

INDONESIA
SANDVIK
MISSISSAUGA
MADE IN
EN

THE NEW SANDVIK LINE.

SANDVIK
CAN JOSE VIA

LIMON
HECHO

EN SUEC



A COMPLETE HIGH QUALITY RANGE.

The New Sandvik Line comprises all forestry equipment, except the basic chain saw. We furnish bars and blades for all leading makes of chain saws, harvesting machines and brush cutters, in fact, Sandvik bars are standard original equipment for many leading brands. Our range of logging and service tools, as well as personal equipment is just as comprehensive. All of it designed to the latest findings in comfort, safety, efficiency and quality.



Being a world wide corporation, the mother company and its 100 subsidiaries in 48 countries have a total turnover exceeding one billion dollars. About 40 million dollars is spent on research and development of new products each year. More than 800 people are directly involved in the development work. The development and product design of our forestry tools is aimed to satisfy the professional user.

A UNIQUE COMBINATION OF KNOW-HOW AND EXPERIENCE.

Sandvik has been in forestry for more than a hundred years. We have been pace setters in the development of efficient forestry equipment. The original sprocket nose bar, the Roll-Top, is just one of many breakthroughs carrying the Sandvik name.

Sandvik is also one of the world's leading and largest special steel manufacturers, controlling the entire chain of production from raw materials to finished products.

Sandvik offers a unique combination of the latest technology within the steel and forestry industries, based on genuine experience and with utmost quality.

PROFITABLE PARTNERSHIP.

Sandvik can provide products and tools with economy and efficiency for the user. We can also increase your profit. Just think of the time and trouble you save by getting all equipment you need from one and the same supplier, Sandvik.

SANDVIK, THE FULL-LINE SUPPLIER OF FORESTRY TOOLS.

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SANDVIK
ROLL-TOP

Patented USA, Canada 1971

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SANDVIK
ROLL-TOP Professional
Patented USA, Canada

SANDVIK
ROLL-TOP Pro Tip

SANDVIK
ROLL-TOP Pro Tip

SANDVIK
ROLL-TOP

BARS, SPECIALLY DEVELO

The Sandvik program of chain saw bars covers all requirements from big harvesting machines to hobby chain saws. And no matter what the conditions are - there is always a Sandvik bar for maximum efficiency, safety, and economy.

Common for all Sandvik bars is our own super steel, the same elaborate design and the same uncompromising quality.

Our Roll-Top sprocket nose bars, include the Harvester, the Pro-Tip, the



PED FOR ANY PURPOSE.

Professional, the Semi and the Mini - all of them developed from the first sprocket nose in the world. The Sandvik Hard-Tip bar with stellite plated replaceable nose is our newest and completes the Sandvik guide bar family.

Most of the leading brands of chain saws can be equipped with the bars in the Sandvik Line. You can get them with a low kick nose radius or with standard nose. In lengths from 11" up to 36" in different pitches and gauges.



GUIDE BARS

A common feature of all our guide bars is that they have been designed in every detail to get the best cutting results with the highest possible durability. The bars are specially developed

for high chain speeds. We have come this far by only using the highest quality materials, our own special steel, and by manufacturing according to Sandvik's unique technical know-how.



ROLL-TOP HARVESTER™ – FOR LOGGING MACHINES. The Only guide bar on the market developed specifically for harvesting and processing machines.

The special contours and the thickness of the bars provide an extremely stable bar with less vibration.

Roll-Top Harvester bars exist in standard and high-speed versions. High-speed cutting is necessary, especially when cross-cutting, to

avoid wood-splitting. High-speed cutting requires extremely effective chain and bar lubrication. Sandvik has solved this problem with a completely new method whereby the oil is supplied to the nose sprocket through a closed channel. This method results in perfect lubrication without unnecessary oil-spillage. The high-speed guide bars are intended for chain speeds of 40 m/sec and more.

Orange identity screening on silver.



ROLL-TOP PROFESSIONAL™ – FOR PROFESSIONAL MANUAL LOGGING. Durable laminated sprocket nose bar with "Scandinavian" features. The sprocket nose design has a lot of advantages.

It reduces friction between the guide bar tip and the chain. Thus the engine power is used more effectively.

The sprocket nose design also makes it possible for the logger to use the top side of the guide bar, while it is just as efficient as the

underside. A quicker and more productive technique for both stab cutting, limbing and bucking can be used. The small radius of the sprocket nose means better safety for the logger and especially reduces the danger of kick-back.

Uniform groove gauge tolerances for precise chain fit and improved cutting stability over bar nose.

Deep heat-treated bar rails for durability and long wear. Sprocket replacement kit available.

Orange identity screening on silver.



ROLL-TOP PRO-TIP™ – FOR PROFESSIONAL MANUAL LOGGING. Pro-Tip is a new generation of bars with replaceable sprocket nose. The sprocket gives a number of features similar to those of Professional and the vital

benefits with the replaceable nose are several:

Staggered joint. The chain is always supported by one unbroken rail, when passing the joint – smoother chain passage, reduction of wear on both chain and bar.

lapping side plates keep the Pro-Tip nose securely anchored to the bar body. The side plates maintain their full width and strength – important at heavy load or “over-felling”.

Longer nose. The Pro-Tip replaceable nose is longer. It takes all the beating of chain hammering. Putting on a new Pro-Tip nose almost brings the bar back to factory fresh condition.

Super chain guidance. Conventional replace-

drive link thickness. Running a .050 and .058 gauge chain on such a tip means insufficient guidance of the drive link – with chain flutter and heavy wear. Therefore, each Sandvik Pro-Tip bar has the same groove gauge at the replaceable nose as on the bar body, .050, .058 or .063. All for a smoother chain passage and more efficient cutting.

Orange identity screening on silver.



HARD-TIP™ – FOR PROFESSIONAL MANUAL LOGGING. The new Hard-Tip guide bar from Sandvik has a stellite-plated, replaceable nose with exactly the same advantages as the Pro-Tip:

- Staggered joint
- A stronger joint
- Longer nose

- Better riveting
- Superior chain guidance

The Hard-Tip bar is for improved performance in abrasive conditions. Long-wearing stellite material is welded to nose. Of course a Hard-Tip bar can be fitted with a Pro-Tip replaceable sprocket nose, or vice versa.

Orange identity screening on silver.



ROLL-TOP SEMI™ – FOR SEMI PROFESSIONAL LOGGING. Designed for mid-size saws used by farmers or part-time professionals.

Semi is manufactured to the same principles as Roll-Top – the original sprocket nose bar:

- Patented nose sprocket design for smoother operation and longer life
- Laminated for light weight
- Tough spot-welding
- Low kick symmetrical nose

Orange identity screening on black.



ROLL-TOP MINI™ – FOR WEEKEND LOGGING. As all Sandvik sprocket nose bars Mini is manufactured according to the same principles as the original Roll-Top:

- Patented nose sprocket design for smoother

- operation and longer life
- Laminated for light weight
- Tough spot-welding
- Low kick symmetrical nose

White identity screening on black.

SPARE TIPS. All spare tips for Pro-Tip are made with 1.5 mm thick side plates and for drive link thicknesses of 1.27, 1.47 and 1.60 mm.

GUIDE BARS – PART NUMBER SYSTEM

This is how the Sandvik guide bar part-number system works.

Example: 11 A 3 13 - 56

└─┘
└─┘
└─┘
└─┘
└─┘

①
②
③
④
⑤

① Bar type:

- 1 = Professional
- 11 = Pro-Tip or Hard-Tip
- 3 = Semi
- 5 = Hobby

② Pitch, nose radius and number of teeth on sprocket:

- A = 1/4" – 13 teeth (nose radius 23.0 mm/.906")
- B = .325" – 10 teeth (nose radius 23.0 mm/.906")
- C = .370" (3/8" extended pitch) – 9 teeth (nose radius 23.0 mm/.906")
- F = 1/4" – 14 teeth (nose radius 25.4 mm/1")
- G = .325" – 11 teeth (nose radius 25.4 mm/1")
- H = 3/8" (.375") – 10 teeth (nose radius 25.4 mm/1")

- M = 3/8" – 11 teeth (nose radius 28.0 mm/1.102")
- N = .404" – 10 teeth (nose radius 28.0 mm/1.102")
- S = .404" – 11 teeth (nose radius 31 mm/1.220")
- T = 1/2" – 9 teeth (nose radius 31 mm/1.220")
- Z = Hard-Tip (nose radius 28.0 mm/1.102")

③ Gauge

- 3 = .050"/1.3 mm
- 5 = .058"/1.5 mm
- 6 = .063"/1.6 mm

④ Mounting configuration, group of chain saws:

- 00 = ALPINA 0-70
- 01 = ALPINA A-40
- 10 = DOLMAR CA, 122, CC, 153
- 11 = DOLMAR 118, 119
- 13 = ECHO CS60S, CS60IS, LOMBARD AL 42, POULAN 4200, 3400
- 19 = HOMELITE XL-100 series
- 20 = HOMELITE C-series, ALPINA P-90, P-120, ECHO CS-100
- 21 = HOMELITE "Universal mount" covering XL-100 series, C-series, and 450 group.

