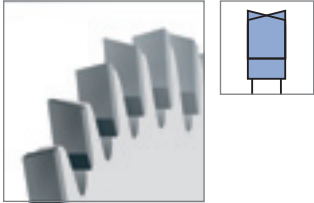


# 1. Sawing

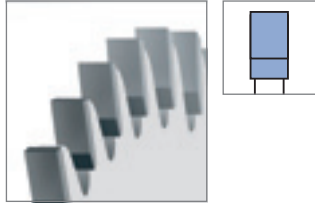
## 1.1 Multi-purpose cutting

<b>Application</b>	Multi-purpose applications in solid wood and wood derived materials.
<b>Workpiece material</b>	Solid wood, coated and uncoated timber products, glulam.
<b>Machine</b>	Table saws, portable saws, cross cut saws.

**Tooth shape**

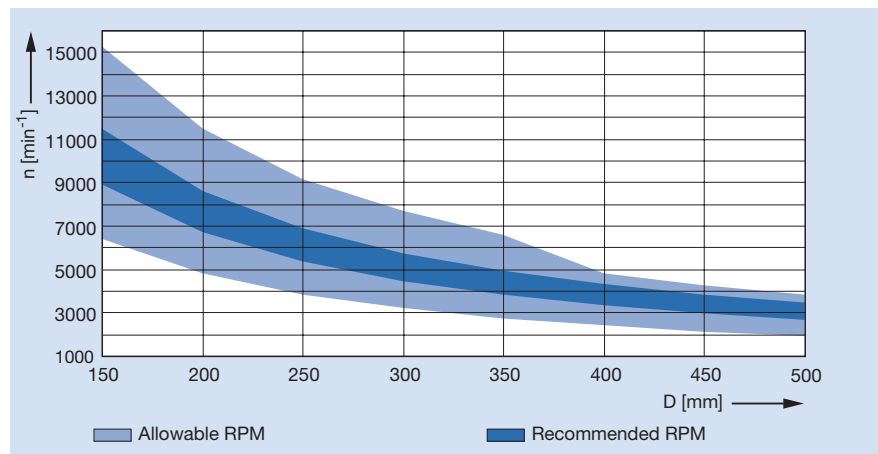


**WZ (alternative top bevel teeth):**  
Multi-purpose tooth shape, economical to purchase and maintain – medium cut quality.



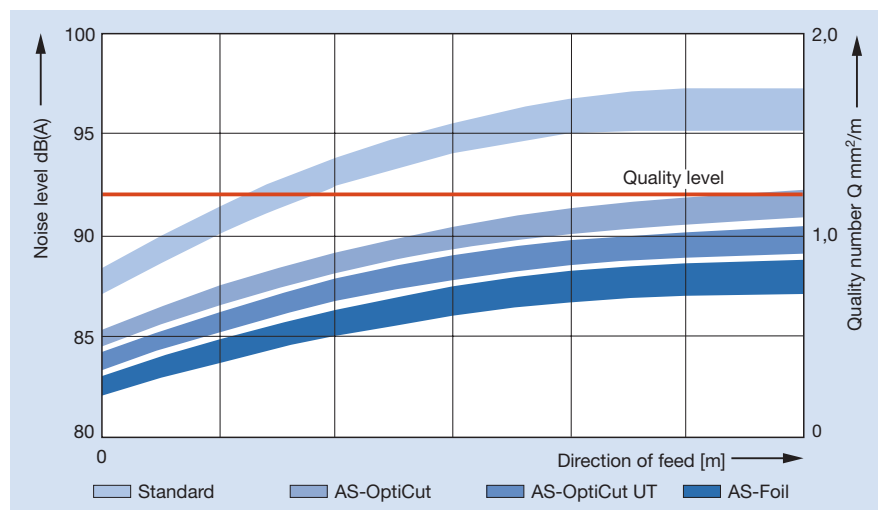
**TR (trapezoidal teeth):** Stable tooth shape, suitable for use on construction sites and when cutting contaminated materials (e. g. wood with concrete, etc.).

**RPM diagram**



**Low-noise sawblades**

Comparison of the efficiency of noise reduction for different designs of circular sawblades and edge quality  $Q$  depending on the performance.



