Ext [17mm 11/16"]
A6183	5/16" Hex X 1/4" Ext [17mm 11/16"]	20D233100	5/16" X 3" Ext [17mm 11/16"]
N4631	5/16" Hex X 31mm Ext [17mm 11/16"]	20D247200	5/16" X 175mm Ext [17mm 11/16"]

1/4" Bits	
A6178	5/32" Hex
A6179	3/16" Hex
A6453	1/4" Hex
N4451	5/16" Hex
H4533	5/16" Screw
L4898	4mm Hex
F4361	5mm Hex
H4909	7mm Hex
N4991	8mm Hex
H4436	Blade (1/4" X 0.038")
H4280	T15 Torx
A6134	T27 Torx
20D240600	T-45 Torx

H32 5/16" Bit Holder	H32 7/16" Bit Holder
A5307   5/16" Hex [19mm 3/4"]	A5723   7/16" Hex [19mm 3/4"]
7/16" Bits	
A5724   14mm Hex	

5/16" Bits	
A6180	7/32" Hex
A5668	1/4" Hex
20D246700	5/16" Slotted Hex
A5666	3/8" Hex
J4850	7/8" Hex
F4866	#2 Blade
F4380	5mm Hex
F4399	6mm Hex
A6206	6mm Square
A6207	6mm X 5mm Rectangular
F4296	7mm Hex
F4513	8mm Hex
H4223	9mm Hex
L4259	10mm Hex
A6341	T30 Hex
X4198	T30 Torx
A6373	T40 Torx
A6403	T50 Torx

Select a Bit Holder for H32 Models  
 Select a Tang Holder.  
 NOTE: Minimum socket size for each holder.  
 See p 39 for H22 & H26 Sockets.  
 See p 47 to select Cables and Controllers.

## H32 Hold & Drive Tang Holder Options

H32 Tang Holders [Minimum Socket size]			
A5384	9 X 12.5 X 80mm Ext	A5585	10.32 X 13.1mm Rect [22mm, 7/8]
A5559	8mm Hex [19mm, 3/4]	A5400	11mm Fast Lead [19mm, 3/4]
A5399	10mm Fast Lead [19mm, 3/4]	A5394	11mm Hex
A5301	10mm Hex [19mm, 3/4]	A5453	11mm X 1/4" Ext Fast Ld [19mm, 3/4]
A5452	10mm Hex X 1/4" Ext [19mm, 3/4]	A5549	11mm X 1/4" Ext Surface [22mm, 7/8]
A5581	10mm Surface Drive [19mm, 3/4]	20D212201	12mm Hex
		20D212203	12mm Hex SqDr
		20D212202	13mm Hex
		20D230100	24mm X 15/16" Surface Drive
		20D235000	34mm Hex
		20D226700	36mm Hex
		A5340	E-18 Torx [21mm, 13/16]



# QPM Hold & Drive Socket Options

H18 Hex Sockets 25.4mm OD (1")					
20D253602	14mm X 5mm Ext	20D253600	14mm, 21mm (0.825) OD	20D253601	16mm
20D253605	14mm X 6mm Ext	20D253604	15mm	20D253603	17mm
				20D253606	18mm

N22 Hex Sockets 46mm OD (1.825")		N26 Hex Sockets 49mm OD (1-15/16")	
20D264600	18mm	20D258000	18mm Surface
		20D258001	21mm

H22 Hex Sockets 30mm OD (1.2")				H22 Hex Surface Sockets 30mm OD (1.2")			
A6185	1/2"	H4747	14mm	20D245501	16mm X 200mm Ext	H4435	13mm
N4617	5/8" (16mm)	A6451	14mm X 1 Ext	H4270	17mm	A6200	15mm
N4620	5/8" (16mm) X 30mm Ext	20D215100	14mm X 2-5/8" Ext	N4619	18mm	N4750	17mm
A6184	7/16"	N4665	15mm	20D227000	18mm X 1" Ext	H4651	17mm X 1-1/8" Ext
N4746	3/4" (19mm)	H4597	15mm X 1/2"/Access Hole	N4746	19mm (3/4")	H4036	18mm
N4884	9/16"	A6282	15mm X 1.0" Ext	N4793	21mm	20D233000	18mm X 3" Ext
A6186	7/8" (22mm)	A6002	15mm X 6" Ext	20D222600	21mm X 6.00" Ext	H4038	18 X 18 Dp X 42mm Ext
H4600	7/8" (22mm) X 1-1/8" Ext	N4617	16mm (5/8")	H4600	22mm (7/8") X 1-1/8" Ext	H4500	18 X 46mm
20D235100	11/16"	N4620	16mm (5/8") X 30mm Ext	A6261	24mm	H4595	21mm
20S202000	1"	20D245500	16mm Hex X 60mm Ext	20D222903	24mm X 1/2" Ext	H4037	21 X 18 Dp X 42mm Ext
						20D222000	21 X 80mm Ext Surface

H26 Hex Sockets 33mm OD (1.3")							
J4090	5/8" (16mm)	J4213	15mm X 1/2" Ext	H4886	18mm X 8" Ext	N4337	21mm X 8mm Ext
L4535	5/8" (16mm) X 10mm Ext	J4829	15mm X 1" Ext	L4646	18mm X 19mm (3/4") Ext	N4466	21mm X 8.5mm Ext
NA	(3/4") See 19mm	J4090	16mm (5/8")	N4468	18mm X 26.5mm Ext	H4629	21mm X 52mm Ext
NA	(7/8") See 22mm	L4535	16mm (5/8") X 10mm Ext	H4628	18mm X 32mm (1-1/4") Ext	N4382	21mm X 57mm Ext
F4571	9/16"	F4285	17mm	N4698	18mm X 107mm Ext	20D232600	21mm X 80mm Ext
J4708	9/16" X 1/2 Ext	J4304	17mm (Special OD)	N4696	18mm X 187mm Ext	L4733	21mm X 300mm Ext
L4116	11/16"	H4959	17mm X 1-1/8" Ext	F4294	19mm (3/4")	F4487	22mm (7/8")
L4525	11/16" X 36mm Ext	N4975	17mm X 10mm Ext	L4886	19mm(3/4") X 3/8" Ext Sp OD	A6216	22mm (7/8") Special OD
A6270	15/16" Hex	J4467	17mm X 19mm (3/4") Ext	L4119	19mm (3/4") X 1.135" OD	L4372	22mm (7/8") X 52mm Ext
NA	(15/16") See 24mm	H4781	17mm X 36mm Ext	F4653	19mm (3/4") X 10mm	J4989	22mm (7/8") X 80mm Ext
F4867	1-1/16" (27mm)	N4398	17mm X 87mm Ext	F4541	19mm (3/4") X 16mm Ext	20D232601	23mm Hex A40LA3H
L4897	12mm	F4635	18mm	J4316	19mm (3/4") X 80mm Ext	F4512	24mm (15/16")
F4359	14mm	N4457	18mm X 1/4" Ext	J4318	19mm (3/4") X 157mm Ext	H4820	24mm (15/16") X 45mm Ext
A6231	14mm Double	L4118	18mm X 1/4" Ext Spec OD	N4177	20mm	L4663	24mm X 10mm Ext
F4717	15mm	L4556	18mm X 1 1/2" Ext	F4401	21mm	F4867	27mm (1-1/16")
N4825	15mm (Use/N4826 sp OD)	N4711	18mm X 3-1/8" Ext	N4188	21mm X 1.531" Ext	L4622	30mm (1-3/16")

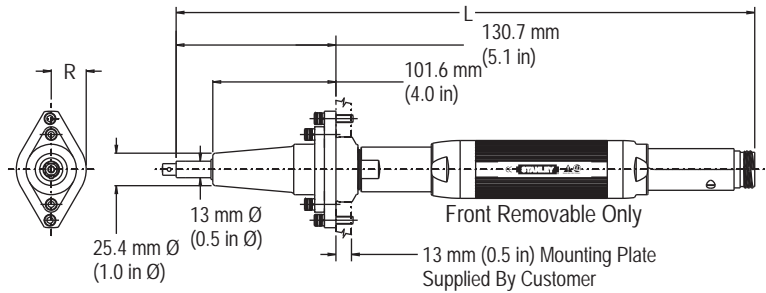
H26 Hex Surface Sockets 33mm OD (1.3")							
A6137	10mm	H4487	18mm X 10mm	N4036	21mm	N4137	21mm X 107mm Ext
J4662	15mm	H4040	18 X 12mm Dp X 28mm Ext	A6467	21mm X 2" Ext	N4035	21mm X 150 Ext
N4412	15mm X 37mm Ext	N4134	18mm X 37mm Ext	20D226300	21mm X 8.5mm Ext	H4447	21mm X 155mm Ext
N4582	15mm X 80mm Ext	L4067	18mm X 80mm Ext	H4486	21mm X 10mm	N4150	21mm X 157mm Ext
J4398	17mm	N4715	18mm X 80mm Ext 1.10" OD	H4039	21 X 15mm Dp X 28mm Ext	H4366	21mm X 182mm
H4576	17mm X 1.5" Ext	L4426	18mm X 80mm Ext 1.14" OD	N4136	21mm X 32mm (1-1/4") Ext	N4440	22mm (7/8")
H4594	17mm X 1-5/8" Ext	L4073	18mm X 157mm Ext	N4135	21mm X 37mm Ext	A6228	22mm (7/8") X 1/4" Ext
H4409	17mm X 37mm Ext	L4474	19mm (3/4")	N4186	21mm X 67mm	L4557	22mm (7/8") X 10mm
H4177	18mm	F4869	19mm (3/4") X 7mm	N4034	21mm X 75mm	N4439	24mm
H4612	18mm Over Size	J4381	19mm (3/4") X 18mm Ext	N4149	21 X 80mm Ext 1.215" OD	20D213700	24mm X 8" Ext
A6215	18mm X 1-1/2" Ext	A6474	19mm Hex X 46mm Ext	L4068	21mm X 80mm Ext		

H26 Hex Fast Lead Sockets 33mm OD (1.3")							
J4457	14mm	N4926	18mm	L4868	19mm (3/4")	J4607	22mm (7/8")
J4608	17mm	N4925	18mm X 1-1/2" Ext	J4044	21mm		

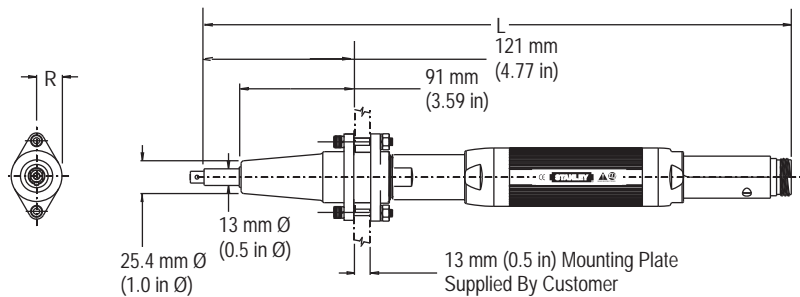
H32 Hex Socket 1" Travel Options		49mm OD (1.93")		H32 Hex Socket 2" Travel Options			
A5667	1 1/8"	A5306	30mm (1-3/16")	A5303	21mm	A5316	30mm (1-3/16")
A5302	21mm	A5726	36mm	A5383	22mm (7/8")	A5339	31mm
20D212101	24mm (15/16")	A5722	41mm	A5393	24mm (15/16")	A5718	46mm
20D212102	27mm (1-1/16")						

## Straight Retractable (2.5 to 2005 Nm)

Tool Configuration  
 Select model and options.  
 See p 47 for E Cables.  
 See pp 15-18 for QA Controllers.  
 See pp 48-52 for Q Controllers.



