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Would your crew promise (and deliver!) effective control of many weeds for as little as ten cents per thousand square feet?

Would they promise not to damage or weaken any growing stock they are cleared to handle?

Would they keep on working around the clock, month after month?

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IN A BUCKET (from page 29)

declined sharply. "We no longer have such injuries as cutting across the knees with saws, gouging in the sides, scrapes and scratches," he says.

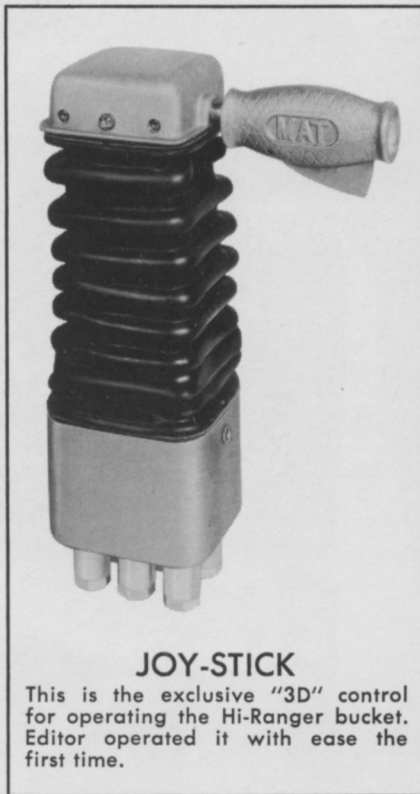
Ralph's excellent in-tree safety record with Hi-Ranger towers is directly attributed to two things. He selects top men to operate the buckets. And all operators follow rigid safety rules. "When a man is in a bucket, he's comfortable. If not, he can move to a position where he is comfortable," he says. "Very few cuts are made from an uncomfortable position. We stress that if you have to bring the bucket down and move the truck, that's the thing to do."

Other safety rules include:

1. Don't reach from the bucket.
2. Stay in the bucket at all times.
3. Don't stand on top of the bucket.
4. Wear a safety harness at all times.
5. One man per bucket.
6. Don't use the bucket as a battering ram.
7. Wear a safety helmet (hard hat) at all times.
8. Visually and mechanically inspect tower daily.
9. Using a rope as a gin pole is out.
10. Always put outrigger booms out.

Perhaps the most popular item of the Hi-Ranger is the exclusive "3D" one-hand control. One arborist

who climbed into the cockpit (bucket) for the first time likened the control to the "joy stick" on an old piper cub. Whatever direction you want to go, you move the lever thusly and the response is immedi-



JOY-STICK

This is the exclusive "3D" control for operating the Hi-Ranger bucket. Editor operated it with ease the first time.

ate. Move it up, move it down, push it forward, pull it back, twist it right, twist it left or combine control motions simultaneously. The platform moves precisely where you

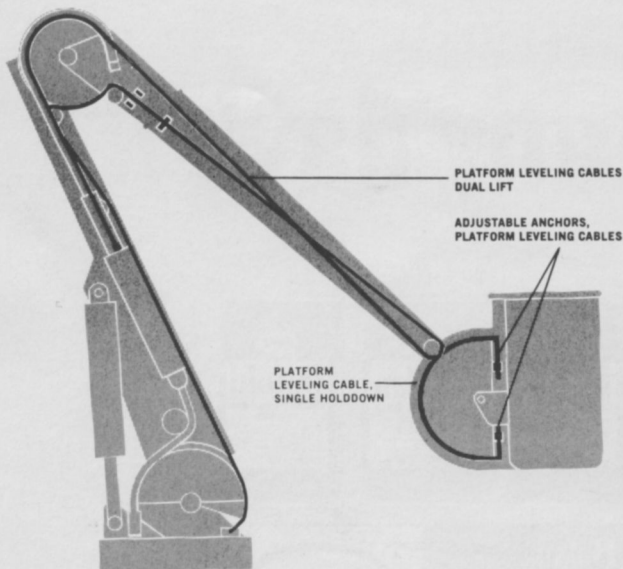
want it. Let go the handle for an instant and the automatic safety interlock "freezes" all movement.

