



**Rock-hard material.  
Simple cut.**

Instead of banging their heads against a brick wall, true professionals rely on our power tools for results. At construction sites, road works or in the hands of emergency services, the STIHL cut-off machine tackles the really tough cutting operations. Whether breaking through


stone, asphalt or concrete, it has what it takes to get the job done. The STIHL concrete cutter works hand-in-hand with the cut-off machine: from cutting wall openings and window corners to plunge cutting jobs and ploughing through walls of concrete, natural and masonry stone.


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- 1 2-MIX engine**  
The STIHL GS 461 features a modern, low-emission STIHL 2-MIX engine. Depending on how you use the machine, 2-MIX engines consume up to 20 % less fuel compared to STIHL two-stroke engines of the same performance class without 2-MIX technology. The 2-MIX engine also delivers great performance with high torque over a wide rpm range.
- 2 Diamond cut-off chain**  
The STIHL chain for wet cutting stone has pre-sharpened diamond segments for top performance from the very first cut. The structure of the chain, with humped drive links, ensures quiet, low-vibration operation. The STIHL diamond cutting chain 36 GBM features diamond segments on every second chain link. The 36 GBE diamond cut-off chain is new. This chain is an affordable entry-level model for a concrete cutter. Both chains deliver fast cutting.
- 3 Guide bars with water supply**  
The guide bars feature water channels. For washing and cooling the chain, chain track and sprocket nose. This ensures the long service life of the bar and chain, while also minimising the production of dust.






- 4 Side-mounted chain tensioning**  
The side-mounted chain tensioning ensures the chain is tensioned safely and easily.
- 5 Water connection**  
The water connection fitting is located on the tool and is raised slightly, making it easy to connect the tool to a water source. The water serves to suppress dust and also cools, cleans and lubricates the bar and chain.
- 6 Long-life air filter system**  
The long-life air filter system with HD2 filter and additional filter catches even the finest particles and prevents dust from entering the tool. It protects the engine from wearing, so that the tool requires only infrequent servicing.

 This symbol stands for wet cutting and marks the use of water while cutting. The water suppresses the creation of dust and helps to cool and lubricate the tool.

 Please note that not all products are equipped with the features listed here. Only the most important features are described on this page. You can find further explanations and information from page 272 onwards and online at [www.stihl.com](http://www.stihl.com).



## Concrete cutter and accessories

-  For professional construction workers
-  For wet cutting concrete, stone and masonry
-  For cutting pipes
-  Ideal for cutting out corners in wall openings
-  Perfectly complements the cut-off machine

### GS 461



**76.5 cm<sup>3</sup>, 4.3 kW/5.8 hp, 7.6 kg\***. Handles like a chain saw, with the power of a cut-off machine: side-mounted chain tensioning, STIHL anti-vibration system, water connection, decompression valve, STIHL ElastoStart, water-resistant starter cord, HD2 filter, standing fillable Bayonet fuel cap, 2-MIX engine.

Bar length**	Order No.
40 cm	4252 200 0003

### STIHL professional tip:



The concrete cutter perfectly complements the classic cut-off machine. It's ideal for precisely cutting corners, for example. First, the corners are pre-cut (pierced) using the concrete cutter and then the long, straight cuts are carried out using the cut-off machine. When using both tools, even larger openings can be cut efficiently and precisely. The resulting cut-outs can be incredibly heavy, so they should first be measured and, if required, divided into several pieces.

Suitable fuels and lubricants are listed from page 193 onwards.

\* Weight excluding fuel, guide bar and diamond concrete cutter chain  
\*\* The actual bar length may be shorter than that given

**36 GBM diamond concrete cutter chain**



For quick, smooth and low-vibration wet cutting through concrete, hard stone, in suitable conditions brick and ductile cast iron pipes, pre-sharpened diamond segments.

Bar length*	Order No.
30 cm** <b>NEW</b>	3210 050 0054
40 cm	3210 050 0064

**Rollomatic G guide bar**



With water flushing in guide bar and sprocket nose. Especially developed for the GS 461, the bar has two holes for extending the tensioning range, hardened chain track.

Bar length*	Order No.
30 cm <b>NEW</b> **	3006 000 1205
40 cm	3006 000 1213

**36 GBE diamond cut-off chain**

**NEW**



Affordable entry-level chain, for quick, quiet and low-vibration wet cutting. Especially suitable for building material like brick and lime sand brick, pre-sharpened diamond segments.

Bar length*	Order No.
30 cm**	3211 050 0054
40 cm	3211 050 0064

**Guide claw**



**NEW**

Guide and support when cutting through concrete and brickwork. Made of hardened, galvanized steel, for GS 461.

