




Husqvarna®

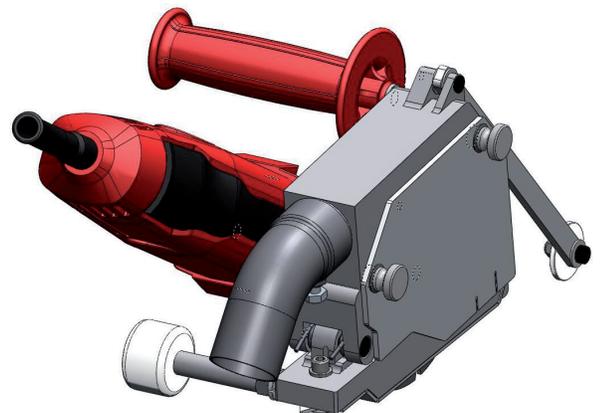


ENG

50

Operator's Manual

Read these instructions carefully and make sure you understand them before using the 50.



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UNPACKING

Your **50 Handheld** saw has been shipped from the factory thoroughly inspected. The durable travel case contains the **50** saw, a blade shaft cover, a blade shaft wrench, an owner's manual, a part list, a warranty card, and a joint protector sample pack.

NOTE: No diamond cutting blade or skid plate is included with the saw. Purchase the appropriate Husqvarna Excel Series 5 inch blade from your local Husqvarna Construction Product dealer.

TRANSPORTING

The **50 handheld** saw weights approximately 9.0 pounds (4.1 kilograms) when ready to use . Use safe handling practices when using the saw. Immediately clean the blade guard housing after each and every use to prevent concrete dust buildup. Always remove the diamond blade when transporting the saw. Fold the guide arm back and unscrew the handle from the housing prior to storing in the carrying case.



INTRODUCTION

The **50 Handheld** is intended primarily for finish cuts, scoring and decorative applications, and is designed for ease of use and convenience. It is not intended for metal or wood cutting. Much like the entire line of Husqvarna Soff-Cut saws, the handheld saw works in conjunction with the Husqvarna Excel Series diamond blades and patented skid plates to allow for Ultra Early Entry cutting, which minimizes chipping and spalling while getting the job done the same day. The patented Soff-Cut Ultra Early Entry dry cutting system controls random cracking of concrete through the early timing of the saw cutting usually within one to two hours after the finishing process is complete. The low dust blade guard system with integrated dust extraction port allows the saw to cut dry and it controls the debris for little or no clean up when used with a vacuum system.

Common sense:

The focus of this manual is HOW to operate and service the equipment safely.

It is not possible to cover every conceivable situation you can face when using this equipment. Therefore use this product only in a manner described in this manual. Operation or handling the machine in any other manner can lead to serious injury or death.

If a situation is not described in this manual it should be considered dangerous - and not be done.

If you are unfamiliar with this product make sure that you carefully understand how it functions and practice all operations and handling before putting the machine to use. Familiarize yourself in the presence of an experienced operator. Avoid all situations that are beyond your capability.

If you still feel uncertain about the operating procedures after reading these instructions DO NOT operate the machine until you have consulted an experienced operator.

If you have further questions you can contact the closest Husqvarna Construction Products location by writing or calling, see information below. You can also find the closest location by searching the internet at; **www.husqvarnacp.com** . Husqvarna Construction Products will willingly be of service and provide you with advice as well as help you to use your product both efficiently and safely.

Additional manuals are available at NO CHARGE and can also be obtained on the internet site.

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PERSONAL SAFETY EQUIPMENT

When working and operating the saw the following approved personal safety items should be used:



Head Protection



Hearing Protection



Eye Protection



Safety Shoes



Protective Gloves

REGISTER THE PRODUCT

Please register your new **50 Handheld** with Husqvarna Construction Products by mailing in the registration card that came with the machine or you can register on the internet site www.husqvarnawarranty.com

Registration will allow us to contact in case of any critical updates or recalls on this machine. Warranty registration has also been found to be helpful in tracing stolen equipment.

Record the following information for your records:

PURCHASE DATE: _____

MODEL No: _____

SERIAL No: _____

ENGINE MODEL: _____ ENGINE TYPE: _____ ENGINE CODE: _____

The 50 Handheld serial number as well as the engine model number, engine type and code are critical in order to obtain the correct service parts.

SAFETY DEFINITIONS

In this manual a Safety Alert Symbol  followed by the signal words WARNING and CAUTION are used to identify safety information about hazards which can result in death, serious injury and/or property damage.

These signal words mean:

 **WARNING** indicates a hazard which, if not avoided, **could result in death or serious injury.**

 **CAUTION** indicates a hazard which, if not avoided, **might result in minor or moderate injury.**

NOTICE indicates a message not related to personal injury.