MODEL	Rated Speed	Torque Range		"R" Side to Center		"L" Length		Weight		Standard Output	
	RPM	Nm	lb ft	mm	in	mm	in	kg	lb	Retraction	SD
E23MBF1-8	2245	2.5 - 8	2 - 6	29	1.13	457	18	2.1	4.6	19mm (3/4")	3/8"
E23MBF1-21	785	6 - 21	5 - 15.5	29	1.13	470	18.5	2.3	5		
E23MBF1-31	540	9 - 31	7 - 23	29	1.13	470	18.5	2.3	5		
E33MBF1-32	1125	10 - 32	7 - 24	29	1.13	495	19.5	2.4	5.3		
E33MBF1-40	890	12 - 40	9 - 30	29	1.13	495	19.5	2.4	5.3		
E23MBF2-8	2245	2.5 - 8	2 - 6	29	1.13	547	21.5	2.2	4.8	50mm (2")	3/8"
E23MBF2-21	785	6 - 21	5 - 15.5	29	1.13	561	22.1	2.4	5.4		
E23MBF2-31	540	9 - 31	7 - 23	29	1.13	561	22.1	2.4	5.4		
E33MBF2-32	1125	10 - 32	7 - 24	29	1.13	587	23.1	2.5	5.6		
E33MBF2-40	890	12 - 40	9 - 30	29	1.13	587	23.1	2.5	5.6		



MODEL	Rated Speed	Torque Range		"R" Side to Center		"L" Length		Weight		Standard Output	
	RPM	Nm	lb ft	mm	in	mm	in	kg	lb	Retraction	SD
E23MBF1-8F	2245	2.5 - 8	2 - 6	23.6	0.93	457	18	2.1	4.6	19mm (3/4")	3/8"
E23MBF1-21F	785	6 - 21	5 - 15.5	23.6	0.93	469	18.5	2.3	5		
E23MBF1-31F	540	9 - 31	7 - 23	23.6	0.93	469	18.5	2.3	5		
E33MBF1-32F	1125	10 - 32	7 - 24	23.6	0.93	495	19.5	2.4	5.3		
E33MBF1-40F	890	12 - 40	9 - 30	23.6	0.93	495	19.5	2.4	5.3		
E23MBF2-8F	2245	2.5 - 8	2 - 6	23.6	0.93	547	21.5	2.3	5.1	50mm (2")	3/8"
E23MBF2-21F	785	6 - 21	5 - 15.5	23.6	0.93	561	22.1	2.5	5.6		
E23MBF2-31F	540	9 - 31	7 - 23	23.6	0.93	561	22.1	2.5	5.6		
E33MBF2-32F	1125	10 - 32	7 - 24	23.6	0.93	587	23.1	2.6	5.8		
E33MBF2-40F	890	12 - 40	9 - 30	23.6	0.93	587	23.1	2.6	5.8		

### MBF1 Output Options

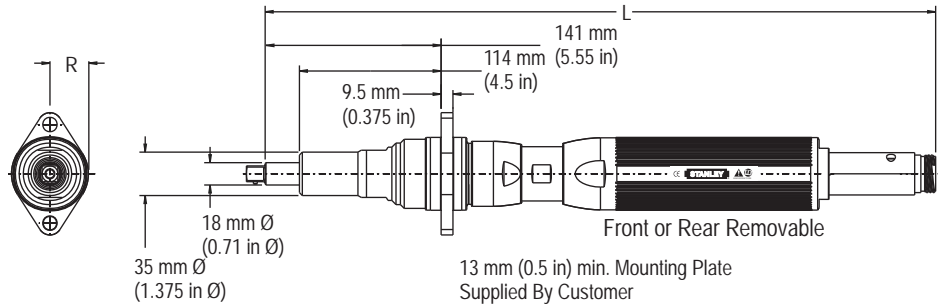
S3362	3/8" SD X 1 5/32" Ext	M3239	3/8" SD X 3" Ext	S3626	3/8" SD X 7 3/8" Ext
M3243	3/8" SD X 1.478" Ext	M3223	3/8" SD X 4" Ext	M3216	3/8" SD X 8" Ext
S3363	3/8" SD X 2 3/8" Ext	S3486	3/8" SD X 4-1/16" Ext	M3118	3/8"-24 Threaded
M3090	3/8" SD X 2" Ext	M3224	3/8" SD X 6" Ext	M3227	3/8"-24 X 3/4" Ext Threaded
M3184	19mm Heavy Duty Retraction Spring			20S104600	3/8" SD X 8" Ext Ass'y

### MBF2 Output Options

20D209805	3/8" SD X 1" Ext	20D209801	3/8" SD X 3" Ext	M3306	50mm (2") Heavy Duty Retraction Spring
20D209807	3/8" SD X 2" Ext	M3283	3/8" SD X 6" Ext		

Tool Configuration  
 Select model and options.  
 See p 47 for E Cables.  
 See pp 15-18 for QA Controllers.  
 See pp 48-52 for Q Controllers.

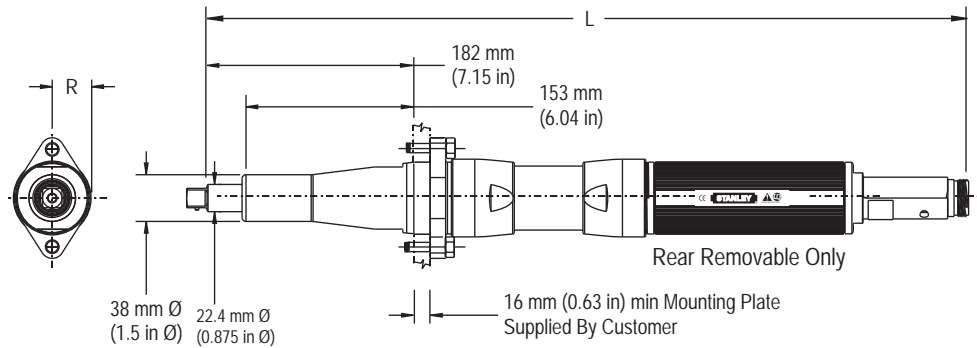
## Straight Retractable Motors (2.5 to 2005 Nm)



MODEL	Rated Speed	Torque Range		"R" Side to Center		"L" Length		Weight		Standard Output	
	RPM	Nm	lb ft	mm	in	mm	in	kg	lb	Retraction	SD
E34MB1F1-60	605	18 - 60	13 - 44	28	1.1	531	20.9	3.5	7.7	25mm (1")	1/2"
E34MB1F1-74	490	22 - 74	17 - 55	28	1.1	531	20.9	3.5	7.7		
E34MB1F1-100	365	30 - 100	22 - 74	28	1.1	531	20.9	3.5	7.7		
E44MB1F1-66	885	20 - 66	15 - 49	31	1.2	540	21.3	4	8.9		
E44MB1F1-100	590	30 - 100	22 - 74	31	1.2	540	21.3	4	8.9		
E34MB1F2-60	605	18 - 60	13 - 44	28	1.1	616	24.3	3.5	7.7	50mm (2")	1/2"
E34MB1F2-74	490	22 - 74	17 - 55	28	1.1	616	24.3	3.5	7.7		
E34MB1F2-100	365	30 - 100	22 - 74	28	1.1	616	24.3	3.5	7.6		
E44MB1F2-66	885	20 - 66	15 - 49	31	1.2	625	21.3	4	8.9		
E44MB1F2-100	590	30 - 100	22 - 74	31	1.2	625	21.3	4	8.9		

MB1F1 Output Options											
20D101603	1/2" SD X 3" Ext	20D101604	1/2" SD X 5" Ext	20D101605	1/2" SD X 7 5/16" Ext						
20D101608	1/2" SD X 4" Ext	20D101606	1/2" SD X 6" Ext	20D101609	1/2" SD X 8" Ext						
20R201401	25mm (1") Heavy Duty Retraction Spring				20D101607	1/2" SD X 11" Ext					

MB1F2 Output Options												
20D101602	1/2" SD Ball Ret					M6011	1/2" SD X 3" Ext					
20R201402	50mm (2") Heavy Duty Retraction Spring				M4888	1/2" SD X 5" Ext						

