

TOOLGAL

Innovative Diamond Tools

T O T A L C H A I N S O L U T I O N S



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For over 50 years TOOLGAL has provided the highest quality industry standard and custom made Diamond tools for many industries.

TOOLGAL products combine in-depth metallurgical knowledge, innovative engineering capabilities, wide application experience as well as flexible and advanced manufacturing capabilities, allowing us to create a wide range of tailor made solutions for customers around the world.

TOOLGAL'S superior Quality System reduces equipment, material and human variance factors, ensuring consistent quality products and processes.

HIGH QUALITY CHAINS

Superior performance laser welded diamond chain for:

- General building materials
- Reinforced concrete
- Block/ Sandstone/ Abrasive materials
- Building Bricks
- Firebrick/ Refractories
- Stone /Granite
- Coal
- Ductile iron/ Cast iron/ PVC/ HDPE

SPEED - 25% faster than others.

LIFE SPAN – 25% longer life span than others.

IMPROVED USER EXPERIENCE – Diamond segment on each link provides smoother cutting, higher output and less vibration.

BULK CONCEPT – Efficient stock management solution: easy cut to size and repair capability.

COMPLETE KIT – Provides a compatible answer for most common chain cutting machines.

ACCESSORIES – Compatible high quality guide bars, sprockets and chain parts.

TECHNICAL SUPPORT – Direct from the manufacturer.



THE 7/16" X CHAIN

Designed for heavy duty use

Choosing the right chain for the project is essential in achieving the best value.
Superior performance laser welded Diamond chain for:

- General building materials
- Reinforced concrete
- Block/ Sandstone/ Abrasive materials
- Building Bricks
- Firebrick/ Refractories
- Stone /Granite
- Coal
- Ductile iron/ Cast iron/ PVC/ HDPE

Available in three configurations to match your specific application and cutting challenges:

UniGal X - Best choice for cutting general construction materials and light reinforced concrete

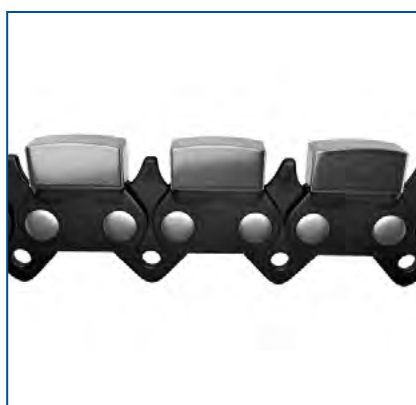
ProGal X - Professional choice for Heavy duty jobs in reinforced concrete and abrasive materials

Black Edge X - Toolgal unique technology for cutting Ductile Iron and Cast Iron pipes, construction bricks, PVC and HDPE pipes

Chain Type	Chain Application	Reinforced Concrete / Soft -Mid Aggregate	Reinforced Concrete / Hard Aggregate	Sandstone / Abrasive Materials	Building Bricks	General Building Materials	Stone / Granite	Coal	Firebrick / Refractories	Ductile Iron / Cast Iron Pvc / HDPE
UniGal X	General Purpose / Premium Cutting	💎💎💎	💎💎💎	💎💎	💎💎	💎💎💎	💎💎	💎💎💎	💎💎💎	
ProGal X	Longer Life Span / Abrasive Materials	💎💎💎	💎💎	💎💎💎	💎💎	💎💎💎	💎💎	💎💎	💎💎💎	
Black Edge X	Special Materials			💎💎	💎💎💎					💎💎💎

💎💎 Optimized for use

💎💎💎 Perfect performance



THE 3/8" CHAIN

Choosing the right chain for the project is essential in achieving the best value.