**Advantages of low-noise sawblades**

- Optimum noise reduction.
- Longer performance time from vibration damping.
- High cut quality, less wear and down time.
- Quiet running because of the high stability of the tool body.
- Reduced noise level up to 8 dB(A) when idling; improved operator working conditions due to lower noise level.
- Can be resharpened on all popular makes of automatic saw sharpening machines.

# 1. Sawing

## 1.1 Multi-purpose cutting 1.1.1 Multi-purpose circular sawblades



### Multi-purpose sizing - medium cut quality

**Application:**

For multi-purpose application, medium cut quality.

**Machine:**

Circular saw bench.

**Workpiece material:**

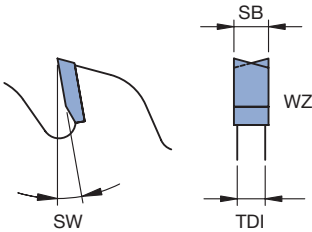
Softwood and hardwood, wet or dry, up to 100 mm cutting height.

**Technical information:**

Tool body tooth shape with chip thickness limitation.

**Sawblade - 100 mm cutting height**

WK 150-4-GA



D mm	SB mm	TDI mm	BO mm	BO <sub>max.</sub> mm	NLA mm	FLD mm	Z	ZF	SW Degree	ID
250	3,2	2,2	30	80		100	24	WZ	20	<b>069523</b> ●
300	3,2	2,2	30		2/10/60	120	28	WZ	20	<b>069524</b> ●
350	3,2	2,2	30		2/10/60	120	32	WZ	20	<b>069525</b> ●
400	4,0	2,8	30		2/10/60	140	36	WZ	20	<b>069526</b> ●



### Multi-purpose sizing - medium cut quality

**Application:**

For cross-cutting and sizing, medium cut quality.

**Machine:**

Circular saw bench.

**Workpiece material:**

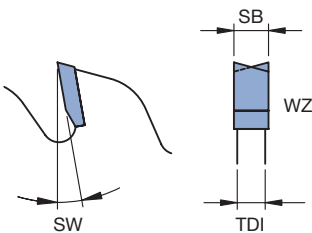
Softwood and hardwood up to 60 mm cutting height, uncoated wood materials up to 40 mm cutting height.

**Technical information:**

Suitable for machines with manual feed, stable tool body design.

**Cawblade - 60 mm cutting height**

WK 850-2-GA

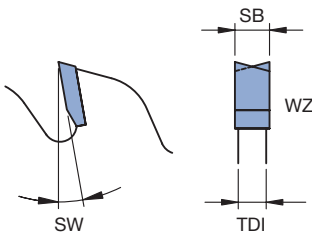


D mm	SB mm	TDI mm	BO mm	BO <sub>max.</sub> mm	NLA mm	FLD mm	Z	ZF	SW Degree	ID
150	3,5	2,5	30	60		80	24	WZ	10	<b>069533</b> ●
180	3,5	2,5	30	60		80	30	WZ	10	<b>069534</b> ●
200	3,2	2,2	30	80		100	34	WZ	10	<b>069535</b> ●
250	3,2	2,2	30	80		100	40	WZ	10	<b>069536</b> ●
300	3,2	2,2	30		2/10/60	120	48	WZ	10	<b>069537</b> ●
350	3,2	2,2	30		2/10/60	120	54	WZ	10	<b>069538</b> ●
400	3,8	2,8	30		2/10/60	140	60	WZ	10	<b>069539</b> ●

## 1. Sawing

### 1.1 Multi-purpose cutting

#### 1.1.1 Multi-purpose circular sawblades



##### Workpiece material:

Softwood and hardwood up to 50 mm cutting height, uncoated and veneered wood materials up to 30 mm cutting height.

##### Sawblade - 50 mm cutting height

WK 850-2-MA

D	SB	TDI	BO	BO <sub>max.</sub>	NLA	FLD	Z	ZF	SW	ID
mm	mm	mm	mm	mm	mm	mm			Degree	
200	3,2	2,2	30	60		80	48	WZ	10	<b>069540</b> ●
250	3,2	2,2	30	80		100	60	WZ	10	<b>069541</b> ●
300	3,2	2,2	30		2/10/60	120	72	WZ	10	<b>069542</b> ●
350	3,2	2,2	30		2/10/60	120	84	WZ	10	<b>069543</b> ●
400	3,2	2,2	30		2/10/60	140	96	WZ	10	<b>069544</b> ●



#### Multi-purpose sizing - high cut quality

##### Application:

For multi-purpose application.

