



Manual metal-cutting circular saws for steel, iron, light alloys, solid materials and sections

Facts that impress in terms of quality, performance and price

- ► Swivel range of ±45°
- Easily readable angle scale supports precise work
- ► Mitre adjustment within seconds
- ► Protected vice spindle
- ▶ Solid machine chassis with drill holes on both sides for attaching the MSR
- ▶ Long handle supports sawing without applying excessive force, includes integrated pushbutton (on/off)
- ▶ Automatic coolant pump switch-on during sawing
- ▶ Functional protection device, closed design, mobile
- Fast opening mechanism for optimal safety during cutting
- ► Centrically clamping vise, 4x guided with individually adjustable clamping

- ► Solid machine chassis
- ▶ Protected vice spindle
- ► Machine chassis sizes:
 - CS 275 460 x 515 x 775 mm and
 - CS 315 546 x 620 x 801 mm
- ▶ The saw is delivered without a circular saw blade (saw blade division freely selectable)





Coolant pump

- > Removable coolant tank
- > Integrated powerful pump

Material supports	Article no.
MSR 4	3357610
MSR 4H	3357001
MSR 7	3357611
MSR 7H	3357002
MSR 10	3357613
MSR 10H	3357003

Information"MSR 4 / MSR 7 / MSR 10" on page 218

Fig.: CS 315

Technical specifications, accessories and dimensions

Model	CS 275	CS 315
Article no.	3302275	3302300
Technical specifications		
Electrical connection	400 V / 3 Ph ~50 Hz	400 V / 3 Ph ~50 Hz
Motor output	1.4 / 2.0 kW	0.75 / 1.5 kW
Coolant pump motor	40) W
General instructions		
Cutting angle	-45° to +45°	
Cutting angle adjustment	Via rotating bearing block	
Feed	manual	
Cutting speed	41 / 82 rpm	19 / 38 rpm
Saw blade diameter	Ø 275 mm	Ø 315 mm
Sun stage diameter	Internal Ø 40 mm	Internal Ø 40 mm
Vice jaw width	110 mm	135 mm
Dimensions		
Length	460 mm	560 mm
Width	830 mm	902 mm
Height	1 700 mm	1 765 mm
Weight	175 kg	235 kg

Scope of supply	
> Coolant system	
> Machine chassis	

	Cutting areas			
CS 275	0 °	Ø 60 mm	60 mm	60 x 100 mm
CS 315	0 0	Ø 85 mm	85 mm	70 x 130 mm
CS 275	450	Ø 60 mm	60 mm	60 x 70 mm
CS 315	45°	Ø 85 mm	85 mm	70 x 90 mm

Circular saw blades - information
4 mm/T: I ube/sections (wall thickness)
> up to 1 mm: Aluminium/Bronze/Copper/Brass
> up to 1.5 mm: steels up to 1 500 N/m²/stainless steels
> up to 2 mm: Steels up to 1 200 N/m ²
6 mm/T: ☐ ☐ tube/sections (wall thickness)
> up to 1.5 mm: Aluminium/Bronze/Copper/Brass
> as of 3 mm: Steels up to 1 800 N/m²
6 mm/T: solid materials (cross-section)
> 10-20 mm: Aluminium/Bronze/Copper/Brass
> 20-40 mm: Steels up to 1 800 N/m²/stainless steels
8 mm/T: I O tube/sections (wall thickness)
> as of 3 mm: Aluminium/Bronze/Copper/Brass
8 mm/T: solid materials (cross-section)
> 20-40 mm: Steels up to 1 800 N/m²: Aluminium/Bronze/Copper
> 40-60 mm: Steels up to 1 200 N/m²/stainless steels



Metal-cutting circular saw blade CS 275			
Teeth	Blade width	Article no.	
220 teeth	2.5 mm	3357444	
140 teeth	2.5 mm	3357446	
110 teeth	2.5 mm	3357448	
	Teeth 220 teeth 140 teeth	Teeth Blade width 220 teeth 2.5 mm 140 teeth 2.5 mm	

CS 315			
4 mm/T	240 teeth	2.5 mm	3357454
6 mm/T	150 teeth	2.5 mm	3357456
8 mm/T	120 teeth	2.5 mm	3357458



Semi-automatic double mitre metal cutting band saw with inverter Vario drive

Facts that impress in terms of quality, performance and price

- ► Heavy-duty industrial design
- Low-noise running action
- ► Manual or semi-automatic operation
- ► Saw band speed continuously adjustable from 0 to 80 m/min.
- Excellent cutting precision thanks to vibration-free action
- ► Mitre adjustment to 60° by pivoting the entire saw head
- ▶ Equipped as a factory standard with bi-metal saw blade
- ► End stops adjustable to degree accuracy
- ► Chip brush
- ▶ Microswitch for automatic limit position cut-off
- ▶ Roller support adjustable for long and heavy workpieces
- ► Coolant pump
- ▶ Ball bearing borne saw band guide with carbide shims for optimal

- cutting results
- ► Easy adjustment of the lowering speed via feed control valve in control panel
- Generously dimensioned, hydraulic quick-action vice, self-closing, adjustable for large cross-sections
- ► Machine with full equipment set; the user can immediately start productive work

Semi-automatic operating mode

- ▶ Vice closes and motor is activated
- ▶ Lower the saw head to cut
- ▶ Motor stops and saw head returns to original position





Technical specifications, accessories and dimensions

Model	SD 350AV
Article no.	3292355
Technical specifications	
Electrical connection	400 V / 3 Ph ~50 Hz
Total rated value	3.8 kW
Saw motor	2.2 kW
Hydraulic pump	1.4 kW
Coolant pump motor	50 W
General instructions	
Lifting the saw head	
> Manual operation	Hydraulic via pushbutton
> Semi-automatic operation	automatic
Feed	continuously variable
Saw band speed	0 - 70 m/min
Saw band dimensions	2 925 x 27 x 0.9 mm
Cutting angle	-45° to 60°
Dimensions	
Length	1 750 mm
Width without/with material stop	1 075 / 1 415 mm
Height bottom/top limit position	1 420 / 2 000 mm
Weight 600 kg	

Cutting areas				
0 °	Ø 270 mm	230 mm	230 x 350 mm	
45°	Ø 230 mm	200 mm	210 x 220 mm	
60°	Ø 140 mm	140 mm	140 x 220 mm	
-45°	Ø 230 mm	170 mm	140 x 200 mm	

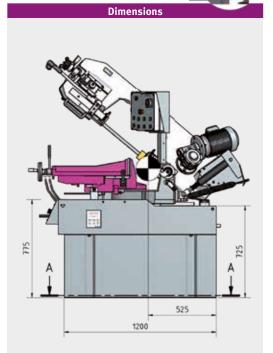
The cutting area was determined for a full section.