SAFETY HAZARDS

WARNING

DO NOT MODIFY THE PRODUCT

Under no circumstances may the design of the machine be modified without the permission of the manufacturer. Always use genuine accessories. Unauthorized modifications and/or accessories can result in serious personal injury or the death of the operator or others. Your warranty may not cover damage or liability caused by the use of unauthorized accessories or replacement parts.

 WARNING	 WARNING	 CAUTION
ASPHYXIATION HAZARD Running an engine in a confined or badly ventilated area can result in injury or death due to asphyxiation or carbon monoxide poisoning.	CALIFORNIA PROP 65 Use of this product can expose you to materials known to the State of California to cause cancer and/or birth defects or other reproductive harm.	HEARING HAZARD During the normal use of this machine, operator may be exposed to a noise level equal to or higher than 85 dB(A). Use hearing protection.

SAFETY WARNINGS



WARNING

Failure to comply with the following warnings could result in serious bodily injury or death!

PERSONAL SAFETY

- Read and understand instructions before operating saw.
- Always wear safety approved hearing, eye, head and respiratory protection.
- Wear boots with non-slip soles to provide proper footing. Steel-toed safety boots are recommended.
- Wear rubber work gloves to avoid contact with wet concrete which can cause serious skin irritation.
- Know how to stop the saw quickly in case of emergency.
- Keep all parts of your body away from blade and other moving parts. Do not wear loose clothing or jewelry which can be caught in moving parts. Wear protective hair covering to contain long hair.
- Avoid body contact with grounded surfaces such as pipes, metal conduit, ductwork, or rebar.
- Stay alert. Maintain awareness of saw operation. Use common sense. Do not operate saw when tired or after consumption of any substance that would impair physical function or rational judgment.
- Do not over reach. Keep proper footing and balance.

WORK AREA SAFETY

- Never operate the saw in any application or job where you are not trained or supervised.
- Keep visitors, children and animals out of the work area.
- Keep all body parts and foreign material away from the electric motor while running.
- Avoid dangerous environments. Do not use the saw in damp or wet locations. Do not expose saw to rain. Keep work area well lit and clean.
- Do not operate saw in areas with flammable liquids, gases, dust or other explosive atmospheres.
- Do not operate the saw in areas of combustible material or fumes. Sparks may occur from the saw that could cause a fire or explosion.
- Do not abuse the cord. Never carry the saw by the cord or jerk the cord from an outlet. Keep cord away from heat, oil sharp edges, or moving parts.
- Double insulated tools are equipped with a polarized plug (one blade is wider than the other). This plug will fit in a polarized outlet only one way. Do not change the plug.

SAW SAFETY

- Do not leave saw unattended while the electric motor is running.
- Do not alter the saw. Any alteration or modification is misuse and may result in a dangerous condition.
- All safety guards must be in place before starting saw.
- Avoid accidental starting. Be sure switch is "OFF" before plugging in. Do not use saw if switch does not turn it "ON" or "OFF".
- Disconnect the plug from the power source before making any adjustments, changing accessories, or storing the saw.
- Do not use damaged equipment, blades, guards or personal protection equipment. Do not disable safety equipment or kill switches.
- Use only Husqvarna Construction Products replacement parts. Use of unauthorized parts may create a danger.
- Remove all wrenches from the saw before starting.
- When using an extension cord outdoors, be sure it is marked with suffix W-A (for UL), or W (for CSA) to indicate that is acceptable for outdoor use.

BLADE SAFETY

- Examine cutting blades before each use. Do not use any blades that has cracks, nicks, or flaws. Tri-arbor hole should be undamaged. Use only dry cut, steel core, tri-arbor diamond blades made for cutting uncured concrete.
- Husqvarna Excel Series diamond blades is designed to only cut green concrete. Cutting any other material may result in blade failure or a dangerous condition.
- Inspect blade flanges for damage, excessive wear and cleanliness before mounting the blade. The blade should fit snugly on clean, undamaged, tri-arbor shaft.
- Use only Husqvarna Excel, ProEdge Series blades, or blades marked with a maximum operating speed greater than 11,000 rpm.
- Never operate the saw without the blade guard assembly securely in place including blade cover and skid plate installed in working order. A damaged blade guard assembly must be replaced to protect the operator.
- Avoid getting in direct line with the blade or contacting the blade while it is rotating.

EXCEL SERIES BLADES

The Excel Series of diamond blades have been designed specifically for the Soff-Cut Ultra Early Entry dry cutting system of green concrete. These specialty blades are designed to increase speed and life while cutting a wide range of aggregates. Choose the correct specification of diamond blade for your area as follows:

Red Excel Series 3000 XL5-3000A-X50
Yellow Excel Series 5000 XL5-5000A-X50
(Red Blade also available in 0.225" (5.72mm) widths)

Hard aggregate, medium abrasive sand
Medium hard to soft aggregate, abrasive sand

BLADE AND SKID PLATE INSTALLATION

WARNING

Disconnect the unit from the power source before making any adjustments or changing blade and skid plate.