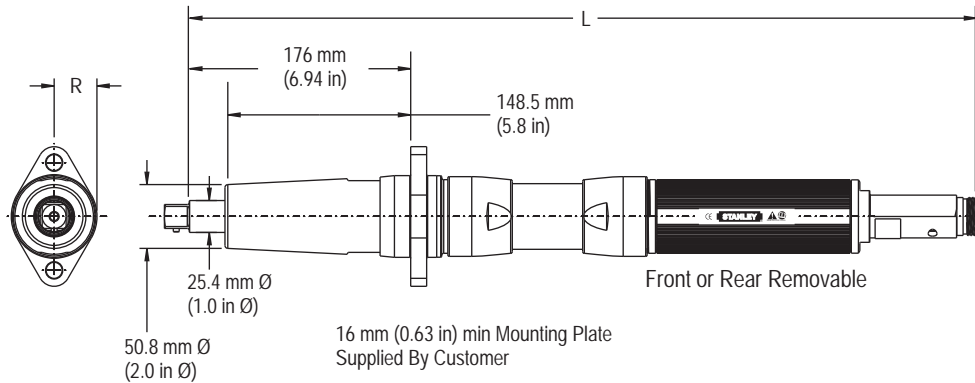


MODEL	Rated Speed	Torque Range		"R" Side to Center		"L" Length		Weight		Standard Output	
	RPM	Nm	lb ft	mm	in	mm	in	kg	lb	Retraction	SD
E45MB2F1-160	345	48 - 160	35 - 118	32	1.25	621	24.5	5.6	12.4	25mm (1")	5/8"
E55MB2F1-127	715	38 - 127	28 - 94	32	1.25	649	25.6	6.2	13.7		
E55MB2F1-200	475	60 - 200	44 - 147	32	1.25	649	25.6	6.2	13.7		
E45MB2F2-160	345	48 - 160	35 - 118	32	1.25	672	26.5	5.6	12.4	50mm (2")	5/8"
E55MB2F2-127	715	38 - 127	28 - 94	32	1.25	680	27.6	6.2	13.7		
E55MB2F2-200	475	60 - 200	44 - 147	32	1.25	680	27.6	6.2	13.7		

MB2F1 Output Options						MB2F2 Output Options						
20R201408	25mm Heavy Duty Spring					20R201410	50mm Heavy Duty Retraction Spring					
20D102912	5/8" SD X 2" Ext					20D102907	5/8" SD Pin Ret X 1 1/8" Ext		20D102908	5/8" SD Pin Ret X 12" Ext		
20D102913	5/8" SD X 6" Ext					20D102903	5/8" SD Pin Ret X 4" Ext		20D102909	5/8" SD Ball Ret X 12" Ext		
						20D102905	5/8" SD Ball Ret X 4" Ext					

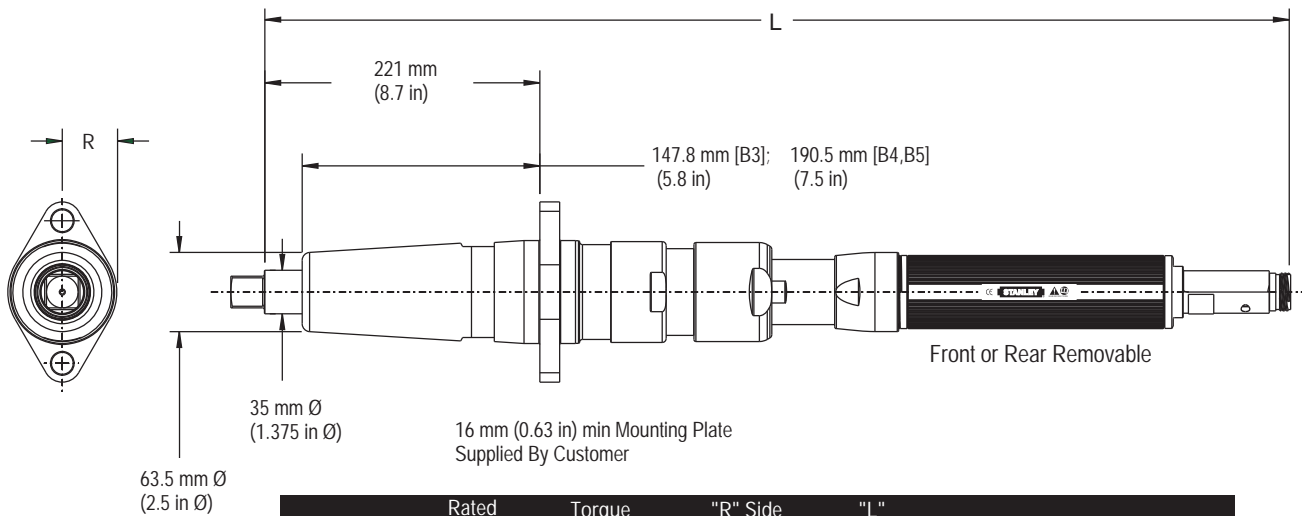
## Straight Retractable Motors (2.5 to 2005 Nm)

Tool Configuration  
 Select model and options.  
 See p 47 for E Cables.  
 See pp 15-18 for QA Controllers.  
 See pp 48-52 for Q Controllers.



MODEL	Rated Speed RPM	Torque Range Nm	Torque Range lb ft	"R" Side to Center		"L" Length		Weight		Standard Output	
				mm	in	mm	in	kg	lb	Retraction	SD
E45MB3F1-250	220	75 - 250	55 - 184	34	1.34	628	24.7	7.1	15.6	25mm (1")	3/4"
E55MB3F1-250	380	75 - 250	55 - 184	34	1.34	656	25.8	7.7	17		
E55MB3F1-322	230	97 - 322	71 - 237	34	1.34	734	28.9	11	24.4		
E45MB3F2-250	220	75 - 250	55 - 184	34	1.34	707	27.9	7.3	16	50mm (2")	3/4"
E55MB3F2-250	380	75 - 250	55 - 184	34	1.34	735	29	7.9	17.5		
E55MB3F2-322	230	97 - 322	71 - 237	34	1.34	813	32	11.3	25		

MB3F1 Output Options				MB3F2 Output Options			
20R201404	25mm Heavy Duty Retraction Spring	20R201406	50mm Heavy Duty Retraction Spring				
20D102106	3/4" SD X 6 in Ext	20D102105	3/4" SD X 2 in Ext				
20D102306	3/4" SD Retractable Ball Retainer (-322 model)						

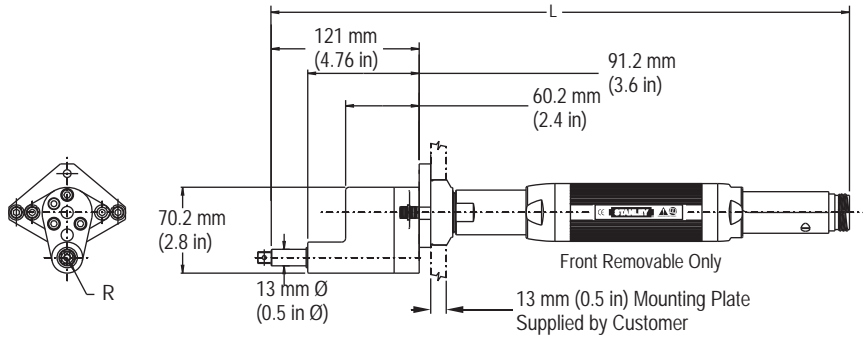


MODEL	Rated Speed RPM	Torque Range Nm	Torque Range lb ft	"R" Side to Center		"L" Length		Weight		Standard Output	
				mm	in	mm	in	kg	lb	Retraction	SD
E55MB4F1-471	185	141 - 471	104 - 347	44	1.7	814	32	17.2	38	25mm (1")	1"
E55MB4F1-623	140	187 - 623	138 - 459	44	1.7	814	32	17.2	38		
E55MB5F1-1023	75	307 - 1023	226 - 754	48	1.9	859	33.8	18.3	40.2		
E55MB5F1-1637	45	491 - 1637	362 - 1207	48	1.9	891	35	19.2	42.2		
E55MB5F1-2005	35	602 - 2005	444 - 1479	48	1.9	891	35	19.2	42.2		
E55MB4F2-471	185	141 - 471	104 - 347	44	1.7	928	36.5	17.5	38.5	50mm (2")	1"
E55MB4F2-623	140	187 - 623	138 - 459	44	1.7	928	36.5	17.5	38.5		
E55MB5F2-1023	75	307 - 1023	226 - 754	48	1.9	964	37.9	18.6	41		
E55MB5F2-1637	45	491 - 1637	362 - 1207	48	1.9	996	39.1	19.5	43		

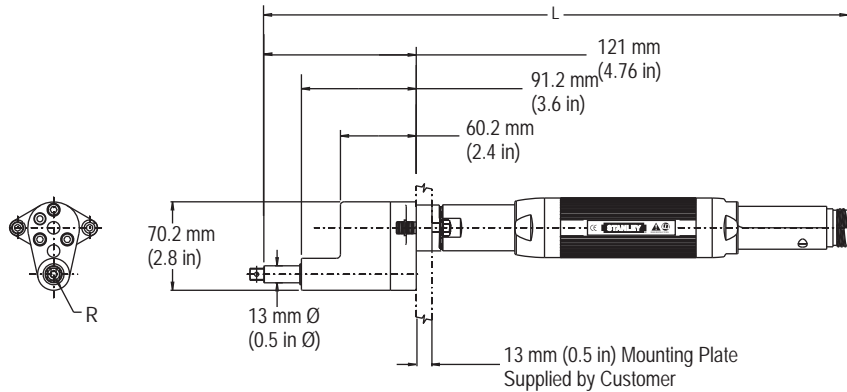
MB4/5F1 Output Options		MB4F1 Output Options		MB4/5F2 Output Options	
20D208802	1" SD x 4" Ext	20D103503	1" SD Ball Retainer	20R206300	Heavy Duty Spring (39 lb)
		20D121100	3/4" SD X 2" Ext	20D212501	1" SD x 2" Ext
				20D212500	1" SD x 350 mm Ext

## Offset Retractable Motors (2 to 225 Nm)

Tool Configuration  
 Select model and options.  
 See p 47 for E Cables.  
 See pp 15-18 for QA Controllers.  
 See pp 48-52 for Q Controllers.



