



E125, E1200, 1400E, 1500E, 2000, 2300, KE3500, KE4000, KE3500 VARIO, 25A, KS, KSB

[illegible][illegible]

2/8" - 050" Gauge

[illegible]

9.168 - BEAR CAMP

40	16"	3/8"	1.3	.050"	60	16A0-LS-EX	16A0-RN-EX	A3332
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ELETTRA 160/170 ENERGY 1.6 ENERGY 1.8 SINERGY 35 SINERGY 40 P360 P370 P390 P382 P350 270 280 P33/81 P0 P361 P370 P391 P380

3/8" LP - .043" Gauge

[illegible]

30	12"	3/8" LP	1.3	.050"	44	12D0-CL-SW					A266-0	A3110-0
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(continued)

3/8" ID - 050" Gauge

[illegible]



CM	IN	CHAIN	MM	IN	DL	ARCHER BARS					TSUMURA BARS				ARCHER COMBOS					
						Hobby	Consumer	Semi Pro	Professional	Pro Hard Nose	Lightweight	Semi Pro	Rotary Tip	Hard Nose	BAR & CHAIN			BAR & 2 CHAIN		
						HL	CL	LS/TL	RN	HS	FK4	TC/LS	PS	PH	Semi Chisel		Full	Semi Chisel		Full
															LS/TL	RN	RN	LS/TL	RN	RN

Alpina *continued*

A40, A40E, A350, A400, C40, C41, CP40, CP41, CP45, CP55, CP56, CP66, CP65, CP540, CP600, P41, P45, P382, P400, P402, P411, P422, P442, P450, P460, P470, P480, P500, P510, P482, P522, PRO-540, P700, PRO-600, PROF41, PROF45, PROF66

.325" - .050" Gauge

35	15"	.325"	1.3	.050"	64			15B0-LS-UH								A3342				
40	16"	.325"	1.3	.050"	66			16B0-LS-UH	16B0-RN-UH							A3307				
45	18"	.325"	1.3	.050"	72			18B0-LS-UH	18B0-RN-UH							A3344				
50	20"	.325"	1.3	.050"	78			20B0-LS-UH								A3304				

500, 540, 540i, 550, A40, A40E, A4500, C40, C46, C50, CP40, CP41, CP45, CP66, CP65, CP55, CP56, CP540, CP600, P41, P45, P400, P402, P411, P422, P442, P450, P482, P500, P460, P510, P400, P450, P460, P500, P510, P522, P650, P680, P700, PRO55, PRO56, PRO65, PRO66, PRO-540, PRO-600, PROF41, PROF45

.325" - .050" Gauge

33	13"	.325"	1.3	.050"	56											A390-0				
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.325" - .058" Gauge

33	13"	.325"	1.5	.058"	56			13B8-LS-UH								A390-8				
38	15"	.325"	1.5	.058"	64			15B8-LS-UH								A3343			A3108-8	
40	16"	.325"	1.5	.058"	66			16B8-LS-UH	16B8-RN-UH				16-01W-K266-PS			A3308			A3356	
45	18"	.325"	1.5	.058"	72			18B8-LS-UH	18B8-RN-UH				18-01W-K272-PS			A3345			A3309	
50	20"	.325"	1.5	.058"	78			20B8-LS-UH	20B8-RN-UH				20-01W-K278-PS			A3346				

3/8" - .050" Gauge

50	20"	3/8"	1.3	.050"	72			20A0-LS-UH												
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3/8" - .058" Gauge

40	16"	3/8"	1.5	.058"	60			16A8-LS-UH	16A8-RN-UH							A3329	A3316			
45	18"	3/8"	1.5	.058"	68			18A8-LS-UH	18A8-RN-UH							A3318	A3347			
50	20"	3/8"	1.5	.058"	72			20A8-LS-UH	20A8-RN-UH				20-01W-A272-PS			A3319	A3320			

A70, C70, CP70, CP90, CP120, P660, P650, P700, P750, P760, P800, PRO78, PROF-55, PROF-56, PROF-66, PROF90, PROF-700, PROF-800

3/8" - .058" Gauge

40	16"	3/8"	1.5	.058"	60			16A8-LS-HV	16A8-RN-HV				16-17-A260-PS			A3326	A3338			
45	18"	3/8"	1.5	.058"	68			18A8-LS-HV	18A8-RN-HV	18X8-HS-HV			18-17-A268-PS			A3322	A3302		A3337	A3311
50	20"	3/8"	1.5	.058"	72			20A8-LS-HV	20A8-RN-HV	20X8-HS-HV	407FK4	20D009A2TC	20-17-A272-PS	20-17-063-FH		A3323	A3303		A3336	A3312
55	22"	3/8"	1.5	.058"	76			22A8-RN-HV												

Blitz

B34, B300, B304, B400, B404, B4, B38, B35D, B35DX, B35, E140F

3/8" LP - .050" Gauge

30	12"	3/8" LP	1.3	.050"	44			12D0-CL-SW								A266-0			A3110-0	
35	14"	3/8" LP	1.3	.050"	50			14D0-CL-SW								A268-0			A3111-0	
40	16"	3/8" LP	1.3	.050"	55			16D0-CL-SW								A270-0				



CM	IN	CHAIN	MM	IN	DL	ARCHER BARS					TSUMURA BARS				ARCHER COMBOS					
						Hobby	Consumer	Semi Pro	Professional	Pro Hard Nose	Lightweight	Semi Pro	Rotary Tip	Hard Nose	BAR & CHAIN			BAR & 2 CHAIN		
															Semi Chisel		Full	Semi Chisel		Full
															LS/TL	RN	RN	LS/TL	RN	RN
HL	CL	LS/TL	RN	HS	FK4	TC/LS	PS	PH	LS/TL	RN	RN	LS/TL	RN	RN						

Blitz *continued*

B42, B45A, B54A, B46, B51, B38, B41, B54

.325" - .050" Gauge

33	13"	.325"	1.3	.050"	56										A390-0					
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.325" - .058" Gauge

33	13"	.325"	1.5	.058"	56			13B8-LS-UH							A390-8					
38	15"	.325"	1.5	.058"	64			15B8-LS-UH							A3343				A3108-8	
40	16"	.325"	1.5	.058"	66			16B8-LS-UH	16B8-RN-UH				16-01W-K266-PS		A3308				A3356	
45	18"	.325"	1.5	.058"	72			18B8-LS-UH	18B8-RN-UH				18-01W-K272-PS		A3345				A3309	
50	20"	.325"	1.5	.058"	78			20B8-LS-UH	20B8-RN-UH				20-01W-K278-PS		A3346					

Bosch

AKE30/17S, AKE35/17S, AKE40/17S, AKE49/17S

3/8" LP - .043" Gauge

20	8"	3/8" LP	1.1	.043"		8D4-HL-PO														
25	10"	3/8" LP	1.1	.043"	40	10D4-HL-PO	10D4-CL-PO													

1586.7, 1586.8, AKE30B, AKE35, AKE35B, AKE40, AKE40B, GKE35, GKE35BC, GKE40, GKE40BC, PKE25, PKE30, PKE30B, PKE35, PKE35B, PKE40, PKE40B, AKE35-19PRO, Bullcraft, AKE30/17S, AKE35/17S, AKE40/17

3/8" LP - .050" Gauge

20	8"	3/8" LP	1.3	.050"		8D0-HL-PO														
25	10"	3/8" LP	1.3	.050"	40	10D0-HL-PO	10D0-CL-PO													
30	12"	3/8" LP	1.3	.050"	44		12D0-CL-PO								A267-0			A3175-0		
35	14"	3/8" LP	1.3	.050"	52		14D0-CL-PO								A269-0			A3114-0		
40	16"	3/8" LP	1.3	.050"	57		16D0-CL-PO								A271-0			A3117-0		
45	18"	3/8" LP	1.3	.050"	62		18D0-CL-PO								A274-0					

KS450

.325" - .050" Gauge

38	15	.325"	1.3	.050"	64			15B0-LS-UH							A3342					
40	16	.325"	1.3	.050"	66			16B0-LS-UH	16B0-RN-UH						A3307					
45	18	.325"	1.3	.050"	72			18B0-LS-UH	18B0-RN-UH						A3344					
50	20	.325"	1.3	.050"	80			20B0-LS-UH								A3304				



CM	IN	CHAIN	MM	IN	DL	ARCHER BARS					TSUMURA BARS				ARCHER COMBOS					
						Hobby	Consumer	Semi Pro	Professional	Pro Hard Nose	Lightweight	Semi Pro	Rotary Tip	Hard Nose	BAR & CHAIN			BAR & 2 CHAIN		
						HL	CL	LS/TL	RN	HS	FK4	TC/LS	PS	PH	LS/TL	RN	RN	LS/TL	RN	Full

Dolmar

90VP, 95VP, 100, 101, 102, 103, 104, 105, 106, 108, 275, 285, 295, 3000, 3300, AS-172A, CS2040, ES30, ES-31, ES-36, ES-40, ES140, ES151, ES-152A, ES153, ES160, ES161, ES-162A, ES163, ES-172A, ES173, ES183, ES1600, ES2035, ES2040, PS32, PS33, PS34, PS35, PS39, PS41, PS45, PS222, PS-330, PS-340, PS-341, PS342, PS-344, PS350, PS351, PS390, PS-400, PS-401, PS410, PS411, PS420, PS421, PS-3300TH, PS3400, PS3410, PS5105