Superior performance laser welded Diamond chain for:

- General building materials
- Reinforced concrete
- Block/ Sandstone/ Abrasive materials
- Building Bricks
- Firebrick/ Refractories
- Stone /Granite
- Coal
- Ductile iron/ Cast iron/ PVC/ HDPE

Available in three configurations to match your specific application and cutting challenges:

UniGal - Best choice for cutting general construction materials and light reinforced concrete

ProGal - Professional choice for Heavy duty jobs in reinforced concrete and abrasive materials

Black Edge - Toolgal unique technology ffor cutting Ductile Iron and Cast Iron pipes,construction bricks, PVC and HDPE pipes

Chain Type	Chain Application	Reinforced Concrete/ Soft -Mid Aggregate	Reinforced Concrete / Hard Aggregate	Sandstone / Abrasive Materials	Building Bricks	General Building Materials	Stone / Granite	Coal	Firebrick / Refractories	Ductile Iron / Cast Iron Pvc / HDPE
Unigal	General Purpose / Premium Cutting	💎💎💎	💎💎💎	💎💎	💎💎	💎💎💎	💎💎	💎💎💎	💎💎💎	
Progal	Longer Life Span / Abrasive Materials	💎💎💎	💎💎	💎💎💎	💎💎	💎💎💎	💎💎	💎💎	💎💎💎	
Black Edge	Special Materials			💎💎	💎💎💎					💎💎

💎💎 Optimized for use

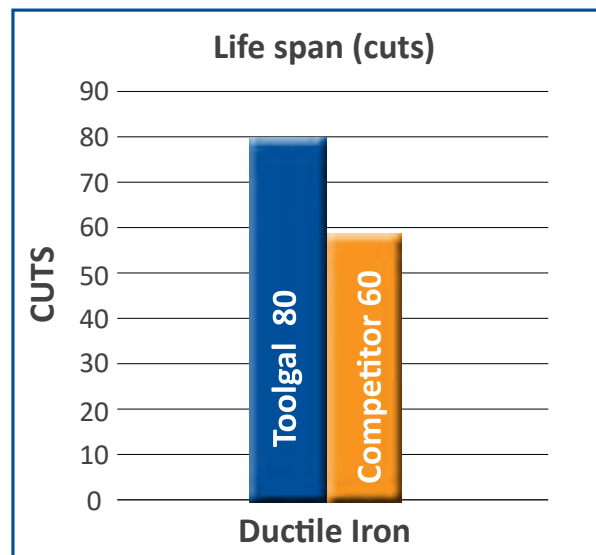
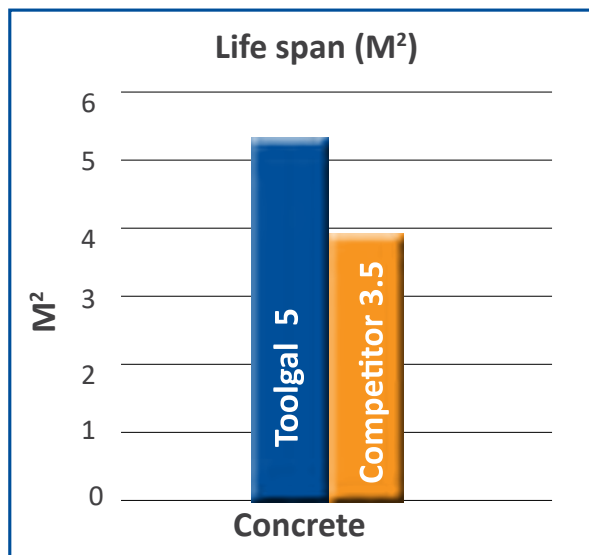
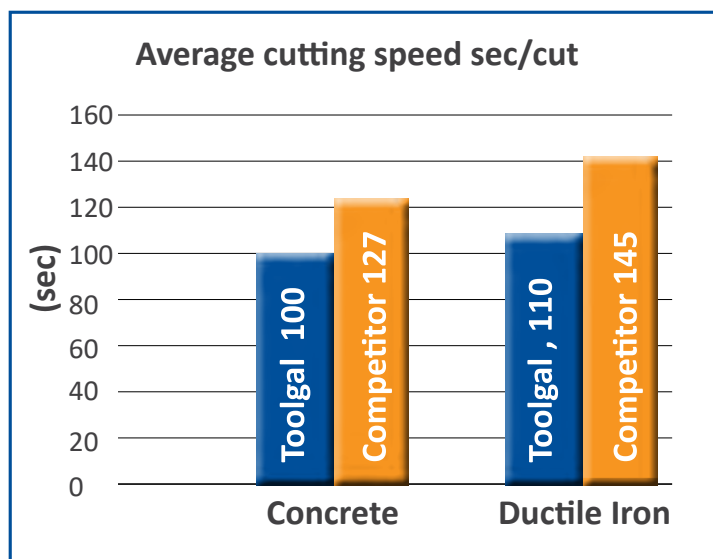
💎💎💎 Perfect performance



SUPERIOR PERFORMANCE

Toolgal chains - This is your ultimate alternative for the most efficient way to cut through a wide range of building materials and utility pipes.