MODEL	Rated Speed		Torque Range		"R" Side to Center		"L" Length		Weight		Standard Output	
	RPM	Nm	lb ft	mm	in	mm	in	kg	lb	Retraction	SD	
E23MDF1-7	2245	2 - 7	105 - 5	13	0.5	457	18	2.4	5.2	19mm (3/4")	3/8"	
E23MDF1-19	785	6 - 19	4 - 14	13	0.5	470	18.5	2.5	5.6			
E23MDF1-27	540	8 - 27	6 - 20	13	0.5	470	18.5	2.5	5.6			
E33MDF1-29	1125	9 - 29	6.5 - 21	13	0.5	496	19.5	2.7	5.9			
E33MDF1-36	890	11 - 36	8 - 27	13	0.5	496	19.5	2.7	5.9			
E23MDF2-7	2245	2 - 7	105 - 5	13	0.5	534	21.0	2.5	5.5	50mm (2")	3/8"	
E23MDF2-19	785	6 - 19	4 - 14	13	0.5	549	21.6	2.6	5.9			
E23MDF2-27	540	8 - 27	6 - 20	13	0.5	549	21.6	2.6	5.9			
E33MDF2-29	1125	9 - 29	6.5 - 21	13	0.5	574	22.6	2.8	6.2			
E33MDF2-36	890	11 - 36	8 - 27	13	0.5	574	22.6	2.8	6.2			



MODEL	Rated Speed		Torque Range		"R" Side to Center		"L" Length		Weight		Standard Output	
	RPM	Nm	lb ft	mm	in	mm	in	kg	lb	Retraction	SD	
E23MDF1-7F	2245	2 - 7	1.5 - 5	13	0.5	457	18	2.4	5.2	19mm (3/4")	3/8"	
E23MDF1-19F	785	6 - 19	4 - 14	13	0.5	470	18.5	2.5	5.6			
E23MDF1-27F	540	8 - 27	6 - 20	13	0.5	470	18.5	2.5	5.6			
E33MDF1-29F	1125	9 - 29	6.5 - 21	13	0.5	496	19.5	2.7	5.9			
E33MDF1-36F	890	11 - 36	8 - 27	13	0.5	496	19.5	2.7	5.9			
E23MDF2-7F	2245	2 - 7	1.5 - 5	13	0.5	547	21.5	2.4	5.3	50mm (2")	3/8"	
E23MDF2-19F	785	6 - 19	4 - 14	13	0.5	560	22	2.5	5.6			
E23MDF2-27F	540	8 - 27	6 - 20	13	0.5	560	22	2.5	5.7			
E33MDF2-29F	1125	9 - 29	6.5 - 21	13	0.5	585	23	2.7	6.0			
E33MDF2-36F	890	11 - 36	8 - 27	13	0.5	585	23	2.7	6.0			

### MDF1 Output Options

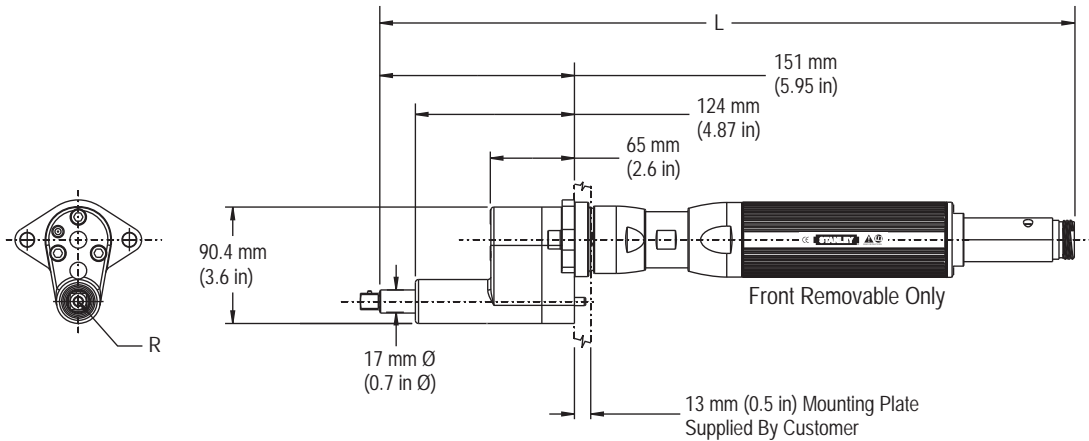
S3362	3/8" SD X 1 5/32" Ext	M3239	3/8" SD X 3" Ext	S3626	3/8" SD X 7 3/8" Ext
M3243	3/8" SD X 1.478" Ext	M3223	3/8" SD X 4" Ext	M3216	3/8" SD X 8" Ext
S3363	3/8" SD X 2 3/8" Ext	S3486	3/8" SD X 4-1/16" Ext	M3118	3/8"-24 Threaded
M3090	3/8" SD X 2" Ext	M3224	3/8" SD X 6" Ext	M3227	3/8"-24 X 3/4" Ext Threaded
M3184	19mm Heavy Duty Retraction Spring			20S104600	3/8" SD X 8" Ext Ass'y

### MDF2 Output Options

20D209805	3/8" SD X 1" Ext	20D209801	3/8" SD X 3" Ext	M3306	50mm (2") Heavy Duty Retraction Spring
20D209807	3/8" SD X 2" Ext	M3283	3/8" SD X 6" Ext		

Tool Configuration  
 Select model and options.  
 See p 47 for E Cables.  
 See pp 15-18 for QA Controllers.  
 See pp 48-52 for Q Controllers.

## Offset Retractable Motors (2 to 225 Nm)



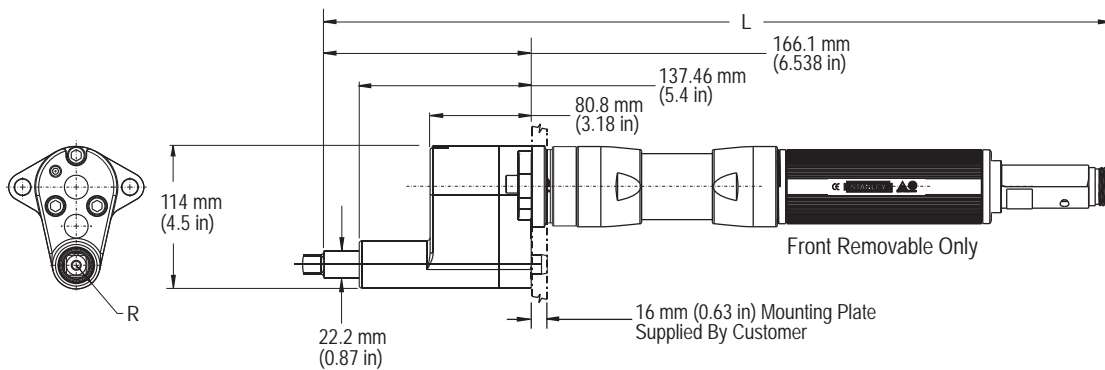
MODEL	Rated Speed		Torque Range		"R" Side to Center		"L" Length		Weight		Standard Output	
	RPM	Nm	lb ft	mm	in	mm	in	kg	lb	Retraction	SD	
E34MD1F1-54	605	16 - 54	12 - 40	17	0.67	531	20.9	4.4	9.7	25mm (1")	1/2"	
E34MD1F1-67	490	20 - 67	15 - 49	17	0.67	531	20.9	4.4	9.7			
E34MD1F1-90	365	27 - 90	20 - 66	17	0.67	531	20.9	4.4	9.7			
E44MD1F1-59	885	17.5 - 59	13 - 44	17	0.67	540	21.3	4.7	10.4			
E44MD1F1-90	590	27 - 90	20 - 66	17	0.67	540	21.3	4.7	10.4	50mm (2")	1/2"	
E34MD1F2-54	605	16 - 54	12 - 40	17	0.67	616	24.3	4.4	9.7			
E34MD1F2-67	490	20 - 67	15 - 49	17	0.67	616	24.3	4.4	9.7			
E34MD1F2-90	365	27 - 90	20 - 66	17	0.67	616	24.3	4.4	9.7			
E44MD1F2-59	885	17.5 - 59	13 - 44	17	0.67	628	24.7	4.7	10.4	50mm (2")	1/2"	
E44MD1F2-90	590	27 - 90	20 - 66	17	0.67	628	24.7	4.7	10.4			

### MD1F1 Output Options

20D101603	1/2" SD X 3" Ext	20D101606	1/2" SD X 6" Ext
20D101608	1/2" SD X 4" Ext	20D101605	1/2" SD X 7 5/16" Ext
20D101604	1/2" SD X 5" Ext	20D101609	1/2" SD X 8" Ext
20R201401	25mm (1") Heavy Duty Retraction Spring	20D101607	1/2" SD X 11" Ext

### MD1F2 Output Options

20D101602	1/2" SD Ball Ret	M6011	1/2" SD X 3" Ext
20R201402	50mm (2") Heavy Duty Retraction Spring	M4888	1/2" SD X 5" Ext



MODEL	Rated Speed		Torque Range		"R" Side to Center		"L" Length		Weight		Standard Output	
	RPM	Nm	lb ft	mm	in	mm	in	kg	lb	Retraction	SD	
E45MD2F1-144	345	43 - 144	32 - 106	19	0.75	605	23.8	8	17.5	25mm (1")	5/8"	
E55MD2F1-114	715	34 - 114	25 - 84	19	0.75	633	24.9	8.3	18.2			
E55MD2F1-180	475	54 - 180	40 - 133	19	0.75	633	24.9	8.3	18.2			
E45MD2F2-144	345	43 - 144	32 - 106	19	0.75	694	27.2	8.2	18	50mm (2")	5/8"	
E55MD2F2-114	715	34 - 114	25 - 84	19	0.75	712	28	8.5	18.7			
E55MD2F2-180	475	54 - 180	40 - 133	19	0.75	712	28	8.5	18.7			

### MB2F1 Output Options

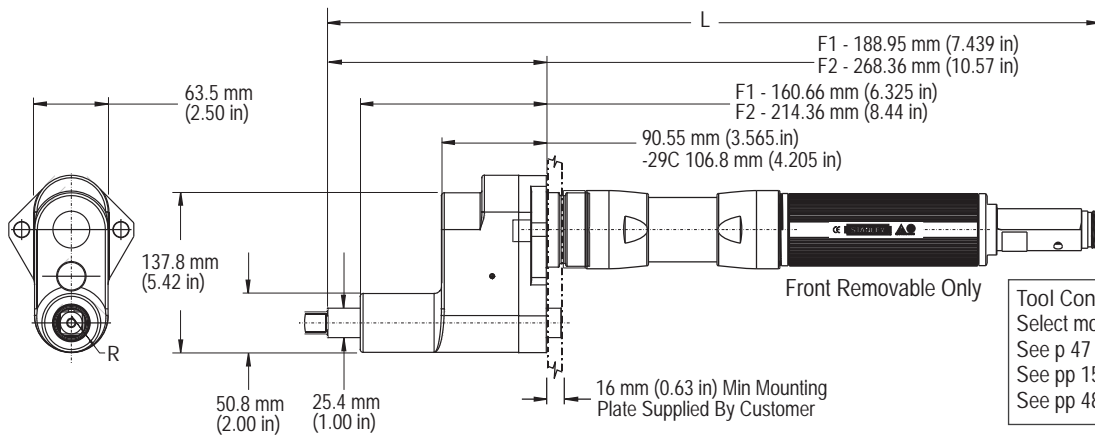
20R201408 | 25mm Heavy Duty Retraction Spring