REPLACEMENT TOPS/NOSE SPROCKETS

PITCH	GAUGE	FOR PRO-TIP	FOR HARD-TIP	FOR PROFESSIONAL	
				Low kick nose	Standard nose
.325"	.050" 1,3 mm	562-11B3	-	-	-
.325"	.058" 1,5 mm	562-11B5	-	162-21	162-7
.325"	.063" 1,6 mm	-	-	-	162-16
3/8"	.050" 1,3 mm	562-11M3	562-11Z3	162-17	162-3
3/8"	.058" 1,5 mm	562-11M5	562-11Z5	162-15	162-4
3/8"	.063" 1,6 mm	562-11M6	562-11Z6	-	162-6
.404"	.058" 1,5 mm	562-11N5	562-11Z5	-	162-9
.404"	.063" 1,6 mm	562-11N6	562-11Z6	-	162-2

SAW BRAND MODELS	BAR LENGTH		PITCH	GAUGE		SPROCKET	PROFESSIONAL GUIDE BARS	
	INCH	DRIVE LINK COUNT	INCH	INCH	MM	NO OF TEETH	PRO-TIP	HARD-TIP
ALPINA A 40, P 41, P 45, P 55, P 65	14	61	.325	.050	1,3	7		
	16	65	.325	.050	1,3	7		
	18	72	.325	.050	1,3	7		
	19	68	3/8	.050	1,3	7		
070	18	65	3/8	.063	1,6	8	11M600-65	
	20	69	3/8	.063	1,6	8	11M600-69	
P90, P120	21	71	.404	.063	1,6	7		
DANARM 1-36	12	45	.370	.050	1,3	6		
	14	50	.370	.050	1,3	6		
	14	52	.370	.050	1,3	6		
55, 1-71, 70	16	60	3/8	.050	1,3	7	11M337-60	11Z337-60
	20	70	3/8	.050	1,3	7	11M337-70	11Z337-70
	24	81	3/8	.050	1,3	7	11M337-81	
	28	92	3/8	.050	1,3	7	11M337-92	
	16	60	3/8	.058	1,5	7	11M537-60	11Z537-60
	18	68	3/8	.058	1,5	7	11M537-68	
	20	70	3/8	.058	1,5	7	11M537-70	11Z537-70

1) Semi bars with pitch .325" will gradually during 1983 be switched over to a low-kick nose radius of 23.0 mm (.906"). They will have

2) These semi bars with pitch 3/8" have a low kick nose radius of 25.4 mm (1"). Letter H in Part No.

- 22 = HUSQVARNA 180, 360
- 23 = HUSQVARNA 140, 240
- 25 = JOBU LP4, LP5, LF50, PARTNER P-48
- 28 = JONSEREDS 60, 621, 90, OLEO-MAC 460
- 29 = JONSEREDS 50, 4S1
- 37 = MCCULLOCH Mac-10 series, DANARM 1-71-SS
- 43 = PARTNER R-16, P-85, F-65, SKIL 1633B, NORLETT
- 64 = STIHL 028, 031, 041
- 65 = STIHL 08, 051
- 66 = STIHL 070, 090
- 70 = FRONTIER, SKIL, LOMBARD (Mini bars), DANARM, JOBU, JONSEREDS, NORLETT, OPEM
- 71 = HOMELITE, REMINGTON, MCCULLOCH (Mini Bars)
- 72 = POULAN, ECHO, STIHL, SOLO (Mini bars), OLEO-MAC, LANDONI, SHINDAIWA, TANAKA, ZENOAH, DOLMAR, HITACHI, JONSERED
- 75 = OPEM
- 77 = SWEDISH STANDARD MOUNT (SMS) HUSQVARNA, JONSERED, PARTNER, DOLMAR, OLEO-MAC

⑤ Drive link count

PROFESSIONAL GUIDE BARS			SEMI PRO. GUIDE BARS	CONSUMER GUIDE BARS	NOTES
PROFESSIONAL			SEMI	MINI	
LOW KICK NOSE RADIUS	STANDARD NEW NO	STANDARD OLD NO			
			3G301-61 ¹		
			3B301-65 ¹		
			3B301-72 ¹		
			3M301-68		
			3M600-65		
		1S620-71	1568-65		
				5C370-45	
				5C370-50	
				5C370-52	
		1M537-60	1765-48	3M537-60	




3) Pro-Tip bars with pitch .325" will be available from November 1983. They will have a low-kick nose radius of 23.0 mm (.906").

4) These Pro-Tip bars will be available from January 1984.

SAW BRAND MODELS	BAR LENGTH		PITCH	GAUGE		SPROCKET	PROFESSIONAL GUIDE BARS	
	INCH	DRIVE LINK COUNT	INCH	INCH	MM	NO OF TEETH	PRO-TIP	HARD-TIP
DOLMAR 100, 104, 105, 108, 101, 103	12	45	.370	.050	1,3	6		
	14	52	.370	.050	1,3	6		
	16	57	.370	.050	1,3	6		
	13	56	.325	.058	1,5	6		
112, 114, 117, 118, 119 219E, 120	11	52	.325	.058	1,5	7/8	11B577-56 ³	
	13	56	.325	.058	1,5	7/8	11B577-64 ³	
	15	64	.325	.058	1,5	7/8	11B577-66 ³	
	16	66	.325	.058	1,5	7/8	11B577-68 ³	
	16	68	.325	.058	1,5	7/8	11B577-72 ³	
	18	72	.325	.058	1,5	7/8		
	15	56	3/8	.058	1,5	8		
	17	64	3/8	.058	1,5	8		
	18	68	3/8	.058	1,5	8		
CA, 122,123,133, KMS-4	17	64	3/8	.058	1,5	7	11M510-64	11Z510-64
	18	68	3/8	.058	1,5	7	11M510-68	
	21	72	3/8	.058	1,5	7	11M510-72	11Z510-72
PD, CC, CA, CT, 144, 152, 153	17	61	.404	.063	1,6	8	11N610-61	11Z610-61
	21	70	.404	.063	1,6	8	11N610-70	11Z610-70
	33	100	.404	.063	1,6	8	11N610-100	
ECHO (KIORITZ) 280, 290, 301, 302, 304 315, 330, 351, 400, 440	12	45	.370	.050	1,3	6		
	12	47	.370	.050	1,3	6		
	14	52	.370	.050	1,3	6		
	14	53	.370	.050	1,3	6		
	16	57	.370	.050	1,3	6		
	13	56	.325	.058	1,5	7		
CS60, CS601-602, CS701-702, CS 451-452, CS500, CS650, CS750, CS900	16	60	3/8	.050	1,3	7	11M313-60	11Z313-60
	20	70	3/8	.050	1,3	7	11M313-70	11Z313-70
	24	81	3/8	.050	1,3	7	11M313-81	
CS100	21	71	.404	.063	1,6	7		
FRONTIER Mark I, Mark II	12	45	.370	.050	1,3	6		
	14	50	.370	.050	1,3	6		
	14	52	.370	.050	1,3	6		
HITACHI CS280, CS350	12	45	.370	.050	1,3	6		
	14	52	.370	.050	1,3	6		
	16	57	.370	.050	1,3	6		
HOMELITE XL, XL-2, Super 2, XEL	12	48	.370	.050	1,3	6		
	14	53	.370	.050	1,3	6		
XL-100 series, EZ, AO, 150AO 350, 360, XL12, XL AO, XL450-925, VI995, VI123-125, XL-Mini, Bars for 3/8" studs. Use clips 163-4 for 5/16" studs.	16	59	3/8	.050	1,3	7	11M321-60	11Z321-60
	16	60	3/8	.050	1,3	7	11M321-70	11Z321-70
	20	70	3/8	.050	1,3	7	11M321-81	11Z321-81
	24	81	3/8	.050	1,3	7	11M321-92	
	28	92	3/8	.050	1,3	7	11M321-105	
	32	105	3/8	.050	1,3	7		
XL-series, EZ, AO, 150AO, 350, 360	16	59	3/8	.050	1,3	7		
C-series, XP-series, 2000, 2100, ZIP	21	71	.404	.063	1,6	7		
HUSQVARNA Husky 34,35	12	45	.370	.050	1,3	6		
	14	50	.370	.050	1,3	6		
	14	52	.370	.050	1,3	6		
40 Practica, Suitable also to Promodels 140, 240 cont.	13	56	.325	.058	1,5	7/8		
	15	64	.325	.058	1,5	7/8		

1) Semi bars with pitch .325" will gradually during 1983 be switched over to a low-kick nose radius of 23.0 mm (.906"). They will have letter B in Part No.

2) These semi bars with pitch 3/8" have a low kick nose radius of 25.4 mm (1"). Letter H in Part No.