Order No. 4252 660 0900



Order number	Rollomatic G guide bar (bar length, cm*)	Displacement (cm³)	Power output (kW/hp)	Weight (kg)***	Sound pressure level**** (dB(A))	Sound power level**** (dB(A))	Vibration level left/right***** (m/s²)	Saw chain pitch	STIHL diamond cut-off chain	Side-mounted chain tensioning	STIHL anti-vibration system	Water connection	Decompression valve	STIHL ElastoStart	Wear-resistant starter cord	HD2 filter	Tool-free oil tank cap	STIHL engine (2-MIX/4-MIX®)
<b>GS 461</b>	40	76.5	4.3/5.8	7.6	105	115	4.5/4.0	3/8"	GBM	●	●	●	●	●	●	●	●	2-MIX

● Fitted as standard      \*\*\* Weight excluding fuel, guide bar and diamond concrete cutter chain      \*\*\*\*\* K factor according to Dir. 2006/42/EC = 2 m/s²  
 \*\*\*\* K factor according to Dir. 2006/42/EC = 2.5 dB(A)

**1 STIHL Injection (i)**

The electronically controlled fuel injection ensures a smooth-running tool every time and reduces fuel consumption in comparison with tools without injection technology.



**2 STIHL anti-vibration system**

Buffer and spring elements reduce the transmission of engine vibrations to the operator's arms and hands. This makes freehand cutting much less strenuous.

**3 Water connection**

The water connection comes as standard and supplies the cutting wheel with water for wet cutting. This effectively suppresses the dust generated during cutting.

**4 Long-life air filter system with cyclone air routing**

This ensures a filter service life of up to a year (depending on operating conditions) and dispenses with the need to clean the filter regularly.

**5 Toolless oil tank cap**

Allows easy, toolless opening and closing of the tank and can be refuelled standing. Also protects the tank from penetrating dust.





**i** Please note that not all products are equipped with the features listed here. Only the most important features are described on this page. You can find further explanations and information from page 272 onwards and online at [www.stihl.com](http://www.stihl.com).

\* The actual bar length may be shorter than that given

\*\* Available from spring 2014!



## Cut-off machines and accessories

-  Hand-held tools
-  For heavy duty cutting operations on construction sites
-  For cutting concrete, stone, asphalt and bricks
-  Extremely robust and powerful

### TS 410



**66.7 cm<sup>3</sup>, 3.2 kW/4.4 hp, 9.4 kg\***. Light and manageable cut-off machine. 300 mm cutting wheels to cut up to 100 mm deep. The STIHL anti-vibration system guarantees the cut-off machine cuts well. Long-life air filter system, strength-saving start-up process thanks to the decompression valve, economically- and environmentally-friendly 2-MIX engine.

**Order No. 4238 011 2800**

➤ See the table on page 198 for further versions

### TS 480i



**72.2 cm<sup>3</sup>, 3.9 kW/5.3 hp, 10.0 kg\***. For 300 mm cut-off saw cutting wheels. The electronically controlled injection ensures straightforward operation that is smooth-running, thanks to a starting position. Together with the anti-vibration system, the tool helps you to achieve a very exact cut. Electronic water control for easy water supply metering. STIHL ElastoStart and the decompression valve make starting the machine notably easier. High torque, with economically- and environmentally-friendly 2-MIX engine.

**Order No. 4250 011 2804**

### TS 700



**98.5 cm<sup>3</sup>, 5.0 kW/6.8 hp, 11.6 kg\***. Strongest cut-off machine for 350 mm cut-off saw cutting wheels. The cut-off machine is perfectly suited to the FW 20 cart. Equipped decompression valve and STIHL ElastoStart for strength-saving start-up process and the long-life air filter system. Economically- and environmentally-friendly 2-MIX engine.

**Order No. 4224 011 2800**

### TS 420



**66.7 cm<sup>3</sup>, 3.2 kW/4.4 hp, 9.6 kg\***. An all-purpose cut-off machine for above and below ground. With 350 mm cutting wheels to cut up to 125 mm deep. The STIHL anti-vibration system guarantees the cut-off machine cuts well. Long-life air filter system, strength-saving start-up process thanks to the decompression valve, economically- and environmentally-friendly 2-MIX engine.