### MB2F2 Output Options

20R201410 | 50mm Heavy Duty Retraction Spring  
 20D102904 | 5/8" SD Retractable Ball Retainer

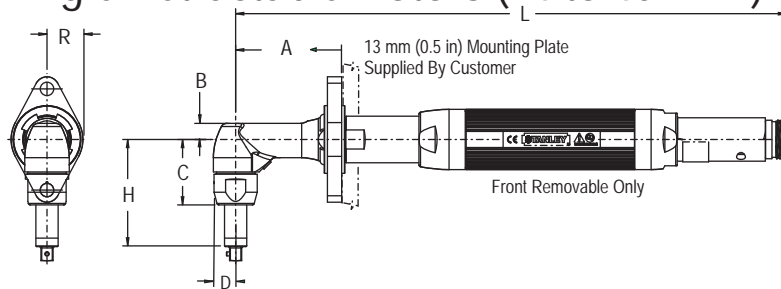


# Offset Retractable Motors (2 to 225 Nm)



MODEL	Rated Speed RPM	Torque Range Nm	Torque Range lb ft	"R" Side to Center		"L" Length		Weight		Standard Output	
				mm	in	mm	in	kg	lb	Retraction	SD
E45MD3F1-144	345	43 - 144	32 - 106	32	1.25	628	24.7	10.2	22.5	25mm (1")	3/4"
E45MD3F1-225	220	68 - 225	50 - 166	32	1.25	628	24.7	10.2	22.5		
E55MD3F1-180	475	54 - 180	40 - 133	32	1.25	656	25.8	10.5	23.2		
E55MD3F1-225	380	68 - 225	50 - 166	32	1.25	656	25.8	10.5	23.2		
E55MD3F1-290	380	87 - 290	64 - 214	32	1.25	710	28	11.4	25.1		
E45MD3F2-144	345	43 - 144	32 - 106	32	1.25	707	27.9	10.5	23.2	50mm (2")	3/4"
E45MD3F2-225	220	68 - 225	50 - 166	32	1.25	707	27.9	10.5	23.2		
E55MD3F2-180	475	54 - 180	40 - 133	32	1.25	735	29	10.8	23.8		
E55MD3F2-225	380	68 - 225	50 - 166	32	1.25	735	29	10.8	23.8		
E55MD3F2-290	380	87 - 290	64 - 214	32	1.25	790	31.1	11.6	25.5		
<b>MB3F1 Output Options</b>						<b>MB3F2 Output Options</b>					
20R201404   25mm Heavy Duty Retraction Spring						20R201406   50mm Heavy Duty Retraction Spring					

# Angle Retractable Motors (14 to 401 Nm)



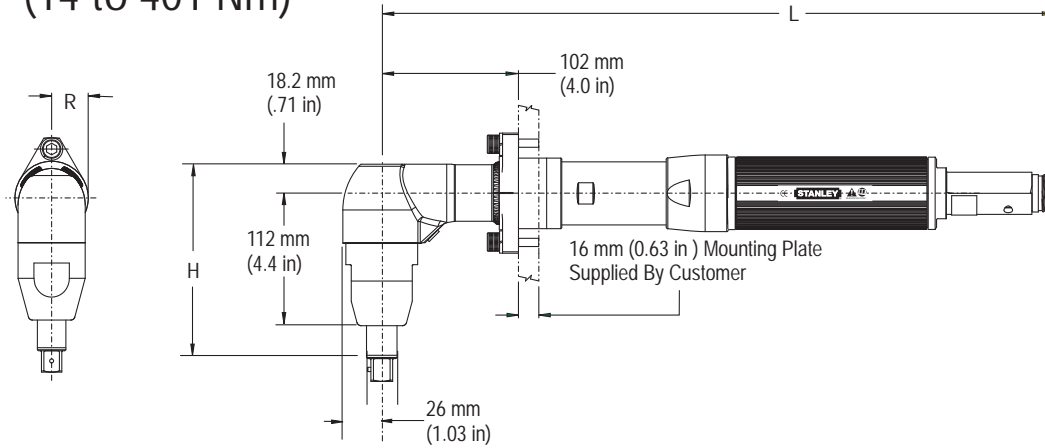
		Additional Head Dimensions			
Head	Units	A	B	C	D
E33MA18	mm	83	13	51	18
	in	3.3	0.5	2	0.7
E33MA19	mm	86	16	103	19
	in	3.4	0.6	4	0.8
E34MA19	mm	74	16	103	19
E44MA19	in	2.9	0.6	4	0.8
E34MA22	mm	82	16	130	22
E44MA22	in	3.2	0.6	5.1	0.9

MODEL	Rated Speed RPM	Torque Range Nm	Torque Range lb ft	"R" Side to Center		"H" Head Height		"L" Length		Weight		Standard Output	
				mm	in	mm	in	mm	in	kg	lb	Retraction	SD
E33MA18F1-46	750	14 - 46	10 - 34	28	1.1	97	3.8	433	17	2.5	5.6	16mm (5/8")	3/8"
E33MA19F1-60	570	18 - 60	13 - 44	28	1.1	146.5	5.8	440	17.3	2.7	6		
E34MA19F1-70	435	21 - 70	15 - 51.5	28	1.1	146.5	5.8	470	18.5	3.4	7.6	25mm (1")	1/2"
E44MA19F1-70	635	21 - 70	15 - 51.5	28	1.1	146.5	5.8	479	18.9	3.8	8		
E34MA22F1-115	295	35 - 115	27 - 85	28	1.1	114	4.5	473	18.6	3.7	8.2		
E44MA22F1-120	475	35 - 120	26 - 89	28	1.1	114	4.5	482	19	4.1	9	50mm (2")	1/2"
E33MA18F2-46	750	14 - 46	10 - 34	28	1.1	138	5.4	433	17	2.6	5.7		
E33MA19F2-60	570	18 - 60	13 - 44	28	1.1	194	7.6	440	17.3	2.8	6.1		
E34MA19F2-70	435	21 - 70	15 - 51.5	28	1.1	194	7.6	470	18.5	3.5	7.7		
E44MA19F2-70	635	21 - 70	15 - 51.5	28	1.1	194	7.6	479	18.9	3.8	8.2		
E34MA22F2-115	295	35 - 115	27 - 85	28	1.1	146	5.8	473	18.6	3.8	8.2		
E44MA22F2-120	475	35 - 120	26 - 89	28	1.1	146	5.8	482	19	4.1	9		

<b>MA18F1 Output Options (Contact Stanley for 3/8 SD Extended Spindle Options)</b>						<b>MA22F1 Output Options</b>					
20D104604   1/2" SD		20D104603   3/8" SD X 2" Ext		20D117700   1/2 X 2-5/8" Ext		M4466   1/2" SD X 8" Ext					
20D104605   1/2" SD X 2" Ext		M4886   Heavy Duty Retraction Spring		M4306   1/2" SD X 2" Ext		M4800   25mm Heavy Duty Spring					
<b>MA18F2 Output Options</b>											
20D111002   3/8" SD X 1/2" Ext		20D111005   3/8" SD X 2" Ext		20D111008   3/8" SD X 4" Ext							
20D111003   3/8" SD X 1" Ext		20D111006   3/8" SD X 55mm Ext		20D111004   3/8" SD X 6" Ext							
20R201421   50mm Heavy Duty Retraction Spring				20D111001   3/8" SD X 7" Ext							
<b>MA19F1 Output Options</b>			<b>MA19F2 Output Options</b>								
20R201407   25mm Heavy Duty Retraction Spring			20R201421   50mm Heavy Duty Retraction Spring								
20D115901   1/2" SD Retractable X 2" Ext			20D112301   1/2" SD Retractable X 4" Ext								

Tool Configuration  
 Select model and options.  
 See p 47 for E Cables.  
 See pp 15-18 for QA Controllers.  
 See pp 48-52 for Q Controllers.

## Angle Retractable Motors (14 to 401 Nm)



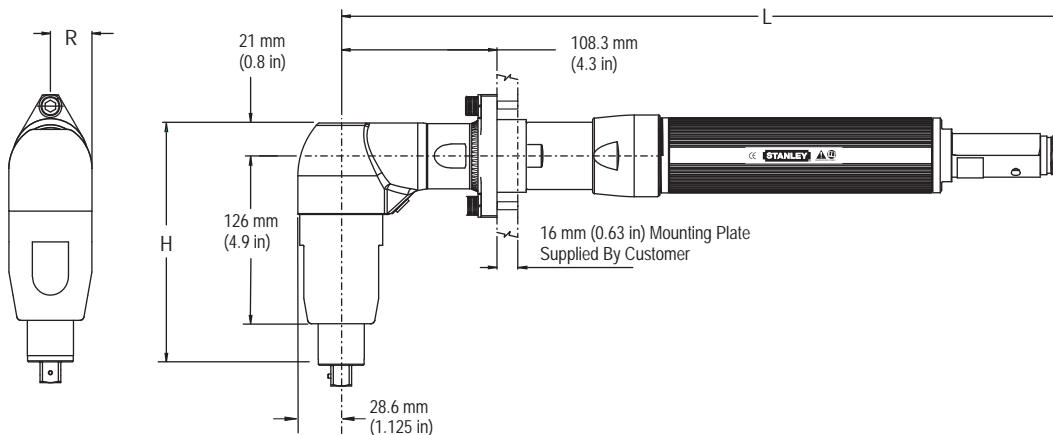
MODEL	Rated Speed	Torque Range		"R" Side to Center		"H" Head Height		"L" Length		Weight		Standard Output	
	RPM	Nm	lb ft	mm	in	mm	in	mm	in	kg	lb	Retraction	SD
E45MA26F1-150	330	45 - 150	33 - 110	34	1.34	166	6.5	525	20.7	5.7	12.5	25mm (1")	3/4"
E45MA26F1-201	265	60 - 201	49 - 148	34	1.34	166	6.5	525	20.7	5.7	12.5		
E55MA26F1-100	880	33 - 100	22 - 74	34	1.34	166	6.5	576	22.7	6.3	13.8		
E55MA26F1-167	510	50 - 167	37 - 123	34	1.34	166	6.5	576	22.7	6.3	13.8		
E55MA26F1-221	385	67 - 221	49 - 163	34	1.34	166	6.5	576	22.7	6.3	13.8		
E45MA26F2-150	330	45 - 150	33 - 110	34	1.34	225	8.9	525	20.7	5.8	12.8	50mm (2")	3/4"
E45MA26F2-201	265	60 - 201	49 - 148	34	1.34	225	8.9	525	20.7	5.8	12.8		
E55MA26F2-100	880	33 - 100	22 - 74	34	1.34	225	8.9	576	22.7	6.4	14.1		
E55MA26F2-167	510	50 - 167	37 - 123	34	1.34	225	8.9	576	22.7	6.4	14.1		
E55MA26F2-221	385	67 - 221	49 - 163	34	1.34	225	8.9	576	22.7	6.4	14.1		