Mobile Aerial Towers technicians point out that the bucket is automatically self-leveling in a positive fashion. In other words, it will remain parallel to a tree all the way to the top if you want it to. Other buckets can only "kiss" the tree at some point, then reposition to "kiss" again. Arborists repeatedly say that this one feature stands out above others in this market.

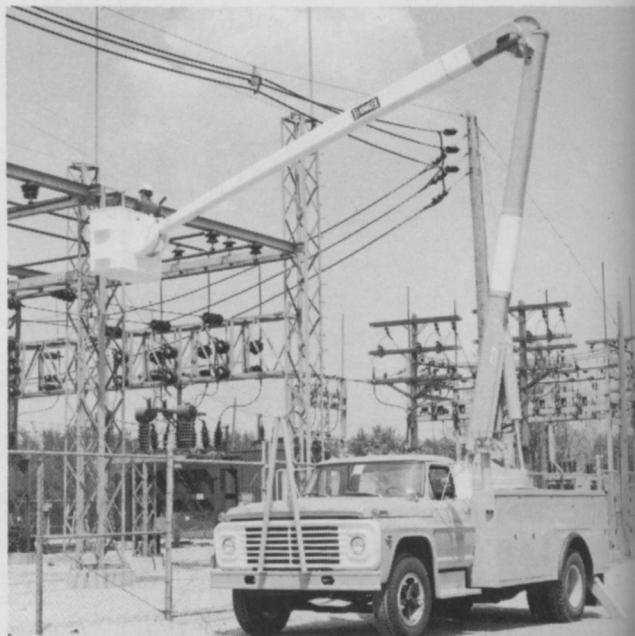
Another feature that Ralph likes is the fact that the bucket is positioned on the end of the tower, not to the side of it. "We've tried buckets mounted on the side," he says. "From one side it is fine but just try working from the other side. It's horrible! Ninety percent of our work is with trees between the sidewalk and the curb. You can't pull a tower into a resident's yard. You've got to have something that permits access to both sides of a tree equally. The bucket mounted on our Hi-Ranger towers will do that because it is attached to the end.

"So if you come on this side of the tree, you are right next to your work; if you go to the other side of the tree, you are right next to your work. You can come in and set right down in the crotches and do a cable job. You can literally put that bucket any place in a tree!"

During a busy season, Ralph will keep his towers on the go most of the time. "We figure we have be-



PLATFORM SELF-LEVELING SYSTEM: When upper and/or lower booms are elevated or lowered, the work platform (bucket) remains level by compensating action of the leveling cables system. This clever device keeps operator at right angles to the ground at all times.



Hi-Ranger towers can be used in utility line work, too. Note that white portions on the booms are constructed of fiberglass. Each tower must pass an electrical test of 150 thousand volts.

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tween \$18,000 and \$22,000 invested in each tower," he says. To get a return on investment, towers must be operated regularly. Under normal conditions, a tower for this Hoosier arborist will be ready to trade in 10 to 12 years.

Because Ft. Wayne has many stately trees adjacent to the curb, workers often find utility wires to work around. Ralph says that his towers are highly insulated, particularly in the upper boom and bucket areas, decreasing the risk of an electrical shock. Nevertheless, "in training our people, we bring utility experts in to explain about certain wires, which ones to stay away from, and which ones you are relatively safe in working close to," he says.

Mobile Aerial Towers people second this move. Accordingly, every tower manufactured is subjected to an electrical test of 150 thousand volts. In addition, other rigid tests include a three times structural overload test and a one-and-a-half times tipping test.

At day's end we left Ralph knowing that as an arborist he is pleased with this type bucket. It fits in his operation and with his other equipment. His 35 employees find that the Hi-Ranger is not just another piece of machinery, but rather a tool needed to accomplish a job.

One point Ralph made over coffee during the day seems to fit here. "We'd have to substantially increase our workforce in order to handle the number of trees we currently trim if we didn't have towers," he said. "We don't want to do that. We want to keep the high caliber men we have now. Mobile Aerial Towers have the kind of tower that we like better than any we've seen so far."