SAW BRAND MODELS	BAR LENGTH		PITCH	GAUGE		SPROCKET	PROFESSIONAL GUIDE BARS			
	INCH	DRIVE LINK COUNT	INCH	INCH	MM	NO OF TEETH	PRO-TIP	HARD-TIP		
HUSQVARNA cont. 50 Rancher, 40, 44, 340, 444, 133, 234	11	52	.325	.058	1,5	7/8				
	13	56	.325	.058	1,5	7/8	11B577-56 ³			
	15	64	.325	.058	1,5	7/8	11B577-64 ³			
	16	66	.325	.058	1,5	7/8	11B577-66 ³			
	16	68	.325	.058	1,5	7/8	11B577-68 ³			
	18	72	.325	.058	1,5	7/8	11B577-72 ³			
	15	64	.325	.050	1,3	7/8	11B377-64 ³			
	16	66	.325	.050	1,3	7/8	11B377-66 ³			
61, 65, 70, 77, 160, 161, 162, 260, 263 163, 180, 181, 280, 380, 480, 185, 285, 1100, 2100	18	72	.325	.050	1,3	7/8	11B377-72 ³			
	13	52	3/8	.058	1,5	7/8				
	15	56	3/8	.058	1,5	7/8				
	16	60	3/8	.058	1,5	7/8	11M522-60	11Z522-60		
	18	68	3/8	.058	1,5	7/8	11M522-68	11Z522-68		
	20	70	3/8	.058	1,5	7/8	11M522-70			
	20	72	3/8	.058	1,5	7/8	11M522-72	11Z522-72		
	24	80	3/8	.058	1,5	7/8	11M522-80			
	28	92	3/8	.058	1,5	7/8	11M522-92			
	32	110	3/8	.058	1,5	7/8	11M522-110			
	16	60	3/8	.050	1,3	7/8	11M322-60	11Z322-60		
	18	68	3/8	.050	1,3	7/8	11M322-68	11Z322-68		
	20	72	3/8	.050	1,3	7/8	11M322-72	11Z322-72		
	32	100	.404	.058	1,5	7/8	11N522-100			
	36	108	.404	.058	1,5	7/8	11N522-108			
	32	100	.404	.063	1,6	7/8	11N622-100			
	36	108	.404	.063	1,6	7/8	11N622-108			
	JO-BU SL2, SL21	12	45	.370	.050	1,3	6			
		14	50	.370	.050	1,3	6			
		14	52	.370	.050	1,3	6			
SL3, SL35		12	45	.370	.050	1,3	6			
		14	52	.370	.050	1,3	6			
		16	57	.370	.050	1,3	6			
LP4, LP40, LP5 LP50, LP6		13	56	.325	.058	1,5	8			
		15	64	.325	.058	1,5	8			
949		11	52	.325	.058	1,5	7/8			
		13	56	.325	.058	1,5	7/8	11B577-56 ³		
	15	64	.325	.058	1,5	7/8	11B577-64 ³			
	16	66	.325	.058	1,5	7/8	11B577-66 ³			
	16	68	.325	.058	1,5	7/8	11B577-68 ³			
	18	72	.325	.058	1,5	7/8	11B577-72 ³			
JONSEREDS Baby Saw, M36 36AV, M361	12	45	.370	.050	1,3	6				
	14	50	.370	.050	1,3	6				
	14	52	.370	.050	1,3	6				
	Comet, Lil-John, M35 Mini	12	45	.370	.050	1,3	6			
		14	52	.370	.050	1,3	6			
		16	57	.370	.050	1,3	6			
	45, 451, 452, 50, 51, 52, 521 410, 420, 510, 520 49, 490	11	52	.325	.058	1,5	7			
		13	56	.325	.058	1,5	7/8	11B577-56 ³		
		15	64	.325	.058	1,5	7/8	11B577-64 ³		
		16	66	.325	.058	1,5	7/8	11B577-66 ³		
16		68	.325	.058	1,5	7/8	11B577-68 ³			
18		72	.325	.058	1,5	7/8	11B577-72 ³			
16		60	3/8	.058	1,5	8				
20		71	3/8	.058	1,5	8				
15		64	.325	.050	1,3	7/8	11B377-64 ³			
16		66	.325	.050	1,3	7/8	11B377-66 ³			
cont.	18	72	.325	.050	1,3	7/8	11B377-72 ³			

1) Semi bars with pitch .325" will gradually during 1983 be switched over to a low-kick nose radius of 23.0 mm (.906"). They will have letter B in Part No.

2) These semi bars with pitch 3/8" have a low kick nose radius of 25.4 mm (1"). Letter H in Part No.

PROFESSIONAL

SEMI-PRO GUIDE BARS

CONSUMER GUIDE BARS

NOTES

PROFESSIONAL

LOW KICK NOSE RADIUS

STANDARD NEW NO

STANDARD OLD NO


SEMI

MINI

PROFESSIONAL			SEMI-PRO GUIDE BARS	CONSUMER GUIDE BARS	NOTES
LOW KICK NOSE RADIUS	STANDARD NEW NO	STANDARD OLD NO	SEMI	MINI	
	1G577-52				
1B577-56	1G577-56		3B577-56 ¹		
1B577-64	1G577-64		3B577-64 ¹		
1B577-66			3B577-66 ¹		
1B577-68			3B577-68 ¹		
1B577-72	1G577-72		3B577-72 ¹		
	1M522-52	1769-40	3M522-52		
	1M522-56	1769-44	3M522-56		
	1M522-60	1769-48	3M522-60		
	1M522-68	1769-55	3M522-68		
	1M522-72	1769-59			
				5C370-45	
				5C370-50	
				5C370-52	
				5C372-45	
				5C372-52	
				5C372-57	
	1G525-56	3292-39			
	1G525-64	3292-45			
	1G577-52				
1B577-56	1G577-56		3B577-56 ¹		
1B577-64	1G577-64		3B577-64 ¹		
1B577-66			3B577-66 ¹		
1B577-68			3B577-68 ¹		
1B577-72	1G577-72		3B577-72 ¹		
				5C370-45	
				5C370-50	
				5C370-52	
				5C372-45	
				5C372-52	
				5C372-57	
	1G577-52				
1B577-56	1G577-56		3B577-56 ¹		
1B577-64	1G577-64		3B577-64 ¹		
1B577-66			3B577-66 ¹		
1B577-68			3B577-68 ¹		
1B577-72	1G577-72		3B577-72 ¹		
	1M529-60	1793-47			
	1M529-71	1793-57			

3) Pro-Tip bars with pitch .325" will be available from November 1983. They will have a low-kick nose radius of 23.0 mm (.906").

4) These Pro-Tip bars will be available from January 1984.

SAW BRAND MODELS	BAR LENGTH		PITCH	GAUGE		SPROCKET	PROFESSIONAL GUIDE BARS		
	INCH	DRIVE LINK COUNT	INCH	INCH	MM	NO OF TEETH	PRO-TIP	HARD-TIP	
JONSEREDS cont. 60, 601, 62, 621, 66, 70, 75, 751, 80, 801, 90, 910, 920, 1020, 110, 111	13	52	3/8	.058	1,5	7			
	15	56	3/8	.058	1,5	7			
	16	60	3/8	.058	1,5	7	11M528-60	11Z528-60	
	18	68	3/8	.058	1,5	7	11M528-68	11Z528-68	
	20	70	3/8	.058	1,5	7	11M528-70	11Z528-70	
	20	72	3/8	.058	1,5	7	11M528-72	11Z528-72	
	24	80	3/8	.058	1,5	7	11M528-80		
	28	92	3/8	.058	1,5	7	11M528-92		
	32	110	3/8	.058	1,5	7	11M528-110		
	32	94	.404	.063	1,6	7	11N628-94 ⁴		
	36	107	.404	.063	1,6	7	11N628-107 ⁴		
	16	60	3/8	.050	1,3	7	11M328-60	11Z328-60	
	20	70	3/8	.050	1,3	7	11M328-70	11Z328-70	
	24	80	3/8	.050	1,3	7	11M328-80	11Z328-80	
	28	90	3/8	.050	1,3	7	11M328-90 ⁴		
32	107	3/8	.050	1,3	7	11M328-107 ⁴			
630	13	52	3/8	.058	1,5	7/8			
	15	56	3/8	.058	1,5	7/8			
	16	60	3/8	.058	1,5	7/8	11M522-60	11Z522-60	
	18	68	3/8	.058	1,5	7/8	11M522-68	11Z522-68	
	20	70	3/8	.058	1,5	7/8	11M522-70		
	20	72	3/8	.058	1,5	7/8	11M522-72	11Z522-72	
	24	80	3/8	.058	1,5	7/8	11M522-80		
	28	92	3/8	.058	1,5	7/8	11M522-92		
	32	110	3/8	.058	1,5	7/8	11M522-110		
	16	60	3/8	.050	1,3	7/8	11M322-60	11Z322-60	
	18	68	3/8	.050	1,3	7/8	11M322-68	11Z322-68	
	20	72	3/8	.050	1,3	7/8	11M322-72	11Z322-72	
LOMBARD Pony, Little lightning series, 2500, 2600, 2700, 2800, 2900 AP-22, AP-24 AL-series, Commango-series, Lightning-series, CLP-series, AP-series, CS3500-series	12	45	.370	.050	1,3	6			
	14	50	.370	.050	1,3	6			
	14	52	.370	.050	1,3	6			
	16	59	3/8	.050	1,3	7	-		
	16	60	3/8	.050	1,3	7	11M313-60	11Z313-60	
	20	70	3/8	.050	1,3	7	11M313-70	11Z313-70	
24	81	3/8	.050	1,3	7	11M313-81	11Z313-81		
MCCULLOCH MM 25, 30, 35, Mac 110, 120 130, PM6, 310, 330, 340, 510 All, 10-series, PM10-10 PM555, 570, 610, 650, 700, 800, 850, PM55, 60, SP60, 70, 80 81, CP55, 70	12	44	.370	.050	1,3	6			
	14	49	.370	.050	1,3	6			
	16	60	3/8	.050	1,3	7	11M337-60	11Z337-60	
	20	70	3/8	.050	1,3	7	11M337-70	11Z337-70	
	24	81	3/8	.050	1,3	7	11M337-81		
	28	92	3/8	.050	1,3	7	11M337-92		
	16	60	3/8	.058	1,5	7	11M537-60	11Z537-60	
	18	68	3/8	.058	1,5	7	11M537-68		
	20	70	3/8	.058	1,5	7	11M537-70	11Z537-70	
	20	70	3/8	.058	1,5	7			
NORLETT 1602, 1618	12	45	.370	.050	1,3	6			
	14	50	.370	.050	1,3	6			
1633	13	52	3/8	.058	1,5	7			
	15	56	3/8	.058	1,5	7			
	16	60	3/8	.058	1,5	7			
	18	64	3/8	.058	1,5	7			
OLEO-MAC 233, 234, 240, 244 cont.	12	45	.370	.050	1,3	6			
	14	50	.370	.050	1,3	6			
	16	57	.370	.058	1,3	6			
	13	56	.325	.058	1,5	6			