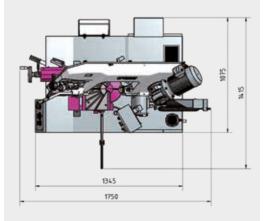
The cutting range can be larger in case of cut-off sections.

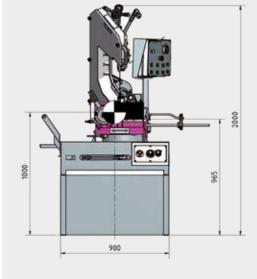
Saw bands HSS bi-metal M 42			
Teeth per inch	Teeth per inch Tooth angle		
5 - 8 tpi 0°		3357541	
4 - 6 tpi	6°	3357540	
6 - 10 tpi 0°		3357542	
10 - 14 tpi 0°		3357543	
Saw band set HSS bi-met 1 pc. saw band 6 - 10 tpi 1 pc. saw band 5 - 8 tpi; 1 pc. saw band 4 - 6 tpi;	3357501		
"General saw band information" on page 220			

AQUACUT C1	3530030
> For mixing emulsions, for cooling along t	he cut
> 10 litres	

	Material s	Article no.	
	MSR 4H	L x W 1 000 x 440 mm	3357001
	MSR 7H	L x W 2 000 x 440 mm	3357002
	MSR 10H	L x W 3 000 x 440 mm	3357003
EW	Table extension MSR 1		3357006
	PVC rollers for MSR		3357609







Scope of supply	
> Material stop	
> Bi-metal saw band	
> Machine chassis	



Metal-cutting band saw with double mitre in heavy-duty design

Facts that impress in terms of quality, performance and price

- ► Heavy-duty industrial design
- ► Low-noise running action
- Excellent cutting precision thanks to vibration-free action
- ► Two switchable speeds 36/72 m/min.
- ▶ Mitre adjustment to -60° by pivoting the entire saw head
- Generously dimensioned, rugged quick clamping vice, adjustable via hand wheel Workpiece is clamped using a handy quick-clamping lever
- ▶ Quick clamping vice movable for large materials
- ▶ Easy and accurate adjustment of the saw band tension by pressure gauge
- ▶ Equipped as a factory standard with bi-metal saw blade
- ► End stops adjustable to degree accuracy
- ► Chip brush
- ▶ Ball bearing borne saw band guide with carbide shims for optimal cutting results

- ► Precise, continuously adjustable saw band movement via hydraulic cylinder
- ► Coolant pump
- ► Easy adjustment of the lowering speed via feed control valve in control panel
- ► Emergency stop button
- ► Rugged machine chassis
- ► Microswitch for automatic limit position cut-off
- ▶ Roller support adjustable for long and heavy workpieces
- ► Fully equipped; the user can immediately start productive work after commissioning





Technical specifications, accessories and dimensions

Model	S 350DG
Article no.	3290350
Technical specifications	
Electrical connection	400 V / 3 Ph ~50 Hz
Motor output	2.2 kW
Coolant pump motor	50 W
General instructions	
Lifting the saw head	manual
Feed	continuously variable
Saw band speed	36/72 m/min.
Saw band dimensions	2 925 x 27 x 0.9 mm
Cutting angle	-45° to 60°
Dimensions	
Length	1 750 mm

1 075 / 1 415 mm

1 420 / 2 000 mm

550 kg

Scope of supply	
> Material stop	
> Bi-metal saw band	
> Machine chassis	
\ Coolant numn	

Width without/with material stop

Height bottom/top limit position

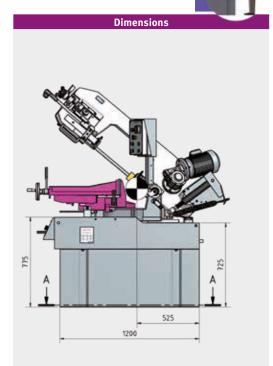
Weight

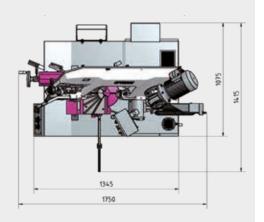
Cutting areas				
0 °	Ø 270 mm	230 mm	230 x 350 mm	
45°	Ø 230 mm	200 mm	210 x 220 mm	
60°	Ø 140 mm	140 mm	140 x 220 mm	
-45°	Ø 230 mm	170 mm	140 x 200 mm	

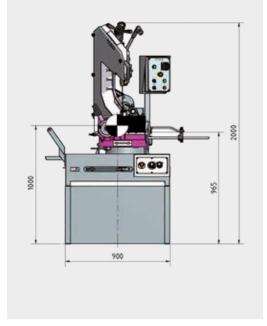
Saw bands HSS bi-metal M 42			
Teeth per inch	Tooth angle	Article no.	
5 - 8 tpi	0°	3357541	
4 - 6 tpi	3357540		
6 - 10 tpi 0°		3357542	
10 - 14 tpi 0°		3357543	
Saw band set HSS bi-metal M 42 1 pc. saw band 6 - 10 tpi; 0° 1 pc. saw band 5 - 8 tpi; 0° 1 pc. saw band 4 - 6 tpi; 6°			
"General saw band information" on page 220			

AQUACUT C1	3530030
> For cooling the cut	
> 10 litres	

Material support	Article no.	
MSR 4H	L x W 1 000 x 440 mm	3357001
MSR 7H L x W 2 000 x 440 mm		3357002
MSR 10H L x W 3 000 x 440 mm		3357003
Table extension A	3357006	
PVC rollers for M	3357609	







Band saw for metal working with pivoting saw head.

S 300DG Vario with continuously adjustable saw band speed

Facts that impress in terms of quality, performance and price

- ► Low-noise running action
- ► Heavy cast design

Scope of supply

Material stopBi-metal saw band

Article no.