Step 1

Remove the blade cover (A) by turning the two metal knobs counter-clockwise. While holding the spindle lock button (B), remove the blade bolt (C) by turning it counter-clockwise using a 1/2" wrench. Remove the blade flange (D). Inspect the blade (E) for any damage.

WARNING

Do not use any blade that has cracks, nicks, flaws or a damaged arbor. Make sure the blade is marked with a maximum operating speed greater than 11,000 rpm. Use only dry cutting concrete diamond blades.

Step 2

Match the blade tri-arbor (E) to the blade shaft arbor (F) and install the blade firmly against the rear flange (F). Insure the blade is installed on the tri-arbor correctly. Match the female tri-arbor of the blade flange with the tri-arbor blade shaft and install the blade bolt turning clockwise. Be sure the outer flange is fully seated and firmly holding the diamond blade in position.

Step 3

Install a new skid plate (G) by sliding the front into the angled slot of the lower blade guard (H) and firmly against the depth stop washer (I). Push the rear of the skid plate up into the threaded stud at the rear of the lower guard and screw on the skid stop washer (J). Hand tighten only.

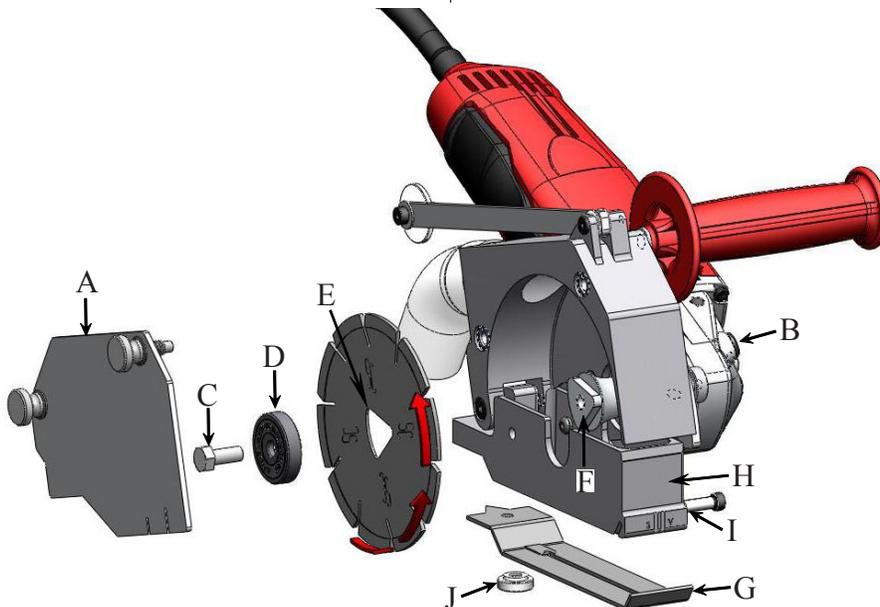
Step 4

Raise the lower guard and check that the blade does not contact the skid plate. When replacing a worn blade, thoroughly clean the concrete from the blade guard (upper and lower guard) and blade cover before installing the new blade.