**Order No. 4238 011 2810**

➤ See the table on page 198 for further versions

### TS 500i



**72.2 cm<sup>3</sup>, 3.9 kW/5.3 hp, 10.2 kg\***. For 350 mm cut-off saw cutting wheels. The electronically controlled injection ensures straightforward operation that is smooth-running, thanks to a starting position. Electronic water control for easy water supply metering. Together with the anti-vibration system, the tool helps you to achieve a very exact cut. STIHL ElastoStart and the decompression valve make starting the machine notably easier. High torque, with economically- and environmentally-friendly 2-MIX engine.

**Order No. 4250 011 2810**

### TS 800



**98.5 cm<sup>3</sup>, 5.0 kW/6.8 hp, 13.0 kg\***. STIHL cut-off machine for 400 mm cut-off saw cutting wheels. Cut depth of 145 mm. Perfectly suited to the separating cut on the FW 20 cart. Equipped decompression valve and STIHL ElastoStart for strength-saving start-up process and the long-life air filter system. Economically- and environmentally-friendly 2-MIX engine.

**Order No. 4224 011 2810**

Suitable fuels and lubricants are listed from page 193 onwards.

i = STIHL Injection

\* Weight excluding fuel and cutting wheel

Illustrations include optional equipment

**Pressurised water container**



10 l. For mobile water supply to cut-off machines on construction sites with no water connections. Not only recommended for the GS 461.

**Order No. 0000 670 6000**

**Wheel kit**



Attachment kit for the front foot. The cut-off machine is supported on flat surfaces, smooth-running wheels facilitate moving the tool, for TS 410, TS 420, TS 480i, TS 500i, TS 700 and TS 800.

**Order No. 4224 007 1014**

**Construction helmet**



Lightweight polyethylene construction helmet with ventilation openings on both sides in the top part of the helmet crest. Moisture is absorbed by an adjustable sweat-band on the inside, with rain gutter to channel off water, compliant with EN 397.

Blue  
**Order No. 0000 884 0197**

White  
**Order No. 0000 884 0198**

Yellow  
**Order No. 0000 884 0199**

**SUPER FIT safety glasses**



Very light glasses with a sporty design. Large lenses with 100 % UV protection, scratch-resistant exterior and interior, permanently non-misting. EN 166.

Orange  
**Order No. 0000 884 0344**

Tinted  
**Order No. 0000 884 0346**

Clear  
**Order No. 0000 884 0347**

Red  
**Order No. 0000 884 0345**

More protective equipment is listed from page 238 onwards.



**FW 20 cart**



For exact edges over long cuts, with depths accurate to the millimetre. Suitable for all hand-held STIHL cut-off machines, an attachment kit with a quick-mounting system has to be ordered.

**Order No. 4224 710 1402**

**Quick-mounting system conversion kit**



For cart FW 20.

For TS 400  
**Order No. 4223 790 0702**

For TS 410, TS 420, TS 480i, TS 500i  
**Order No. 4250 790 0700**

For TS 700, TS 800  
**Order No. 4224 790 0705**

**Water tank**



13 l. For cart FW 20. With coupling sleeve.

**Order No. 4224 007 1018**

**Cutting direction indicator**



For cart FW 20.

**Order No. 4205 007 1009**

Order number	Displacement (cm <sup>3</sup> )	Power output (kW/hp)	Weight (kg)*	Sound pressure level** (dB(A))	Sound power level** (dB(A))	Vibration level left/right*** (m/s <sup>2</sup> )	Cutting wheel (mm)	Max. cutting depth (mm)	Total length (cm)	STIHL anti-vibration system	Magnesium guard	Water connection	STIHL electronic water control (A)	Semi-automatic belt tensioning	Decompression valve	Cyclone air routing	STIHL ElastoStart	Wear-resistant starter cord	STIHL engine (2-MIX/4-MIX®)	STIHL Injection (i)
<b>TS 410</b>	<b>4238 011 2800</b>	66.7	<b>3.2/4.4</b>	9.4	98	109	3.9/3.9	300	100	67.5	●	●	●	●	●	●	○	●	2-MIX	–
<b>TS 410 A</b>	<b>4238 011 2804</b>	66.7	<b>3.2/4.4</b>	9.9	98	109	3.9/3.9	300	100	67.5	●	●	●	●	●	●	○	●	2-MIX	–
<b>TS 420</b>	<b>4238 011 2810</b>	66.7	<b>3.2/4.4</b>	9.6	98	109	3.9/3.9	350	125	72.5	●	●	●	●	●	●	○	●	2-MIX	–
<b>TS 420 A</b>	<b>4238 011 2815</b>	66.7	<b>3.2/4.4</b>	10.1	98	109	3.9/3.9	350	125	72.5	●	●	●	●	●	●	○	●	2-MIX	–
<b>TS 480i</b>	<b>4250 011 2804</b>	72.2	<b>3.9/5.3</b>	10.0	98	112	2.2/2.2	300	100	68.2	●	●	●	●	●	●	●	●	2-MIX	●
<b>TS 500i</b>	<b>4250 011 2810</b>	72.2	<b>3.9/5.3</b>	10.2	98	112	2.4/2.0	350	125	73.0	●	●	●	●	●	●	●	●	2-MIX	●
<b>TS 700</b>	<b>4224 011 2800</b>	98.5	<b>5.0/6.8</b>	11.6	101	113	6.6/4.5	350	125	85.0	●	●	●	●	●	●	○	●	2-MIX	–
<b>TS 800</b>	<b>4224 011 2810</b>	98.5	<b>5.0/6.8</b>	13.0	101	113	6.5/3.9	400	145	89.0	●	–	●	●	●	●	○	●	2-MIX	–