> Machine chassis

- Excellent cutting precision thanks to vibrationfree action
- ▶ Ball-bearing borne saw band guide
- ► Chip brush
- ▶ Microswitch for automatic limit position cut-off
- ▶ Pushbutton manual saw band run on the lever switches the saw band run on and off
- ► Equipped as a factory standard with bi-metal saw blade
- ► Material stop with scaling
- Quick clamping vice, adjustable via hand wheel. Workpiece is clamped using a handy quickclamping lever
- ► Rugged machine chassis
- ► End stops adjustable to degree accuracy

S 300DG Vario

► Saw band speed continuously adjustable from 20 to 90 m/min.



> Easy and correct adjustment of the saw band tension



- > Powerful > 100 W
- Roller support
- > For supporting long> materials



> Coolant pump

Model S 300DG

Article no. 3290290

Model S 300DG Vario*

Fig.: S 300DG

3290295

Technical specifications		
Electrical connection	400 V / 3 Ph ~50 Hz	
Motor output	1.5 kW	
Coolant pump motor	100 W	
General instructions		
Lifting the saw head	manual	
Feed	continuously variable	
Saw band speed	35/70 m/min.	
Vario saw band speed	20 - 90 m/min	
Saw band dimensions	2 750 x 27 x 0.9 mm	
Cutting angle	45° to -60°	
Dimensions		
Length	1 680 mm	
Width without/with material stop	700 / 1 300 mm	
Height bottom/top limit position	1 600 / 1 850 mm	
Weight	335 kg	

 Cutting areas

 0°
 Ø 255 mm
 190 mm
 190 x 310 mm

 45°
 Ø 215 mm
 190 mm
 190 x 200 mm

 -60°
 Ø 135 mm
 135 mm
 135 x 135 mm

 -45°
 Ø 220 mm
 190 mm
 135 x 190 mm

AQUACUT C1	3530030
> For cooling the cut	
> 10 litres	

Saw bands HSS bi-metal M 42			
Teeth per inch Tooth angle Article no.			
5 - 8 tpi	3357751		
5 - 8 tpi	3357752		
6 - 10 tpi 0°		3357753	
10 - 14 tpi 0°		3357754	
Saw band set HSS bi-metal M 42 1 pc. saw band 6 - 10 tpi; 0° 1 pc. saw band 5 - 8 tpi; 0° 1 pc. saw band 5 - 8 tpi; 10°			
"General saw band information" on page 220			



Metal-cutting band saw with turntable and pivoting saw head for economic and precise work

Facts that impress in terms of quality, performance and price

- ► Low-noise running action
- ► Heavy cast design
- Carbide guide
- Excellent cutting precision thanks to vibrationfree action
- ► Saw band speed continuously adjustable via frequency inverter
- ► Professional inverter technology
- ► High motor output even at low speeds
- ► Microswitch for automatic limit position cut-off
- ▶ Precise, re-adjustable and durable saw band guide

- ► End stops adjustable to degree accuracy
- ► Chip brush
- Coolant pump
- ▶ Quick clamping vice, adjustable via hand wheel. Workpiece is clamped using a handy quickclamping lever
- ► Rugged machine chassis
- ► Control unit facilitates machine setup
- ► Fully equipped; the user can immediately start productive work after commissioning





> Easy and accurate adjustment of the saw band tension



- ween 45° and wed as the vots with the saw
- angle scale

	+		 Any angle bet -60° can be sa cutting gap pi arm Easily legible 	awed as the vots with the saw
	1		Scope of supply	
National Control of the Control of t	1		> Material stop	
	'		> Bi-metal saw ba	nd
	1		> Machine chassis	5
			Coolant pump	
		С	utting areas	
	0 °	Ø 255 mm	255 mm	200 x 270 mm
	45°	Ø 190 mm	160 mm	160 x 160 mm
	-60°	Ø 110 mm	110 mm	110 x 210 mm
	-45°	Ø 190 mm	140 mm	140 x 210 mm
	_	area was determ er in case of cut-c	ined for a full section	n. The cutting range

Model	S 310DG Vario
Article no.	3290335
Tachnical anadifications	

Technical specifications	
Electrical connection	400 V / 3 Ph ~50 Hz
Motor output	1.5 kW
Coolant pump motor	100 W
General instructions	
Lifting the saw head	manual
Feed	continuously variable
Saw band speed	20 - 90 m/min
Saw band dimensions	2 750 x 27 x 0.9 mm
Cutting angle	45° to -60°
Dimensions	
Length	1 680 mm
Width without/with material stop	700 / 1 330 mm
Height bottom/top limit position	1 600 / 2 000 mm
Weight	380 kg

AQUACUT C1	3530030
> For cooling the cut	
> 10 litres	

Saw bands HSS bi-metal M 42			
Teeth per inch	Tooth angle	Article no.	
5 - 8 tpi	0°	3357751	
5 - 8 tpi	10°	3357752	
6 - 10 tpi 0°		3357753	
10 - 14 tpi	0°	3357754	
Saw band set HSS bi-metal M 42 1 pc. saw band 6 - 10 tpi; 0° 1 pc. saw band 5 - 8 tpi; 0° 1 pc. saw band 5 - 8 tpi; 10°		3357700	

"General saw band information" on page 220



Metal-cutting band saw with pivoting saw head and

continuously adjustable saw band speed

Facts that impress in terms of quality, performance and price

- ► Low-noise running action
- ► Rugged cast design
- Excellent cutting precision thanks to vibrationfree action
- ► Variable cutting speeds
- Saw band lowering via hydraulic cylinder continuously adjustable by throttle valve
- ▶ Powerful 100 Watt coolant system

Pressure gauge Easy and accurate adjustment of the saw band tension

- Carbide guide
- ► Microswitch for automatic limit position cut-off
- ► Clear-cut keyboard for ease of use
- ▶ Ball-bearing borne saw band guide
- ▶ Quick clamping vice, adjustable via hand wheel. Workpiece is clamped using a handy quickclamping lever
- ► Easily legible scale for adjusting the angle
- ► Equipped as a factory standard with bi-metal
- Adjustable material stop for batch work



Dimensions

Scope of supply

3530030

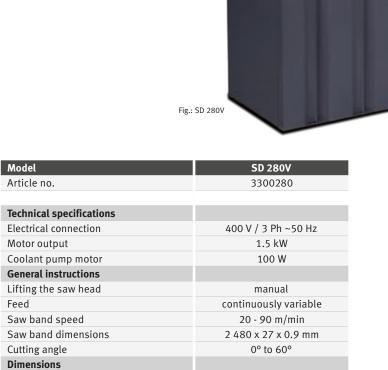
- > Material stop
- > Bi-metal saw band
- > Machine chassis
- > Coolant pump

Cutting areas				
0 °	Ø 225 mm	190 mm	150 x 235 mm	
45°	Ø 155 mm	155 mm	155 x 210 mm	
60°	Ø 90 mm	90 mm	90 x 120 mm	

The cutting area was determined for a full section. f cut-off sections.