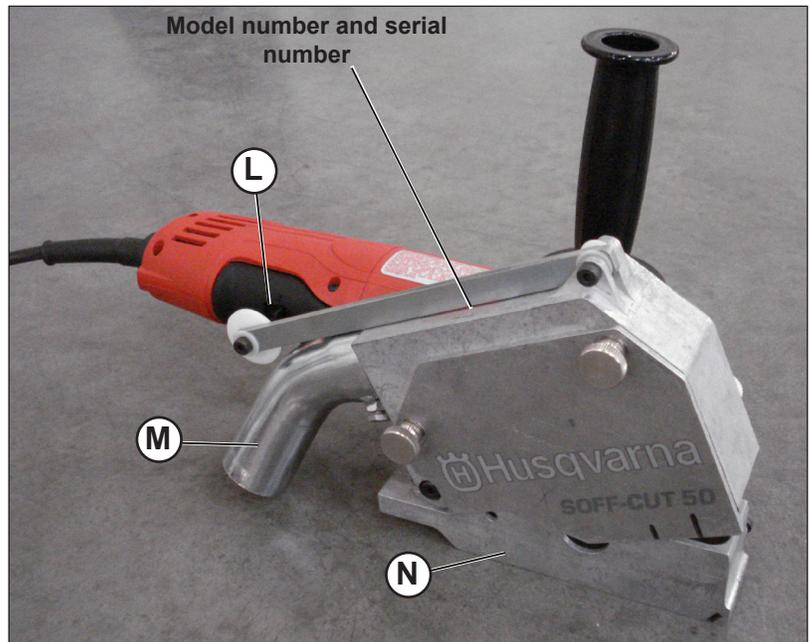
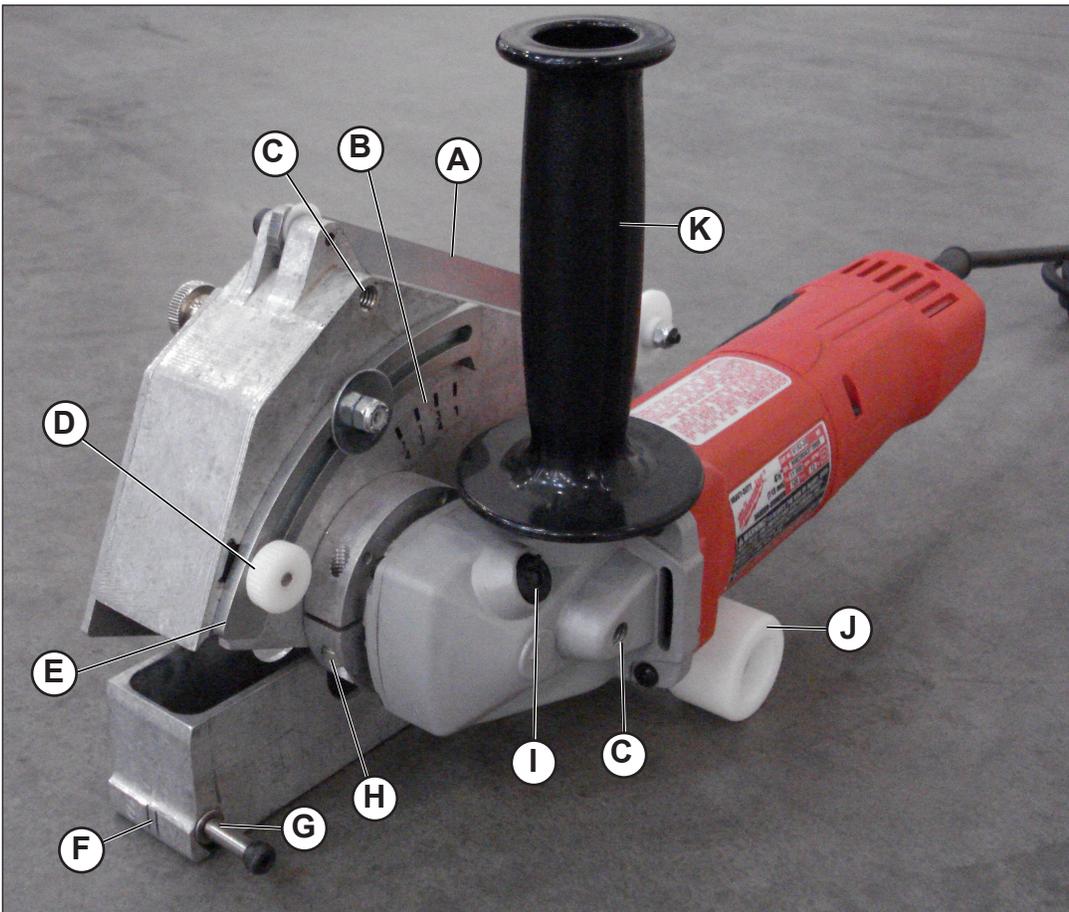
A new skid plate is included with every new blade. Make sure to remove and discard the old skid plate and replace it with a new skid plate every time the blade is replaced.

NOTE:

The patented skid plate is the most important part of the Soff-Cut Ultra Early Entry system. If it is bent, twisted or damaged, spalling and raveling of a cut may result. Store skid plates carefully and install them properly. Install a new skid plate with each new blade. Never re-use skid plates.



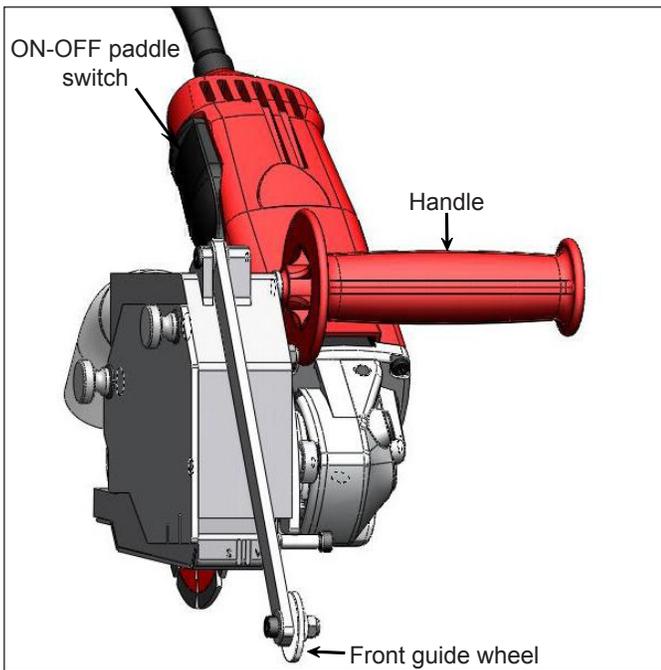
WHAT IS WHAT



What is what?