● Fitted as standard    ○ Retrofittable (accessory)    A = Electronic water control    i = STIHL Injection    ⊙ With synthetic resin cutting wheel    \* Weight excluding fuel and cutting wheel    \*\* K factor according to Dir. 2006/42/EC = 2.5 dB(A)    \*\*\* K factor according to Dir. 2006/42/EC = 2 m/s<sup>2</sup>

**Cart**

- For longer cutting distances and precise edges
- Simple, toolless assembling and disassembling of the cut-off machine

**STIHL professional tip:**

The FW 20 cart can be folded together and stored easily. One person can transport it effortlessly. Even the quick-release device boasts many advantages making the cut-off machine multi-talented. That's how you benefit from having two tools in one – cut-off machine and compact cart-mounted cut-off saw.





### Diamond cut-off saw cutting wheels



#### Asphalt (A)

For cutting asphalt, fresh concrete, abrasive concrete and sandstone. Segment height 10 mm with increased cutting performance across all performance classes, protection segments, main blade, painted black.



#### Concrete (B)

For cutting concrete, clay bricks and exposed aggregate concrete, as well as reinforced concrete and general construction materials. Available in different performance classes, painted grey.



#### Concrete/Asphalt (BA)

All-purpose wheels. With its specially aligned segments suitable for cutting soft materials such as asphalt, reinforced concrete or concrete blocks.



#### Hard stone/Concrete (SB)

All-purpose professional wheels. Suitable for bricks, concrete, clinker, granite and ductile cast iron pipes. High temperature resistant segment structure, recommended for cutting thick construction steel up to 10 mm. Also recommended for clearance work in disaster situations.

### Abrasive cut-off saw cutting wheels



#### Stone

Cutting wheel for general construction use.



#### Steel

For use in construction or in metal processing operations.



#### Asphalt/ Ductile cast iron

Special cutting wheel for road construction and pipeline engineering.



#### Stone (wet cutting)

For wet cutting stone and concrete without creating dust clouds.

Diamond cut-off saw cutting wheels		
	Order number	Ø Diameter (mm)
Asphalt (A)	0835 080 7009	300
	A 5 0835 080 7012	350
	0835 080 7017	400
	A 40 0835 080 7010	300
	0835 080 7013	350
	0835 080 7015	400
Concrete/Asphalt (BA)	A 80 0835 080 7011	300
	0835 080 7014	350
	0835 080 7016	400
Concrete (B)	BA 80 0835 090 7005	300
	0835 090 7006	350
	0835 090 7011	400
Hard stone/Concrete (SB)	B 5 0835 090 7000	300
	0835 090 7001	350
	B 10 0835 090 7022	300
	0835 090 7023	350
	0835 090 7024	400
	B 20 0835 090 7025	300
	0835 090 7026	350
	0835 090 7027	400
	B 60 0835 090 7028	300
	0835 090 7029	350
	0835 090 7030	400
	SB 80 0835 090 7007	300
0835 090 7008	350	
0835 090 7031	400	
Abrasive cut-off saw cutting wheels		
Stone	0835 020 7000	300
	0835 020 7001	350
	0835 020 7002	400
Asphalt/Ductile cast iron	0835 030 7000	300
	0835 030 7001	350
	0835 030 7002	400
Steel	0835 010 7000	300
	0835 010 7001	350
	0835 010 7002	400
Stone (wet cutting)	0835 020 7004	350

## Cut-off saw cutting wheels

- Abrasive and diamond cutting wheels for cutting natural stone, asphalt, steel and concrete
- Designed to perfectly match STIHL cut-off machines
- Long service life and high cutting performance