	The suffing range can be larger in case of	
odel SD 280V		The cutting range can be larger in case of
Article no.	3300280	
		AQUACUT C1
Technical specifications		> For cooling the cut
Flectrical connection	400 V / 3 Ph ~50 Hz	> 10 litres

Saw bands HSS bi		
Teeth per inch	Tooth angle	Article no.
5 - 8 tpi	0°	3357511
5 - 8 tpi 6°		3357512
6 - 10 tpi 0°		3357524
10 - 14 tpi 0°		3357525
Saw band set HSS bi-metal M 42 1 pc. saw band 6 - 10 tpi; 0° 1 pc. saw band 5 - 8 tpi; 0° 1 pc. saw band 5 - 8 tpi; 6°		3357504



1 400 / 1 700 mm

685 / 985 mm

1 300 / 1 700 mm

185 kg

Length

Weight

Width without/with material stop

Height bottom/top limit position



Metal-cutting band saw with pivoting saw head

for economic and precise work

Facts that impress in terms of quality, performance and price

- ► Low-noise running action
- ► Heavy cast design
- Excellent cutting precision thanks to vibration-
- ▶ Ball-bearing borne saw band guide
- ► Chip brush
- ► Automatic saw switch-off after completing the cut
- ► Rugged machine chassis

- ▶ Equipped as a factory standard with bi-metal saw blade
- ► Material stop with scaling
- ▶ Quick clamping vice, adjustable via hand wheel. Workpiece is clamped using a handy quickclamping lever
- ► End stops adjustable to degree accuracy
- ► Fully equipped; the user can immediately start productive work after commissioning



> Easy and correct adjustment of the saw band tension



- > Powerful
- > 100 W

Roller support

3530030

- > For supporting long > materials
- **Cutting areas** Ø 225 mm 180 mm 150 x 245 mm 45° Ø 150 mm 150 mm 150 x 190 mm Ø 90 mm 90 mm 90 x 180 mm 60° -45° Ø 150 mm 150 mm 120 x 150 mm

> 10 litres		
metal M 42		
Tooth angle	Article no	
0°	3357511	
6°	3357512	
0°	3357524	
0°	3357525	
Saw band set HSS bi-metal M 42 1 pc. saw band 6 - 10 tpi; 0° 1 pc. saw band 5 - 8 tpi; 0° 1 pc. saw band 5 - 8 tpi; 6°		
	0° 6° 0° 0° i-metal M 42 0 tpi; 0° 8 tpi; 0°	



Model	S 285DG
Article no.	3300285

Technical specifications	
Electrical connection	400 V / 3 Ph ~50 Hz
Motor output	1.1 kW
Coolant pump motor	100 W
General instructions	
Lifting the saw head	manual
Feed	continuously variable
Saw band speed	45 / 90 m/min
Saw band dimensions	2 480 x 27 x 0.9 mm
Cutting angle	-45° to 60°
Dimensions	
Length	1 720 mm
Width without/with material stop	870 / 1 270 mm
Height bottom / top limit position	1 280 / 1 800 mm
Weight	295 kg

Metal band saw with pivoting saw head.

S 275NV with continuously adjustable saw band speed

Facts that impress in terms of quality, performance and price

- ► Low-noise running action
- ► Rugged cast design
- Excellent cutting precision thanks to vibration-free action
- Saw band lowering via hydraulic cylinder continuously adjustable by throttle valve
- ► Microswitch for automatic limit position cut-off
- ► Coolant system

Pressure gauge

> Easy and accurate
adjustment of the saw
band tension

- Equipped as a factory standard with bi-metal saw blade
- ► Adjustable material stop for batch work
- ► Rugged machine chassis
- ▶ Ball-bearing borne saw band guide

- Quick clamping vice, adjustable via hand wheel. Workpiece is clamped using a handy quick-clamping lever
- ► Easily legible scale for adjusting the angle
- ▶ Overload protection

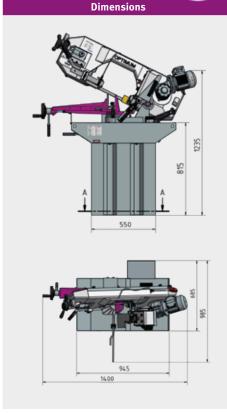
S 275N

- ► Motor circuit switch
- ► Two switchable speeds

S 275NV

- ➤ Saw band speed continuously adjustable from 20 to 90 m/min.
- ▶ Speed change possible during operation





S	Scope of supply
>	Material stop
>	Bi-metal saw band
>	Machine chassis
>	Coolant pump

Cutting areas				
0 °	Ø 225 mm	170 mm	150 x 245 mm	
45°	Ø 145 mm	145 mm	145 x 180 mm	
60°	Ø 90 mm	90 mm	90 x 120 mm	

The cutting area was determined for a full section. The cutting range can be larger in case of cut-off sections.

