

CHAIN SAWS

□ MADE
■ BY
■ SOLO



SOLO

SOLO : CHAIN SAW PIONEER

In 1948, no one could imagine that a small German enterprise, then viewed as "tinkerers", would influence and determine the outcome of decades of small engine and chain saw manufacturing. Much of what has become standard in this industry today, was pioneered by SOLO.

1958 was a decisive year.

SOLO introduced the first direct drive chain saw - The Legendary SOLO REX - in the European market.

This new chain saw was built with less weight and a more appealing design by eliminating the conventional gear drive. Additionally, it was now possible to maximize the use of the chisel-type saw chain in conjunction with a direct drive chain saw. The installation of diaphragm, rather than float-type carburetors, made all-position cutting possible.

SOLO was the first European manufacturer to use plastic fuel and oil tanks as standard parts on chain saws.

The molding versatility of this material and the reduction in weight, form the basis for true light-weight chain saws.

In 1965, SOLO introduced the first: TWIN-cylinder chain saw on the world market...

By pointing out these milestones on the way towards the lightweight, practical and safe chain saws of today, we wanted to demonstrate to you that SOLO developments have decisively influenced this trend.

The assurance that you are holding a chain saw incorporating the experience, scientific knowledge and advanced technology of the German chain saw pioneer will support your decision to buy a SOLO chain saw.

This catalog contains detailed descriptions of the models and technical specifications of the SOLO chain saw line. Your local SOLO distributor or dealer will gladly answer your individual questions in detail.

The following summary is intended to provide an informative overview of

engine technology, handling, safety, cutting attachments, accessories and environmental protection features.

Decades of research and development back up the modern 2-cycle engines which supply power, torque and lugging response. Advanced technical features, such as four-transfer port system, Nikasil-treated cylinders, electronic ignition, easy-to-start mechanism and the environment-friendly SOLO Ecomatic chain lubrication, guarantee high performance, durability and the best cutting results.

Professionals choose SOLO chain saws because they are maneuverable, well balanced and glide smoothly across tree limbs, branches and trunks. The narrow design, ergonomic handlebar arrangement and compact construction, with ultra-modern materials, are plus points in SOLO's favour.

SOLO chain saws are equipped with all safety features demanded by law, common sense and professional preference. Strict guidelines are met and even exceeded. Hand guards, handlebar antivibration and instant response chain brakes are all standard.

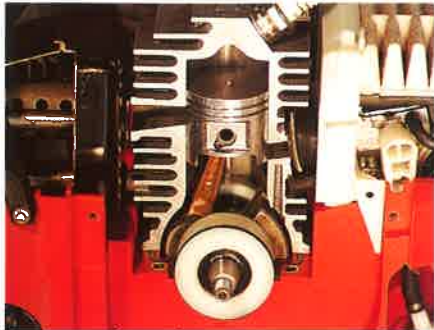
SOLO chainsaws are factory equipped with the best choice of guide bars and chain. SOLO uses only low kick-back saw chains with high cutting performance. The ease-of-maintenance design of SOLO chain saws allow you to do minor maintenance yourself. Environmental protection is not an empty slogan for SOLO. All SOLO chain saws can be fueled with unleaded gasoline and our recommended 2-cycle oil. The "thinking" oil pump - **SOLO Ecomatic** - operates automatically; the oil delivery is adjustable and oil is pumped only while the chain is running. This way, not a drop more than necessary is used. We recommend use of our bio-degradable Bio bar and chain oil.

SOLO, brand-name quality and innovation from the German chain saw pioneer.

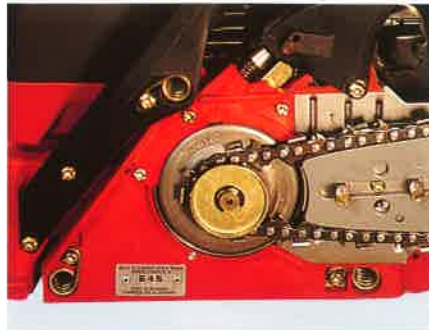
More than 35 years of experience in chain saw development

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EXEMPLARY SOLO TECHNOLOGY IN DETAIL



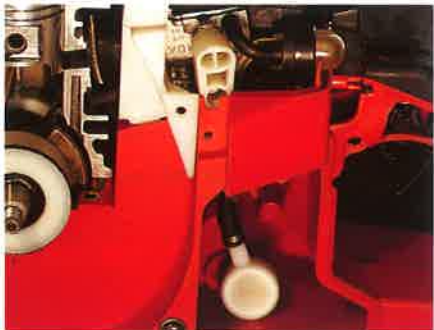
SOLO High-Performance Power Plant
Specially coated cylinder walls, two piston rings, finely balanced crankshaft.