### MA26F1 Output Options

20D100402	5/8" SD	20R201417	25mm Heavy Duty Retraction Spring
20D105701	5/8" SD X 2 1/2 Ext	20D100403	1/2" SD (100 Nm max)

### MA26F2 Output Options

20D100405	5/8" SD	20R201416	50mm Heavy Duty Retraction Spring
20D100406	1/2" SD (100 Nm max)		



MODEL	Rated Speed	Torque Range		"R" Side to Center		"H" Head Height		"L" Length		Weight		Standard Output	
	RPM	Nm	lb ft	mm	in	mm	in	mm	in	kg	lb	Retraction	SD
E55MA32F1-337	255	101 - 337	75 - 248	34	1.34	178	7	582	22.9	7.6	16.8	25mm (1")	3/4"
E55MA32F1-401	205	120 - 401	89 - 295	34	1.34	178	7	582	22.9	7.6	16.8		
E55MA32F2-337	255	101 - 337	75 - 248	34	1.34	268	10.6	582	22.9	7.752	17.136	50mm (2")	3/4"
E55MA32F2-401	205	120 - 401	89 - 295	34	1.34	268	10.6	582	22.9	7.752	17.136		

### MA32F1 Output Options

M4740	3/4" SD X 4" Ext Retractable	M4600	5/8" SD Retractable
20D114800	3/4" SD X 2 1/2 Ext Retractable	M4610	5/8" SD X 4" Ext Retractable

**Cable Selection**  
 Select a tool whip for the tool model.  
 Select an extension for the selected whip number.  
 Note: All High Flex cables have an 8 cm (3 in) minimum bend radius at the tool end.

## Cables for E Tools

Fits  
 E12  
 Lever Tools

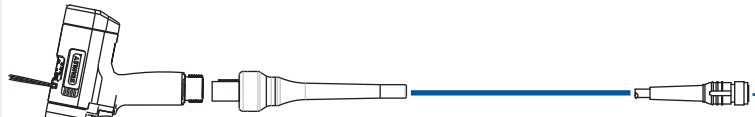


20C1046[##] High Flex E1 Lever Whip,  
 [##] = 01, 03, 05, 07 or 10 meters

Fits E23-34  
 Lever Tools

E02-34 Pistols  
 (Bottom Exit)

Lightweight  
 E3 Whip

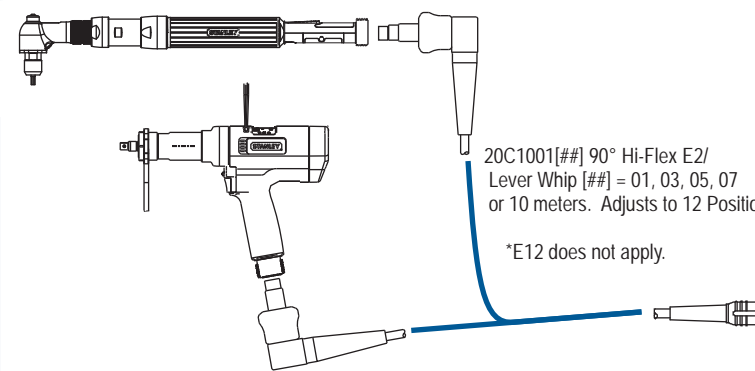


20C1034[##] Hi-Flex Whip, E02/34 Pistol or  
 E23/34 Lever, [##] = 01, 03, 05, 07 or 10 meters

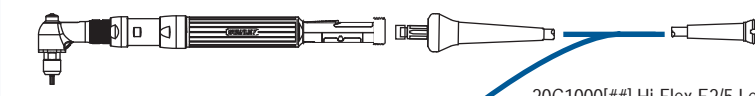
Fits  
 E23-55, \*E12  
 Lever Tools

E02-34 Pistols  
 (Bottom Exit)

Standard  
 E5 Whip



20C1001[##] 90° Hi-Flex E2/  
 Lever Whip [##] = 01, 03, 05, 07  
 or 10 meters. Adjusts to 12 Positions @ 30°  
 \*E12 does not apply.

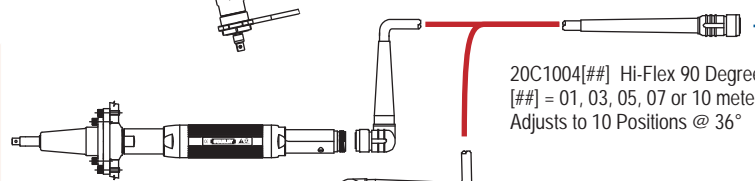


20C1000[##] Hi-Flex E2/5 Lever Whip,  
 [##] = 01, 03, 05, 07 or 10 meters  
 \*E12 applications require  
 a 20H103100 Adaptor.

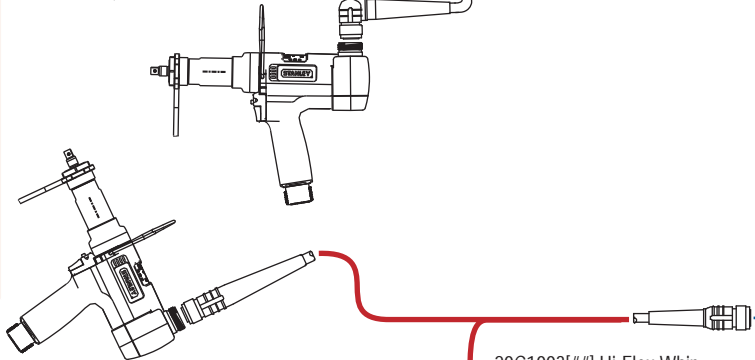
Fits  
 E02-34 Pistol  
 (Top Exit)

E23-55  
 Moving  
 Fixtured Motors

Standard  
 E5 Whip



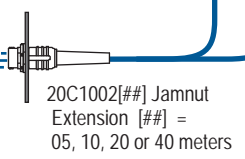
20C1004[##] Hi-Flex 90 Degree Whip  
 [##] = 01, 03, 05, 07 or 10 meters @ Tool  
 Adjusts to 10 Positions @ 36°



20C1003[##] Hi-Flex Whip  
 [##] = 01, 03, 05, 07 or 10 meters

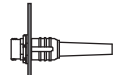


20C1011[##] 90 Degree  
 Jamnut Extension  
 [##] = 05, 10, 20  
 or 40 meters



20C1002[##] Jamnut  
 Extension [##] =  
 05, 10, 20 or 40 meters

**NOTE:**  
 Jamnut cables  
 have connectors  
 that can be fixed to bulkheads.



## Single Spindle Alpha Controller for E Tools

Operates any QPM tool from 0.5 to 2000 Nm either stand-alone or as part of a networked system. Alpha Controllers can be set-up from the front panel, a laptop, or any remote computer on the network. Menu-driven user interface with Wizard Programming.

High Low Torque,  
High Low Angle,  
Cycle Accept Lights

Menu driven user  
interface with Wizard  
Programming via 2 line X  
16 wide display

Plinth  
- Quick-change  
mounting by hand  
- Cable management  
and routing

### Controls Assembly Process and Data

- 32 Parameter Sets
- Stores 10,000 Torque/Angle Cycles, Date/time Stamp, Vin # or Part ID
- Traces of Last 5 OK Rundowns, Last 5 No-Go Rundowns
- Statistics:  $C_{pr}$ ,  $C_{PKr}$ ,  $P_{pr}$ ,  $P_{PKr}$ ,  $C_{AMr}$ , Mean, Deviation, Etc.

### Specify an Alpha Controller

Step 1. Select controller model and connectivity (see options on next page).

Alpha Model Number	Ethernet	Device Net	Profibus	24 VDC I/O	Serial
Q1001EXX	+				+
Q1001EDX	+	+			+
Q1001EPX	+		+		+
Q1001EDV	+	+		+	+
Q1001EPV	+		+	+	+
Q1001EXV	+			+	+
Q1001XDX		+			+
Q1001XPX			+		+
Q1001XDV		+		+	+
Q1001XPV			+	+	+
Q1001XXV				+	+



All Alpha Controllers include plinths, power cords and Configuration Editor software.

Models equipped with Device Net also include 0.2 m Device Net cable/tee.

Step 2. Select a power cord by supply voltage, country and tool size (if noted, otherwise all tool models apply).