Model	S 275N	S 275NV
Article no.	3300260	3300265
Technical specifications		
Electrical connection	400 V / 3 Ph ~50 Hz	230 V / 1 Ph ~50 Hz
Motor output	1.1 kW	1.5 kW
Coolant pump motor	90	W
General instructions		
Lifting the saw head	manual	
Feed	continuously variable	
Saw band speed	45 / 90 m/min 20 - 90 m/min	
Saw band dimensions	2 480 x 27 x 0.9 mm	
Cutting angle	0° to 60°	
Dimensions		
Length	1 400 mm	
Width without/with material stop	685 mm / 985 mm	
Height bottom/top limit position	1 235 mm / 1 700 mm	
Weight	185 kg	

Fig.: S 275N

AQUACUT C1	3530030
> For cooling the cut	
> 10 litres	

Saw bands HSS b	pi-metal M 42		
Teeth per inch	Tooth angle	Art.no.	
5 - 8 tpi	0°	3357511	
5 - 8 tpi 6° 3357512			
6 - 10 tpi 0° 3357524			
6 - 10 tpi 6° 3357510			
10 - 14 tpi 0° 3357525			
Saw band set HSS bi-metal M 42 1 pc. Saw band 6 - 10 tpi; 6° 1 pc. Saw band 5 - 8 tpi; 0° 1 pc. Saw band 5 - 8 tpi; 6°			
"General saw band information" on page 220			

3530030



Metal-cutting band saw with pivoting saw head

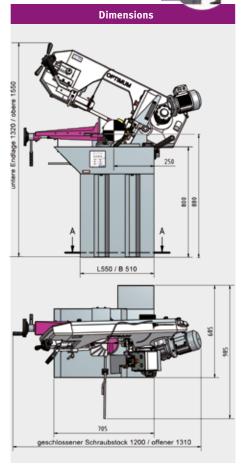
and two saw band speeds

Facts that impress in terms of quality, performance and price

- ► Low-noise running action
- ► Rugged cast design
- Excellent cutting precision thanks to vibration-free action
- ► Two switchable speeds
- ▶ Saw band lowering via hydraulic cylinder continuously adjustable by throttle valve
- ▶ Microswitch for automatic limit position cut-off
- ► Easily legible scale for adjusting the angle
- ► Coolant system
- ► Rugged machine chassis
- ▶ Ball-bearing borne saw band guide
- Quick clamping vice, adjustable via hand wheel. Workpiece is clamped using a handy quick-clamping lever
- ▶ Equipped as a factory standard with bi-metal saw blade
- Adjustable material stop for batch work
- ▶ Fully equipped; the user can immediately start productive work after commissioning



Model	S 210G
Article no.	3300210
Technical specifications	
Electrical connection	400 V / 3 Ph ~50 Hz
Motor output	750 W
Coolant pump motor	90 W
General instructions	
Lifting the saw head	manual
Feed	continuously variable
Saw band speed	40 / 80 m/min
Saw band dimensions	2 080 x 20 x 0.9 mm
Cutting angle	0° to 45°
Dimensions	
Length of closed/open vise	1 200 / 1 310 mm
Width without/with material stop	685 / 985 mm
Height bottom/top limit position	1 320 / 1 550 mm
Weight	152 kg



Scope of supply	
> Material stop	
> Bi-metal saw band	
> Machine chassis	
> Coolant pump	

Cutting areas			
0 °	Ø 170 mm	140 mm	140 x 190 mm
45°	Ø 125 mm	125 mm	95 x 140 mm

The cutting area was determined for a full section.
The cutting range can be larger in case of cut-off sections.

AQUACUT C1

For cooling the cut			
> 10 litres			
Saw bands HSS bi-metal M 42			
Teeth per inch Tooth angle Article no.			
5 - 8 tpi 0° 3357503			
5 - 8 tpi 6° 3357505			
6 - 10 tpi 0° 3357514			
10 - 14 tpi 0° 3357515			
Saw band set HSS bi-metal M 42			

1 pc. saw band 6 - 10 tpi; 0°

1 pc. saw band 5 - 8 tpi; 0° 1 pc. saw band 5 - 8 tpi; 10°

3357502



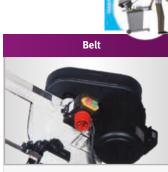
The metal-cutting band saw for challenging sawing tasks.

With drive belt and 4 sawing speeds

Facts that impress in terms of quality, performance and price

- ► Low-noise running action
- ► Rugged cast design
- Saw band lowering via hydraulic cylinder continuously adjustable by throttle valve
- ▶ Microswitch for automatic limit position cut-off
- ► Easily legible scale for adjusting the angle
- ▶ Equipped as a factory standard with bi-metal saw blade
- \blacktriangleright Saw band tensioning at front, adjustable via handwheel
- ▶ Ball-bearing borne saw band guide
- ► Rugged machine chassis with large wheels and handy transport bar allows trouble-free relocation of the machine
- Adjustable material stop for batch work
- ► Circuit breaker for belt cover
- ▶ Fully equipped; the user can immediately start productive work after commissioning





- > Four speeds
- Adjustable by shifting the drive belt

Quick clamping vice

 Clamping jaws adjustable from 0° to 45° for mitre cuts



- > Integrated in chassis
- > Tank capacity 11 litres

Model	S 181
Article no.	3300181

Technical specifications	
Electrical connection	400 V / 3 Ph ~50 Hz
Motor output	750 W
Coolant pump motor	90 W
General instructions	
Lifting the saw head	manual
Feed	continuously variable
Saw band speed	21 / 33.5 / 45 / 50 m/min
Saw band dimensions	2 362 x 19 x 0.9 mm
Cutting angle	0° to 45°
Dimensions	
Length	1 295 mm
Width	
Without material stop	450 mm
With material stop	600 mm
Height	
Saw head bottom limit position	1 060 mm
Saw head top limit position	1 550 mm
Weight	130 kg

Cutting areas			
0 °	Ø 180 mm	180 mm	180 x 240 mm 50 x 300 mm
45°	Ø 110 mm	150 mm	110 x 170 mm

Saw bands HSS bi-metal M 42		
Teeth per inch	Tooth angle	Article no.
5 - 8 tpi	0°	3357522
5 - 8 tpi	6°	3357516
6 - 10 tpi	0°	3357521
10 - 14 tpi	0°	3357520
Saw band set HSS bi-metal M 42 1 pc. saw band 6 - 10 tpi; 0 1 pc. saw band 5 - 8 tpi; 0° 1 pc. saw band 5 - 8 tpi; 6° 3357500		
"General saw band information" on page 220		



The metal-cutting band saw for challenging sawing tasks.