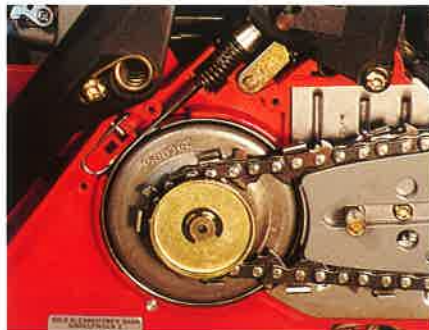
SOLO Anti-Vibration System
Vibrations from engine and saw are almost completely absorbed.



Electronic Ignition System for reliable starting. Completely enclosed. No problem with dirt or moisture.



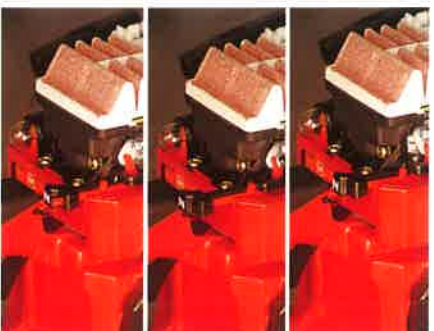
Das SOLO Easy-Start Primer System guarantees prompt starting even after longer periods of non-use.



Safety - SOLO Chain Brake
In case of kick-back, the brake engages automatically to stop the chain in fractions of a second



SOLO User-Friendliness
All functions of the saw are grouped ergonomically for easy operation and control.



SOLO Half-Throttle Automatic facilitates the starting procedure with simple operation and visual, operational control.



SOLO Ecomatic Oil System
Adjustable chain oil flow protects the environment and lowers operating costs.



SOLO Ease of Maintenance
All service parts are easily accessible for all maintenance work.

SOLO[®]

THE DEPENDABLE, TOUGH CHAIN SAW FOR THE ACTIVE OCCASIONAL WOODCUTTER

MADE
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SOLO

CHAIN SAWS 634 | 641



STIFTUNG
WARENTEST
TEST 10/01
GUT

SOLO guarantees the occasional user, top technical performance from these all-around chain saws.

The hobbyist and occasional user have a dependable helper in the 634/641 for numerous applications.

SOLO CHAIN SAW 634

This model opens up a wide range of chain saw applications for you. This chain saw resembles the SOLO 641 in many important details.

SOLO CHAIN SAW 641

This all-around chain saw doesn't back away from a tough cutting job. A variety of technological features and the maintenance-free, electronic ignition system guarantee dependable performance and durability. The entire system of safety features was developed from the professional line of SOLO chain saws.

TECHNICAL SPECIFICATIONS

SOLO Chain Saw Models	634	641
Power kW (DIN hp)	1.6(2.2)	2.0(2.7)
Displacement cm ³ /cu.in	34/2.1	41.5/2.5
Fuel Tank Capacity l/qt	0.48/0.5	0.48/0.5
Oil Tank Capacity l/qt	0.28/0.3	0.28/0.3
Dry Weight (powerhead) kg/lbs	4.5/9.9	4.5/9.9
Electronic Ignition	Yes	Yes
Chain Pitch	3/8" spec	.325"
Cutting Length cm/inch	35/14"	38/15"
Manual Chain Brake	Yes	Yes
Anti-vibrations System	Yes	Yes
Single Pawl Starter	Yes	Yes
Ecomatic	Yes	Yes
Cylinder Treatment	Steel	Nikasil

SOLO[®]

THE NEW GENERATION FOR LIGHT WOOD CUTTING
THE PERFECT CHAIN SAWS FOR THE DEMANDING WEEKEND
PROFESSIONAL

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SOLO

CHAIN SAWS 639 | 645



TECHNICAL SPECIFICATIONS

SOLO Chain Saw models	639	645
Power kW (DIN hp)	1.9 (2.6)	2.2 (3.0)
Displacement cm ³ /cu.in	38.2/2.33	44.3/2.70
Fuel Tank Capacity l/qt	0.50/0.53	0.50/0.53
Oil Tank Capacity l/qt	0.25/0.26	0.25/0.26
Dry Weight (powerhead) kg/lbs	4.5 / 9.9	4.5 / 9.9
Electronic Ignition	Yes	Yes
Chain Pitch	.325"	.325"
Cutting Length cm/inch	38/15"	38/15"
Automatic Chain Brake	Yes	Yes
Anti-vibrations System	Yes	Yes
Single Pawl Starter	Yes	Yes
Adjustable Oiler	Yes	Yes
Ecomatic	Yes	Yes
Cylinder Treatment	Nikasil	Nikasil
Piston Rings	2	2
Primer	Yes	Yes