1) Semi bars with pitch .325" will gradually during 1983 be switched over to a low-kick nose radius of 23.0 mm (.906"). They will have letter B in Part No.

2) These semi bars with pitch 3/8" have a low kick nose radius of 25.4 mm (1"). Letter H in Part No.

SAW BRAND MODELS	BAR LENGTH		PITCH	GAUGE		SPROCKET	PROFESSIONAL GUIDE BARS	
	INCH	DRIVE LINK COUNT	INCH	INCH	MM	NO OF TEETH	PRO-TIP	HARD-TIP
OLEO-MAC cont. 250, 251, 252, 254, 260, 271, 272, 284, 350, 355, 460, 480, 481, 482	15	56	3/8	.058	1,5	7		
	16	60	3/8	.058	1,5	7	11M528-60	11Z528-60
	18	68	3/8	.058	1,5	7	11M528-68	11Z528-68
	20	70	3/8	.058	1,5	7	11M528-70	11Z528-70
	20	72	3/8	.058	1,5	7	11M528-72	11Z528-72
	24	80	3/8	.058	1,5	7	11M528-80	
	28	92	3/8	.058	1,5	7	11M528-92	
	32	110	3/8	.058	1,5	7	11M528-110	
	16	60	3/8	.050	1,3	7	11M328-60	11Z328-60
	20	70	3/8	.050	1,3	7	11M328-70	11Z328-70
	24	80	3/8	.050	1,3	7	11M328-80	11Z328-80
	28	90	3/8	.050	1,3	7	11M328-90 ⁴	
	32	107	3/8	.050	1,3	7	11M328-107	
945, 950	11	52	.325	.058	1,5	7		
	13	56	.325	.058	1,5	7	11B577-56 ³	
	15	64	.325	.058	1,5	7	11B577-64 ³	
	16	66	.325	.058	1,5	7	11B577-66 ³	
	16	68	.325	.058	1,5	7	11B577-68 ³	
	18	72	.325	.058	1,5	7	11B577-72 ³	
	15	64	.325	.050	1,3	7/8	11B377-64 ³	
	16	66	.325	.050	1,3	7/8	11B377-66 ³	
18	72	.325	.050	1,5	7/8	11B377-72 ³		
140	12	45	.370	.050	1,3	6		
	14	52	.370	.050	1,3	6		
145, 157, 155	16	60	3/8	.058	1,5	7		
	18	64	3/8	.058	1,5	7		
	20	68	3/8	.058	1,5	7		
PARTNER Mini P, PA, P2, P3 1612, 1613, 1614, 1616	12	45	.370	.050	1,3	6		
	14	50	.370	.050	1,3	6		
	14	52	.370	.050	1,3	6		
P500, P5000, P50, 51	11	52	.325	.058	1,5	7		
	13	56	.325	.058	1,5	7/8	11B577-56 ³	
	15	64	.325	.058	1,5	7/8	11B577-64 ³	
	16	66	.325	.058	1,5	7/8	11B577-66 ³	
	16	68	.325	.058	1,5	7/8	11B577-68 ³	
	18	72	.325	.058	1,5	7/8	11B577-72 ³	
	15	64	.325	.050	1,3	7/8	11B377-64 ³	
	16	66	.325	.050	1,3	7/8	11B377-66 ³	
18	72	.325	.050	1,5	7/8	11B377-72 ³		
*P48, P49	13	56	.325	.058	1,5	7/8		
	15	64	.325	.058	1,5	7/8		
R16-23, R30, 35, 40 417,420, 421, 422, 517,522 523, 435, 440, P100 P/F 55/65-series P70, P85	13	52	3/8	.058	1,5	7		
	15	56	3/8	.058	1,5	7		
	16	60	3/8	.058	1,5	7	11M543-60	11Z543-60
	18	64	3/8	.058	1,5	7	11M543-64	11Z543-64
	19	68	3/8	.058	1,5	7		
	20	70	3/8	.058	1,5	7	11M543-70	
	20	72	3/8	.058	1,5	7	11M543-72	
	28	92	3/8	.058	1,5	7	11M543-92	
	32	110	3/8	.058	1,5	7	11M543-110	
	36	119	3/8	.058	1,5	7	11M543-119 ⁴	
	18	60	.404	.063	1,6	7		
	22	70	.404	.063	1,6	7		
	32	100	.404	.063	1,6	7	11M643-100	
36	108	.404	.063	1,6	7	11M643-108 ⁴		
POULAN M20 25-series cont.	12	45	.370	.050	1,3	6		
	14	52	.370	.050	1,3	6		
	16	57	.370	.050	1,3	6		

1) Semi bars with pitch .325" will gradually through 1983 be switched over to a low kick nose radius of 25.4

2) These semi bars with pitch 3/8" have a low kick nose radius of 25.4

PROFESSIONAL GUIDE BARS

GUIDE BARS

GUIDE BARS

NOTES

PROFESSIONAL

LOW KICK
NOSE RADIUS

STANDARD
NEW NO

STANDARD
OLD NO

SEMI

MINI

1M528-56
1M528-60
1M528-68
1M528-72

1770-44
1770-48
1770-55
2670-59
1770-59

3M528-56
3M528-60
3M528-68

1H528-70

1G577-52

1B577-56
1B577-64
1B577-66
1B577-68
1B577-72

1G577-56
1G577-64
1G577-72

3B577-56¹
3B577-64¹
3B577-66¹
3B577-68¹
3B577-72¹

5C370-45
5C370-52

3M575-60
3M575-64
3M575-68

5C370-45
5C370-50
5C370-52

1G577-52
1B577-56
1B577-64
1B577-66
1B577-68
1B577-72

1G577-56
1G577-64
1G577-72

3B577-56¹
3B577-64¹
3B577-66¹
3B577-68¹
3B577-72¹




1G525-56 3292-39
1G525-64 3292-45
1M543-52 1778-40
1M543-56 1778-44
1M543-60 1778-48
1M543-64 1778-51
1M543-68 1778-55
1M543-72 1778-59

1S643-60 1578-53
1S643-70 1578-63

5C372-45
5C372-52
5C372-57

3) Pro-Tip bars with pitch .325" will be available from November 1983. They will have a low-kick nose radius of 23.0 mm (.906").

4) These Pro-Tip bars will be available from January 1984.