With manual gearing and 3 sawing speeds

Facts that impress in terms of quality, performance and price

- ► Low-noise running action
- ► Rugged cast design

Scope of supply

Material stop

Bi-metal saw band

Machine chassis

- ▶ Saw band lowering via hydraulic cylinder continuously adjustable by throttle valve
- ▶ Microswitch for automatic limit position cut-off
- ► Easily legible scale for adjusting the angle
- ► Equipped as a factory standard with bi-metal saw blade
- ▶ Ball-bearing borne saw band guide
- ▶ Rugged machine chassis with large wheels and handy transport bar allows trouble-free relocation of the machine
- Saw band tensioning at front, adjustable via handwheel
- Adjustable material stop for batch work
- ▶ Fully equipped; the user can immediately start productive work after commissioning





- > Three speeds
- > Switchable via gearbox



 Clamping jaws adjustable from 0° to 45° for mitre cuts



- > Integrated in chassis
- > Tank capacity 11 litres

Model	S 181G
Article no.	3300182

Technical specifications		
Electrical connection	400 V / 3 Ph ~50 Hz	
Motor output	750 W	
Coolant pump motor	90 W	
General instructions		
Lifting the saw head	manual	
Feed	continuously variable	
Saw band speed	45 / 67 / 77 m/min	
Saw band dimensions	2 362 x 19 x 0.9 mm	
Cutting angle	0° to 45°	
Dimensions		
Length	1 200 mm	
Width		
Without material stop	450 mm	
With material stop	600 mm	
Height		
Saw head bottom limit position	1 060 mm	
Saw head top limit position	1 550 mm	
Weight	130 kg	

	C	utting areas	
0 °	Ø 180 mm	180 mm	180 x 240 mm 65 x 300 mm
45°	Ø 110 mm	150 mm	110 x 170 mm

AQUACUT C1	3530030
> For cooling the cut	
> 10 litres	

Saw bands HSS bi	Saw bands HSS bi-metal M 42			
Teeth per inch	Tooth angle	Article no.		
5 - 8 tpi	0°	3357522		
5 - 8 tpi	6°	3357516		
6 - 10 tpi	0°	3357521		
10 - 14 tpi	0°	3357520		
Saw band set HSS bi-metal M 42 1 pc. saw band 6 - 10 tpi; 0 1 pc. saw band 5 - 8 tpi; 0° 1 pc. saw band 5 - 8 tpi; 6°		3357500		



Band saw for metal working with mitre-pivoting saw head and continuously adjustable saw band speed

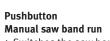
Facts that impress in terms of quality, performance and price

- ► Low-noise running action
- ► Grey cast base plate and saw head
- ► Stable saw frame for smooth, low-vibration
- ► Easily legible scale for adjusting the angle
- ► Equipped as a factory standard with bi-metal saw blade Saw band tensioning at front, adjustable via
- handwheel
- Adjustable material stop for batch work

Ball-bearing borne saw band guide

Machine chassis > Robust

- ► Fast workpiece clamping thanks to quick clamping vice
- ► Fully equipped; the user can immediately start productive work after commissioning



> Switches the saw band run on and off



- > Generously dimensioned
- > Emergency stop button
- > Coolant pump switch
- > Potentiometer



> Continuously variable saw band speed

Scope of supply

- > Material stop
- > Bi-metal saw band
- > Machine chassis
- > Coolant system

2	0 °	Ø 150 mm	160 mm	150 x 160 mm
	45°	Ø 105 mm	105 mm	105 x 130 mm
	60°	Ø 65 mm	65 mm	65 x 65 mm

Model	S 150G Vario
Article no.	3300150

Technical specifications	
Electrical connection	230 V / 1 Ph ~ 50 Hz
Motor output	1.1 kW
Coolant pump motor	50 W
General instructions	
Lifting the saw head	manual
Feed	continuously variable
Saw band speed	20 - 65 m/min
Number of speeds	Continuously variable
Saw band dimensions	1 735 x 12.7 x 0.9 mm
Cutting angle	0° to 60°
Dimensions	
Length of vice open/closed	1 120 / 930 mm
Width without/with material stop	510 / 720 mm
Height of saw head bottom/top limit position	1 240 / 1 590 mm
Weight	100 kg

AQUACUT C1	3530030
> For cooling the cut	
> 10 litres	

Saw bands HSS bi-metal M 42		
Teeth per inch	Tooth angle	Article no.
6 tpi	10°	3351521
6 - 10 tpi	0°	3351522
10 - 14 tpi	0°	3351538
Saw band set HSS bi-metal M 42 1 pc. saw band 6 tpi; 10° 1 pc. saw band 6 - 10 tpi; 0° 1 pc. saw band 10 - 14 tpi; 0°		
"General saw band information" on page 220		



Metal-cutting band saw ideal for light sawing work.

Mitre cutting from -45° to 60° via pivoting saw head

Facts that impress in terms of quality, performance and price

- ► Circuit breaker for belt cover and saw band cover, low-voltage version
- ► Separate emergency stop button
- ► Low-voltage electronics 24 V
- ► Low-noise running action
- ▶ Mobile machine chassis

Model

- ▶ Ball-bearing borne saw band guide
- ▶ Three gears for a wide choice of materials
- ► Microswitch for automatic limit position cut-off
- ▶ Easily legible scale for adjusting the angle
- ▶ Equipped as a factory standard with bi-metal saw blade
- Saw band tensioning at front, adjustable via handwheel
- ► Adjustable material stop for batch work
- ▶ Quick clamping vice for fast workpiece clamping

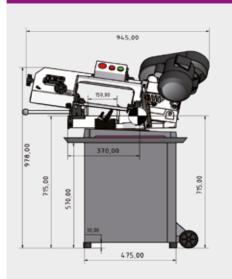


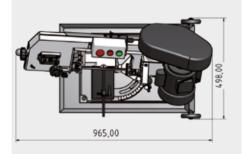


Fig.: S 131GH









Scope of supply

- > Material stop
- > Bi-metal saw band
- > Machine chassis

Cutting areas				
0 °	Ø 128 mm	145 mm		
45°	Ø 90 mm	100 mm		
60°	Ø 45 mm	45 mm		
-45°	Ø 90 mm	100 mm		
the continuous and a fact and the continuous forms of the continuous				

Article no.	3300131
Technical specifications	
Electrical connection	230 V / 1 Ph ~50 Hz
Motor output	1.1 kW
General instructions	
Lifting the saw head	manual
Feed	continuously variable
Saw band speed	22 / 31 / 55 m/min
Saw band dimensions	1 638 x 13 x 0.65 mm
Cutting angle	-45° to 60°
Weight	78 kg