SOLO's new chain saw generation incorporates decades of experience in the manufacturing of professional chain saws. Uncompromising quality, safety and performance - chain saws for people who like to do a thorough job.

Produced in Germany by SOLO, the high performance engine with its Nikasil treated cylinder, delivers a consistently high output of power. The maintenance-free ignition system and the special SOLO primer assure trouble-free starting. The SOLO Ecomatic oil system is less stressful on the environment.

The antivibration system enables you to work for longer periods with minimized vibration.

Comprehensive mechanisms, including the automatic chain stop response of 0.1 second, was entirely adapted from the professional line of chain saws. This means a higher degree of safety. Starter, stop switch and choke lever are grouped for fingertip operation and control.

The new design of this compact series not only resembles that of the professional chain saw, but achieves a user-friendliness previously unattainable for hobby class chain saws.

SOLO

THE LIGHTWEIGHT UNIVERSAL CHAIN SAW WITH AN AMAZING POWER-TO-WEIGHT-RATIO OF 1,67 KG/KW

MADE BY SOLO

CHAIN SAW 651

SOLO introduces the 651 chain saw, capable of performing a wide range of cutting tasks. This chain saw is ideal for clear cutting and limbing, as well as felling and bucking of medium hard-wood trees.

Optimal engine tuning - Low engine rpm - Precision crankshaft balance - Two ring piston - High torque, tremendous speed and fast acceleration.

This is technology of the future directly from SOLO, the chain saw pioneer.



THE LIGHTWEIGHT CHAMPION

CHAIN SAW 644



TECHNICAL SPECIFICATIONS		
SOLO Chain Saw Model	651	644
Power kW (DIN hp)	2.94(4.0)	2.6(3.53)
Displacement cm ³ /cu.in	51/3.11	44.3/2.7
Fuel Tank Capacity l/qt	0.60/0.63	0.60/0.63
Oil Tank Capacity l/qt	0.35/0.37	0.35/0.37
Dry Weight (powerhead) kg/lbs	4.9/10.8	4.9/10.8
Electronic Ignition	Yes	Yes
Chain Pitch	.325"	.325"
Cutting Length* cm/inch	38/15"	38/15"
Automatic Chain Brake	Yes	Yes
Anti-vibrations System	Yes	Yes
Single Pawl Starter	Yes	Yes
Adjustable Oiler	Yes	Yes
Ecomatic	Yes	Yes
Cylinder Treatment	Nikasil	Nikasil
Piston Rings	2	1
Electrical Handlebar Heater	Optional	Optional

This light, professional class chain saw offers an unexcelled level of performance. Despite its high engine rpm for fast limbing, it has a very wide, useable rpm range and strong logging power at lower rpm levels. The four-transfer port technology

contributes to high fuel efficiency. The harmonious interaction of ergonomics, safety features, technology and ease of maintenance are everything to a professional.

* Recommended by SOLO

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Tailor-made for light-medium work

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CHAIN SAW 651 SP

Particularly well suited for the requirements in agriculture. Powerful, high torque through the rpm-range, easily serviced and complete with professional features and safety requirements.

The SOLO 651 SP will hold it's own around the farm, around the house and for cutting firewood. With superb balance and ease of handling, the SOLO 651 SP is a favourite with tradesmen in the building and construction industry.



THE ALL-AROUND CHAIN SAW

CHAIN SAW 647



Lots of power, lightweight, well balanced in design, smooth exterior - these are the distinguishing features of the all-purpose 647 Chain Saw.

Leading edge technology: The engine power output is effective across a broad rpm spectrum which gives the chain saw plenty of torque and lugging power. The innovative four-transfer port

cylinder technology contributes to increased fuel economy. The ignition system is virtually maintenance and trouble-free. The **Ecomatic, fully adjustable oiler system** has a demand responsive output to protect not only bar and chain, but also the environment. The complete array of safety features is of the professional series design.