3/8" LP - .050" Gauge

20	8"	3/8" LP	1.3	.050"		8D0-HL-PO														
25	10"	3/8" LP	1.3	.050"	40	10D0-HL-PO	10D0-CL-PO													
30	12"	3/8" LP	1.3	.050"	44		12D0-CL-PO								A267-0			A3175-0		
35	14"	3/8" LP	1.3	.050"	52		14D0-CL-PO								A269-0			A3114-0		
40	16"	3/8" LP	1.3	.050"	57		16D0-CL-PO								A271-0			A3117-0		
45	18"	3/8" LP	1.3	.050"	62		18D0-CL-PO								A274-0					

.325" - .050" Gauge

40	16"	.325"	1.3	.050"	66			16B0-LS-PO												
45	18"	.325"	1.3	.050"	72			18B0-LS-PO								A3314				
50	20"	.325"	1.3	.050"	78											A3315				

105, 108, 109, 110i, 111, 112, 113, 114, 115, 115i, 116, 117, 119, 120, 120si, 122, 123, 133, 143, 144, 152, 166, 168, 219, 1231, ES-1800, PS35, PS-43, PS45, PS-52, PS350, PS-410, PS-411, PS420, PS460, PS500, PS510, PS540, PS4600, PS4605, PS5000, PS5100, PS5105, PS6000iH, PS6100, PS6800iH, PS6800iH

.325" - .050" Gauge

38	15"	.325"	1.3	.050"	64			15B0-LS-UH								A3342				
40	16"	.325"	1.3	.050"	66			16B0-LS-UH	16B0-RN-UH							A3307				
45	18"	.325"	1.3	.050"	72			18B0-LS-UH	18B0-RN-UH							A3344				
50	20"	.325"	1.3	.050"	78			20B0-LS-UH									A3304			

.325" - .050" Gauge

33	13"	.325"	1.3	.050"	56										A390-0					
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.325" - .058" Gauge

33	13"	.325"	1.5	.058"	56			13B8-LS-UH							A390-8					
38	15"	.325"	1.5	.058"	64			15B8-LS-UH								A3343			A3108-8	
40	16"	.325"	1.5	.058"	66			16B8-LS-UH	16B8-RN-UH				16-01W-K266-PS			A3308			A3356	
45	18"	.325"	1.5	.058"	72			18B8-LS-UH	18B8-RN-UH				18-01W-K272-PS			A3345			A3309	
50	20"	.325"	1.5	.058"	78			20B8-LS-UH	20B8-RN-UH				20-01W-K278-PS			A3346				

3/8" - .050" Gauge

50	20"	3/8"	1.3	.050"	72			20A0-LS-UH												
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3/8" - .058" Gauge

43	16"	3/8"	1.5	.058"	60			16A8-LS-UH	16A8-RN-UH							A3329	A3316			
45	18"	3/8"	1.5	.058"	68			18A8-LS-UH	18A8-RN-UH							A3318	A3347			
50	20"	3/8"	1.5	.058"	72			20A8-LS-UH	20A8-RN-UH				20-01W-A272-PS			A3319	A3320			



PS5000, PS5105, PS-6400, PS7200, PS-7300, PS-7310, PS-7900, PS7910, PS9000, PS9010

[illegible]

341, 346, CS260, CS280, CS280G, CS280EVL, CS302, CS304VL, CS320, CS351IVL, CS2700, 3000, 3400, 3450

[illegible]

3/8" LP - .050" Gauge

[illegible][illegible]

.325" - .050" Gauge

39	14"	.325"	1.3	.050"	66			1680-LS-P0									
40	16"	.325"	1.3	.050"	66			1680-LS-P0									
45	18"	.325"	1.3	.050"	72			1880-LS-P0					A3314				
50	20"	.325"	1.3	.050"	78								A3315				

[illegible]



CM	IN	CHAIN	MM	IN	DL	ARCHER BARS					TSUMURA BARS				ARCHER COMBOS					
						Hobby	Consumer	Semi Pro	Professional	Pro Hard Nose	Lightweight	Semi Pro	Rotary Tip	Hard Nose	BAR & CHAIN			BAR & 2 CHAIN		
						HL	CL	LS/TL	RN	HS	FK4	TC/LS	PS	PH	Semi Chisel		Full	Semi Chisel		Full
															LS/TL	RN	RN	LS/TL	RN	RN

Echo continued

CS60S, CS451VL, CS452VL, CS500EVL, CS500VL, CS510EVL, CS550EVL, CS5501, CS-600EVL, CS602VL, CS-610EVL, CS-650EVL, CS-660EVL, CS-702VL, CS750EVL, CS-750VL, CS5000, CS-5500, CS5501, CS-480, CS-501, CS-600, CS-601, CS-670, CS-701, CS-706, CST-610, CS680, CS6700, CS6701, CS6702, CS8000, CS8001

3/8" - .050" Gauge

40	16"	3/8"	1.3	.050"	60			16A0-LS-EX	16A0-RN-EX							A3332				
45	18"	3/8"	1.3	.050"	68			18A0-LS-EX	18A0-RN-EX				18-41-A164-PS			A3333				
50	20"	3/8"	1.3	.050"	72			20A0-LS-EX	20A0-RN-EX				20-41-A172-PS			A3325				
60	24"	3/8"	1.3	.050"	81				24A0-RN-EX											

Efco

125, 131, 132, 137, 141S, MT350, MT440, MT3500, MT3600, MT3700, MT3750, MT4000, MT4100

3/8" LP - .050" Gauge

20	8"	3/8" LP	1.3	.050"		8D0-HL-PO														
25	10"	3/8" LP	1.3	.050"	40	10D0-HL-PO	10D0-CL-PO													
30	12"	3/8" LP	1.3	.050"	45		12D0-CL-PO									A267-0			A3175-0	
35	14"	3/8" LP	1.3	.050"	52		14D0-CL-PO									A269-0			A3114-0	
40	16"	3/8" LP	1.3	.050"	56		16D0-CL-PO									A271-0			A3117-0	
45	18"	3/8" LP	1.3	.050"	62		18D0-CL-PO									A274-0				

138, 141, 142, 146, 147, 151, 152, 156, 162, 165, MT5200

.325" - .050" Gauge

38	15"	.325"	1.3	.050"	64			15B0-LS-UH								A3342				
40	16"	.325"	1.3	.050"	66			16B0-LS-UH	16B0-RN-UH							A3307				
45	18"	.325"	1.3	.050"	72			18B0-LS-UH	18B0-RN-UH							A3344				
50	20"	.325"	1.3	.050"	78			20B0-LS-UH												

.325" - .050" Gauge

33	13"	.325"	1.3	.050"	56											A390-0				
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.325" - .058" Gauge

33	13"	.325"	1.5	.058"	56			13B8-LS-UH								A390-8				
38	15"	.325"	1.5	.058"	64			15B8-LS-UH								A3343			A3108-8	
40	16"	.325"	1.5	.058"	66			16B8-LS-UH	16B8-RN-UH				16-01W-K266-PS			A3308			A3356	
45	18"	.325"	1.5	.058"	72			18B8-LS-UH	18B8-RN-UH				18-01W-K272-PS			A3345			A3309	
50	20"	.325"	1.5	.058"	78			20B8-LS-UH	20B8-RN-UH				20-01W-K278-PS			A3346				

3/8" - .058" Gauge

40	16"	3/8"	1.5	.058"	60			16A8-LS-UH								A3163-8		A3128-8		
45	18"	3/8"	1.5	.058"	68			18A8-LS-UH	18A8-RN-UH							A3318	A3347			
50	20"	3/8"	1.5	.058"	72			20A8-LS-UH	20A8-RN-UH							A3319	A3320			

181, MT6500, MT7200, MT8200

3/8" - .058" Gauge

40	16"	3/8"	1.5	.058"	60			16A8-LS-HV	16A8-RN-HV							A3326	A3338			
45	18"	3/8"	1.5	.058"	68			18A8-LS-HV	18A8-RN-HV							A3322	A3302		A3337	A3311
50	20"	3/8"	1.5	.058"	72			20A8-LS-HV	20A8-RN-HV							A3323	A3303		A3336	A3312



140S, 134, 135, 114E, 116, 117E, 136

3/8" 1P - .050" Gauge

0/0 of 1000 Gauge

199

.404" - .063" Gauge

Einhell

3/8" LP - .050" Gauge

[illegible]

PES30/2, PES34/2, PES34/3, PES35, PES35/2TS, PES35/3, PES35/3TS, PES40/3, PROFI, PKS35/1AV, PKS40/1AV, 45/1AV, KES1640, PES1540, KSE1435/1635/1640/2000, PKS1635/1840

3/8" I.P. - .050" Gauge

[illegible]

PKS45/1AV, PKS50/1AV, RBK5045

325" - 050" Gauge

.325" - .058" Gauge

[illegible]Frontier

3/8" IP - .050" Gauge

[illegible][illegible]