SAW BRAND MODELS	BAR LENGTH		PITCH	GAUGE		SPROCKET	PROFESSIONAL GUIDE BARS			
	INCH	DRIVE LINK COUNT	INCH	INCH	MM	NO OF TEETH	PRO-TIP	HARD-TIP		
POULAN cont. 200-series, 300-series, 400-series 3400, 3700, 4200, 5200	16	59	3/8	.050	1,3	7				
	16	60	3/8	.050	1,3	7	11M313-60	11Z313-60		
	17	61	3/8	.050	1,3	7				
	20	70	3/8	.050	1,3	7	11M313-70	11Z313-70		
	24	81	3/8	.050	1,3	7	11M313-81	11Z313-81		
	5500, 6000	17	61	.404	.063	1,6	7	11M610-61		11Z610-61
	21	70	.404	.063	1,6	7	11M610-70	11Z610-70		
	33	100	.404	.063	1,6	7	11M610-100			
SHINDAIWA 305, 405, 350, 415, 450 416, 451, 500	12	45	.370	.050	1,3	6				
	14	52	.370	.050	1,3	6				
	16	57	.370	.050	1,3	6				
	13	56	.325	.058	1,5	7/8				
SKIL 1601, 1602, 1603, 1612, 1614 1616, 1712 1620	12	45	.370	.050	1,3	6				
	14	50	.370	.050	1,3	6				
	12	45	.370	.050	1,3	6				
	14	52	.370	.050	1,3	6				
	13	56	.325	.058	1,5	7/8				
STIHL 009, 010, 011, 015, 020 E10	12	44	.370	.050	1,3	6				
	15	50	.370	.050	1,3	6				
	16	55	.370	.050	1,3	6				
	13	56	.325	.058	1,5	7/8				
024, 028, 030, 031, 032 038, 040, 041, 042, 045, 048 056, E15	13	56	.325	.063	1,6	7				
	15	63	.325	.063	1,6	7				
	18	74	.325	.063	1,6	7				
	15	56	3/8	.063	1,6	7				
	16	60	3/8	.063	1,6	7		11Z664-60		
	18	66	3/8	.063	1,6	7		11Z664-66		
	20	72	3/8	.063	1,6	7		11Z664-72		
	16	60	3/8	.050	1,3	7	11M364-60	11Z364-60		
	20	72	3/8	.050	1,3	7	11M364-72	11Z364-72		
	25	84	3/8	.050	1,3	7	11M364-84 ⁴	11Z364-84		
	28	91	3/8	.050	1,3	7	11M364-91 ⁴			
	32	105	3/8	.050	1,3	7	11M364-105 ⁴			
36	114	3/8	.050	1,3	7	11M364-114 ⁴				
07, 08, 050, 051, 075, 076, E30	16	62	3/8	.063	1,6	7				
	17	60	.404	.063	1,6	7	11N665-60 ⁴	11Z665-60		
	21	68	.404	.063	1,6	7	11N665-68 ⁴	11Z665-68		
	25	80	.404	.063	1,6	7	11N665-80 ⁴	11Z665-80		
	30	91	.404	.063	1,6	7	11N665-91 ⁴	11Z665-91		
	36	104	.404	.063	1,6	7	11N665-104 ⁴	11Z665-104		
TANAKA (TAS) 355, 405	12	45	.370	.050	1,3	6				
	14	52	.370	.050	1,3	6				
	16	57	.370	.050	1,3	6				
	13	56	.325	.058	1,5	7/8				
505	15	56	.370	.058	1,5	7				
	16	60	.370	.058	1,5	7				
	18	64	.370	.058	1,5	7				
	20	72	.370	.058	1,5	7				
ZENOAH 320, 380	12	45	.370	.050	1,3	6				
	14	52	.370	.050	1,3	6				
	16	57	.370	.050	1,3	6				
	13	56	.325	.058	1,5	7/8				

1) Semi bars with pitch .325" will gradually during 1983 be switched over to a low-kick nose radius of 23.0 mm (.906"). They will have letter B in Part No.

2) These semi bars with pitch 3/8" have a low kick nose radius of 25.4 mm (1"). Letter H in Part No.

SMOOTH AND EFFECTIVE FILING.

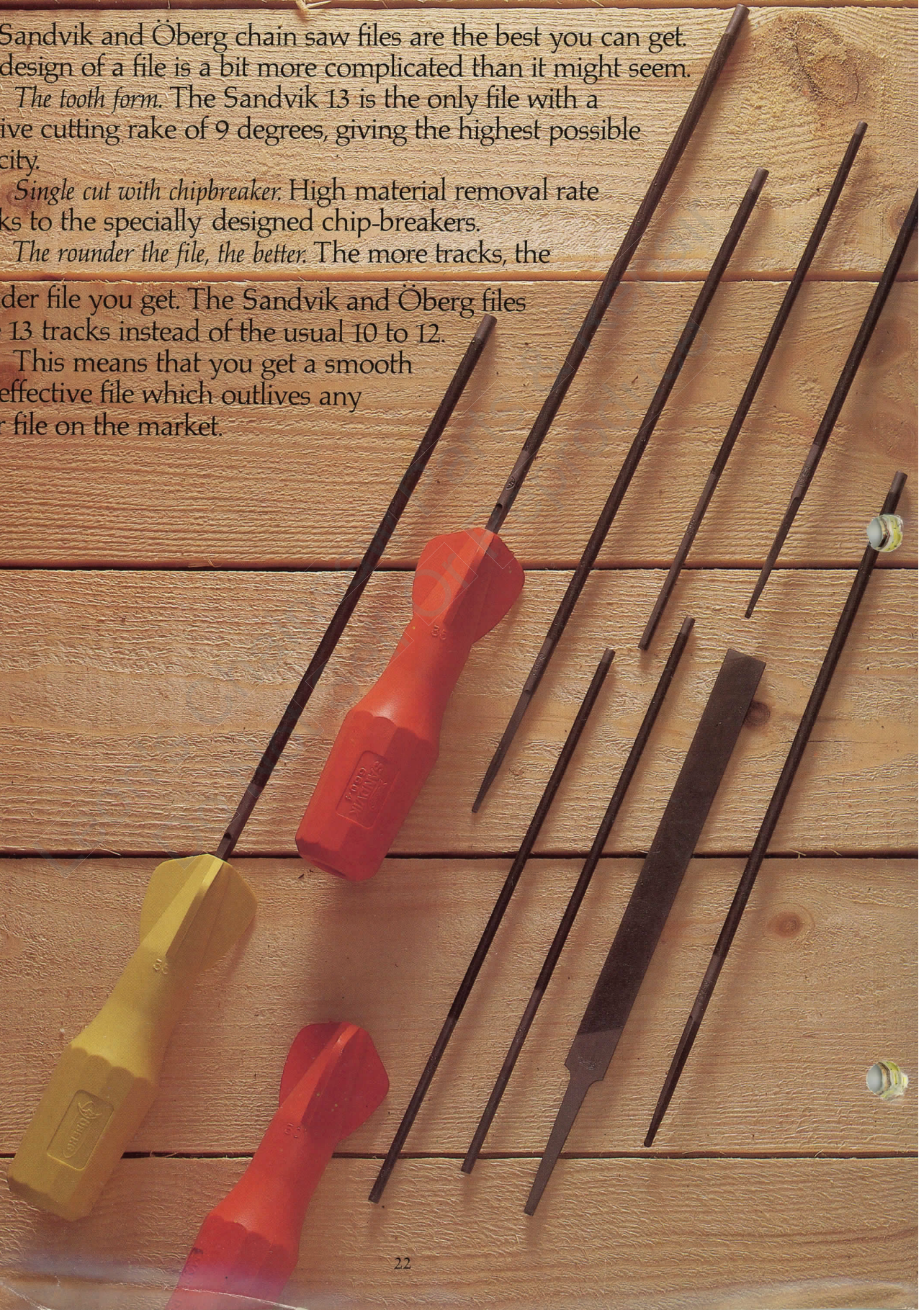
The Sandvik and Öberg chain saw files are the best you can get. The design of a file is a bit more complicated than it might seem.

The tooth form. The Sandvik 13 is the only file with a positive cutting rake of 9 degrees, giving the highest possible capacity.

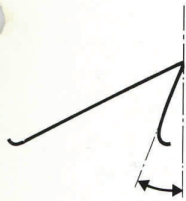
Single cut with chipbreaker. High material removal rate thanks to the specially designed chip-breakers.

The rounder the file, the better. The more tracks, the rounder file you get. The Sandvik and Öberg files have 13 tracks instead of the usual 10 to 12.

This means that you get a smooth and effective file which outlives any other file on the market.



FILES. Some fundamental facts on the design of our chain-saw files, and why they are so much better than all others on the market.



Positive cutting rake angle



Negative cutting rake angle

CUTTING RAKE ANGLE. The Sandvik 13 Special has a positive cutting rake angle of $+9^\circ$. This gives the highest possible cutting capacity.

Competing files have either a negative cutting rake angle or a positive angle that is too small and results in much poorer cutting performance.

If the file has a negative cutting rake angle, serious risk is involved of the chips rolling around in the chip space. And this obviously prevents the free flow of chips.



A positive cutting rake angle causes the chips to be "ejected" from the chip space.



If the cutting rake angle is negative, the chips will roll around in the chip space.

On the other hand, if the cutting rake angle is positive, the chips will be "ejected" from the chip space.

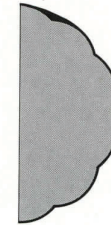
NUMBER OF TRACKS. You will note that our file is cut in tracks, running in parallel helices around the file.

The files of our competitors are produced in the same way. But an important difference is that they usually have between

10 and 12 tracks, whereas the Sandvik 13 Special has 13 tracks. The benefit this gives is illustrated by the figure below.



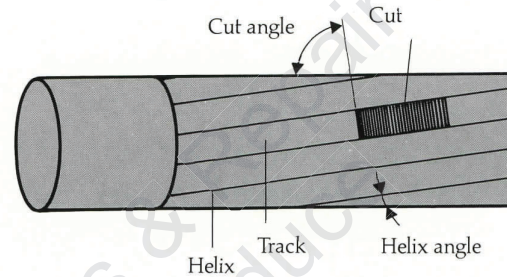
13 tracks



11 tracks

Thirteen tracks simply produce a file with a more truly circular cross-section, and this results in a smoother surface of the filed saw chain.

In addition, we achieve a more uniform tooth height, which also contributes to a better finish.



THE CUT. The number of teeth per unit length determines the degree of coarseness of the file. Few teeth per unit length give a coarse file, whereas many teeth produce a smooth file.

The cut is always measured in the longitudinal direction of the file, in accordance with ISO standards.