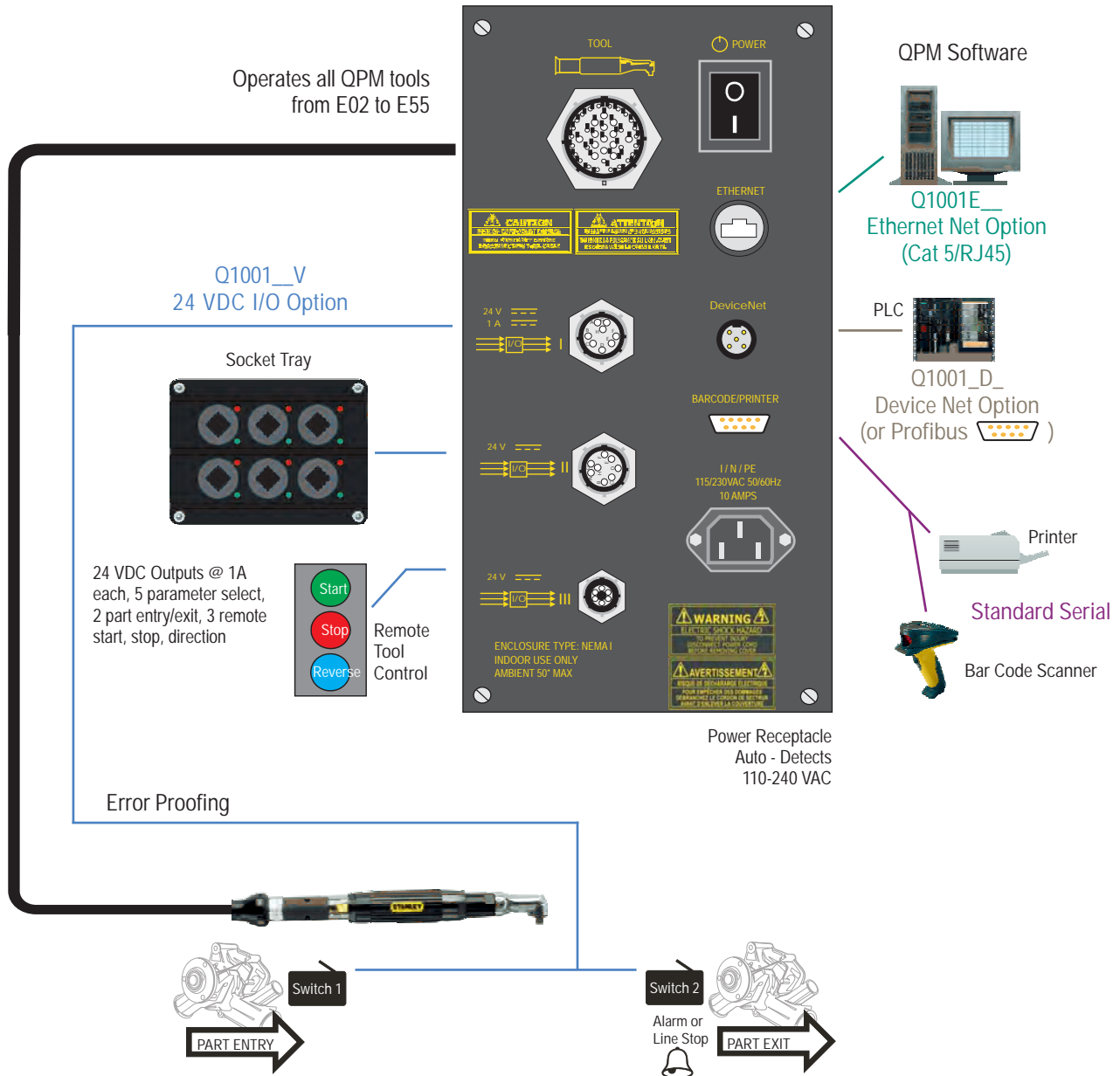
Power Cord Part No.	Connectivity	Description
20C203302	Alpha/Gamma Controllers to Mains	US Power Cord E02 to E34 115V, 2m
20C203303		US Power Cord E44 to E55 115V, 2m
20C203304		US Power Cord 230V, 2m (6-20R)
20C203305		Euro Power Cord 230V, 2m
20C203306		UK Power Cord 230V, 2m
20C203307		Twist Lock Power Cord 115V, 2m
20C203308		Twist Lock Power Cord 115V, 4m

Specifications
15w x 36h x 26d cm
6w x 14h x 10d in
Wt. 7 kg (16 lb)
Power Supply: 1A Internal Ready for External PS
Power Source: Auto Detect 100 – 240 VAC, 50 – 60 Hz
Humidity: 0 to 95 % non-cond.
Temperature: 32-122 °F (0-50 °C)

Step 3. Select a Floor Stand.

Floor Stand Part No.	Description	QPM Spindles	Dimensions
21F100404	Floor Stand Kit	1 to 5	198h 61w 56d cm
Add /F to Model No.	Assembled System with Floor Stand		78 x 24 x 22 in

## Alpha Connectivity Options Fit Your Plant Interface Requirements

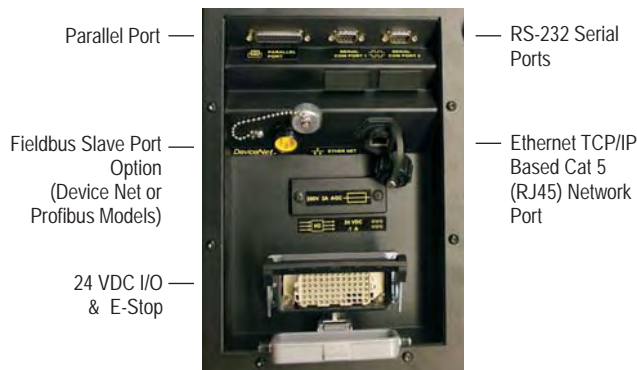


## One or Two Spindle Gamma Controller for E Tools

The Gamma controller offers the fusion of the PLC, the PC, and the torque controller in a single, scalable, flexible, highly cost-effective package for one or two spindle workstations. As a DeviceNet Master with Ladder Logic Engine, it can manage an entire workstation, operate single QPM tool and manages communications for printers, bar code, fieldbus, 24 VDC I/O, and network interface.

### Controls Assembly Process and Data

- 32 Parameter Sets
- Stores 10,000 Torque/Angle Cycles, Date/time Stamp, Vin # or Part ID
- Traces of Last 5 OK Rundowns, Last 5 No-Go Rundowns
- Statistics:  $C_{P_i}$ ,  $C_{PK_i}$ ,  $P_{P_i}$ ,  $P_{PK_i}$ ,  $C_{AM_i}$  Mean, Deviation, Etc.



### Specify a Gamma Controller

Step 1. Select controller model and connectivity.

Gamma Model Number	QPM Spindles	Device Net	Profibus	Add'l Alpha Controller
Q4001N	1			
Q4002N	2			1
Q4001	1	+		
Q4002	2	+		1
Q4001P	1		+	
Q4002P	2		+	1

Step 2. Select a power cord by supply voltage, country and tool size (if noted, otherwise all tool models apply).

Power Cord Part Number	Connectivity	Description
20C203302	Alpha/Gamma Controllers to Mains	US Power Cord E02 to E34 115V, 2m
20C102002		US Power Cord E44 to E55 115V, 2m
21C103902		US Power Cord 230V, 2m (6-20R)
20C102102		Euro Power Cord 230V, 2m
20C102202		UK Power Cord 230V, 2m
20C103802		Twist Lock Power Cord 115V, 2m
20C103804		Twist Lock Power Cord 115V, 4m

Step 3. Select Epsilon (see page 52, lower right).

Step 4. Select a Floor Stand.

Floor Stand Part No.	Description	QPM Spindles	Dimensions
21F100404	Floor Stand Kit	1 to 5	198h 61w 56d cm 78 x 24 x 22 in
Add /F to Model No.	Assembled System with Floor Stand		

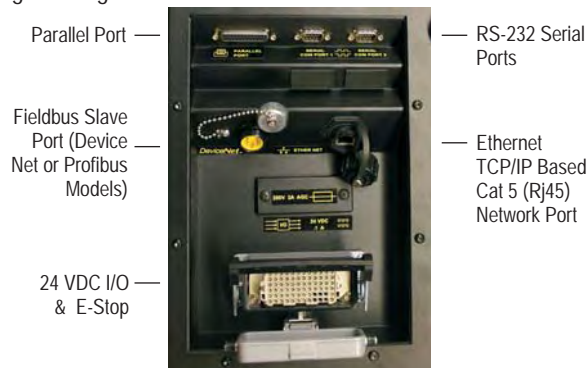
All Gamma Controllers include plinths, power cords and Configuration Editor software.

Specifications
23w x 36h x 26d cm
9w x 14h x 10d in
Wt. 11 kg (24 lb)
Power Source: Auto Detect 100 – 240 VAC, 50 – 60 Hz
Humidity: 0 to 95 % non-cond.
Temperature: 32-122 °F (0-50 °C)
24 VDC Outputs @ 1A each
16 Inputs/Outputs
Power Supply: 1A Internal Ready for External PS



## Multiple Spindle Sigma Interface Systems (115/230V)

The Sigma interface manages as many as 12 Alpha controllers and communications for printers, bar codes, fieldbus, 24VDC I/Os and network interfaces. Integral PLC capability uses one of multiple Fieldbus technologies. As a DeviceNet Master with Ladder Logic Engine, it can manage an entire workstation. Optional Tool Logic Control in Fastening Toolbox Deluxe Software simplifies ladder logic programming.



### Specify a Sigma Interface System

Step 1. Select Sigma System model and connectivity.

Device Net Models

Profibus Models

Sigma Model No.	OPM Spindles	Sigma Model No.	OPM Spindles
Q3001	1	Q3001P	1
Q3002	2	Q3002P	2
Q3003	3	Q3003P	3
Q3004	4	Q3004P	4
Q3005	5	Q3005P	5
Q3006	6	Q3006P	6
Q3007	7	Q3007P	7
Q3008	8	Q3008P	8
Q3009	9	Q3009P	9
Q3010	10	Q3010P	10
Q3011	11	Q3011P	11
Q3012	12	Q3012P	12

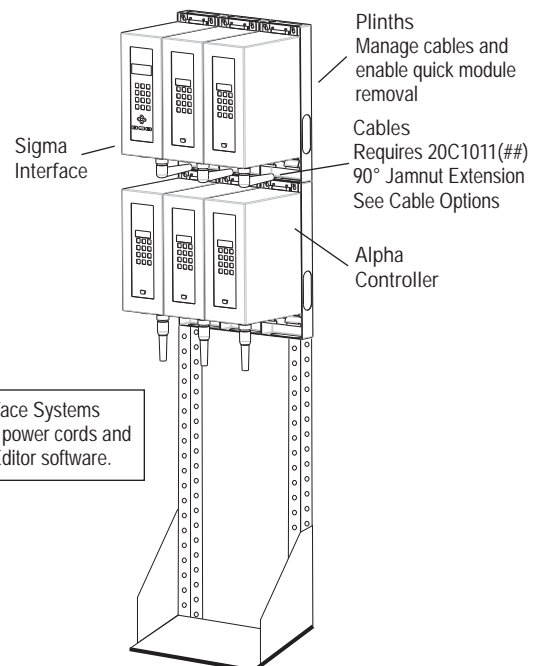
Step 3. Select Epsilon (see next page, lower right).