- A. Guide
- B. Depth indicator label
- C. Handle mount
- D. Depth adjust thumb screw
- E. Depth adjust arm
- F. Blade guide notches
- G. Depth stop washer and bolt
- H. Hub clamp bolt
- I. Spindle lock button
- J. Rear wheel
- K. Handle
- L. On-Off paddle switch
- M. Dust extraction port
- N. Lower guard

OPERATING INSTRUCTIONS



Experience is very important when running the **50 Handheld** saw. A skilled worker is highly recommended. Always do an inspection of the saw before using it. Insure all guards are secure, undamaged, and properly installed and that the spring loaded lower blade guard swings open and closes freely without binding.



WARNING

Do not operate the saw unless all guards, safety equipment and the motor kill switch are in place and operational!

Position the power cord clear of the intended saw cut. Do not wrap the cord around your arm or wrist. Check for proper specification of blade and that the skid plate operates properly. Check that the blade and skid plate are in good condition. Make sure the work site is clean, well lit and hazard free.

Husqvarna Soff-Cut recommends the use of a vacuum system when using the 50 Handheld saw. The integrated dust extraction port (M) is designed for easy attachment of standard 1 1/2 (38 mm) vacuum hose. The vacuum system allows the saw to function at its peak efficiency, making for a high quality saw joint with the additional benefit of little or no cleanup required (of the saw and/ or saw joints) and marked reduction in breathable airborne dust.

The saw is factory set to full depth-of-cut, typically 1" (25.4 mm) with a brand new blade. If a shallower depth of cut is desired, such as for architectural scoring and decorative application, adjust blade depth by turning the depth adjust thumb screw (D) approximately one full turn counter-clockwise. Slide the depth adjust arm (E) to the desired depth using the depth indicator label (B). Tighten the depth adjust thumb screw (D) by hand to lock the depth arm in place. Rotate the front guide (A) down to the forward position.

Line up the saw with the cut line using the "S" notch (F) on the lower guard (N) and the triangle pointer at the rear of the lower blade guard. Make sure the skid plate lies flat on the concrete with the rear wheel (J). Flip the lock-off button and simultaneously squeeze the paddle switch (L) to turn "ON" the saw
NOTE: Pressure must be maintained continuously on the paddle switch to keep electric motor running.

Rotate the saw down slowly to plunge and lower the blade in the concrete. Push the saw forward to cut, keeping the front guide wheel on the cut line. **Do not force the saw; let the diamond blade do the work.**

When approaching a wall, raise the front guide and use the "S" notch and the triangle guide at the rear of the blade guard to cut the last few inches.

At the end of the cut, rotate the saw up to raise the blade out of the cut, without lifting the skid plate off the concrete. The skid plate must remain flat on the concrete until the blade is completely out of the concrete. **NOTE: Do not release the paddle switch or switch off the saw while the blade is in the concrete; doing so will cause the saw cut to ravel and spall. Do not walk on the joints or transport equipment across the joints until the concrete fully hardens.**



WARNING

Do not leave the saw unattended while the engine is running! Always secure the saw from movement while unattended.



WARNING

Before each use, carefully inspect the 50 Handheld for any damage to any of its parts and components. Under no circumstance should the 50 Handheld or any of its attachments be operated if you find damage or are suspicious that something appears to be damaged.

GENERATORS AND EXTENSION CORDS

If an extension cord is necessary, a cord of adequate size conductors that is capable of carrying the current necessary for your tool must be used. Replace damaged or worn out cords immediately. Refer to the chart for the correct size to use. If in doubt, use the next heavier gauge. An undersized cord will cause a drop in line voltage, resulting in loss of power and overheating. When using a generator, Husqvarna Soff-Cut recommends a generator with minimum rating of 2800 Watts and a 20 Amps circuit breaker.

WIRE GAUGE CHART A.W.G.					
Volts	Amps	Cord Length in Feet (Meter)			
120	13A	25(7.62)	50(15.2)	100(30.5)	150(45.7)
220-240	6.5A	50(15.2)	100(30.5)	200(60.9)	300(91.4)
Minimum Gauge		16AWG	12AWG	10AWG	8AWG

Note: The smaller the gauge number, the heavier the cord.