CM	IN	CHAIN	MM	IN	DL	ARCHER BARS					TSUMURA BARS				ARCHER COMBOS					
						Hobby	Consumer	Semi Pro	Professional	Pro Hard Nose	Lightweight	Semi Pro	Rotary Tip	Hard Nose	BAR & CHAIN			BAR & 2 CHAIN		
						HL	CL	LS/TL	RN	HS	FK4	TC/LS	PS	PH	Semi Chisel		Full	Semi Chisel		Full
															LS/TL	RN	RN	LS/TL	RN	RN

Hitachi

CS280, CS350, CS280B, CS350B, CS350A, CS35B

3/8" LP - .050" Gauge

20	8"	3/8" LP	1.3	.050"		8D0-HL-PO														
25	10"	3/8" LP	1.3	.050"	40	10D0-HL-PO	10D0-CL-PO													
30	12"	3/8" LP	1.3	.050"	44		12D0-CL-PO								A267-0			A3175-0		
35	14"	3/8" LP	1.3	.050"	52		14D0-CL-PO								A269-0			A3114-0		
40	16"	3/8" LP	1.3	.050"	57		16D0-CL-PO								A271-0			A3117-0		
45	18"	3/8" LP	1.3	.050"	62		18D0-CL-PO								A274-0					

Homelite

192, 200, 240SL, 245SL, SUPER 2, (SL, CC, XL, VI), XEL, EL, XL SERIES, SUPER Z, 35SL, ELECTRIC, XL-10, BANDIT LX30, EL14, SABRE 31, 33, 205, 3350B, 180 SERIES, 190, 240, 245 (before # XE339), ELECTRIC 200, LITTLE RED, LX-30, VI SUPER, XEL ELECTRIC

3/8" LP - .050" Gauge

30	12"	3/8" LP	1.3	.050"	48		12D0-CL-HX													
35	14"	3/8" LP	1.3	.050"	53		14D0-CL-HX													
40	16"	3/8" LP	1.3	.050"	57		16D0-CL-HX													

20, 20AV, 23AV, 27, 3300, 3350, 3800, D3300, 3850, 4500, 4550, PS33, RANGER, 3550, 3335, CS40, TIMBERMAN, UT10901, Z3850, PS33, Bandit 33/38 series 3314, 3316, ZR10540/60/80, UT10640, UT10680, 13350, UT43120, UT43122, UT10510/4/6/7, UT10530/40/44/89, UT43100/2/3

3/8" LP - .050" Gauge

20	8"	3/8" LP	1.3	.050"		8D0-HL-PO														
25	10"	3/8" LP	1.3	.050"	40	10D0-HL-PO	10D0-CL-PO													
30	12"	3/8" LP	1.3	.050"	45		12D0-CL-PO								A267-0			A3175-0		
35	14"	3/8" LP	1.3	.050"	52		14D0-CL-PO								A269-0			A3114-0		
40	16"	3/8" LP	1.3	.050"	56		16D0-CL-PO								A271-0			A3117-0		
45	18"	3/8" LP	1.3	.050"	62		18D0-CL-PO								A274-0					

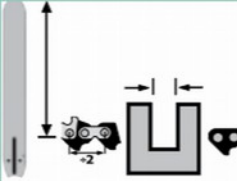
.325" - .050" Gauge

45	18"	.325"	1.3	.050"	72			18B0-LS-PO	18B0-RN-PO							A3314				
50	20"	.325"	1.3	.050"	78											A3315				

25, 25AV, 27, 27AV, 4100, 4150, 4500, 4550, D4550b, i4150b, i4550b, SUPER 240, TIMBERMAN, UT10896, UT10910, UT10927A, UT10942A, UT10946A, i3850B, UT10926, UT10518/9/20/26/50/52, ZR10520/22, UT10896

.325" - .050" Gauge

35	14"	.325"	1.3	.050"	60			14B0-LS-PO												
40	16"	.325"	1.3	.050"	66			16B0-LS-PO												
45	18"	.325"	1.3	.050"	72			18B0-LS-PO	18B0-RN-PO							A3314				
50	20"	.325"	1.3	.050"	78											A3315				

																				
CM	IN	CHAIN	MM	IN	DL	ARCHER BARS					TSUMURA BARS				ARCHER COMBOS					
						Hobby	Consumer	Semi Pro	Professional	Pro Hard Nose	Lightweight	Semi Pro	Rotary Tip	Hard Nose	BAR & CHAIN			BAR & 2 CHAIN		
						HL	CL	LS/TL	RN	HS	FK4	TC/LS	PS	PH	Semi Chisel		Full	Semi Chisel		Full
						LS/TL	RN	RN	LS/TL	RN	RN									

Homelite *continued*

30, 130, 150, 250, 252, 290, 290C, 300, 340, 340C, 3850C, 30, 130, 150, EZ, EZ AUTO, MINI, SUPER EZ AUTO, SUPER XL MINI, E2250, CS40, CS50, XL MINI, SUPER EZ, Super XK Mini, VI-123, VI-125, XL-76, XL 100 SERIES, 4156, 4550B, Super 240, 415, 4550, HSC4040, 4545, EZ250, VI SUPER Mini, XL250

.325" - .050" Gauge																				
33	13"	.325"	1.3	.050"	56											A391-0				
38	15"	.325"	1.3	.050"	64			15B0-LS-UH								A3342				
40	16"	.325"	1.3	.050"	66			16B0-LS-UH	16B0-RN-UH							A3307				
45	18"	.325"	1.3	.050"	72			18B0-LS-UH	18B0-RN-UH							A3344				
50	20"	.325"	1.3	.050"	80			20B0-LS-UH									A3304			

.325" - .050" Gauge																				
33	13"	.325"	1.3	.050"	56											A390-0				

.325" - .058" Gauge																				
33	13"	.325"	1.5	.058"	56			13B8-LS-UH								A390-8				
38	15"	.325"	1.5	.058"	64			15B8-LS-UH								A3343			A3108-8	
40	16"	.325"	1.5	.058"	66			16B8-LS-UH	16B8-RN-UH				16-01W-K266-PS			A3308			A3356	
45	18"	.325"	1.5	.058"	72			18B8-LS-UH	18B8-RN-UH				18-01W-K272-PS			A3345			A3309	
50	20"	.325"	1.5	.058"	78			20B8-LS-UH	20B8-RN-UH				20-01W-K278-PS			A3346				

Husqvarna

34, 35, 37, 335, 338XPT

3/8" LP - .050" Gauge																				
40	16"	3/8" LP	1.3	.050"	56		16D0-CL-F													

16E, 23, 33, 36, 41, 120 Mark II, 120E Mark II, 130, 135 Mark II, 136, 136Li, 137, 141, 142, 235, 236, 236E, 240, 243, 250PS, 315, 315E, 316, 316E, 317, 317E, 318, 318E, 321, 321E, 325P4, 333, 334, 414EL, 439, T536Li

3/8" LP - .050" Gauge																				
20	8"	3/8" LP	1.3	.050"	32	8D0-HL-PO														
25	10"	3/8" LP	1.3	.050"	40	10D0-HL-PO	10D0-CL-PO													
30	12"	3/8" LP	1.3	.050"	45		12D0-CL-PO								A267-0			A3175-0		
35	14"	3/8" LP	1.3	.050"	52		14D0-CL-PO								A269-0			A3114-0		
40	16"	3/8" LP	1.3	.050"	57		16D0-CL-PO								A271-0			A3117-0		
45	18"	3/8" LP	1.3	.050"	62		18D0-CL-PO								A274-0					

33, 34, 37, 128LDX, 135, 135E, 136, 137, 141, 142, 236E, 240, 240E, 243, 315E, 316E, 318E, 320E, 321EL, 321E, 323P4, 325P, 325P4X, 326P4X, 327P5, 327PT5s, 333, 334T, 335XPT, 338, 1400, 1600, T425, T435, T540

3/8" LP - .050" Gauge																				
30	12"	3/8" LP	1.3	.050"	45		12D0-CL-UH													
35	14"	3/8" LP	1.3	.050"	52		14D0-CL-UH								A3159-0					
40	16"	3/8" LP	1.3	.050"	56		16D0-CL-UH								A3160-0					

CM	IN	CHAIN	MM	IN	DL	ARCHER BARS					TSUMURA BARS				ARCHER COMBOS					
						Hobby	Consumer	Semi Pro	Professional	Pro Hard Nose	Lightweight	Semi Pro	Rotary Tip	Hard Nose	BAR & CHAIN			BAR & 2 CHAIN		
						HL	CL	LS/TL	RN	HS	FK4	TC/LS	PS	PH	LS/TL	RN	RN	LS/TL	RN	RN

Husqvarna *continued*

162, 61, 181, 2100, 2100XP, 2101XP, 266, 266XP, 268XP, 272, 272XP/G, 281, 281XP, 285, 288XP, 365, 371/XP/G, 394XP, 395, 298X/G, 380, 480, 64, 66, 77, 394XP/G, 372XP/XPG, 385XP, 395XP/XPG, 372XP/XPG, 3120XP, 160, 260, 185, 268, 288, 298, 371, 372, 65, 70, 385, L-SERIES, 1100, 3120, 530, 550 XP, 572XP, 576, 390, 562, 575, 575XP, 570, 562XP, 576XP, 390XP, 556 AutoTune, 565 AutoTune, 570 AutoTune, 576XP AutoTune, 390XP, 395XP