Toolgal offers a variety of diamond chains to meet your cutting needs for the perfect combination of accuracy and productivity.



Ductile Iron testing work piece:

Ductile iron tube Ø 250mm (with inner concrete layer).

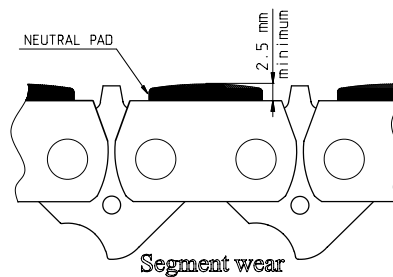
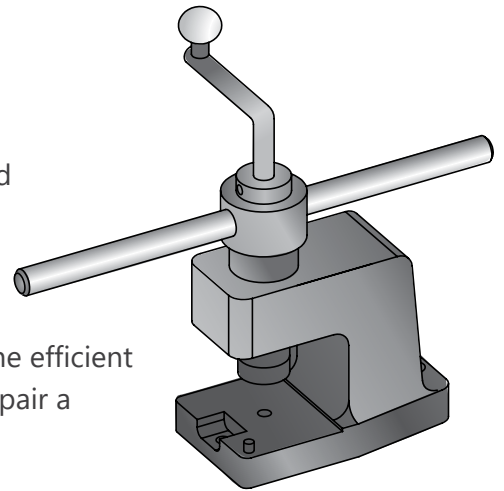
Concrete testing work piece:

0.20m x 0.25m reinforced concrete with 2 x 10mm steel bars.

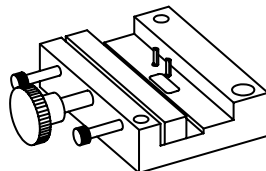
BULK CONCEPT & ASSEMBLY KITS

Advantages

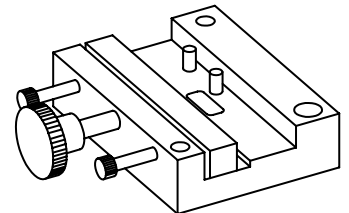
- **Cut To Size**
Custom build your chain according to the amount of links needed
- **Repair capability**
Conveniently fix or replace faulty links
- **Flexibility and efficient stock management**
No need to keep large amounts of various chain sizes in stock. The efficient assembly kit gives you total flexibility to mount a new chain or repair a broken link, where and when you need to
- **Lower logistic costs**
Don't waste valuable time, receive remote assembly training, repair or replace links on site



















Clamp 3/8"
CA600028



Clamp 7/16"
CA6X0028



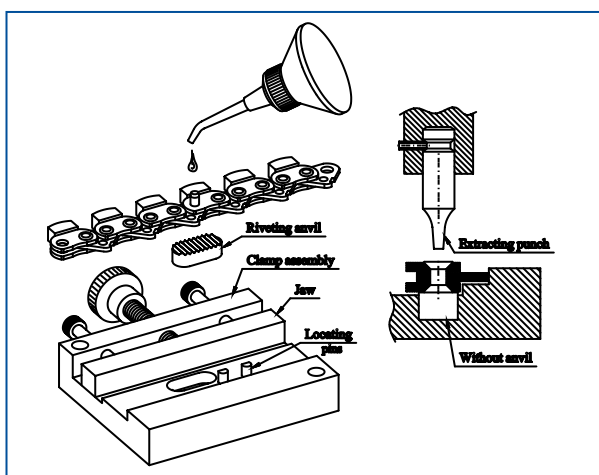
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Locating Pin	CA600030	1	
Riveting Anvil	CA600018	1	
Riveting Punch	CA600017	1	
Rivet Break Punch	CA600015	2	
Link	CA600022	4	
Drive Link	CA600055	2	
Rivet	CA600026	10	
Bushing	CA600006	10	