TECHNICAL SPECIFICATIONS

SOLO Chain Saw Models	651 SP	647
Power kW (DIN hp)	2.65(3.6)	2.4(3.2)
Displacement cm ³ /cu.in	51/3.15	47/2.9
Fuel Tank Capacity l/qt	0.60/0.63	0.75/0.79
Oil Tank Capacity l/qt	0.35/0.37	0.50/0.53
Dry Weight (powerhead) kg/lbs	4.9/10.75	5.7/12.5
Electronic Ignition	Yes	Yes
Chain Pitch	.325"	.325"
Cutting Length* cm/inch	38/15"	38/15"
Automatic Chain Brake	Yes	Yes
Anti-vibrations System	Yes	Yes
Single Pawl Starter	Yes	Yes
Adjustable Oiler	Yes	Yes
Ecomatic	Yes	Yes
Cylinder Treatment	Nikasil	Steel

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THE UNIVERSAL

CHAIN SAW 662

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The ideal chain saw for use on the farm, ranch or in the forest.

SOLO dependability and technology have been incorporated into this professional chain saw. Additionally, the SOLO 662 has a filtering system

which prevents large particles in the air from reaching the main filter; this extends the service life of the main filter and simplifies maintenance.



THE POWER-PACKED LIGHTWEIGHT CHAIN SAW 667



The SOLO 667 weighs in at only 6.55 kg/14.3 lbs while producing an astonishing 5.3 Din/hp - That's as strong as a bear! The power-to-weight ratio of 1.67 kg/kW drastically reduces the physical effort required to

do medium and hard wood cutting. Optimum power-to-weight ratio, advanced SOLO technology and a complete set of safety features contribute to highly effective cutting performance.

TECHNICAL SPECIFICATIONS

SOLO Chain Saw Models	662	667
Power kW (DIN hp)	3.16(4.3)	3.9(5.3)
Displacement cm ³ /cu.in	63/3.84	69/4.2
Fuel Tank Capacity l/qt	0.85/0.89	0.85/0.89
Oil Tank Capacity l/qt	0.39/0.41	0.39/0.41
Dry Weight (powerhead) kg/lbs	6.3/13.8	6.55/14.4
Electronic Ignition	Yes	Yes
Chain Pitch	3/8"	3/8"
Cutting Length* cm/inch	40/16"	45/18"
Automatic Chain Brake	Yes	Yes
Anti-vibrations System	Yes	Yes
Single Pawl Starter	Yes	Yes
Adjustable Oiler	Yes	Yes
Ecomatic	Yes	Yes
Cylinder Treatment	Nikasil	Nikasil
Piston Rings	2	2

* Recommended by SOLO

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THE POWERHOUSE

CHAIN SAW 680



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The power-to-weight ratio is just amazing:
The power of 5.1 kW/6.9 Din hp faces the
powerhead weight of 7.5kg/16.5 lbs!

By utilizing lightweight, yet very durable materials,
weight is reduced to an absolute minimum while
still increasing dependability and durability.
All safety and maintenance features are standard.

Additionally, low fuel consumption and
outstanding performance complement this
full-featured saw. The SOLO 680 easily puts
away hard woods and big timber.



POWER PLUS

CHAIN SAW 690



TECHNICAL SPECIFICATIONS

SOLO Chain Saw Models	680	690
Power kW (DIN hp)	5.1(6.9)	5.45(7.4)
Displacement cm ³ /cu.in	81/5	90/5.5
Fuel Tank Capacity l/qt	0.88/0.93	0.88/0.93
Oil Tank Capacity l/qt	0.46/0.48	0.46/0.48
Dry Weight (powerhead) kg/lbs	7.5/16.5	7.9/17.4
Electronic Ignition	Yes	Yes
Chain Pitch	3/8"	.404"+3/8"
Cutting Length* cm/inch	50/20"	60/24"
Automatic Chain Brake	Yes	Yes
Anti-vibrations System	Yes	Yes
Single Pawl Starter	Yes	Yes
Adjustable Oiler	Yes	Yes
Ecomatic	Yes	Yes
Cylinder Treatment	Nikasil	Nikasil
Piston rings	2	2

* Recommended by SOLO

Peak Power at it's Best!
Yet easily guided and controlled.

The rated performance of 5.45 kW at 7.9 kg dry
weight is most impressive. Equally impressive is
the ease of maintenance.