3/8" - .063" Gauge

50	20"	3/8"	1.6	.063"	72				20A3-RN-HV	20X3-HS-HV	428FK4			20-17-A372-PS	20-17-063-PH					
60	24"	3/8"	1.6	.063"	84				24A3-RN-HV		437FK4			24-17-A384-PS	24-17-063-PH					
75	30"	3/8"	1.6	.063"	98				30A3-RN-HV	30X3-HS-HV										
90	36"	3/8"	1.6	.063"	118/120				36A3-RN-HV	36X3-HS-HV				36-17-A3120-PS						

162, 61, 181, 2100, 2100XP, 2101XP, 266, 266XP, 268XP, 272, 272XP/G, 281, 281XP, 285, 288XP, 365, 371/XP/G, 394XP, 395, 298X/G, 380, 480, 64, 66, 77, 394XP/G, 372XP/XPG, 385XP, 395XP/XPG, 372XP/XPG, 3120XP, 160, 260, 185, 268, 288, 298, 371, 372, 65, 70, 385, L-SERIES, 1100, 3120, 530, 550 XP, 572XP, 576, 390, 562, 575, 575XP, 570, 562XP, 576XP, 390XP, 556 AutoTune, 565 AutoTune, 570 AutoTune, 576XP AutoTune, 390XP, 395XP, 3120XP

.404" - .063" Gauge

50	20"	.404"	1.6	.063"	66				20F3-RN-HV	20X3-HS-HV										
60	24"	.404"	1.6	.063"	77				24F3-RN-HV											
75	30"	.404"	1.6	.063"	92				30F3-RN-HV	30X3-HS-HV										
90	36"	.404"	1.6	.063"	104				36F3-RN-HV	36X3-HS-HV				36-17-B3108-PS						
106	42"	.404"	1.6	.063"	124				42F3-RN-HV	42X3-HS-HV										

Jonsered

M36, 36AV, M361, 361, 365, 370

3/8" LP - .050" Gauge

40	16"	3/8" LP	1.3	.050"	56			16D0-CL-F												
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2033TH

3/8" LP - .050" Gauge

20	8"	3/8" LP	1.3	.050"			8D0-HL-PO													
25	10"	3/8" LP	1.3	.050"	40		10D0-HL-PO	10D0-CL-PO												
30	12"	3/8" LP	1.3	.050"	44			12D0-CL-PO							A267-0			A3175-0		
35	14"	3/8" LP	1.3	.050"	52			14D0-CL-PO							A269-0			A3114-0		
40	16"	3/8" LP	1.3	.050"	57			16D0-CL-PO							A271-0			A3117-0		
45	18"	3/8" LP	1.3	.050"	62			18D0-CL-PO							A274-0					

370, 380, 365, 35, 2035, 2036, 2040, 2115, 2115EL, 2117, 2117EL, 2118, 2118EL, 2121, 2121EL, 2135, 2135T, 2138, 2139, 2234, 2238

3/8" LP - .050" Gauge

30	12"	3/8" LP	1.3	.050"	45			12D0-CL-UH												
35	14"	3/8" LP	1.3	.050"	52			14D0-CL-UH							A3159-0					
40	16"	3/8" LP	1.3	.050"	56			16D0-CL-UH							A3160-0					



EL14, EL1200, 45, 45E, 49, 49SP, 50, 51, 52E, 370, 380, 410, 420, 435, 450, 451, 451EVS, 451E, 451EV, 452, 455, 490, 510, 520, 525, 535, 590, 2012, 2012EL, 2014, 2014EL, 2015, 2015EL, 2016, 2016EL, 2036, 2040, 2041, 2045, 2050, 2063, 2051, 2054, 2055, 2137, 2139, 2141, 2145, 2149, 2149T, 2150, 2152, 2153, 2156, 2159, 2163, 2230, 2234, 2238, 2240, 2245

[illegible]

33	13"	.325"	1.3	.050"	56									A390-0					
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33	13"	.325"	1.5	.058"	56			1388-LS-UH						A390-8						
38	15"	.325"	1.5	.058"	64			1588-LS-UH							A3343				A3108-8	
40	16"	.325"	1.5	.058"	66			1688-LS-UH	1688-RN-UH			16-01W-K266-PS			A3308				A3356	
45	18"	.325"	1.5	.058"	72			1888-LS-UH	1888-RN-UH			18-01W-K272-PS			A3345				A3309	
50	20"	.325"	1.5	.058"	78			2088-LS-UH	2088-RN-UH			20-01W-K278-PS			A3346					

[illegible]

40	16"	3/8"	1.5	.058"	60			16A8-LS-UH	16A8-RN-UH							A3329	A3316				
45	18"	3/8"	1.5	.058"	68			18A8-LS-UH	18A8-RN-UH							A3318	A3347				
50	20"	3/8"	1.5	.058"	72			20A8-LS-UH	20A8-RN-UH					20-01W-A272-PS		A3319	A3320				

.325" - .058" Gauge

[illegible]

3/8" - .058" Gauge

[illegible]

																				
CM	IN	CHAIN	MM	IN	DL	ARCHER BARS					TSUMURA BARS				ARCHER COMBOS					
						Hobby	Consumer	Semi Pro	Professional	Pro Hard Nose	Lightweight	Semi Pro	Rotary Tip	Hard Nose	BAR & CHAIN			BAR & 2 CHAIN		
						HL	CL	LS/TL	RN	HS	FK4	TC/LS	PS	PH	LS/TL	RN	RN	LS/TL	RN	RN

Jonsered *continued*

625, 630, 630 SUPER, 670, 670 CHAMP, 2065, 2071, 2077, 2083, 2094, 2095, 2165, 2171, 2172, 2186, *820/830, *920/930 (* with 9mm stud), 670 WEST COAST, 2063, 2163, 2188, 635

3/8" - .063" Gauge

50	20"	3/8"	1.6	.063"	72				20A3-RN-HV	20X3-HS-HV	428FK4		20-17-A372-PS	20-17-063-PH						
60	24"	3/8"	1.6	.063"	82/84						437FK4		24-17-A384-PS	24-17-063-PH						

.404" - .063" Gauge

50	20"	.404"	1.6	.063"	66				20F3-RN-HV	20X3-HS-HV										
60	24"	.404"	1.6	.063"	77				24F3-RN-HV											
75	30"	.404"	1.6	.063"	92				30F3-RN-HV	30X3-HS-HV										

Makita

DCS300, DCS330S, DCS330TH, DCS340, DCS341, DCS350, DCS380, DCS390, DCS400, DCS401, DCS533, DCS534, DCS5231, UC2500WB, UC3000, UC3500, UC4000, 5012B, 5014NB, 5016NB, DCS232, DCS3410

3/8" LP - .050" Gauge

20	8"	3/8" LP	1.3	.050"		8D0-HL-PO														
25	10"	3/8" LP	1.3	.050"	40	10D0-HL-PO	10D0-CL-PO													
30	12"	3/8" LP	1.3	.050"	44		12D0-CL-PO								A267-0			A3175-0		
35	14"	3/8" LP	1.3	.050"	52		14D0-CL-PO								A269-0			A3114-0		
40	16"	3/8" LP	1.3	.050"	57		16D0-CL-PO								A271-0			A3117-0		
45	18"	3/8" LP	1.3	.050"	62		18D0-CL-PO								A274-0					

45, DCS430, DCS431, DCS460, DCS500, DCS520, DCS520i, DCS540, DCS4300i, DCS4301, DCS4600, DCS5030, DCS5200i

.325" - .050" Gauge

38	15"	.325"	1.3	.050"	64			1580-LS-UH							A3342					
40	16"	.325"	1.3	.050"	66			1680-LS-UH	1680-RN-UH						A3307					
45	18"	.325"	1.3	.050"	72			1880-LS-UH	1880-RN-UH						A3344					
50	20"	.325"	1.3	.050"	78			2080-LS-UH								A3304				

DCS430, DCS431, DCS520i, DCS4300i, DCS5200i, DCS540, DCS520, 45, DCS460, DCS4301

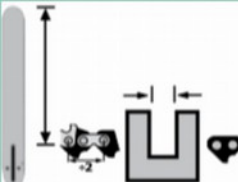
.325" - .050" Gauge

33	13"	.325"	1.3	.050"	56										A390-0					
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.325" - .058" Gauge

33	13"	.325"	1.5	.058"	56			1388-LS-UH							A390-8					
38	15"	.325"	1.5	.058"	64			1588-LS-UH							A3343				A3108-8	
40	16"	.325"	1.5	.058"	66			1688-LS-UH	1688-RN-UH				16-01W-K266-PS		A3308				A3356	
45	18"	.325"	1.5	.058"	72			1888-LS-UH	1888-RN-UH				18-01W-K272-PS		A3345				A3309	
50	20"	.325"	1.5	.058"	78			2088-LS-UH	2088-RN-UH				20-01W-K278-PS		A3346					