Description	Cat No.	Quantity	
Locating Pin	CA6X0030	1	
Riveting Anvil	CA600018	1	
Riveting Punch	CA600017	1	
Rivet Break Punch	CA600015	2	
Link	CA207593	4	
Drive Link	CA207594	2	
Rivet	CA207596	10	
Bushing	CA207595	10	

BULK CONCEPT & ASSEMBLY KITS

Operating Instructions

1. Remove the clamp assembly from the kit.
2. Insert the proper punch: riveting or extracting.
3. For extracting, remove the anvil (the toothed part) from the clamp assembly.
4. When riveting, the rivet is placed with its head resting on the anvil (on the underside of the chain).
5. Place the chain in the clamp, so that the suitable pin is inserted into the hole in the drive link. The chain's location is according to the particular rivet being treated.
6. Close the clamping jaw with the middle (larger) screw to straighten the chain and hold it in place; close with moderate force only.
7. Put the clamp assembly, with the chain, in its place in the kit.
8. When riveting, lubricate the rivet with a drop of oil for better results.
9. Lower the punch down to the rivet with the handlebar (twin levers). Apply pressure to the rivet with a 1/4 turn of the handlebar. Then turn the center handle one or two turns. Repeat the previous actions until the riveting is completed. Attention: Take care not to apply excessive pressure.
10. Release the chain when the riveting is completed and make sure that the drive link turns freely around the rivet.



COMPLETE PRODUCT RANGE: POWER CUTTERS vs GUIDE-BARS

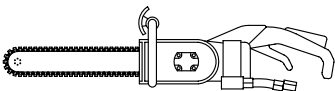
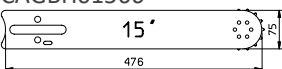
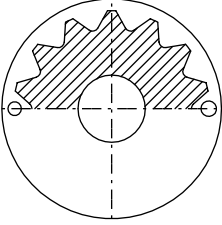
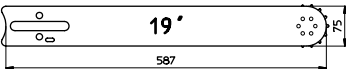
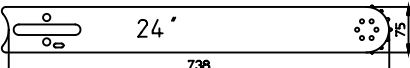
- Choose your chain type: 3/8" or 7/16"
- Find the appropriate guide-bar for your power cutter model

PITCH 3/8"	GUIDE-BAR LENGTH		ICS 853	ICS 814	ICS 823	ICS 695	ICS 633	ICS 680/613	HUSQVARNA 695	PARTNER 960/970	STIHL SG-461	CARDI	WEKA TK-40 / Dr. Bender	HUSQVARNA K6500 EL	AGP CS11	GUIDE-BAR ITEM CODE
HYDRAULIC	13"	33cm		•												CAGBH21350
	15"	38cm	•		•											CAGBH01566
	19"	48cm	•		•											CAGBH01978
	24"	60cm	•		•											CAGBH02494
GAS	12"	30cm				•										CAGBG01258
	14"	35cm				•	•		•	•						CAGBG01464
	14"	35cm						•								GAGBG21464
	16"	40cm				•	•		•	•						CAGBG01670
	16"STIHL	40cm									•					CAGBGS1664
ELECTRIC	12"	30cm											•	•		CAGBG01258
	14"	35cm											•	•		CAGBG01464
	16"	40cm											•	•		CAGBG01670
	14"CARDI	35cm										•				CAGBG21464
	13"	33cm													•	CAGBH21350

PITCH 7/16"	GUIDE-BAR LENGTH		ICS 880	ICS 890	ICS 695	HUSQVARNA 960/970	HUSQVARNA 695	PARTNER 960/970	PENTRUDE HF	WEKA TK-40 / Dr. Bender	HUSQVARNA K6500 EL	GUIDE-BAR ITEM CODE
HYDRAULIC	15"	38cm	•	•								CAGBHX1559
	20"	50cm	•	•								CAGBHX2069
	25"	63cm	•	•								CAGBHX2581
GAS	16"	40cm			•	•	•	•				CAGBGX1659
ELECTRIC	16"	40cm								•	•	CAGBGX1659
	15"	38cm							•			CAGBHX1559
	20"	50cm							•			CAGBHX2069
	25"	63cm							•			CAGBHX2581