All service tasks require minimum time and effort
with few tools.
This model will cope with harsh climatic
conditions - proof of SOLO Quality and SOLO
Reliability.

THE QUIET POWER SUPPLIED FROM AN ELECTRICAL OUTLET

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BY
SOLO

ELECTRIC-CHAIN SAW 614



The SOLO 614 Electric Chain Saw is conceptually perfect! A highly reliable and quality state-of-the-art electric motor combine with our experience and knowledge of saw requirements into a perfect saw.

The SOLO 614 Electric Chain Saw is ideal for professional applications in joineries, carpenter shops, as well as home projects and firewood cutting.

Optimal noise suppression shielding makes the SOLO 614 an ideal tool in residential areas and indoors.

Outstanding Features

Powerful, high quality, low noise motor:

- Superb cooling design
- Automatic cut-out when brushes are worn
- High torque and plenty of reserve power

Built-in operator safety features:

- Dual action chain brake (independently activated power cut-out or chain brake stop)
- Chain stops in less than 0.1 second
- Radio interference suppression, double insulated
- Front and rear hand guard, chain catcher, safety switch lock, safety (low kick-back) chain, bucking spike, wide space between handle bars
- Ergonomically designed

Break-resistant, virtually indestructible housing:

- Made of fiberglass reinforced Polyamide Chain guard and gear housing
- Made of die-cast magnesium

Automatic chain lubrication with adjustable oiler:

- Easy access, large oil tank lid for easy fill ups
- Oil level window

TECHNICAL SPECIFICATIONS

Electric-Chain Saw	614
Power kW	1.4
Voltage V	230 AC
Cycle Hz	50
Dryweight (powerhead)	4.2 kg / 9.2 lbs.
Cutting Length cm/inch	40 / 16"
Chain Pitch	3/8"

SOLO[®]

USE ONLY SOLO ORIGINAL ACCESSORIES AND
SOLO RECOMMENDED SPECIAL OILS

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CHAIN SAW ACCESSORIES

Special Two-Cycle Oil	Order No.
1 Tube CASTROL Super TT 100 cc with Dosage Indicator	00 83 134
1 Bottle Castrol Super TT 1 lt. with Dosage Indicator	00 83 135
Saw Chain Oil <small>Special oil of high tack quality for reliable lubrication of high speed saw chains.</small>	
1-Liter Bottle	00 83 150
5-Liter Bottle	00 83 118
10-Liter Container	00 83 119
20-Liter Container	00 83 120
60-Liter Barrel	00 83 121
210-Liter Barrel	00 83 158
Bio-Degradable Bar & Chain Oil - Bio Lube	
1-Liter Bottle	00 83 153
5-Liter Bottle	00 83 148
10-Liter Container	00 83 154
20-Liter Container	00 83 149
60-Liter Barrel	00 83 157
210-Liter Barrel	00 83 156
Electric Chain Sharpener For precise sharpening of all saw chains	
"Mini-Jolly"	60 00 209
"Jolly"	60 00 206
Bar Mount Manual File Guide (without file)	60 00 200
Chain Breaker	60 00 207
Rivet Spinner	60 00 208
Round File (without handle) [For correct file size selection, consult your saw chain guide]	
5,5 mm dia.	00 80 109
4,8 mm dia.	00 80 287
4,5 mm dia.	00 80 431
4,0 mm dia.	00 80 358
File Handle	00 80 108
Grease Gun for Sprocket Nose Guide Bar	00 80 430
Chain Sharpening Kit	
for Chains 1/4" and 3/8"-special	00 80 451
.325"	00 80 452
.325" and 3/8"	00 80 453
3/8" and .404"	00 80 454
File Gide	
With 4mm File for saw chain 3/8" special (Lo Pro) and 1/4"	00 80 447
With 4.5mm File for saw chain .325"	00 80 448
With 4.8mm File for saw chain .325" and 3/8" semi-chisel	00 80 449
With 5.5mm File for saw chain 3/8" and .404"	00 80 450

Castrol Super TT is a trademark of Castrol.

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MOTORSSENEN
BRUSHCUTTERS
DEBROUSSAILLEUSES
DESMALZADORAS
DECESPUGLIATORE

RASENMÄHER
LAWNMOWER
TONDEUSES
RASAERBAS
TOSATRICE D'ERBA

PFLANZENSCHUTZGERÄTE
CHEMICAL APPLICATORS
APPAREILS PHYTOSANITAIRES
EQUIPOS PARA PULVERIZACION
SPRUZZATORI