CM	IN	CHAIN	MM	IN	DL	ARCHER BARS					TSUMURA BARS				ARCHER COMBOS						
						Hobby	Consumer	Semi Pro	Professional	Pro Hard Nose	Lightweight	Semi Pro	Rotary Tip	Hard Nose	BAR & CHAIN			BAR & 2 CHAIN			
															Semi Chisel		Full	Semi Chisel		Full	
															LS/TL	RN	RN	LS/TL	RN	RN	
						HL	CL	LS/TL	RN	HS	FK4	TC/LS	PS	PH		LS/TL	RN	RN	LS/TL	RN	RN
Makita continued																					
DCS520i, DCS540, DCS5200i, DCS6000i, DCS6800i, DCS4300, DCS5200, DCS6000, DCS6600, DCS5460, DCS4301, DCS4610, DCS5000, DCS4600																					
3/8" - .050" Gauge																					
50	20"	3/8"	1.3	.050"	72			20A0-LS-UH													
3/8" - .058" Gauge																					
40	16"	3/8"	1.5	.058"	60			16A8-LS-UH	16A8-RN-UH								A3329	A3316			
45	18"	3/8"	1.5	.058"	68			18A8-LS-UH	18A8-RN-UH								A3318	A3347			
50	20"	.325"	1.5	.058"	78			20A8-LS-UH	20A8-RN-UH								A3319	A3320			
DCS500/45, DCS6400, DCS6401, DCS7300, DCS7301, DCS7900, DCS7901, DCS9000, DCS9010																					
3/8" - .050" Gauge																					
50	20"	3/8"	1.3	.050"	72			20A0-LS-HV	20A0-RN-HV												
3/8" - .058" Gauge																					
40	16"	3/8"	1.5	.058"	60			16A8-LS-HV	16A8-RN-HV				16-17-A260-PS				A3326	A3338			
45	18"	3/8"	1.5	.058"	68			18A8-LS-HV	18A8-RN-HV	18X8-HS-HV			18-17-A268-PS				A3322	A3302		A3337	A3311
50	20"	3/8"	1.5	.058"	72			20A8-LS-HV	20A8-RN-HV	20X8-HS-HV	407FK4		20-17-A272-PS	20-17-063-PH			A3323	A3303		A3336	A3312
55	22"	3/8"	1.5	.058"	76				22A8-RN-HV												
60	24"	3/8"	1.5	.058"	84			24A8-RN-HV	24X8-HS-HV	439FK4			24-17-A284-PS	24-17-063-PH							
70	28"	3/8"	1.5	.058"	92			28A8-RN-HV	28X8-HS-HV				28-17-A292-PS								
76	30"	3/8"	1.5	.058"	98/102			30A8-RN-HV	30X8-HS-HV				30-17-A2102-PS								
81	32"	3/8"	1.5	.058"				32A8-RN-HV													
92	36"	3/8"	1.5	.058"	115/120			36A8-RN-HV	36X8-HS-HV				36-17-A2120-PS								
106	42"	3/8"	1.5	.058"				42A8-RN-HV	42X8-HS-HV												
3/8" - .063" Gauge																					
50	20"	3/8"	1.6	.063"	72				20A3-RN-HV	20X3-HS-HV	428FK4		20-17-A372-PS	20-17-063-PH							
60	24"	3/8"	1.6	.063"	82/84						437FK4		24-17-A384-PS	24-17-063-PH							
McCulloch																					
Pole Saw																					
3/8" LP - .043" Gauge																					
25	10"	3/8" LP	1.3	.043"			10D4-CL-M														
14A/S, 110, 115, 120, 130, 140, 155, 160S, 165, 175, 310, 320, 330, 340, 355, 365, 375, 430, 435, 440, 445, 474, 484, 510, 515, 735, 838, 2010, 2014, 2016, 2138, 2316, 2318, 3200, 3210, 3219, 3514, 3516, 3518, 3800, 3850, 3816, 160S, 2018S, 3205-14, 3818V, C180, CALIFORNIA, CALIFORNIA 90, ARIZONA, EAGER BEAVER (2010, 2012, 2014, 2016, 2116, 2318), ELECTRA MAC 16E, ELECTROMAC 1030, 1035, EB2.3, EB2.3 MAC CAT, EB 6a, EM16, 10, 12, 14, 16E, EMAC1040, DAY900, MAC CAT, MAC CAT (16, 18), MAC CAT 839, MINI MAC (All models), 3214/6, 3516/8, MAC120, MAC130, MAC930, MAC935, MAC940, MC SERIES, MM30, MM35, MS1415, MS1420, MS1425, MS1430, MS1432, MS1435, MS1455, MS1630, MS1635, MS1635NAV, MS1635NAVCC, MS1640, MS1645, MS1838, MS1838AV, MS1838AVCC, MS1842AVCC, MS1846AVCC, PM36, PM300, PM310, PM320, PM360, PM364, PM370, PM380, PM394, PM470, PM480, PM494, PM510, PM400, PM484, PM6, PM730, POWER MAC SERIES (6, 14S-14, 25S-16), POWER MAC 6, PROMAC SERIES (3200, 3205, 3205-14, 3210, 3212, 3214, 3216, 3219, 3505, 3800, 3805, 3818, 3850), SILVER EAGLE SERIES (2010, 2012, 2012S, 2104, 2014S, 2016, 2018S, 2316), SP-40, SUPER 17, TITAN SERIES (35, 36, 37, 38, 39 40), WILDCAT, 10E, 12E, 14E, 16E, MS1425, MS1640																					
3/8" LP - .050" Gauge																					
30	12"	3/8" LP	1.3	.050"	44		12D0-CL-M										A260-0				
35	14"	3/8" LP	1.3	.050"	49		14D0-CL-M										A262-0				
40	16"	3/8" LP	1.3	.050"	55		16D0-CL-M										A264-0				
45	18"	3/8" LP	1.3	.050"	60		18D0-CL-M										A272-0				

																					
CM	IN	CHAIN	MM	IN	DL	ARCHER BARS					TSUMURA BARS				ARCHER COMBOS						
						Hobby	Consumer	Semi Pro	Professional	Pro Hard Nose	Lightweight	Semi Pro	Rotary Tip	Hard Nose	BAR & CHAIN		BAR & 2 CHAIN		LS/TL	RN	
						HL	CL	LS/TL	RN	HS	FK4	TC/LS	PS	PH	Semi Chisel	Full	Semi Chisel	Full			
																LS/TL	RN	RN	LS/TL	RN	RN

McCulloch *continued*

35CC, 40CC

3/8" LP - .050" Gauge

20	8"	3/8" LP	1.3	.050"		8D0-HL-PO														
25	10"	3/8" LP	1.3	.050"	40	10D0-HL-PO	10D0-CL-PO													
30	12"	3/8" LP	1.3	.050"	44		12D0-CL-PO								A267-0			A3175-0		
35	14"	3/8" LP	1.3	.050"	52		14D0-CL-PO								A269-0			A3114-0		
40	16"	3/8" LP	1.3	.050"	57		16D0-CL-PO								A271-0			A3117-0		
45	18"	3/8" LP	1.3	.050"	62		18D0-CL-PO								A274-0					

.325" - .050" Gauge

45	18"	.325"	1.3	.050"	72			18B0-LS-PO								A3314				A3314
50	20"	.325"	1.3	.050"	78											A3315				

MS1215, MS1415, MS1425, MS1630, MS1640, MS1435, MS1645, MS1845J, MS1834N, MS1635AV

3/8" LP - .050" Gauge

30	12"	3/8" LP	1.3	.050"	44		12D0-CL-M								A260-0					
35	14"	3/8" LP	1.3	.050"	49		14D0-CL-M								A262-0					
40	16"	3/8" LP	1.3	.050"	55		16D0-CL-M								A264-0					
45	18"	3/8" LP	1.3	.050"	60		18D0-CL-M								A272-0					

1-10, 10-10, 2-10, 3-10, 4-10, 5-10, 55, 55S, 6-10, 60, 610, 650, 65S, 7-10, 70, 700, 80, 800, 80S, 850, DE50, SP60, SP81, TITAN 50, TITAN 57, 95S, 1000, CP55, CP70, CP70L, 560, 570, 620, DOUBLE EAGLE 50/57/80, PM60S, PROMAC 5700/8200, SILVER EAGLE 3420/3720, SP-60, SP-70, SP80, SP81, TIMBER BEAR, TITAN 50/57/70, SP80, SP81

3/8" - .050" Gauge

40	16"	3/8"	1.3	.050"	60			16A0-LS-EX	16A0-RN-EX							A3332				
45	18"	3/8"	1.3	.050"	68			18A0-LS-EX	18A0-RN-EX				18-41-A164-PS			A3333				
50	20"	3/8"	1.3	.050"	72			20A0-LS-EX	20A0-RN-EX				20-41-A172-PS			A3325				
60	24"	3/8"	1.3	.050"	81				24A0-RN-EX											

Oleo-Mac

931, 932, 936, 935, 940

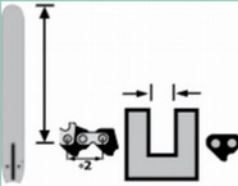
3/8" LP - .050" Gauge

20	8"	3/8" LP	1.3	.050"		8D0-HL-PO														
25	10"	3/8" LP	1.3	.050"	40	10D0-HL-PO	10D0-CL-PO													
30	12"	3/8" LP	1.3	.050"	44		12D0-CL-PO								A267-0			A3175-0		
35	14"	3/8" LP	1.3	.050"	52		14D0-CL-PO								A269-0			A3114-0		
40	16"	3/8" LP	1.3	.050"	57		16D0-CL-PO								A271-0			A3117-0		
45	18"	3/8" LP	1.3	.050"	62		18D0-CL-PO								A274-0					