KITS FOR HYDRAULIC MACHINES

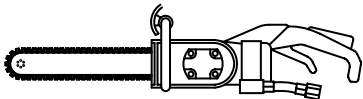
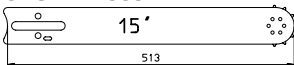
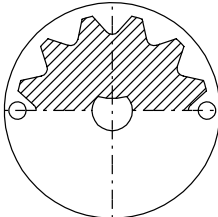
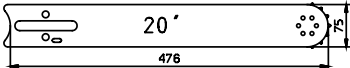
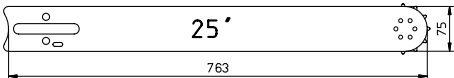
CHAIN PITCH 3/8"

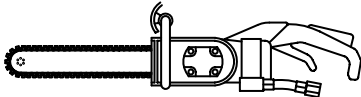
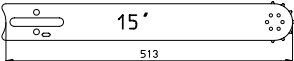
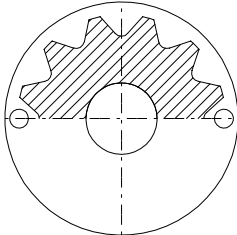
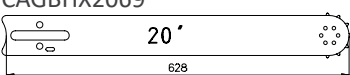
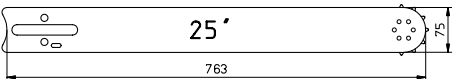
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GUIDE BAR	SPROCKET	DIAMOND CHAIN	
	14 Teeth CA600037	CHAIN TYPE	CHAIN ITEM
<div>CAGBH01566</div> <div></div>	<div>66 Links</div> <div></div> <div>78 Links</div>	UNIGAL	ACH70066
		PROGAL	AC170066
		BLACK EDGE	ACP80066
<div>CAGBH01978</div> <div></div>		UNIGAL	ACH70078
		PROGAL	AC170078
		BLACK EDGE	ACP80078
<div>CAGBH02494</div> <div></div>		UNIGAL	ACH70094
		PROGAL	AC170094
		BLACK EDGE	ACP80094



KITS FOR HYDRAULIC MACHINES


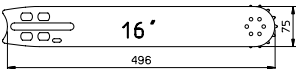
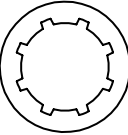
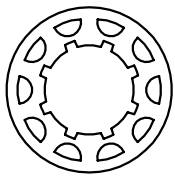
CHAIN PITCH 7/16"


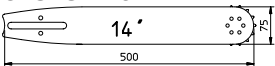
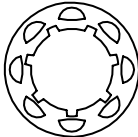
<div></div> <div>CHAIN PITCH 7/16" ICS-890</div>				
GUIDE BAR	SPROCKET	DIAMOND CHAIN		
	12 Teeth CA600062	CHAIN TYPE	CHAIN ITEM	
<div>CAGBHX1559</div> <div></div>	<div>59 Links</div> <div></div> <div>69 Links</div>	UNIGAL X	ACXC0059	
<div>CAGBHX2069</div> <div></div>		PROGAL X	ACXK0059	
		BLACK EDGE X	ACXB0059	
		UNIGAL X	ACXC0069	
<div>CAGBHX2581</div> <div></div>		PROGAL X	ACXK0069	
		BLACK EDGE X	ACXB0069	
		UNIGAL X	ACXC0081	
		81 Links	PROGAL X	ACXK0081
			BLACK EDGE X	ACXB0081

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GUIDE BAR	SPROCKET	DIAMOND CHAIN		
	12 Teeth CA600047	CHAIN TYPE	CHAIN ITEM	
<div>CAGBHX1559</div> <div></div>	<div>59 Links</div> <div></div>	UNIGAL X	ACXC0059	
		PROGAL X	ACXK0059	
		BLACK EDGE X	ACXB0059	
		UNIGAL X	ACXC0069	
PROGAL X		ACXK0069		
BLACK EDGE X		ACXB0069		
<div>CAGBHX2069</div> <div></div>		<div>69 Links</div>	UNIGAL X	ACXC0081
			PROGAL X	ACXK0081
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		PROGAL X	ACXK0081	
		BLACK EDGE X DI	ACXB0081	