Colorful Tree Care Booklet Offered By Davey

Growing public interest in planting and maintaining trees to help improve the environment led Davey Tree to expand and completely revise the "Davey Guide to Tree Beauty and Tree Care." The result is a new 36-page booklet on tree care designed with the homeowner in mind.

The new four-color illustrated edition provides technical information in layman's language to help homeowners determine the general health of their trees, provide for their care, and select the most suitable tree, locate and plant it properly.

The new booklet explains why



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For More Details Circle (112) on Reply Card

tree care is necessary, and important in the effort to beautify our land. It explains the life functions of a tree, shows the layman how to recognize signs of trouble, and provides a calendar of tree care to indicate when work should be done.

How to plant small, bare-root trees, move large trees to home grounds, and protect trees from insect attack and disease are described and illustrated with charts and photographs.

How to select trees for shade, flowering or special effects, wind-breaks and screens, and fall color is also covered, presenting lists of popular and new varieties, their height at maturity and other characteristics such as climatic zones, color of blossoms, and rate of growth.

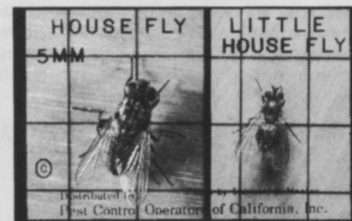
Recommended "do's and don'ts" help the homeowner plan the best location for new trees, avoid common landscape mistakes, and create grounds that will increase in beauty and desirability.

The new booklet is offered at \$1.00 per copy. Copies may be ordered by writing Davey Tree, Department 9C, Kent, Ohio 44240.

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Lawn And Turf Pests In Utah

By DR. WILLIAM D. BUCHANAN

Entomologist

Brigham Young University

In 1971 the lawns and turf in parts of Utah County, Utah had many brown spots develop in them that varied from a few inches in diameter to several feet.

Upon examination it was found that the grass roots were cut off just below the surface of the ground by a caterpillar that was less than one inch long. The caterpillars develop into an unattractive gray moth with a wing spread of about one inch.

The moth flies only short distances but stays about one to one and a half feet above the grass, and upon contact with a blade of grass crawls to the base of the plant.

The moth is known by the technical name

of crambus probably *bonifatellus*.

Eggs are laid by the moths as it flies and also after it crawls to the base of the plant. The eggs hatch into caterpillars with several generations each season.

In the fall the caterpillars enclose themselves in silken cocoons that are covered with soil. They remain in the cocoon until early spring when the moths emerge and starts a new cycle.

Adults were observed in March 1972 during a period of unusual warm weather for the area. They stopped activity until after a cold period, and thousands of them are now active again.

Damage was prevent-

ed by the use of Chlordane emulsifiable concentrate at the rate of 5 tablespoons of the concentrate in one gallon of water and applied with a pump-up sprayer.

However several small spots developed before they were sprayed, and each case the grass grew over the damaged area. In all areas where pesticides were not applied the grass died in ever larger spots.

Biological agents were not observed. In several hundred caterpillars no parasites nor predatory insects were found. No harm was observed to birds, pets and wild life that visited areas that had been sprayed with chlordane.

Michigan Freeway Interchanges Site of Urban Tree Study

Trees along heavily traveled urban freeways take a beating from auto fumes, industrial and household pollutants and mist from salt used in winter maintenance.

Horticulturists at Michigan State University, cooperating with the Department of State Highways, have embarked on a study to find out which species of trees will thrive best along city highways traveled daily by many thousands of vehicles. Their findings will guide highway departments in Michigan and other states in their urban landscaping programs.

More than 1,000 trees of 28 species have been planted in three freeway interchanges near Detroit. Species range from Austrian pine and Norway spruce to horsechestnuts, honeylocusts and crabapples. White pine and other species known to be sensitive to urban pollutants also were planted as "controls."