233, 234, 240, 244, 335, 340, 925, 930, 932, 935DX, 935X, 936, 940, E140F, E160F, E1700, E1900, E1500, OM-E200, E140F, E160F, E1700, E1900

3/8" LP - .050" Gauge

30	12"	3/8" LP	1.3	.050"	44		12D0-CL-SW								A266-0			A3110-0		
35	14"	3/8" LP	1.3	.050"	50		14D0-CL-SW								A268-0			A3111-0		
40	16"	3/8" LP	1.3	.050"	55		16D0-CL-SW								A270-0					

																				
CM	IN	CHAIN	MM	IN	DL	ARCHER BARS					TSUMURA BARS				ARCHER COMBOS					
						Hobby	Consumer	Semi Pro	Professional	Pro Hard Nose	Lightweight	Semi Pro	Rotary Tip	Hard Nose	BAR & CHAIN			BAR & 2 CHAIN		
						HL	CL	LS/TL	RN	HS	FK4	TC/LS	PS	PH	LS/TL	RN	RN	LS/TL	RN	Full

Oleo-Mac *continued*

999F

.404" - .063" Gauge

53	21	.404"	1.6	.063"	72				21F3-RN-SLD											
63	25	.404"	1.6	.063"	84				25F3-RN-SLD	25X3-HS-SLD			25-57-B384-PS	25-57-063-PH						
75	30	.404"	1.6	.063"	92				30F3-RN-SLD				30-57-B392-PS	30-57-063-PH						
90	36	.404"	1.6	.063"	104				36F3-RN-SLD	36X3-HS-SLD			36-57-B3104-PS	36-57-063-PH						

240, OM-E2000

3/8" LP - .050" Gauge

30	12"	3/8" LP	1.3	.050"	44		12D0-CL-SW								A266-0			A3110-0		
35	14"	3/8" LP	1.3	.050"	50		14D0-CL-SW								A268-0			A3111-0		
40	16"	3/8" LP	1.3	.050"	55		16D0-CL-SW								A270-0					

935, 938, 940, 941, 942, 945, 950, 946, 947, 950 SUPER, 950A, 951, 952, 956, 962, E300 F, 971, 850, 965

.325" - .050" Gauge

33	13"	.325"	1.3	.050"	56										A390-0					
38	15"	.325"	1.3	.050"	64			15B0-LS-UH								A3342				
40	16"	.325"	1.3	.050"	66			16B0-LS-UH	16B0-RN-UH							A3307				
45	18"	.325"	1.3	.050"	72			18B0-LS-UH	18B0-RN-UH							A3344				
50	20"	.325"	1.3	.050"				20B0-LS-UH												

935, 938, 940, 941, 942, 945, 950, 946, 947, 950 SUPER, 950A, 951, 952, 956, 962, E300 F, 971, 850, 965

.325" - .058" Gauge

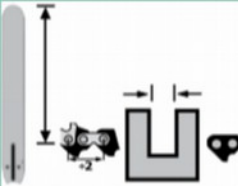
33	13"	.325"	1.5	.058"	56			13B8-LS-UH							A390-8					
38	15"	.325"	1.5	.058"	64			15B8-LS-UH								A3343			A3108-8	
40	16"	.325"	1.5	.058"	66			16B8-LS-UH	16B8-RN-UH				16-01W-K266-PS			A3308			A3356	
45	18"	.325"	1.5	.058"	72			18B8-LS-UH	18B8-RN-UH				18-01W-K272-PS			A3345			A3309	
50	20"	.325"	1.5	.058"	78			20B8-LS-UH	20B8-RN-UH				20-01W-K278-PS			A3346				

3/8" - .050" Gauge

50	20"	3/8"	1.3	.050"	72			20A0-LS-UH												
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3/8" - .058" Gauge

40	16"	3/8"	1.5	.058"	60			16A8-LS-UH	16A8-RN-UH							A3329	A3316			
45	18"	3/8"	1.5	.058"	68			18A8-LS-UH	18A8-RN-UH							A3318	A3347			
50	20"	3/8"	1.5	.058"	72			20A8-LS-UH	20A8-RN-UH				20-01W-A272-PS			A3319	A3320			

																				
CM	IN	CHAIN	MM	IN	DL	ARCHER BARS					TSUMURA BARS				ARCHER COMBOS					
						Hobby	Consumer	Semi Pro	Professional	Pro Hard Nose	Lightweight	Semi Pro	Rotary Tip	Hard Nose	BAR & CHAIN			BAR & 2 CHAIN		
						HL	CL	LS/TL	RN	HS	FK4	TC/LS	PS	PH	LS/TL	RN	RN	LS/TL	RN	RN

Partner

330, 335, 345, 360, 365, 385, 395, 351, 370, P 390, P 420, 350, 405, 340, 1436, 1641

3/8" LP - .050" Gauge

20	8"	3/8" LP	1.3	.050"		8D0-HL-PO														
25	10"	3/8" LP	1.3	.050"	40	10D0-HL-PO	10D0-CL-PO													
30	12"	3/8" LP	1.3	.050"	44		12D0-CL-PO								A267-0			A3175-0		
35	14"	3/8" LP	1.3	.050"	52		14D0-CL-PO								A269-0			A3114-0		
40	16"	3/8" LP	1.3	.050"	57		16D0-CL-PO								A271-0			A3117-0		
45	18"	3/8" LP	1.3	.050"	62		18D0-CL-PO								A274-0					

.325" - .050" Gauge

45	18"	.325"	1.3	.050"	72			18B0-LS-PO								A3314				
50	20"	.325"	1.3	.050"	78											A3315				

650, 7000, P65, P100, P55, P65, P70, R16, R17, R18, R19, R20, R21, R22, R40, R417, R418, R420, R421, R422, R435, R440, R522, R523, S50, S55, S65, R11, R12, R14, R23, R30, R35, R416, R44, R517, P50, P51, F55, S50, 85, 7700, 710, 660, P7700, 710, P100

3/8" - .058" Gauge

40	16"	3/8"	1.5	.058"	60			16A8-LS-HV	16A8-RN-HV				16-17-A260-PS		A3326	A3338				
45	18"	3/8"	1.5	.058"	68			18A8-LS-HV	18A8-RN-HV	18X8-HS-HV			18-17-A268-PS		A3322	A3302		A3337	A3311	
50	20"	3/8"	1.5	.058"	72			20A8-LS-HV	20A8-RN-HV	20X8-HS-HV	407FK4		20-17-A272-PS	20-17-063-PH	A3323	A3303		A3336	A3312	
55	22"	3/8"	1.5	.058"	76				22A8-RN-HV											
60	24"	3/8"	1.5	.058"	84			24A8-RN-HV	24X8-HS-HV	439FK4			24-17-A284-PS	24-17-063-PH						
70	28"	3/8"	1.5	.058"	92			28A8-RN-HV	28X8-HS-HV				28-17-A292-PS							
81	32"	3/8"	1.5	.058"					32A8-RN-HV											
90	36"	3/8"	1.5	.058"	119/120				36A8-RN-HV	36X8-HS-HV			36-17-A2120-PS							
106	42"	3/8"	1.5	.058"	135				42A8-RN-HV	42X8-HS-HV										

360, 365, 400, 405, 450, 465, 495, 510, 540, 500, 545, MINI FARMERSAW, P500, P5000, 1200EL, 1400EL, 1450, 1500EL, EL1650, 410, 460, S10CCS, 370, 320, P48, P49, P400, 420, 470, 550, P5500, 605, 390, 5000

.325" - .050" Gauge

33	13"	.325"	1.3	.050"	56										A390-0					
38	15"	.325"	1.3	.050"	64			15B0-LS-UH							A391-0	A3342				
40	16"	.325"	1.3	.050"	66			16B0-LS-UH	16B0-RN-UH						A3105-0	A3307				
45	18"	.325"	1.3	.050"	72			18B0-LS-UH	18B0-RN-UH						A392-0	A3344				
50	20"	.325"	1.3	.050"				20B0-LS-UH												

.325" - .058" Gauge

33	13"	.325"	1.5	.058"	56			13B8-LS-UH							A390-8					
40	16"	.325"	1.5	.058"	66			16B8-LS-UH	16B8-RN-UH				16-01W-K266-PS		A3308			A3356		
45	18"	.325"	1.5	.058"	72			18B8-LS-UH	18B8-RN-UH				18-01W-K272-PS		A3345			A3309		
50	20"	.325"	1.5	.058"	78			20B8-LS-UH	20B8-RN-UH				20-01W-K278-PS		A3346					



200 SERIES, 203, 245, 375, 300 SERIES, 306, 306A, 3400, 360, 361, 365, 3600, 375, 3700, 380, 3800, 395, 3900, 400 SERIES, 400, 445, 450, 4000, 4200, 4400, 4900, 5200, 5400, 5500, 670

[illegible]

3/8" - .050" Gauge														
50	20"	3/8"	1.3	.050"	72				20A0-LS-HV	20A0-RN-HV				

[illegible][illegible]

PPT260, PP300, PP400, PP600, PP800, PP1000, PP1200, PP1250, PP1260, PP1400, PP1400-D, PPF-2100, PPT-2100, PPF-2400, PPT-2400, PPSR-2122, PPSR-2433