The Sandvik 13 Special has 22 teeth/cm. Most competing files have fewer teeth. On the Sandvik 13 Special, we have solved the problem of chip flow somewhat differently.

BRIEF SUMMARY: High removal rate. Long life. Smooth action. Low feed pressure. Excellent finish. Sharp bite.

ROUND FILE

DIMENSION	SANDVIK		ÖBERG	
	36-pack	12-pack (dozen)	36-pack (display)	2-pack
6" x 1/8"	168-6-3,2-36p	168-6-3,2-12p	168-6-3,2-36p-Öberg	168-6-3,2-2p-Öberg
6" x 9/64"	168-6-3,5-36p	168-6-3,5-12p	168-6-3,5-36p-Öberg	168-6-3,5-2p-Öberg
8" x 5/32"	168-8-4,0-36p	168-8-4,0-12p	168-8-4,0-36p-Öberg	168-8-4,0-2p-Öberg
8" x 11/64"	168-8-4,4-36p	168-8-4,4-12p	168-8-4,4-36p-Öberg	168-8-4,4-2p-Öberg
8" x 3/16"	168-8-4,8-36p	168-8-4,8-12p	168-8-4,8-36p-Öberg	168-8-4,8-2p-Öberg
8" x 13/64"	168-8-5,2-36p	168-8-5,2-12p	168-8-5,2-36p-Öberg	168-8-5,2-2p-Öberg
8" x 7/32"	168-8-5,5-36p	168-8-5,5-12p	168-8-5,5-36p-Öberg	168-8-5,5-2p-Öberg
8" x 1/4"		168-8-6,3-12p		

FLAT FILE

DIMENSION	SANDVIK		ÖBERG	
	12-pack	S-pack	12-pack	S-pack
6" x 16 x 2,5	166-6-16-2,5-12p	166-6-16-2,5-1p	4148063	41480631
6" x 16 x 2,7				
8" x 21 x 3,2	167-8-21-3,2-12p			

PACKING.

Round files-dozen pack = 12 pcs to a box master carton of 25 dozen (300 pcs).

Round files-display pack = 3 pcs in a 3-pack for retail sales
12 pcs of 3-packs (36 pcs, 3 doz) in a practical display box.

Master carton of 36 dozen (432 pcs)

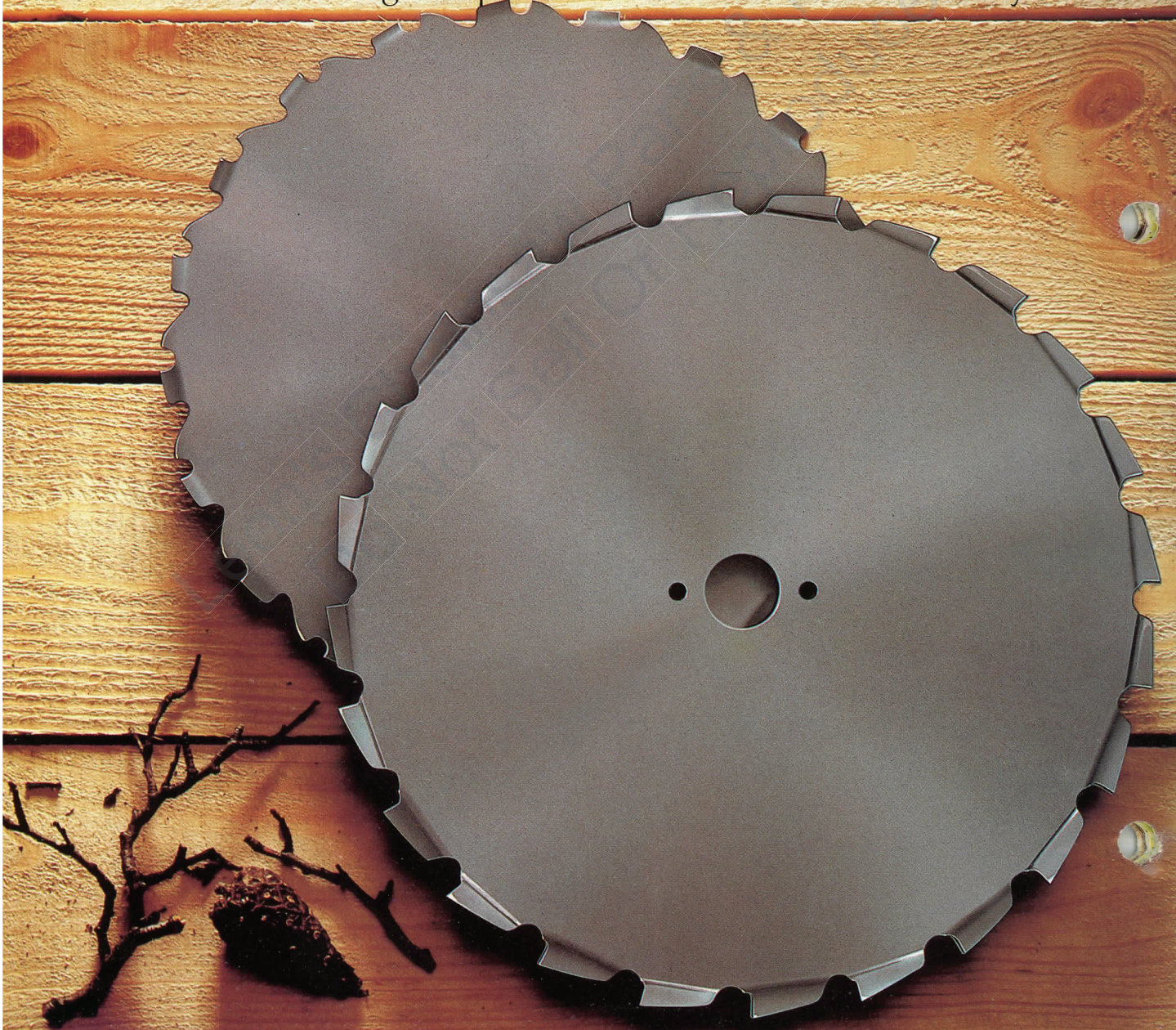
Round files-twin pack blister = 2 pcs

Flat files-dozen pack = 12 pcs to a box

Flat files-single pack = 12 pcs in a plastic bag to a box

FASTER CUTTING AND LESS VIBRATIONS.

The Sandvik Line contains a complete range of first class brush cutter blades for professional clearing. There is a Sandvik heavy duty blade for most brands of brush cutters. The MAXI-toothing for the most demanding conditions with thick undergrowth, for fast and efficient cutting. The XRT-toothing which is based on the saw chain principle. With depth gauges reducing vibrations and kick-backs, for smoother cutting. All the Sandvik brush cutter blades can easily be refilled without having to be removed from the saw. This means that you need fewer blades out in the forest, and you don't have to send the blade away for grinding. Thanks to the wide, short and pre-set teeth, the Sandvik brush cutter blades withstand greater punishment and harder use than ordinary blades.



BRUSH CUTTER BLADES. MAXI – designed for rough clearing. Higher cutting capacity than standard blades thanks to larger chip clearance. Longer teeth give longer life.

XRT – designed for lighter professional clearing as well as underbrush and thickets. Low kick-back tendency. Smoother operation with less vibration. Easy to service.

MAXI

BRUSHCUTTER	DIAMETER MM	THICKNESS MM	NUMBER OF TEETH	CENTRE HOLE DIAMETER MM	PART NO.
JO-BU COMPANION	225	1.8	24	20.0	1824-225-1.8-20-MAXI24
	200	1.5	22	20.0	1824-200-1.5-20-MAXI22
HUSQVARNA 140R HUSQVARNA 165R	200	1.5	22	20.0	1824-200-1.5-20-MAXI22
	225	1.8	24	20.0	1824-225-1.8-20-MAXI24
	200	1.5	22	20.0	1824-200-1.5-20-MAXI22
PARTNER B173	225	1.8	24	20.0	1824-225-1.8-20-MAXI24
	200	1.5	22	20.0	1824-200-1.5-20-MAXI22
JONSEREDS RS38 JONSEREDS RS52E	200	1.5	22	20.0	1824-200-1.5-20-MAXI22
	225	1.8	24	20.0	1824-225-1.8-20-MAXI24

XRT

BRUSHCUTTER	DIAMETER MM	THICKNESS MM	NUMBER OF TEETH	CENTRE HOLE DIAMETER MM	PART NO.
JO-BU COMPANION	225	1.8	22	20.0	1823-225-1.8-20-XRT22
	200	1.5	20	20.0	1823-200-1.5-20-XRT20
HUSQVARNA 140R HUSQVARNA 165R	200	1.5	20	20.0	1823-200-1.5-20-XRT20
	225	1.8	22	20.0	1823-225-1.8-20-XRT22
	200	1.5	20	20.0	1823-200-1.5-20-XRT20
PARTNER B173	225	1.8	22	20.0	1823-225-1.8-20-XRT22
	200	1.5	20	20.0	1823-200-1.5-20-XRT20
JONSEREDS RS38 JONSEREDS RS52E	200	1.5	20	20.0	1823-200-1.5-20-XRT20
	225	1.8	22	20.0	1823-225-1.8-20-XRT22
STIHL FS150, FS151 FS200AV, FS202, FS08, FS410AV	225	1.8	22	20.0 (+2 pin holes)	STIHL-225-1.8-20-XRT22
FUJI ROBIN, KIORITZ HITACHI AND OTHER JAPANESE BRANDS	225	1.8	22	25.4 (1")	1823-255-1.8-25.4-XRT22

For filing 1823 XRT use a round file 8" × 7/32" (5.5 mm). For correct filing use Sandvik 265 filing gauge. Filing angle 20°, cutting angle 90°, depth gauge 0.9 mm.