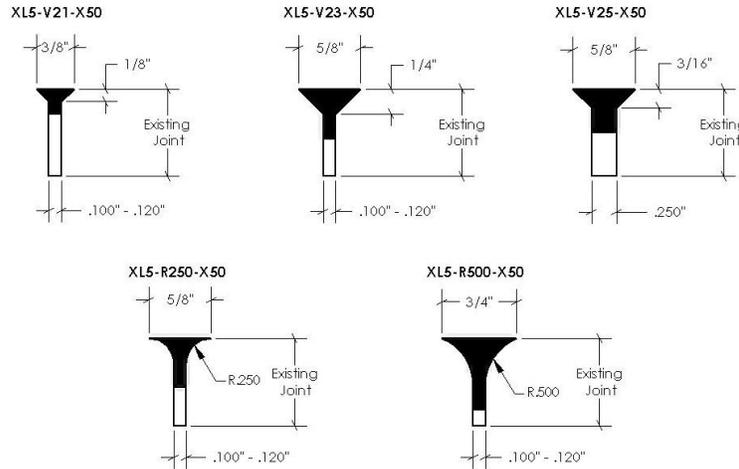
PROEDGE SERIES BLADES

The ProEdge Line of beveled diamond blades is especially designed for architectural scoring to replace labor-intensive hand tooling. These specialty blades are ideal for residential and commercial applications to chase standard joints for a beveled look. Chasing cuts using the ProEdge blades would begin the next day or later after the concrete is placed and control joints have been made. Choose the correct specification of ProEdge blade to suit your particular needs

ProEdge V-Blade	XL5-V21-X50	3/8" (9.53mm) wide bevel blade for existing 0.100" (2.54mm) wide saw cut
	XL5-V23-X50	5/8" (15.88mm) wide bevel blade for existing 0.100" (2.54mm) wide saw cut
	XL5-V25-X50	5/8" (15.88mm) wide bevel blade for existing 0.250" (6.35mm) wide saw cut

ProEdge Radius Blade	XL5-R250-X50	5/8" (15.88mm) wide bevel blade for existing 0.100" (2.54mm) wide saw cut
	XL6-R500-X50	3/4" (19.1mm) wide bevel blade for existing 0.100" (2.54mm) wide saw cut

Choose the correct specification of ProEdge Blade based on the width of the pre-existing control joint as follow:

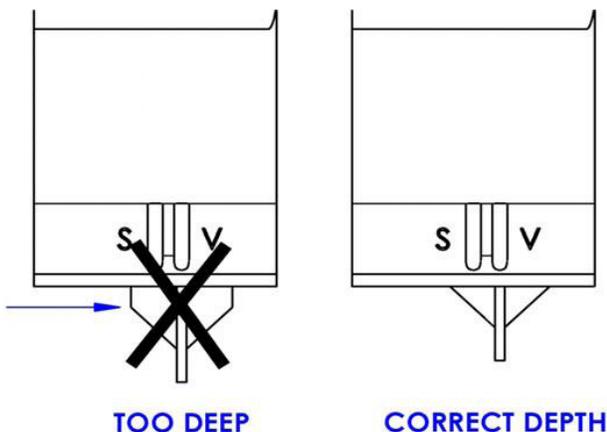


USING THE PROEDGE SERIES BLADES

Follow the instructions for installing a Excel series blade and skid plate when installing a ProEdge blade.

NOTE:
The ProEdge blade requires its own unique skid plate to function properly.

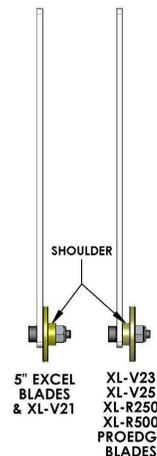
Step 1
Adjust bevel depth of cut by loosening the depth adjust arm. Pull up on the lower guard until the proper amount of blade protrudes below the skid plate. (See figure below for proper depth).



Step 2

Set the depth adjust arm firmly against the depth stop bolt and tighten the depth adjust thumb screw to set the depth. Remove the guide wheel and reinstall with the shoulder against the guide arm (See illustration: Guide wheel installation).

GUIDE WHEEL INSTALLATION
(NOTE SHOULDER ORIENTATION)



Step 3

Line up the saw by pushing down on the saw lower the blade into the existing cut. Use the "V" notch on the front of the lower guard to fine tune alignment. Flip the lock-off button and squeeze the paddle switch to turn "ON" the saw. Allow the blade to reach maximum speed the rotate the saw down to plunge the blade into the concrete until the depth adjust arm bottoms down against the depth stop bolt.

Step 4

Push the saw forward to cut, keeping the guide wheel on the cut line. Maintain an even cutting speed for best results.

MAINTENANCE

Guards

Check all guards for damage and proper function daily especially the spring loaded lower and upper blade guard. Blade guards and cover should be secure to the saw and not damaged.

Diamond blade

Inspect diamond blades daily for damage, cracks, secure fit to the arbor, loss of segments, warping or overheating. **If any blade shows any of these problems, discard the blade and never use.**

Skid plate

Inspect the skid plate daily for damage, excessive wear in the blade slot, burrs on the concrete surface side, and twisting. Replace the skid plate with each new blade. Never re-use skid plates or spalling and ravelling may result.

Saw controls

Inspect all controls for proper function daily. **Check the ON/OFF paddle switch for proper operation.** Insure that the lower guard swings open and closes freely.