30	12"	3/8" LP	1.3	.050"	44		12D0-CL-M					A260-0					
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CSE5145, CSE5650

[illegible]



CM	IN	CHAIN	MM	IN	DL	ARCHER BARS					TSUMURA BARS				ARCHER COMBOS					
						Hobby	Consumer	Semi Pro	Professional	Pro Hard Nose	Lightweight	Semi Pro	Rotary Tip	Hard Nose	BAR & CHAIN			BAR & 2 CHAIN		
						HL	CL	LS/TL	RN	HS	FK4	TC/LS	PS	PH	Semi Chisel		Full	Semi Chisel		Full
															LS/TL	RN	RN	LS/TL	RN	RN

Shindaiwa

90, 100, 140, 150, 160, 180, 291, 300, 305, 269T, 285, A090B, A100C, A102, A103, A104P, A105B, A107, A110, A110P, A113, A113L, A113P, A117P, 140, A150B, 150E, 160, A180, 300S, 305, 305AVZ, 340, 345, 346, 350, 355, 357, 360, EYB120, EYB150, EYB180, YB291, YB301, YB391, YB395, YB401, YB491, E120

3/8" LP - .050" Gauge

20	8"	3/8" LP	1.3	.050"		8D0-HL-PO														
25	10"	3/8" LP	1.3	.050"	40	10D0-HL-PO	10D0-CL-PO													
30	12"	3/8" LP	1.3	.050"	44		12D0-CL-PO								A267-0			A3175-0		
35	14"	3/8" LP	1.3	.050"	52		14D0-CL-PO								A269-0			A3114-0		
40	16"	3/8" LP	1.3	.050"	57		16D0-CL-PO								A271-0			A3117-0		
45	18"	3/8" LP	1.3	.050"	62		18D0-CL-PO								A274-0					

100, 102, 103, 104, 105, 107, 110, 113, 117, E120, 140, E150, 160, E180, 291, 300, 301, 305, 340, 345, 346, 350, 352, 355, 357, 360, 366, 377, 389, 391, 394, 400, 401, 415, 416, 420, 440, 446, 450, 451, 488, 490, 500, 510, 560, 580, A180B, YB501, YB601, YB701, YB495, YB691, YB377

.325" - .050" Gauge

35	14"	.325"	1.3	.050"	60			14B0-LS-PO												
40	16"	.325"	1.3	.050"	66			16B0-LS-PO												
45	18"	.325"	1.3	.050"	72			18B0-LS-PO								A3314				
50	20"	.325"	1.3	.050"	78											A3315				

.325" - .058" Gauge

40	16"	.325"	1.5	.058"	66			16B8-LS-PO												
45	18"	.325"	1.5	.058"	72			18B8-LS-PO												

550, 575, 577, 680, 695, 757, 757C, YB801, YB901, YB1091

3/8" - .058" Gauge

40	16"	3/8"	1.5	.058"	60			16A8-LS-HV	16A8-RN-HV				16-17-A260-PS			A3326	A3338			
45	18"	3/8"	1.5	.058"	68			18A8-LS-HV	18A8-RN-HV	18X8-HS-HV			18-17-A268-PS			A3322	A3302		A3337	A3311
50	20"	3/8"	1.5	.058"	72			20A8-LS-HV	20A8-RN-HV	20X8-HS-HV	407FK4		20-17-A272-PS	20-17-063-PH		A3323	A3303		A3336	A3312

Solo

613

3/8" LP - .050" Gauge

20	8"	3/8" LP	1.3	.050"		8D0-HL-PO														
25	10"	3/8" LP	1.3	.050"	40	10D0-HL-PO	10D0-CL-PO													
30	12"	3/8" LP	1.3	.050"	44		12D0-CL-PO								A267-0			A3175-0		
35	14"	3/8" LP	1.3	.050"	52		14D0-CL-PO								A269-0			A3114-0		
40	16"	3/8" LP	1.3	.050"	57		16D0-CL-PO								A271-0			A3117-0		
45	18"	3/8" LP	1.3	.050"	62		18D0-CL-PO								A274-0					



614, 620, 630, 631, 632, 638, 633, 635, 636, 637, 639, 640, 641, 344, 644SP, 645, 650, 647, 651SP, 651, 654, 634, 643, 644, 656

[illegible]

603, 662, 667, 670, 680, 690, 694, 609

3/8" - .050" Gauge

[illegible]

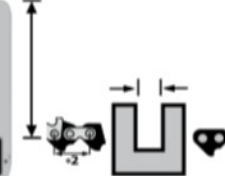
5/6 1050 Gauge

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1000

Figure 1. The effect of the number of iterations on the accuracy of the proposed algorithm. The accuracy of the proposed algorithm increases with the number of iterations. The accuracy of the proposed algorithm is 100% when the number of iterations is 1000.

2011	20	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417
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CM	IN	CHAIN	MM	IN	DL	ARCHER BARS					TSUMURA BARS				ARCHER COMBOS						
						Hobby	Consumer	Semi Pro	Professional	Pro Hard Nose	Lightweight	Semi Pro	Rotary Tip	Hard Nose	BAR & CHAIN			BAR & 2 CHAIN			
						HL	CL	LS/TL	RN	HS	FK4	TC/LS	PS	PH	LS/TL	RN	RN	LS/TL	RN	RN	

Stihl *continued*

Battery models including MSA120C-BQ, MSA140C-BQ, MSA160C-BQ, MSA200C-BQ, MSA160T

1/4" Mini - .043" Gauge

20	8"	1/4"	1.09	.043"	28		8KM4-CL-SW													
25.4	10"	1/4"	1.09	.043"	56		10KM4-CL-SW													
30	12"	1/4"	1.09	.043"	64		12KM4-CL-SW													
35	14"	1/4"	1.09	.043"	72		14KM4-CL-SW													

017, 018, 019T, 023L, E140, HTE60, HT70, HT75, HT101, HT131, MSE140, MSE166, MSE180, MSE200, MS140, MS160, MS170, MS171, MS180, MS180C, MS181, MS181C-BE, MS190, MS191T, MS192T, MS193, MS211C-BE, MS192T, MSE170C-BQ, MSE180C-BQ, MS201T

3/8" LP - .043" Gauge

30	12"	3/8" LP	1.1	.043"	44		12D4-CL-SW								A266-4			A3172-4		
35	14"	3/8" LP	1.1	.043"	50		14D4-CL-SW								A268-4			A3173-4		
40	16"	3/8" LP	1.1	.043"	55		16D4-CL-SW								A270-4			A3174-4		

009, 010, 011, 012, 015, 017, 018, 019/T, 020, 020/T, 021, 021/C, 023/C, 025/C, E10, E14, E160, E180/CQT, MS180, MS190/T, MS200, MS200/T, MS210, MS211, MS230, MS231, MS250, MS250/C, MS251, MS2190T, MS170, MS191, MS171, MS181, MS192, MS140, MS181C-BE, MS211C-BE, MS231, MS231C-BE, MS251, MS251C-BE, HT101, HT131, HTE60, MS192T, MS201T, MSE170C-BQ, MSE180C-BQ, MS241C-M

3/8" LP - .050" Gauge

30	12"	3/8" LP	1.3	.050"	44		12D0-CL-SW								A266-0			A3110-0		
35	14"	3/8" LP	1.3	.050"	50		14D0-CL-SW								A268-0			A3111-0		
40	16"	3/8" LP	1.3	.050"	55		16D0-CL-SW								A270-0			A3112-0		

.325" - .063" Gauge

40	16"	.325"	1.6	.063"	62			16B3-LS-SW								A3321				
45	18"	.325"	1.6	.063"	68			18B3-LS-SW								A3317				

024, 026, 026 PRO, 028, 028 SUPER, 029, 030, 031, 032, 034, 036, 036 PRO, 036/QS, 038, 039, FARM BOSS, 040, 041, 042, 044, 044/C, 045, 046, 046/C, 048, 056, 064, 066, E15, E20, E220/C, E220Q, MSE220Q, MS240, MS251C-BE, MS260, MS260 PRO, MS261, MS261C-M, MS261C-MQMS270, MS270C, MS270CQS, MS271, MS280, MS280CQS, MS290, MS291, MS310, MS311, MS341, MS360, MS360 PRO, MS360QS, MS361, MS361C, MS362, MS360QS, MS381, MS390, MS391, MS440, MS441, MS460, MS441, MS461, MS462, MS650, MS660, MS661, FARMBOSS

.325" - .063" Gauge

38	15"	.325"	1.6	.063"	63			15B3-LS-SN								A3330				
40	16"	.325"	1.6	.063"	67			16B3-LS-SN	16B3-RN-SN				16-42-K367-PS			A3305				
45	18"	.325"	1.6	.063"	74			18B3-LS-SN	18B3-RN-SN	18X3-HS-SN						A3306				
50	20"	.325"	1.6	.063"	81			20B3-LS-SN		20X3-HS-SN						A3331				



CM	IN	CHAIN	MM	IN	DL	ARCHER BARS					TSUMURA BARS				ARCHER COMBOS					
						Hobby	Consumer	Semi Pro	Professional	Pro Hard Nose	Lightweight	Semi Pro	Rotary Tip	Hard Nose	BAR & CHAIN			BAR & 2 CHAIN		
						HL	CL	LS/TL	RN	HS	FK4	TC/LS	PS	PH	LS/TL	RN	Full	Semi Chisel	Full	Full