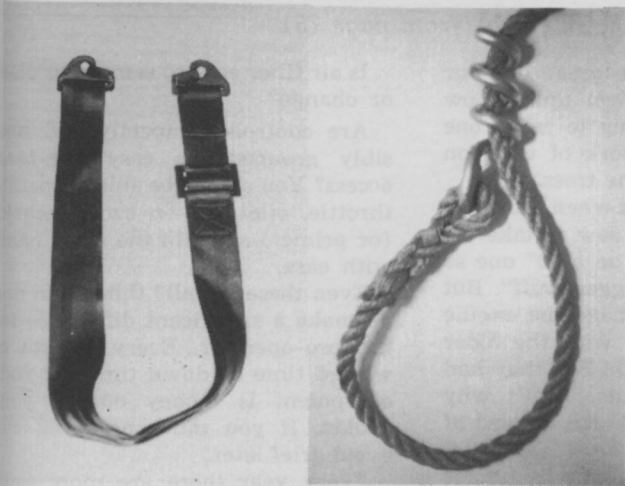
The long-range goal is to beautify city freeways and other highways

with large, healthy trees that will soften the severe lines formed by concrete and steel.

Dr. Harold Davidson, MSU professor of horticulture, will supervise the study. It is financed for the first year by a \$20,000 grant from the Michigan Legislature as part of the annual state appropriation to the Agricultural Experiment Station at the University.

"The study is unique in at least two ways," Davidson said. "It is the first time in Michigan, and perhaps in the United States, that a research team has tried to find which trees are most tolerant to adverse conditions found in highway right-of-way in urban areas. He hopes the study will continue for at least three years.

In that period, horticulturists and Tim Chick, district forester for the State Highway Department, will check the trees regularly for growth rates, evidence of tolerance to salt mist and other pollutants, malformations and other signs of damage.



Climber's strap

Larry's Magic Knot

New Arborist Tools Called Simple And Clever

If you're a tree man who has often strained to tie a good clove or timber hitch onto a limb you could just barely reach or tried to untie a heavy chunk of wood from a rope that wouldn't quite reach the ground—or worse yet, get the knot out from under a big piece that was already on the ground, Larry's Magic Knot is great news.

At first look the Magic Knot just looks like a steel corkscrew with an eye end. Physically, it's just that it's just that *simple but what you can do with it is where the magic comes in.* Here are some of the tricks:

The Magic Knot enables even any amateur to "tie" a first rate non-slip timber hitch with one hand.

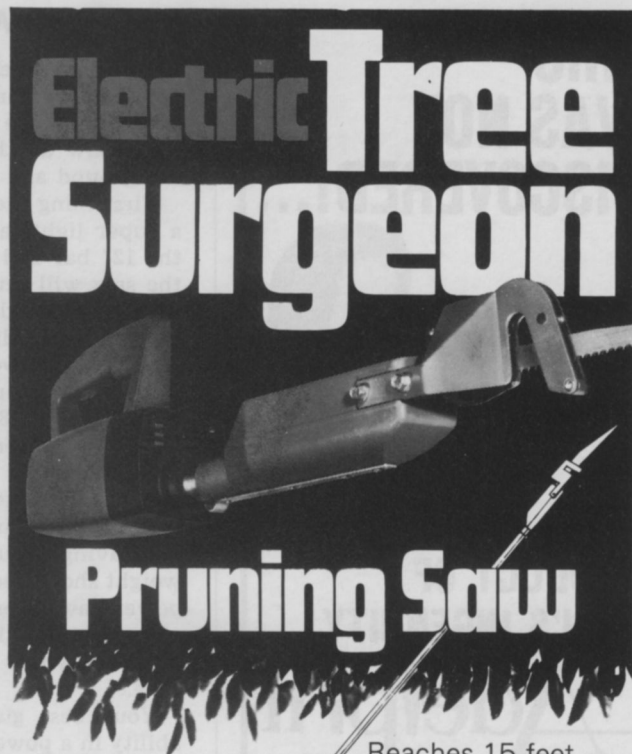
You can rig up a limb or tree for lowering without ever leaving the ground. You can easily untie a heavy piece hanging with all its weight still on the rope. No rope knot will do that. You can tie securely and untie easily, any tree limb with only one hand.