EDGING SERVICE TOOLS.

No chain saw bar, chain or brush cutter blade works better than the service you give it. To keep it in shape you need reliable tools. The Sandvik Line contains necessary aids for the professional logger. All of them designed for simple and effective handling.



FILE HOLDER. Precision cast in aluminium with integrated guide lines for filing angles of 30° and 35°. The file holder has an extension which gives a firmer grip and makes two-handed filing easier. The extension is inclined at a 10° angle which also enables it to be used as a guide for filing chisel chains.

Supplied complete with file and shaft in a plastic package and mounting tab for hanging on a wall.

Range	
141-3	Supplied complete with 7/32" (5.5 mm) file with plastic handle.
141-4	Supplied complete with 9/32" (4.0 mm) file with plastic handle.
141-5	Supplied with ϕ -file 8"-3/16" (4.8 mm) also suitable for ϕ -file 8"-11/64" (4.4 mm)
141-6	Supplied with ϕ -file 8"-7/32" (5.5 mm) also suitable for ϕ -file 8"-13/64" (5.2 mm)
141-7	Supplied with ϕ -file 6"-5/32" (4.0 mm) also suitable for ϕ -file 6"-9/64" (3.5 mm)

COMBINATION-TOOL. To simplify the replacement of the nose sprocket.

With this tool and a hammer all the work involved in nose sprocket replacement and straightening the guide bar can be carried out quickly and easily. The tool is packed in a cardboard box.
Sandvik 235.

PUNCH. Spare part for tool 235.
Sandvik 235-1.

GREASE GUN. In steel. For greasing the nose wheel bearing of sprocket nose guide bars. Individually carded. Five cards to a carton.
Sandvik 163.

FILE HANDLE. Equipped with "wings" showing three different filing angles.

20° – filing angle of brush cutter blades.

30 and 35° – filing angles for saw chains.

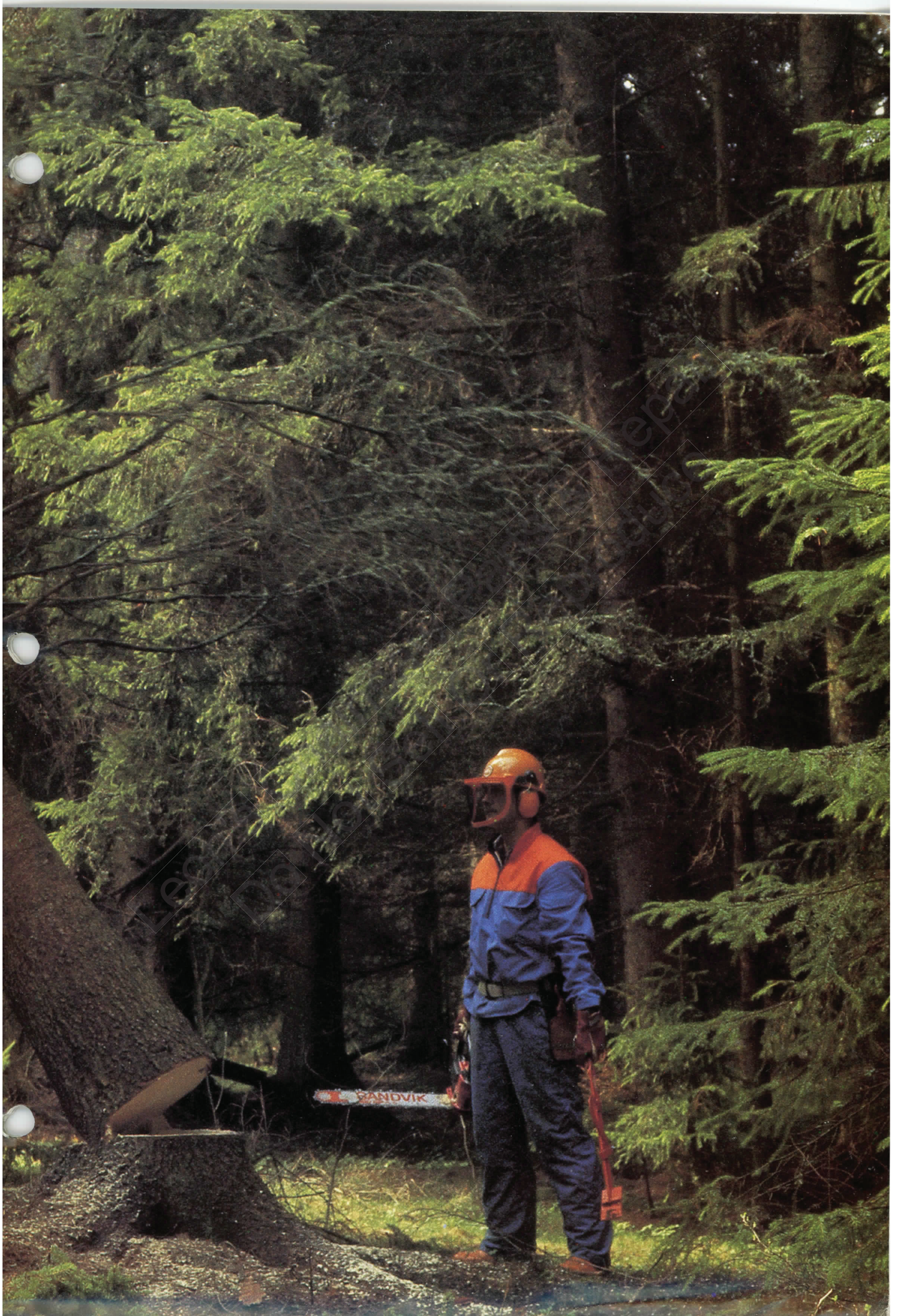
The handles are designed to fit naturally into the hand when filing a saw chain.

Although, the handles have holes all through it is impossible to press the files through the handles. For example, to press one of our thinnest files, 4.0 mm (5/32"), through the handle requires a force of 200 kp.

Sandvik and Öberg file handles fit all brands and file dimensions. (See picture on p. 22.)





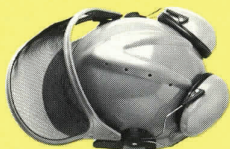
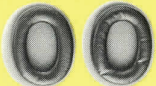
Range	SANDVIK	ÖBERG
Part No	Plastic handle 6604-50	Plastic handle 6605-50
Colour	Orange	Yellow
Packing	50 to a carton	50 to a carton
Order in multiples of 50 pcs.		









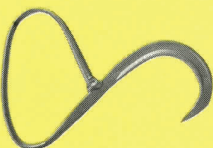


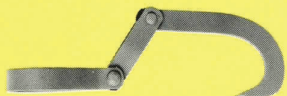
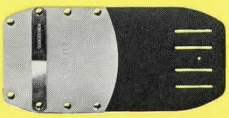

Sandvik has worked to improve efficiency and safety in the forest for many years. Our forestry tools and safety equipment have been developed in consultation with professional loggers and experts in materials and working methods. The result is a complete line of highly effective, high quality tools.



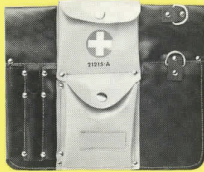

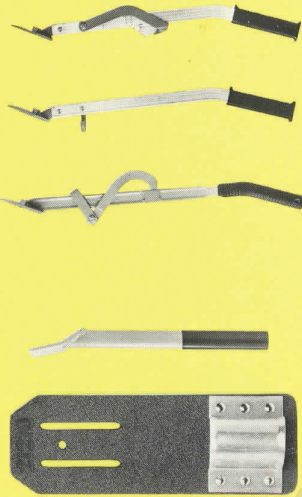
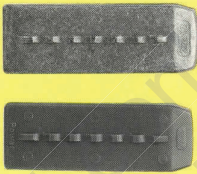
FORESTRY CLOTHING AND SAFETY EQUIPMENT.