Stihl continued

038, 038 SUPER MAGNUM, 039, 041, 042, 044, 045, 046, 048, 056, 056S, 064, 066, 066 MAGNUM, MS390, MS440, MS440 MAGNUM, MS660, MS660 MAGNUM, 029, 029 SUPER, 030, 031, 032, 034, 036/QS, 036 PRO, 038, 040, MS241, MS251C-BE, MS261, MS271, MS280, MS280C, MS290, MS291, MS310, MS311, MS340, MS341, MS360, MS360 Pro, MS361, MS361C, MS362C-M, MS381, MS381 MAGNUM, MS390, MS391, MS440, MS441, MS441C-M, MS460, MS461, MS462, MS500, MS500i, MS640, MS650, MS660, MS661, FARMBOSS

3/8" - .050" Gauge

45	18"	3/8"	1.3	.050"	66				18A0-RN-SN											
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3/8" - .063" Gauge

40	16"	3/8"	1.6	.063"	60			16A3-LS-SN	16A3-RN-SN				16-31-A360-PS		A3324	A3339				
45	18"	3/8"	1.6	.063"	66			18A3-TL-SN	18A3-RN-SN	18X3-HS-SN	207FK4		18-31-A366-PS		A3327	A3301		A3335	A3310	
50	20"	3/8"	1.6	.063"	72			20A3-LS-SN	20A3-RN-SN	20X3-HS-SN	208FK4		20-31-A372-PS	20-31-063-PH	A3328	A3300		A3334	A3313	
55	22"	3/8"	1.6	.063"	76			22A3-RN-SN												
60	24"	3/8"	1.6	.063"	84			24A3-RN-SN	25X3-HS-SN	210FK4			25-31-A384-PS	24-31-063-PH						
70	28"	3/8"	1.6	.063"	91			28A3-RN-SN		234KF4			28-31-A391-PS							
75	30"	3/8"	1.6	.063"	100			30A3-RN-SN	30X3-HS-SN	235FK4			30-31-A3100-PS							
80	32"	3/8"	1.6	.063"	106			32A3-RN-SN	32X3-HS-SN											
90	36"	3/8"	1.6	.063"	113			36A3-RN-SN	36X3-HS-SN				36-31-A3115-PS							
106	42"	3/8"	1.6	.063"	135			42A3-RN-SN	42X3-HS-SN											

029, 029 SUPER, 030, 031, 032, 034, 036/QS, 036 PRO, 038, 038 SUPER MAGNUM, 039, 040, 041, 042, 044, 045, 046, 048, 056, 056S, 064, 066, 066 MAGNUM, MS290, MS310, MS340, MS360, MS361, MS361C, MS381 MAGNUM, MS390, MS440, MS440 MAGNUM, MS441, MS441C-M, MS460, MS461, MS500, MS500i, MS640, MS650, MS660, MS660 MAGNUM

.404" - .063" Gauge

45	18"	.404"	1.6	.063"	64					18X3-HS-SN										
50	20"	.404"	1.6	.063"	66				20F3-RN-SN	20X3-HS-SN	208PK5		20-31-B366-PS	20-31-063-PH						
63	25"	.404"	1.6	.063"	78				25F3-RN-SN	25X3-HS-SN	233PK5		25-31-B378-PS	24-31-063-PH						
70	28"	.404"	1.6	.063"	83				28F3-RN-SN				28-31-B383-PS							
75	30"	.404"	1.6	.063"	88/90				30F3-RN-SN	30X3-HS-SN			30-31-B390-PS							
80	32"	.404"	1.6	.063"	95				32F3-RN-SN	32X3-HS-SN										
90	36"	.404"	1.6	.063"	105/108				36F3-RN-SN	36X3-HS-SN			36-31-B3104-PS							
106	42"	.404"	1.6	.063"	122				42F3-RN-SN	42X3-HS-SN										

050, 051, 075, 076, 075, 084, 088, 08S, E30, S10, MS880, MS880 MAGNUM

3/8" - .063" Gauge (2 hole mount)

53	21"	3/8"	1.6	.063"	75				21A3-RN-S	21X3-HS-S										
63	25"	3/8"	1.6	.063"	90					25X3-HS-S										

.404" - .063" Gauge (2 hole mount)

53	21"	.404"	1.6	.063"	68				21F3-RN-S	21X3-HS-S										
63	25"	.404"	1.6	.063"	84					25X3-HS-S										

050, 051, 070, 075, 076, 07S, 084, 088, 08S, 090, E30, S10, MS880, MS880 MAGNUM

3/8" - .063" Gauge (4 hole mount)

63	25"	3/8"	1.6	.063"	90				25A3-RN-SLD	25X3-HS-SLD			25-57-A393-PS							
75	30"	3/8"	1.6	.063"	100				30A3-RN-SLD				30-57-A3102-PS	30-57-063-PH						

																				
CM	IN	CHAIN	MM	IN	DL	ARCHER BARS					TSUMURA BARS				ARCHER COMBOS					
						Hobby	Consumer	Semi Pro	Professional	Pro Hard Nose	Lightweight	Semi Pro	Rotary Tip	Hard Nose	BAR & CHAIN			BAR & 2 CHAIN		
						HL	CL	LS/TL	RN	HS	FK4	TC/LS	PS	PH	Semi Chisel		Full	Semi Chisel		Full
															LS/TL	RN	RN	LS/TL	RN	RN

Stihl continued

050, 051, 070, 075, 076, 07S, 084, 088, 08S, 090, E30, S10, MS880

.404" - .063" Gauge (4 hole mount)

63	21"	.404"	1.6	.063"	68					21F3-RN-SLD										
63	25"	.404"	1.6	.063"	78					25F3-RN-SLD	25X3-HS-SLD			25-57-8384-PS						
75	30"	.404"	1.6	.063"	92					30F3-RN-SLD				30-57-8392-PS	30-57-063-PH					
90	36"	.404"	1.6	.063"	104					36F3-RN-SLD	36X3-HS-SLD			36-57-83104-PS	36-57-063-PH					

Tanaka

3S, 290, 300, 320, 330, 350, 351, 35S, 356, 370, 37S, 40S, 41S, 2510, 4000, ECS290, ECS300, ECS320, ECS330, ECS3S, ECS350, ECS3500, ECS351, ECS35S, ECS356, ECS360, ECS370, ECS40S, ECS3301, ECS3351, ECS3401, ECS3500, TSP200, TCS3401

3/8" LP - .050" Gauge

20	8"	3/8" LP	1.3	.050"		8D0-HL-PO														
25	10"	3/8" LP	1.3	.050"	40	10D0-HL-PO	10D0-CL-PO													
30	12"	3/8" LP	1.3	.050"	44		12D0-CL-PO								A267-0			A317S-0		
35	14"	3/8" LP	1.3	.050"	52		14D0-CL-PO								A269-0			A3114-0		
40	16"	3/8" LP	1.3	.050"	57		16D0-CL-PO								A271-0			A3117-0		
45	18"	3/8" LP	1.3	.050"	62		18D0-CL-PO								A274-0					

3S, 290, 300, 320, 330, 350, 351, 35S, 356, 370, 37S, 40S, 41S, 3500, 3801, ECS41S, ECS4000, ECV-4501

.325" - .058" Gauge

40	16"	.325"	1.5	.058"	66			1688-LS-PO												
45	18"	.325"	1.5	.058"	72			1888-LS-PO												

Zenoah

GT250-10, GT310-12, GT310-14, G300T/S, G310TS, G320 AVS, G3800AVS-14, G3800AVS-16, GT250TS, G3100, G3800, G3100, GT350, G380, G3200, G3300, G3500, G300S, G2000T, G2500

3/8" LP - .050" Gauge

20	8"	3/8" LP	1.3	.050"		8D0-HL-PO														
25	10"	3/8" LP	1.3	.050"	40	10D0-HL-PO	10D0-CL-PO													
30	12"	3/8" LP	1.3	.050"	44		12D0-CL-PO								A267-0			A317S-0		
35	14"	3/8" LP	1.3	.050"	52		14D0-CL-PO								A269-0			A3114-0		
40	16"	3/8" LP	1.3	.050"	57		16D0-CL-PO								A271-0			A3117-0		
45	18"	3/8" LP	1.3	.050"	62		18D0-CL-PO								A274-0					

G380AVS, G451AVS-16, G3800

.325" - .058" Gauge

40	16"	.325"	1.5	.058"	66			1688-LS-PO												
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G41S, G410AVS, G455AVS, G500AVS, G38, G46, G415AVS, G455AVS, GZ4500, GZ4000, GZ400, G5000, G5300

.325" - .058" Gauge

33	15"	.325"	1.5	.058"	56			1588-LS-UH								A3343				A3108-8
38	16"	.325"	1.5	.058"	64			1688-LS-UH	1688-RN-UH				16-01W-K266-PS			A3308				A3356
40	18"	.325"	1.5	.058"	66			1888-LS-UH	1888-RN-UH				18-01W-K272-PS			A3345				A3309
50	20"	.325"	1.5	.058"	78			2088-LS-UH	2088-RN-UH				20-01W-K278-PS			A3346				