##### Machine:

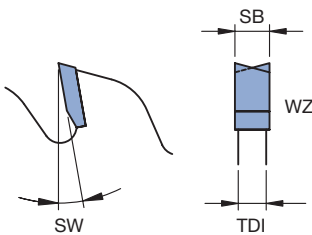
Circular saw bench.

##### Workpiece material:

Softwood and hardwood dry and wet up to 160 mm cutting height, uncoated wood derived materials up to 50 mm cutting height.

##### Technical information:

Tool body tooth shape with chip thickness limitation



##### Sawblade - 160 mm cutting height

WK 150-4

D	SB	TDI	BO	BO <sub>max.</sub>	NLA	FLD	Z	ZF	SW	ID
mm	mm	mm	mm/in	mm	mm	mm			Degree	
190	3,4	2,2	30	60		80	20	WZ	20	<b>057120</b> ●
250	3,2	2,2	30	80		100	24	WZ	20	<b>057123</b> ●
300	3,2	2,2	30		2/10/60	120	28	WZ	20	<b>057125</b> ●
350	3,5	2,4	25,4/1"			120	32	WZ	20	<b>057135</b> ●
350	3,5	2,4	30		2/10/60	120	32	WZ	20	<b>057136</b> ●
400	4,0	2,8	30		2/10/60	140	36	WZ	20	<b>057128</b> ●
450	4,0	2,8	30		2/10/60	140	42	WZ	20	<b>057129</b> ●
500	4,4	2,8	30	100		140	48	WZ	20	<b>057130</b> ●
550	4,4	3,0	30	100		140	54	WZ	20	<b>057131</b> ●

# 1. Sawing

## 1.1 Multi-purpose cutting 1.1.1 Multi-purpose circular sawblades



### Multi-purpose sizing - noise reduced

**Application:**

For multi-purpose application, for noise-reduced cutting.

**Machine:**

Circular saw bench.

**Workpiece material:**

Softwood and hardwood dry and wet up to 100 mm cutting height, uncoated wood derived material up to 40 mm cutting height.

**Technical information:**

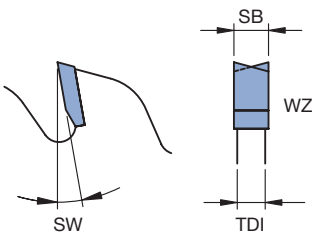
**AS OptiCut UT** design - Noise reduction by up to 8 dB(A). Tool body with vibration damping laser ornaments and irregular tooth pitch.



**Sawblade AS OptiCut UT - 80 mm cutting height**

WK 170-3-50

D	SB	TDI	BO	BO <sub>max.</sub>	NLA	FLD	Z	ZF	SW	ID
mm	mm	mm	mm	mm	mm	mm			Degree	
300	3,2	2,2	30	100	2/10/60	120	28	WZ	20	<b>069000</b> ●
350	3,2	2,2	30	100	2/10/60	120	32	WZ	20	<b>069001</b> ●
400	3,8	2,8	30	100	2/10/60	120	36	WZ	20	<b>069091</b> ●
450	4,0	2,8	30	100	2/10/60	120	42	WZ	20	<b>069092</b> ●
500	4,4	3,0	30	100	2/10/60	120	48	WZ	20	<b>069093</b> ●



## 1. Sawing

### 1.1 Multi-purpose cutting

#### 1.1.1 Multi-purpose circular sawblades



#### Sizing cut

**Application:**

For multi-purpose application, also suitable as splitting saw for glazing beads for window tool sets.

**Machine:**

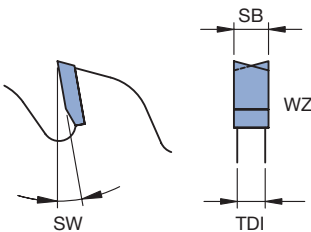
Circular saw bench.

**Workpiece material:**

Softwood and hardwood, dry, up to 80 mm cutting height, veneered wood materials or laminated wood up to 50 mm cutting height.

**Technical information:**

Suitable for use on moulders and window-making machines.