KITS FOR GAS MACHINES

CHAIN PITCH 3/8"


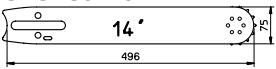
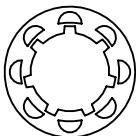
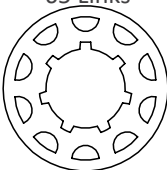
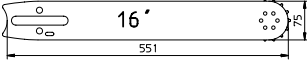
 CHAIN PITCH 3/8" STIHL SG-461					
GUIDE BAR	SPROCKET		DIAMOND CHAIN		
	8 Teeth CA600068	10 Teeth CA600069	CHAIN TYPE	CHAIN ITEM	
CAGBGS1664 	64 Links 	65 Links 		8 Teeth	10 Teeth
			UNIGAL	ACH70064	ACH70065
			PROGAL	AC170064	AC170065
			BLACK EDGE	ACP80064	ACP80065

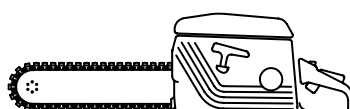
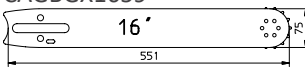
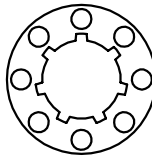
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GUIDE BAR	SPROCKET	DIAMOND CHAIN	
	8 Teeth CA600035	CHAIN TYPE	CHAIN ITEM
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		PROGAL	AC170064
		BLACK EDGE	ACP80064



KITS FOR GAS MACHINES


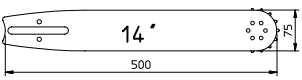
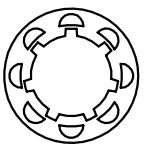
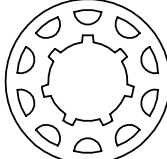
CHAIN PITCH 3/8" & 7/16"

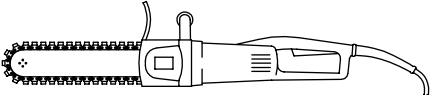
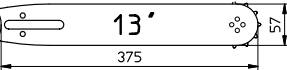

 <div> CHAIN PITCH 3/8" HUSQVARNA 695 PARTNER 960/970 ICS633/695 </div>				
GUIDE BAR	SPROCKET		DIAMOND CHAIN	
	8 Teeth CA600035	10 Teeth CA600059	CHAIN TYPE	CHAIN ITEM
GAGBG01464 	64 Links 	65 Links 		
GAGBG01670 			UNIGAL	ACH70064 ACH70065
			PROGAL	AC170064 AC170065
			BLACK EDGE	ACP80064 ACP80065
			UNIGAL	ACH70070 ACH70071
			PROGAL	AC170070 AC170071
			BLACK EDGE	ACP80070 ACP80071

<div></div> <div>CHAIN PITCH 7/16" HUSQVARNA 695 PARTNER 960/970 ICS 695</div>			
GUIDE BAR	SPROCKET	DIAMOND CHAIN	
	CA600063	CHAIN TYPE	CHAIN TYPE
<div>CAGBGX1659</div> <div></div>	<div>59 Links</div> <div></div>	UNIGAL X	ACXC0059
		PROGAL X	ACXK0059
		BLACK EDGE X	ACXB0059

KITS FOR ELECTRIC MACHINES

CHAIN PITCH 3/8"