The Magic Knot is made for use with $\frac{1}{2}$ " or $\frac{3}{4}$ " rope (Larry recommends $\frac{1}{2}$ " synthetic) and should be spliced right on the end of the rope. It sells for \$5.95 postpaid and is currently available exclusively from Product Development International, 200 Sylvan Avenue, Rutledge, Pa. 19070.

Relief for the headache and backache of tree men is on its way at last. No, it's not another miracle drug, but rather two small items that are big on convenience for all tree climbers.

Relief for the tree man's backache comes in the form of a unique new lightweight climbers tie-in strap. Using lightweight steel aircraft type end-fittings and adjuster bars, this nylon strap weighs only ten ounces as opposed to the four and five pound monstrous heavy-weight climbing straps now in use. This lightweight addition to the trade is a comfortable constant companion to tree men who frequently need a temporary tie-in when changing tie-ins with their ropes or spiking on take-downs, etc., or for added comfort and stability when working in those difficult positions that send you home at night with cramps in your back. The Tree Man's Tie-In Strap sells for only \$7.98.

For more details on the Tie-In Strap, Circle (720) on the reply card.



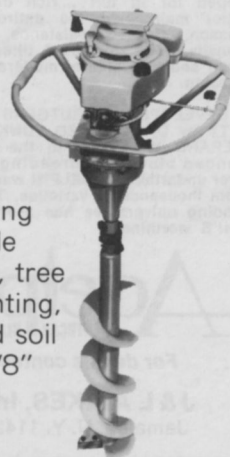
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CHAIN SAW SELECTION (from page 15)

lightweight ones are great but our boys are burning them up!" Know why? They are trying to make one small saw do the work of two (on the ground and in the trees).

First thing they do when they buy a super lightweight saw is take off the 12" bar and put on a 16" one so the saw will "cut bigger stuff". But what's supposed to make the engine bigger? They did it with the older original "lightweights! But they had more beef, more guts. That's why they weighed 18 or 20 lbs. instead of 6 or 8 lbs. Remember?

So while it's good not to hinder yourself with too much equipment, you can also out-cheap yourself by not having enough. The super lightweight should be an addition to your power saw strength, not a replacement for anything. Keep that in mind and yours will last a long, long time.

Your best guarantee of dependability in a power saw is what's built in before you buy it.

Is the saw you are about to buy built for commercial use? Pick it up and examine it closely. Some saws are just not built for rugged heavy duty use and it shows.

Look the saw over and try to visualize it being pulled up and down through tree branches or being carried thru heavy brush, or being jostled in the back of a truck from job to job year after year? Will it be able to take that kind of abuse?

Look the recoil starter over. Heavy duty cord? Pull it and test the spring return. (They're no small job to change in the field.) Does the unit look and feel like it will take hundreds, perhaps thousands, of starts without failure.

Are the spark plugs and ignition accessible yet safely tucked out of the way so they don't get knocked off by brush or branches?

Does the saw feel well balanced? Are the handles strong and compact with a wrap around configuration or are they somewhat frail looking or just sticking out waiting to be broken off? Examine them carefully. Are they easily replaceable or will you just about have to rebuild the saw?

Are there good handle grips? Oil and gas can make bare handles dangerously slippery.

Are gas and oil fill caps located in convenient places for quick fill up? Is gas fill safely located so spilled gasoline does not run right down on a hot muffler? (Speaking of mufflers, you should insist on a spark-arresting type of muffler.)

Is air filter easy to remove or clear or change?

Are controls compactly and sensibly grouped for easy one-hand access? You should be able to operate throttle, oiler, off-on switch, choke (or primer) all with the same hand, with ease.

Even these "small" things can and do make a significant difference for the pro-operator. Every minute of wasted time or down time for your equipment is money out of your pocket. If you think now you can avoid grief later.