	Denomination and Article No.	Technical description
	Tunic. 21724-46-60	Tunic for use around the year. Nylon net in shoulders gives air circulation between clothing and the body. Vent holes in the back to reduce condensation. Extended back for warmth. Two chest pockets and one arm pocket with button down flap. The tunic is manufactured in waterproof 100% nylon. Zipper in front. Weight: approx. 450 g. Sizes 46-60. Colour: green with orange yoke.
	Tunic. 21775-46-60	Design is the same as for article no. 21724 but the material is 100% polyester with soft inside. The material is soil-, oil- and waterproof. Sizes 46-60. Colour: blue with orange yoke.
	Safety trousers. 21729-46-60	Trousers with permanent safety lining in 22 layers of nylon. Safe for through-sawing 0,17 m/sec. 2 side and back pockets with button down flap. The trousers are made of 100% nylon twills. Weight: approx. 800 g. Sizes 46-60. Colour: green. Approved by the National Swedish Board of Industrial Safety. Class II.
	Safety trousers. 21781	The design is the same as for article no. 21729 but the material is 100% polyester with soft inside. The safety lining is made of 22 layers of locknit charmeuse nylon. Sizes 46-60. Colour: blue.
	TIMBER Safety boots for forestry workers. 21760-39-47	Sawing protection: layers of nylon cord. Rubber insulation at front. Safety toe cap of steel. Support for heel and sole of wood for firm support to the foot. Soft rubber makes it easy to fit. Improved rubber quality. Bottom sole can take safety spikes for winter. (Can be equipped with carbide spikes 9x11 mm which are the same as used for car tyres. Mounting of the spikes must be done before the boots are used.) Space for extra socks. Colour: green and orange. Sizes 39-47.
	Safety gloves. 21745	Gloves in leather. Left hand glove with safety layer of nylon. Right hand glove with finger and thumb. Adjustable at wrist. Sizes M and L.
	Inner gloves. 21743	Inner gloves for safety gloves 21745. Made of cotton.
	Head protector. 21711-B	Head protector consisting of: 21701-B Ventilated helmet in white or orange colour. 21704-A Visor. 21719-B Ear muff H9. 21732-B Rain guard. The separate parts can be supplied upon request.
	Hygiene set. 21735	Hygiene set for ear muff 21719-B.


	Denomination and Article No.	Technical description
	Helmet hat. 21703	Hat in knitted acryl for use together with safety helmet.

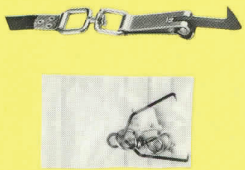
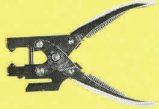
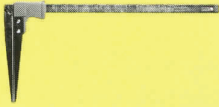
LOGGING TOOLS.

	Denomination and Article No.	Technical description
	Lifting tong. 451-P	451-P Plastic handle for better and more comfortable grip. Forged shanks in a link system. Grounded sharp points. Grip gap 10.1/2" (27 cm). Weight 1,2 kg.
	Lifting tong. 452-P	452-P Ditto, grip gap 8" (20 cm). Weight 500 g.
	Lifting tong. 455-P	455-P Ditto, grip gap 7.1/4" (19 cm). Weight 450 g.
	Lifting tong. 451	Same as for 451-P but with rubber handle.
	Lifting tong. 452	Same as for 452-P but with rubber handle.
	Lifting tong. 455	Same as for 455-P but with rubber handle.
	Lifting hook. 441-P	Forged of special steel. Grounded point. Plastic handle for better and more comfortable grip. Weight 380 g. Length 25 cm.
	Lifting hook. 441-PK	Ditto but with a marking pen holder in the handle. Weight 410 g.
	Lifting hook. 441	Forged of special steel. Grounded point. Weight 280 g. Length 20 cm.
	Rabble hook. 445	Crosswise plastic handle. Length 26 cm. Weight 450 g.
	Marking pen. 442	Adapted to lifting hook 441-PK.
	Hook lever. 432	Length in total 39 cm.
	Hook and tong holster. 21216-A	Hook and tong holster made of leather/polythene with spring for holding. Used for 455, 441. Weight 170 g.
	Hook and tong holster. 21216-P	Ditto but made of polythene.
	Tong holster. 21220	Made of polythene. Used for 452.


	Denomination and Article No.	Technical description
	Measuring tape holder. 21209	Made of polythene with an extra ring for holding the tape.
	Holster 21207	Holster for tree caliper 317. Made of leather.
	Tool bag. 21215-A	Tool bag made of PVC-terylene, used for tools and first aid. Ring for mounting of the measuring tape. Size 27×22 cm.
	Belt. 21211	PVC belt for hook and tong holster, measuring tape holder and tool bag. Width 40 mm.
	Belt. 21212	Ditto but made of leather.
	Breaking bar. 21090	Breaking bar of steel and aluminium with a hook lever. Weight 1,5 kg. Length 80 cm.
	Breaking bar. 21090-A	Ditto without hook but with a ring for no. 441 hook. Can be used as a hook lever. Weight 1,4 kg. Length 80 cm.
	Breaking bar. 312	Breaking bar of steel with hook lever. Weight 2,4 kg. Length 80 cm.
	Breaking bar. 312 S	Breaking bar similar to 312 but with extra long handle. Weight 4,0 kg. Length 130 cm.
	Breaking bar. 319	Straight model with handle of steel tube. Weight 0,5 kg. Length 43 cm.
	Holster. 21210	Used for breaking bar 319. Will fit the belts 21211 and 21212.
	Felling wedge. 21062	Felling wedge of aluminium with slide stops. Length 12,5 cm. Weight 190 g.
	Felling wedge. 21065	Ditto of nylon. Weight 90 g.

MEASURING TOOLS.


	Denomination and Article No.	Technical description
	Measuring tape. 21100	Measuring tape with release hook 21202. The tape consists of 3 parts: 1. Gear housing. 2. Spring housing. 3. Measuring tape with spool. The measuring tape is manufactured of impact-resistant plastic which gives low weight, approx. 300 g. Measuring length 15 m.
	Measuring tape. 21200	Measuring tape made of steel and aluminium. Weight approx. 500 g. Measuring length 15 m.
	Measuring tape. 21225	Ditto, weight approx. 650 g. Measuring length 25 m.

	Denomination and Article No.	Technical description
	Release hook. 21202	Release hook of steel.
	Release hook. 21206	Release hook of steel, scissors type.
	Repair tongs. 21221	Tongs used for repairing measuring tapes.
	Tree caliper. 317-30	Tree caliper for measuring of diameters up to 30 cm. Manufactured of steel. 2-cm scale. Weight approx. 330 g.
	Tree caliper. 317-46	Ditto for measuring up to 46 cm. Weight approx. 450 g.

TOOLS FOR CLEARANCE AND CULTIVATION.

	Denomination and Article No.	Technical description
	Clearing axe/Brush axe. 408	Clearing axe with replaceable blade. Handle of hickory. Length 70 cm. Weight approx. 900 g.
	Blade. 408 K	Replacement blade for clearing axe 408. Length 15 cm.
	Spare handle 408 S	Spare handle for clearing axe 408.
	Clearing knife. 400	Clearing knife with edge protector. The knife is manufactured of special knife steel. Handle of hickory. Length 48 cm. Weight approx. 540 g.
	Clearing knife "Vassen". 403	Ditto, length 80 cm. Weight approx. 1,0 kg.
	Clearing knife "Kraften". 402	Clearing knife with edge protector. Shaft of steel tube with a plastic handle. Manufactured of special knife steel. Length 70 cm. Weight approx. 550 g.
	Drill hoe. 412	Drill hoe for planting and preparation of soil for planting. Length 90 cm. Weight 1,2 kg. Blade of steel. Shaft of hickory.

COMBINED PETROL AND OIL CANS.







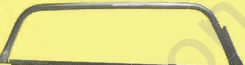

	Denomination and Article No.	Technical description
	Combined petrol and oil can. 21790	Manufactured of steel sheet. Possible to store 5,5 litres of petrol and 2,7 litres of oil.
	Combined petrol and oil can. 21791	Ditto but made of plastic.



EFFICIENT FIREWOOD EQUIPMENT.

The Sandvik Firewood range is designed to meet the demands of the casual logger.

There are three points that professional and casual loggers have in common – safety, efficiency and economy. The first two points are obvious, logging is almost always risky and tough. Sandvik firewood equipment makes this job a little safer and easier.

	Denomination and Article No.	Technical description.
	Trousers with braces. 21742-46-48	Trousers with braces manufactured of polyester. Two back and side pockets, 1 leg pocket. Colour: blue. Sizes 46–48.
	Casual axe. 114-E	Flame hardened steel in axe. Edge protector made of leather. Shaft of birch. Weight approx. 0,6 kg. Length 26".
	Wood chopping axe. 38-2	Ditto, weight approx. 0,8 kg. Length 20".
	Chopping axe. 2E-08	Hardened steel in axe. Shaft of hickory. Weight 0,8 kg. Length 26".
	Splitting axe. 7	Ditto, weight approx. 1,5 kg. Length 30".
	Sledge axe. 141	Ditto, weight approx. 2,5 kg. Length 32".
	Bow saw. 9	With tension lever for quick and simple change of saw blade. Length 30".
	Saw blade. 41 H-30	Normal-toothed saw blade with hardened tooth-points. Width 20 mm. Length 30".
	Splitting wedge. 304	Grooved splitting wedge of steel. Weight 1,2 kg.

Guide bars Semi and Mini

Files

Fileholder and fileguide

Safety gloves 21745 and 21743

Helmet 21701-B with visor and earmuff

see pp. 10–21

see p. 23

see p. 27

see p. 30

see p. 30

Lifting tongs 452, 451, 445 and 441

Hook and tong holster 21216 P

Belt 21211, for holster

Felling wedges 21062 and 21065

Clearing axe/Brush axe 408, with Blade 408 K

see p. 31

see p. 31

see p. 32

see p. 32

see p. 33

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EIA-BUSHMAN
NIERNBERG

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