Step 4. Select a Floor Stand.

Floor Stand Part No.	Description	OPM Spindles	Dimensions
21F100404	Floor Stand Kit	1 to 5	198h 51w 56d cm
Add /F to Model No.	Assembled System with Floor Stand		78 x 20 x 22 in
21F100402	Floor Stand Kit	6 to 12	198h 117w 56d cm
Add /F to Model No.	Assembled System with Floor Stand		78 x 46 x 22 in

Step 2. Select a power cord by supply voltage, country and tool size (if noted, otherwise all tool models apply).

Power Cord Part No.	Connectivity	Description
20C203302	Alpha/Gamma Controllers to Mains	US Power Cord E02 to E34 115V, 2m
20C102002		US Power Cord E44 to E55 115V, 2m
21C103902		US Power Cord 230V, 2m (6-20R)
20C102102		Euro Power Cord 230V, 2m
20C102202		UK Power Cord 230V, 2m
20C103802		Twist Lock Power Cord 115V, 2m
20C103804		Twist Lock Power Cord 115V, 4m
20C200201		Alpha to Power Module or Sigma 230V (2 max)
20C200202	Power Cord 230V, 2m	
20C203401	Alpha to Sigma 115V (2 max)	Power Cord 115V, 1m
20C203402		Power Cord 115V, 2m
20C203502		US Power Cord 115V, 2m
21R202002		US Power Cord 230V, 2m
20C203602	Sigma to Mains	Euro Power Cord 230V, 2m
20C203702		UK Power Cord 230V, 2m
20C103902		Twist Lock Power Cord 115V, 2m



All Sigma Interface Systems include plinths, power cords and Configuration Editor software.



## Multiple Spindle Sigma Interface Systems (480/575V)

Step 1. Select a Sigma system model for the number of spindles, supply voltage, field bus type and optional inputs/outputs.

### 480V DeviceNet Models

Sigma Model No.	QPM Spindles	Power Module
Q3401	1	Q0402
Q3402	2	Q0402
Q3403	3	Q0406
Q3404	4	Q0406
Q3405	5	Q0406
Q3406	6	Q0406
Q3407	7	Q0412
Q3408	8	Q0412
Q3409	9	Q0412
Q3410	10	Q0412
Q3411	11	Q0412
Q3412	12	Q0412

### 480V DeviceNet Models with Expanded I/O

Sigma Model No.	QPM Spindles	Power Module
Q3403/V	3	Q0406/V
Q3404/V	4	Q0406/V
Q3405/V	5	Q0406/V
Q3406/V	6	Q0406/V
Q3407/V	7	Q0412/V
Q3408/V	8	Q0412/V
Q3409/V	9	Q0412/V
Q3410/V	10	Q0412/V
Q3411/V	11	Q0412/V
Q3412/V	12	Q0412/V

### 575V DeviceNet Models

Sigma Model No.	QPM Spindles	Power Module
Q3501	1	Q0502
Q3502	2	Q0502
Q3503	3	Q0506
Q3504	4	Q0506
Q3505	5	Q0506
Q3506	6	Q0506
Q3507	7	Q0512
Q3508	8	Q0512
Q3509	9	Q0512
Q3510	10	Q0512
Q3511	11	Q0512
Q3512	12	Q0512

### 575V DeviceNet Models with Expanded I/O

Sigma Model No.	QPM Spindles	Power Module
Q3503/V	3	Q0506/V
Q3504/V	4	Q0506/V
Q3505/V	5	Q0506/V
Q3506/V	6	Q0506/V
Q3507/V	7	Q0512/V
Q3508/V	8	Q0512/V
Q3509/V	9	Q0512/V
Q3510/V	10	Q0512/V
Q3511/V	11	Q0512/V
Q3512/V	12	Q0512/V

Step 2. Select Epsilon (see lower right).

All Sigma Interface Systems include plinths, power cords and Configuration Editor software.

Step 3. Select a Floor Stand.

Floor Stand Part No.	Description	QPM Spindles	Dimensions
21F100403	Floor Stand Kit	1 to 6	198h 117w 56d cm 78 x 46 x 22 in
Add /F to Model No.	Assembled System with Floor Stand		
21F100401	Floor Stand Kit	7 to 12	198h 117w 88d cm 78 x 46 x 34.5 in
Add /F to Model No.	Assembled System with Floor Stand		

Sigma Model No.	Field Bus
Q3000	DeviceNet
Q3000P	Profibus

Specifications
15w x 36h x 26d cm
6w x 14h x 10d in
Wt. 8.5 kg (18.5 lb)
Device Net or Profibus
24 VDC Outputs @1A each
16 Inputs/Outputs
Power Supply: 4A
Ready for External PS
Integral E-stop: 1 or 2 Spindles
Alarm Monitor
Power Source: Auto Detect
100 – 240 VAC, 50 – 60 Hz
Humidity: 0 to 95 % non-cond.
Temperature: 32-122 °F (0-50 °C)

### Three Phase 480/575V Power Modules

Sigma Model No.	VAC	Description
Q0402	480	2 Spindle (3.4kVA) Power Module
Q0502	575	/Internal Transformers
Q0406	480	6 Spindle (12kVA) Power Module
Q0506	575	/External Transformer
Add "V"	24V DeviceNet I/O, 16 Inputs, 32 Outputs for 12 kVA	
Q0412	480	12 Spindle (24kVA) Power Module
Q0512	575	/External Transformers
Add "V"	24V DeviceNet I/O, 16 Inputs, 64 Outputs for 24 kVA	
Dimensions all Models: 76h x 63.5w x 30.5d cm (30 x 25 x 12 in)		

## Epsilon Error Proofing Interface (Q0000)

- Provides visual indications of process status from a Gamma Controller, Sigma Interface or other PLC (red, green and yellow lights).
- Proximity or limit switch inputs can include Part Entry, Part Exit and a warning position (optional inputs: remote stop, start and reverse).
- Operator interface includes a keyed bypass switch, reset pushbutton, auxiliary button and a red-yellow-green light-stack with variable alarm.
- InCycle and Line Stop dry contacts (2) interface to the line PLC. Gamma/Sigma Interface I/O connector options include: Job OK, High Torque, Low Torque, High Angle, Low Angle, Equipment Failure, Reset, Bypass and Call.
- Includes plinth
- Dimensions: 87h x 15w x 26d cm (34 x 6 x 10 in)





## LIMITED WARRANTY

### **Mechanical Products Limited Warranty:**

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The Stanley Works ("Stanley") warrants its Assembly Technologies mechanical products to the original purchaser to be free from deficiencies in material or workmanship for the useful life of the product.

Under this lifetime limited warranty Stanley will, at its discretion, repair or replace any product which, upon inspection, is acknowledged by Stanley to be defective.

This limited lifetime warranty shall apply to products which have been used under normal operating conditions for their intended use and shall not apply to products which have been subjected to: abnormal wear and tear, abuse, misuse, improper maintenance, negligence, continued use after partial failure, accident, alterations or repairs with non-genuine Stanley replacement parts.

### **Electronic Products Limited Warranty:**

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Stanley warrants its Assembly Technologies electronic products to the original purchaser to be free from deficiencies in material or workmanship for a period of one year after the date of shipment.

Under this limited warranty Stanley will, at its discretion, repair or replace any product which, upon inspection, is acknowledged by Stanley to be defective.

This warranty shall apply to products which have been used under normal operating conditions for their intended use and shall not apply to products which have been subjected to: abnormal wear and tear, neglect, component degradation, improper handling, overload, abuse, misuse, improper maintenance, use with improper accessories, or where alterations have been made.

### **Software Products Limited Warranty:**

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Stanley warrants its Assembly Technologies software products to the original purchaser to be free from deficiencies in material or workmanship for a period of one year after the date of shipment.

Under this limited warranty Stanley will, at its discretion, make available replacement software or an upgrade for any product which, upon inspection, is acknowledged by Stanley to be defective. Installation of the software shall be the responsibility of the requestor.

This warranty shall apply to products which have been used with specified, compatible hardware under normal operating conditions for their intended use and shall not apply to products which have been: modified, misused, improperly handled, improperly maintained, or used with non-compatible hardware or accessories.

### **OEM Products Limited Warranty:**

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Some Stanley Assembly Technologies custom engineered systems include components manufactured by others. The limited warranties of each individual manufacturer shall apply to these components and Stanley makes no representation or warranty of any kind, expressed or implied, with respect to such components.

### **General Terms:**

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This limited warranty gives you specific legal rights and is in lieu of all other warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Some states and countries do not allow limitations on implied warranties, so the above may not apply to you. You may also have other rights which vary by state or country.

Stanley shall not be responsible for incidental or consequential damages or the inability to use its products for any purpose whatsoever. Stanley's maximum liability shall not in any case exceed the contract price for the products claimed to be defective. Some states and countries do not allow the exclusion or limitation of incidental or consequential damages, so this specific limitation or exclusion may not apply to you.

### **Specification Changes:**

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Stanley retains the right to discontinue and/or change specifications of any Assembly Technologies products without responsibility for incorporating changes in products already sold.

### **Warranty Claims:**

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To apply for warranty consideration, the original purchaser should take the following action:

- a) Contact the Stanley Assembly Technologies customer service department to obtain a "Return Authorization Number" and "Warranty Claim Report Form."
- b) Package the product including proof of purchase and the completed warranty claim form.
- c) Note the Return Authorization Number on the exterior of the package and return freight to:

*Stanley Assembly Technologies  
Applications & Productivity Center  
5335 Avion Park Drive  
Cleveland, Ohio 44143-2326*

In the event that a product is repaired or replaced under the terms of the warranty, the warranty period of the repaired or replacement product shall be limited to the remaining portion of the original warranty period.



## Assembly Technologies GLOBAL LOCATIONS

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#### STANLEY ASSEMBLY TECHNOLOGIES

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