Saw bands HSS bi-metal M 42			
Teeth per inch	Tooth angle	Article no.	
6 - 10 tpi	0°	3351512	
8 - 12 tpi	0°	3351517	
10 - 14 tpi	0°	3351518	
6 tpi 10°		3351511	
Saw band set HSS bi-metal M 42 1 pcs. Saw band 10 - 14 tpi; 0° 1 pc. Saw band 6 tpi; 0° 1 pc. Saw band 6 - 10 tpi; 6°		3351500	
"General saw band information" on page 220			



Light and handy metal band saw. Ideal for universal deployment on construction sites, on jobs, in customer service vehicles, workshops, hobby workshops and in agriculture



Facts that impress in terms of quality, performance and price

- ▶ Quick clamping vice for fast workpiece clamping
- ► Saw head swivels from 0° to 45° to allow angled sawing
- ► Easily legible scale for adjusting the angle
- ▶ Microswitch for automatic limit position cut-off
- Automatic lowering of the saw head via three-stage adjustable saw head lowering pressure
- ▶ Equipped as a factory standard with bi-metal saw blade
- Large, handy handle and light weight allow for trouble-free transport to the construction site
- Adjustable material stop for batch work
- ▶ Fully equipped; the user can immediately start productive work after commissioning
- ► Transportation lock



Switches the saw band off at the bottom stop





Ball-bearing borne 3-point guide



> Large, handy handle and light weight allow for trouble-free transport to the construction site

Optional accessory Machine chassis MUG 1

- > Stable, space-saving, folding, easy to transport
- > Dimensions L x W x H: 500 x 470 x 780 mm

Art. no. 3630000

Cutting areas 0° Ø 100 mm 100 mm 100 x 150 mm 45° Ø 65 mm 60 mm 60 x 100 mm

Scope of supply

> Material stop

> Operating tool

Model	3 1000
Article no.	3300100
Technical specifications	
Electrical connection	230 V / 1 Ph ~ 50 Hz
Motor output	370 W
General instructions	
Saw band speed	45 m/min
Saw band dimensions	1 470 x 13 x 0.65 mm
Cutting angle	0° to 45°
Dimensions	
Length of vice open / closed	950 / 850 mm
Width without/with material stop	300 / 660 mm
Height bottom/top limit position	680 / 820 mm
Weight	23 kg
11013110	27 115

Saw bands HSS bi-metal M 42			
Teeth per inch	Tooth angle	Article no.	
10 - 14 tpi	0°	3351110	
6 tpi	3351109		
Saw band set HSS bi-metal M 42 1 pcs. Saw band 10 - 14 tpi; 0° 3351100 2 pcs. Saw band 6 tpi; 10°			
"General saw band information" on page 220			



Transportable mitre bandsaws with excellent cutting precision, extremely low-noise.

With continuously adjustable saw band speed

Facts that impress in terms of quality, performance and price

- ▶ Equipped as a factory standard with bi-metal saw blade
- ► Adjustable material stop for batch work
- ▶ Pushbutton for saw band run switches the saw band run on and off
- ▶ Base plate with anti-slip feet
- ▶ Low vibration and wear thanks to special gearbox with two hardened steel gears
- ▶ Vario drive motor with low speed and carbon brushes for up to 10x longer service life

SP 11V

► Saw head swivels from 0° to +45° to allow angled sawing

SP 13V

► Saw head swivels from 0° to +60° to allow angled sawing



Machine chassis MUG 1
Stable, space-saving, folding, easy to transport
Dimensions L x W x H: 500 x 470 x 780 mm
Art. no. 3630000

Model	SP 11V	SP 13V
Article no.	3300070	3300075

Technical specifications		
Electrical connection	230 V / 1 Ph ~50 Hz	230 V / 1 Ph ~50 Hz
Motor output	850 W	1 kW
General instructions		
Saw band speed	30 - 80 m/min	30 - 80 m/min
Saw band dimensions	1 335 x 13 x 0.65 mm	1 440 x 13 x 0.65 mm
Cutting angle	0° - 45°	0° - 60°
Dimensions		
Length	650 mm	720 mm
Width without/with material stop	290 / 670 mm	300 / 650 mm
Height bottom/top limit position	450 / 630 mm	420 / 680 mm
Weight	19 kg	19.5 kg



 Easily legible scale for adjusting the angle



 Ball-bearing borne; for an excellent band run and thus optimal cutting



> Continuously adjustable saw band speed from 30 - 80 m/min.

Scope of supply

- > Material stop
- > Bi-metal saw band

Cutting areas				
SP 11V	0 °	Ø 105 mm	100 mm	100 x 100 mm
SP 13V	0 "	Ø 125 mm	125 mm	125 x 125 mm
SP 11V	4.50	Ø 65 mm	60 mm	60 x 65 mm
SP 13V	45°	Ø 85 mm	85 mm	85 x 85 mm
SP 13V	60°	Ø 45 mm	45 mm	45 x 50 mm

Saw bands HSS bi-metal M 42			
	Teeth per inch	Tooth angle	Article no.
SP 11V	6 - 10 tpi	0°	3351542
SP 11V	10 - 14 tpi	0°	3351543
CD 42V	6 - 10 tpi	0°	3351546
SP 13V	10 - 14 tpi	0°	3351547
"General saw band information" on page 220			

Height-adjustable MSR material stand as a manual aid for supporting and moving workpieces on metal-cutting saws. H version variably adjustable up to 1 050 mm

Facts that impress in terms of quality, performance and price

- ▶ Trouble-free and material transport when feeding and unloading workpieces
- ▶ Universally deployable for metal-cutting band saws, circular saws, etc.
- ▶ Roller support, continuously adjustable
- ► Safe workpiece support due to solid steel rollers with high load-bearing capacity
- ► Infinitely extensible
- Extension options for LMS length measuring systems
- ▶ Stable frame design with strong custom profile
- ► Steel bearing rollers, ball-bearing borne on both sides





- > Item No. 3357009
- > Additionally attachable
- > Made of non-slip PVC
- > To avoid scratches
- Simply slot the rollers into the holder provided
- > With practical wall-mount



- > Item No. 3357006
- > Additionally attachable
- > Can be fitted in both directions

Scope of supply

> Fastening material for extension

Model	MSR 4	MSR 7	MSR 10
Article no.	3357610	3357611	3357613
Model	MSR 4H	MSR 7H	MSR 10H
Article no.	3357001	3357002	3357003
Technical specifications			
Idler roller diameter	60 mm	60 mm	60 mm
Idler roller width	360 mm	360 mm	360 mm
Static table load	500 kg	700 kg	700 kg
Dimensions			
Length x width	1 000 x 440 mm	2 000 x 440 mm	3 000 x 440 mm
height	650 - 950 mm	650 - 950 mm	650 - 950 mm
Height H version	660 - 1 050 mm	660 - 1 050 mm	660 - 1 050 mm
Weight	30/33 kg	58/61 kg	78/83 kg



- > Item No. 3357005
- > Additionally attachable
- > With add-on parts right and left
- > Slots

Accessories	PVC rollers 3 pcs.	Table extension MSR 1	Connecting plate
Article no.	3357609	3357006	3357005

Digital trimming and length measuring systems for attaching to MSR material stand.