**Sawblade - 80 mm cutting height**

WK 150-2-07

D	SB	TDI	BO	BO <sub>max.</sub>	NLA	FLD	Z	ZF	SW	ID
mm	mm	mm	mm	mm	mm	mm			Degree	
180	3,0	2,0	30	60		80	24	WZ	15	<b>057980</b> ●
180	3,0	2,0	40	60		80	24	WZ	15	<b>057985</b> ●
200	3,0	2,0	30	60		80	24	WZ	15	<b>057981</b> ●
250	3,2	2,2	30	80		100	30	WZ	15	<b>057982</b> ●
300	3,2	2,2	30		2/10/60	120	36	WZ	15	<b>057983</b> ●
350	3,2	2,2	30		2/10/60	120	42	WZ	15	<b>057984</b> ●
400	3,5	2,5	30		2/10/60	140	48	WZ	15	<b>057986</b> ●

# 1. Sawing

## 1.1 Multi-purpose cutting

### 1.1.2 Multi-purpose circular sawblades - thin kerf



#### Multi-purpose sizing - high cut quality

**Application:**

For multi-purpose application - low cutting and feed forces.

**Machine:**

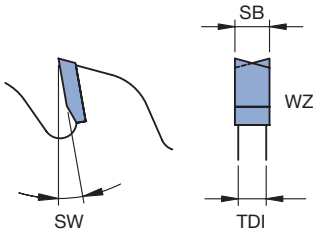
Circular saw bench.

**Workpiece material:**

Softwood and hardwood up to 50 mm cutting height, veneered wood materials or laminated wood up to 35 mm cutting height.

**Technical information:**

Reduced cutting width and tool body thickness and low cutting and feed forces.



**Sawblade - 50 mm cutting height**

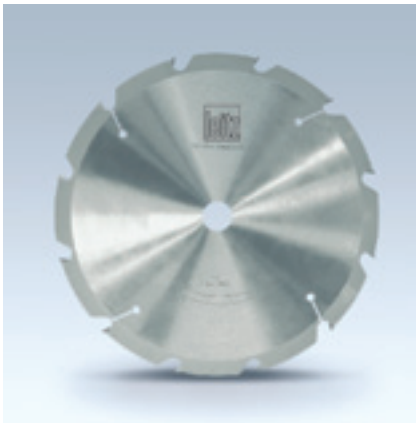
WK 150-2-03

D mm	SB mm	TDI mm	BO mm	BO <sub>max.</sub> mm	NLA mm	FLD mm	Z	ZF	SW Degree	ID
180	2,4	1,6	30	60		80	30	WZ	15	<b>057800</b> ●
200	2,4	1,6	30	60		80	34	WZ	15	<b>057801</b> ●
250	2,4	1,6	30	80		100	40	WZ	15	<b>057802</b> ●
300	2,4	1,6	30		2/10/60	120	48	WZ	15	<b>057803</b> ●
350	2,8	2,0	30		2/10/60	120	54	WZ	15	<b>057805</b> ●

## 1. Sawing

### 1.1 Multi-purpose cutting

#### 1.1.3 Circular sawblades for the building industry



#### Multi-purpose sizing

**Application:**

For multi-purpose application, low cut quality.

**Machine:**

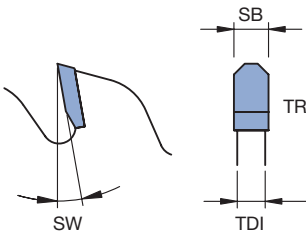
Circular saws for the building industry.

**Workpiece material:**

Formwork panels and timber with small concrete and metal inclusions, wood wool, gypsum plaster boards and gas concrete blocks.

**Technical information:**

Tool body with round, closed and stable tooth shape. Tough for construction purposes where lower cut quality is acceptable.



**Sawblade**

WK 903-3

Machine	D mm	SB mm	TDI mm	BO mm	BO <sub>max.</sub> mm	FLD mm	Z	ZF	SW Degree	ID
Avola	300	3,2	2,2	30	80	120	20	TR	12	<b>060309</b> ●
Avola	350	3,5	2,5	30	100	120	24	TR	12	<b>060311</b> ●
Avola	400	3,8	2,8	30	100	140	28	TR	12	<b>060312</b> ●
Elektra Beckum Mafell Scheppach										
Avola	450	4,0	3,0	30	100	140	32	TR	12	<b>060313</b> ●
Elektra Beckum Mafell										
Avola	500	4,0	3,0	30	100	140	36	TR	12	<b>060314</b> ●
Scheppach										