Cleaning

Clean the blade housing of any excess concrete build up after each use. Keep all openings and slot on the saw clean and open so air flows freely through the motor compartment to insure proper cooling.

MAINTENANCE SCHEDULE

Check guarding, diamond blade, skid plate, and controls.	Daily
Clean blade housing assembly and saw.	Daily
Clean dust and debris from ventilation openings.	Daily



WARNING

Do not modify the saw! Use only Husqvarna Construction Products replacement parts. Use of unauthorized parts may create a danger or damage the engine.

MAXIMIZING THE SOFF-CUT SYSTEM

“ **The timing of concrete operations - especially finishing and jointing - is critical**”, states a quote from the foreword of the American Concrete Institute (ACI) 302.1 R-96. It goes on to say that “Failure to address this issue can contribute to undesirable characteristics in the wearing surface as cracking...” (It mentions other problems).

The patented Soff-Cut Ultra Early Entry system has revolutionized the method used to control random cracking. While Soff-Cut is being specified more today than ever, sometimes the ultra early-entry spec is not always followed on the job site. In order for the Soff-Cut system and an experienced Husqvarna contractor to do a satisfactory job, four components must exist to meet the “specification”:

1. A Soff-Cut Ultra Early Entry dry up-cut saw
2. A Husqvarna Excel Series dry-cutting diamond blade
3. A Husqvarna anti-ravel skid plate installed with every new diamond blade
4. An operator skilled in using the Soff-Cut Ultra Early Entry cutting system.

Without this, joints can not be cut clearly enough to control random cracking before it starts, which is what the building owner is paying for.

The ACI Spec 302.1R-96 says it best:

“Early-entry dry-cut saws use diamond-impregnated blades and a skid plate that helps prevent spalling. Timely changing of skid plates is necessary to effectively control spalling. It is best to change skid plates in accordance with manufacturer’s recommendations...The goal of saw-cutting is to create a weakened plane as soon as the joint can be cut...The timing of the early-entry process allows joints to be in place prior to development of significant tensile stress in the concrete...”

The Portland Cement Association (PCA) engineering bulletin, Concrete Floors on the ground, also states:

“Proper jointing can eliminate unsightly random cracks. Aspects of joining that lead to a good job are choosing the correct type of joint for each location, establishing a good joint pattern and layout, and installing the joint at the correct time... **Timing of joint sawing is critical**...Lightweight, high-speed, early-cut saws have been developed to permit the joint sawing very soon after floor finishing, sometimes within 0 to 2 hours...if the cut is sawn within a few hours after the final finishing, random cracking can be controlled...”

Husqvarna has the only Ultra Early Entry dry-cutting system (Soff-Cut) which controls random cracking through the early timing of the cut. With the patented Soff-Cut method, control joints are usually cut within 0 to 2 hours after the finishing process. Joint cutting should begin as soon as the concrete will support the weight of the saw and the operator at each joint location and before final set. If the joints are not being cut within this time frame then the Soff-Cut Ultra Early Entry method is not being followed and building owners are not getting what they are paying for or the finished product that they expect.

We hope this information is beneficial to building owners, general contractors, concrete finishers, saw operators and the entire industry. For additional information, contact Husqvarna Construction Products at (951) 272-2330 or (800) 776-3328, or see our website www.husqvarnaccp.com.

SAWING CONTRACTION JOINTS

As concrete hydrates or cures and begins to set, it develops internal stresses which may cause random cracks. Random cracks cast doubt on the quality and workmanship of the concrete. Contraction joints are cut in concrete to relieve these stresses before they seek their own relief in the form of random crack. The Soff-Cut Ultra Early Entry system controls random cracking through the early timing of a saw cut at predetermined locations to create weakened planes in the concrete that subsequently crack at the bottom of the cut to relieve stress. Husqvarna sawed contraction joints should be a minimum of 1/8th the concrete depth and a minimum of 1" (25mm) deep. Contraction joints should be sawn as soon as the concrete will support the weight of the saw and the operator without marking or damaging the concrete. There are many possibilities for joint layout. Joint layout should be provided, the saw contractor should submit a detailed joint layout for approval prior to cutting. Several factors affect joint spacing including:

- Concrete thickness
- Type, amount and location of reinforcement
- Shrinkage potential of concrete-cement (type, quantity), aggregate (size, quantity, quality), water to cement ratio, admixtures, concrete temperature
- Base friction
- Slab restraints
- Layout of foundations, racks, pits, equipment pad, trenches, etc.
- Environmental factors - temperature, wind, humidity
- Methods and quality of concrete curing.

Generally, contraction joint patterns should divide slabs into approximate square panels per the recommended spacing shown.