For perfect length measurement and precise positioning

Facts that impress in terms of quality, performance and price

- ▶ Magnetic measuring system with magnetic strip
- ▶ For recurring measuring tasks with high precision 0.05 mm
- ► Automatic display switch-on
- ► Material stop for small pieces with extension
- Positioning slide right- and left-hand, folds up
- ► In case of longer breaks, the measuring system switches off and keeps the last stored dimension
- ► Measuring precision: ±(0.025 + 0.02 x measuring length [m])
- ▶ Battery life of up to 10 years

- > Display: LCD
- > Switching functions:
- > Display reset
- > Reset
- > Directional display ±
- Absolute dimension and chain dimension function
- > Right and left stop



- > Easily movable
- > Precisely guided
- Replaceable, long-life dry plain bearings
- > Easy self-assembly



	Fig.: MSR	4 material stand with	LMS 10 length meas	suring system
Ma Ial	1115.40	146.00	1445 20	LMC (A
Model	LMS 10	LMS 20	LMS 30	LMS 40

Article no.	3383851	3383852	3383853	3383854
Technical specifications				
Rail length	1 000 mm	2 000 mm	3 000 mm	4 000 mm
Travel	830 mm	1 830 mm	2 830 mm	3 830 mm



- > Lubrication-free
- > Very quiet action
- > Wear resistant
- > Corrosion-resistant
- > Low friction values
- High static load bearing capacity

Other lengths on request

Manuel trimming and length measuring systems LMS 1M / LMS 2M for attaching to MSR material stand.

- ► For perfect length measurement and precise positioning
- ► For recurring measuring tasks with high precision



trimming and length measuring system	Article no.
LMS 1M (1 000 mm)	3383841
LMS 2M (2 000 mm)	3383842

Digital displayDRO1	Article no.
Mounting kit for LMS 1M / 2M	3383845





General saw band information

Workpiece

The workpiece to be machined must be firmly clamped so that it cannot vibrate or twist. Do not use damaged, bent or severely deformed workpieces. The closer the band saw guides are fixed relative to the workpiece, the more precise the cut becomes.



Teeth per inch

This figure describes the number of teeth per inch (25.4 mm).

As a general rule:

The shorter the cut length (e.g., sections), the finer the tpi you need to select. The greater the material attack (e.g., solid material), the coarser the tpi value used.

Too large a tpi value can cause the cut to run out as chips clog the gullet thus forcing the saw band out of its cutting line. To small a tpi value can cause teeth to break out as the cutting pressure on the individual tooth becomes too great. At least 3 teeth need to be engaged to achieve economical results.

Running in saw bands

- Correct running in guarantees a long service life.
- ► Sharp cutting edges with extremely small edge radii are the precondition for high cutting capacity of the saw bands.
- ► To achieve an optimal service life, we recommend running in the saw band appropriately.
- ▶ Depending on the material and the dimension of the material you are cutting, determine the correct cutting speed (m/min.) and feed rate (mm/min.).
- ▶ The important thing is that the new saw band should be deployed at approx. 50 % of the determined feed rate only. The idea is to avoid the extremely sharp cutting edges on the teeth being damaged by micro fracturing in case of large chip
- ▶ New saw bands can tend to vibrate and cause vibration noise initially. If this happens, reduce the cutting speed slightly. In case of small workpiece dimensions, the run-in should be over approx. 300 500 cm² of the material you are cutting.
- ▶ If you are processing large workpiece dimensions, we recommend running in for a period of approx. 15 min. After running in, gradually increase the feed rate to the target value determined previously.

Materials	Cutting speed (M42)
Construction steel/Machining steel	80 - 90 m/min
Case-hardened steels/Heat-treated steels	45 - 75 m/min
Unalloyed tool steels/Rolled steels	40 - 60 m/min
Alloyed tool steels/high-speed steels	30 - 40 m/min
Stainless steels	20 - 35 m/min
Heat resistant steels/Highly heat-resistant alloys	15 - 25 m/min

Optimal chip formation

Chips are the best indicator of a correctly adjusted feed and the correct saw band speed. Take a look at the chips you generate and set the feed correctly.

Thin chips that look like powder

> Increase the feed rate or reduce the saw band speed.



Burnt, heavy chips

> Reduce the feed rate and/or the saw band speed



Crinkly, silver and warm chips

> Optimal feed rate and sawing speed



Teeth per inch when using HSS bi-metal bands										
Standard tpi		Combined tpi		Sawing tubes and sections						
Section cross- section	Number of teeth per inch	Section cross- section	Number of teeth per inch	diameter	Ø 40	Ø 80	Ø 100	Ø 150	Ø 200	Ø 300
				Wall thickness	Teeth per inch					
< 12 mm	14 tpi	< 25 mm	10 - 14 tpi	3 mm	8 - 12	8 - 12	8 - 12	8 - 12	6 - 10	6 - 10
12 - 30 mm	10 tpi	20 - 40 mm	8 - 12 tpi	8 mm	8 - 12	6 - 10	6 - 10	5 - 8	4 - 6	4 - 6
30 - 50 mm	8 tpi	25 - 70 mm	6 - 10 tpi	12 mm	6 - 10	5 - 8	5 - 8	4 - 6	4 - 6	4 - 6
50 - 80 mm	6 tpi	35 - 90 mm	5 - 8 tpi	15 mm	5 - 8	4 - 6	4 - 6	4 - 6	3 - 4	3 - 4
80 - 100 mm	4 tpi	50 - 100 mm	4 - 6 tpi	20 mm	-	4 - 6	4 - 6	4 - 5	4 - 5	4 - 5