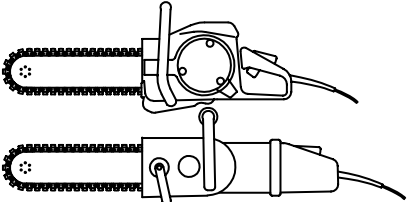
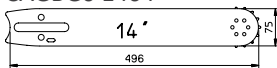
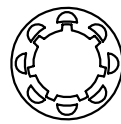
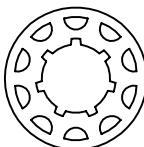
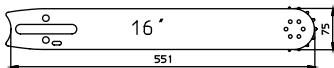
 CHAIN PITCH 3/8" CARDI 35				
GUIDE BAR	SPROCKET		DIAMOND CHAIN	
	8 Teeth CA600035	10 Teeth CA600059	CHAIN TYPE	CHAIN ITEM
CAGBG21464 	64 Links 	65 Links 		
			UNIGAL	ACH70064 ACH70065
			PROGAL	AC170064 AC170065
			BLACK EDGE	ACP80064 ACP80065

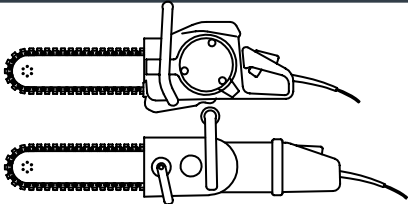
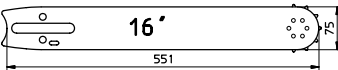
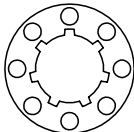
<div></div> <div>CHAIN PITCH 3/8" AGP CS11</div>			
GUIDE BAR	SPROCKET	DIAMOND CHAIN	
	7 Teeth CA600066	CHAIN TYPE	CHAIN ITEM
<div>CAGBG21350</div> <div></div>	50 Links	UNIGAL	ACH70050
		PROGAL	AC170050
		BLACK EDGE	ACP80050



KITS FOR ELECTRIC MACHINES

CHAIN PITCH 3/8" & 7/16"

		<div>CHAIN PITCH 3/8"</div> <div>WEKA TK-40</div> <div>HUSQVARNA K6500</div>			
GUIDE BAR	SPROCKET		DIAMOND CHAIN		
	8 Teeth CA600035	10 Teeth CA600059	CHAIN TYPE	CHAIN ITEM	
<div>CAGBG0 1464</div> 	64 Links 	65 Links 			8 Teeth
<div>CAGBG0 1670</div> 	70 Links	71 Links	UNIGAL	ACH70064	ACH70065
			PROGAL	AC170064	AC170065
			BLACK EDGE	ACP80064	ACP80065
			UNIGAL	ACH70070	ACH70071
			PROGAL	AC170070	AC170071
			BLACK EDGE	ACP80070	ACP80071

<div></div> <div>CHAIN PITCH 7/16" WEKA TK-40 HUSQVARNA K6500</div>			
GUIDE BAR	SPROCKET	DIAMOND CHAIN	
	8 Teeth CA600063	CHAIN ITEM	CHAIN ITEM
CAGBGX1659 	59 Links 	UNIGAL X	ACXC0059
		PROGAL X	ACXK0059
		BLACK EDGE X	ACXB0059

FAQ

What is the standard guide bar life?

We recommend to make a guide-bar inspection after each chain's replacement.

Guide-bar life depends on the cutting conditions:

- For general construction materials & concrete with light reinforcement:
Change a guide bar after using 2-3 chains.
- For concrete with heavy reinforcement : change a guide bar after using 1-2 chains.
- For cast & ductile iron pipes with black edge chains:
Change a guide bar after using 1-2 chains

What is the standard diamond chain life?

The chain life depends on cutting conditions.

Each chain type's life is different and depends on many factors, such as :

- Experience of the operator
- Aggregate type and concrete hardness
- Proper water supply for flushing abrasives away from chain and guide-bar.
Recommended water supply parameters: 1,5 Bar & 8lpm
- Type of reinforcement
For example: 66 links chain - total output = 3.0-4.0 Sqm

What maintenance should be done at the end of the day ?

- Clean bar& chain with water & dry
- Inspect drive sprocket for teeth wear - replace if needed
- Spray used bar& chain with lightweight oil

When you should tension the chain?

Important ! Check the chain tensioning before each cut:

- If drive links hanging below the bar up to 10-12mm => proper tensioning
- If drive links hanging below the bar above 12mm => tension the chain
- After tensioning check that the chain rotates free by pulling it easily around the bar by hand