RECOMMENDED CONTRACTION JOINT SPACING	
Concrete thickness, in. (mm)	Maximum spacing, ft. (m)
3.5 (90)	8 (2.4)
4, 4.5 (100, 114)	10 (3.0)
5, 5.5 (125, 140)	12 (3.6)
6 (150) or greater	15 (4.5)

At all intersecting cross cuts, install Husqvarna joint protectors at each joint to prevent joint damage. Install an additional joint protector where the right wheel will cross the joint to prevent concrete damage.

TROUBLESHOOTING

SAW IS SPALLING AND RAVELLING CUT

- Check to see if the diamond blade is worn out, glazed, warped or damaged.
- Check to see if the spring loaded lower guard/skid plate swings open freely without binding.
- Check skid plate for excessive wear or gap around the diamond blade.
- Check bottom of skid plate for metal burrs or irregularities.
- Insure skid plate is not twisted or bent.
- Insure the skid plate is held flat and firmly against the concrete while cutting.
- Do not twist or move the saw sideways while cutting.
- Check that the electric motor is running smoothly and properly.
- Insure the diamond blade is properly mounted and secured with clean flanges.
- Insure that the diamond blade is the correct specification for your area.

cont...

- Insure the slab is clean with no debris that could raise the skid plate or saw while cutting.
- Use Husqvarna joint protectors at all cut intersections.
- Clean excess concrete debris from the blade guard assembly.
- Hold down depth stop bolt while rotating the saw/blade out of the cut.
- Do not stop the electric motor while the blade is in the cut.

ELECTRIC MOTOR WILL NOT START

- Check that the power cord is properly plugged into a polarized outlet.
- Check that the power supply is sufficient to run 120V~60Hz, 12A equipments.
- Check the power cord for damage or cuts.
- Check that the extension cord is the proper wire size.

TECHNICAL SPECIFICATIONS

Weight and Dimensions 50

Weight – dry	9 lbs	4.1 kg
Operating weight	9.5 lbs	4.3 kg
Length	22 inch	559 mm
Width	10 inch	254 mm
Height	9.5 inch	241 mm

Blade

Material cut	Green concrete only	
Blade type	5.0 inch (127 mm) dry cut diamond blade with tri-arbor	
Blade rotation	Counter clockwise, upcutting	
Blade shaft speed	11,000 rpm	
Cutting depth	3/4 to 1 inch (19 to 25 mm) depending on amount of blade wear	
Cutting distance from wall	less than 1.0 inch	less than 25 mm

Motor Specification:

12 Amp, 11,000 RPM, 120V Electric Motor

CONFORMITY CERTIFICATES

CALIFORNIA AIR RESOURCES BOARD (CARB): CARB standards do not apply to this machine.

For more information see the website <http://www.arb.ca.gov>

WARRANTY

HUSQVARNA EQUIPMENT WARRANTY

New **50 Handheld** sold by Husqvarna Construction Products are warranted to be free from manufacturing defects in normal service for a period of six (6) months for labor and up to one (1) year on parts from date of purchase by the original consumer purchaser or date of introduction into rental company fleet.

Our obligation under this warranty is expressly limited to the replacement or repair at Husqvarna Construction Products, or at a service facility designated by us, of such part or parts if inspection shall disclose it to have been defective.

This warranty does not apply to defects caused by damage, unreasonable use, faulty repairs made by others (or defects caused by failure to provide reasonable maintenance, while in the possession of the consumer). Further, the warranty is void if the product, or any of its components, are altered or modified by the consumer purchaser, or if the product is used in an inappropriate manner not recommended by the manufacturer.

The use of any other blade except Husqvarna Construction Products blades and skid plates will void the warranty and could cause internal damage to the motor.

In no event shall Husqvarna Construction Products be liable for any indirect, incidental or consequential damages from the sale or use of the product. This disclaimer applies both during and after the term of this warranty.

This warranty gives you specific legal rights and other possible rights, which may vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you. Some states do not allow limitations on how long an implied warranty lasts so the above limitation may not apply to you.

WARRANTY ON ENGINE

Husqvarna Construction Products does not perform warranty repairs or reimburse for warranty repairs on engines. Engine warranties are provided by the engine manufacturer.

To obtain warranty repair: Take your engine along with your proof of purchase to any general purpose dealer or distributor nearest you.

If you are unable to obtain warranty service or are dissatisfied with the warranty service you received, contact the owner of the dealership involved. Normally, this should resolve your problem. For further assistance, call our parts and service department at 1-800-776-3328 or 1-951-272-2330.

WARRANTY ON REPLACEMENT PARTS

There is a three (3) months warranty from date of purchase on all replacement parts.

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Covered by one or more of the following U.S. Patents

4769201, 4889675, 4928662, 4938201, 5056499, 5086750, 5184597, 5303688, 5305729, 5373834, 5441033, 5505189, 5507273, 5570677, 5575271, 5579754, 5582899, 5603310, 5660161, 5664553, 5666939, 5689072, 58030371, 6892719, 6990972, 7073495, 7163010, 7258115.

Other U.S. and foreign patents pending.



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