Every year there are more saws and more new features to make the buyer's choice more exciting (and more complex) than ever. Of course, even the "best" saws will not have all of the best features because they vary from manufacturer to manufacturer. Here then is a run down of some of the features you will most likely be encountering in your search for the right saw:

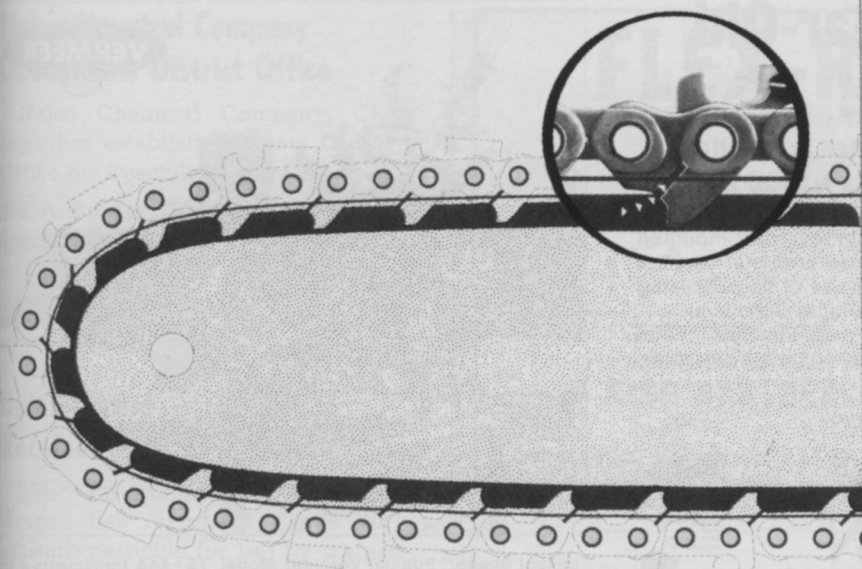
AUTOMATIC OILING — means you don't have to pump oil manually. A good feature if you have manual oiling too. Most pro-jobs require lots of oiling for bar and chain. One bad thing about automatic oiling — you can run out of oil without realizing it.

ANTI-VIBRATION (or vibration isolated) handles, etc. Hour after hour of chain saw use can numb the strongest of hands and tire out arm muscles. This feature is worth shopping around to find for the commercial user. Stihl saws are tops in this department.

COMPRESSION RELEASE — releases the compression in cylinders for easier (prevents saw from jerking around) starts. Certainly a convenience but no real big deal. (See photo on page 383)

SOLID STATE IGNITION — advanced type of ignition system which eliminates the need for break points and condenser. Lasts indefinitely but add expense to the saw and has not received as good a response as the manufacturers had hoped for.

PRIMER OR CHOKE — which is the best? There is honestly no general agreement amongst power saw users. A primer can give you first pull starts which you usually won't get with a choke. However, a choke is more versatile (you can give it half choke, quarter choke, etc.) and it is dependable. At least one major manufacturer now using primers is switching back to chokes in 1973. That should tell us something.



Here's a clever device. Oilamatic chain by Stihl "recycles" chain oil in bar grooves and carries it to rivets and sprocket.

SPIKE BARS give you improved leverage when cutting. Nice item but reduces effective bar length 1-2" not *really* necessary on direct drive saws.

SPARK ARRESTING MUFFLER — Prevents "live" sparks from getting out of the exhaust. You need one,

period! They are very important if you work around dry brush, and who in this business doesn't. Some manufacturers don't seem to agree about just how important they are but most make them available — even if it's at added cost, which it should not be. They are required

in all National and State forests and should be required on your jobs.

CHAINS — There are several new concepts in chains on the market worth looking for. Some chains have chrome plated cutters which definitely increase chain life. Stihl makes an "oil scooper" chain (Oilamatic) which picks up and reuses oil that has run down into the bar groove. Clever idea! Pioneer saws are now using the Sure-Guard chain that prevents dangerous saw kick-back when chain hits knots in wood, etc. A long needed and very welcome safeguard for saw users!

ROLLER BARS — The roller bar has been around for a while now and although it does reduce friction its not all that great according to many users I've queried. Its value is questionable on the high speed direct drive saws. Even on slower gear driven jobs, the roller end is easily bent, the bearings wear out and can get gunked up with dirt, etc. Not a feature worth paying more for, especially since most bar tips are hardened steel anyway.

AUTOMATIC CHAIN SHARPEN-

(continued on next page)

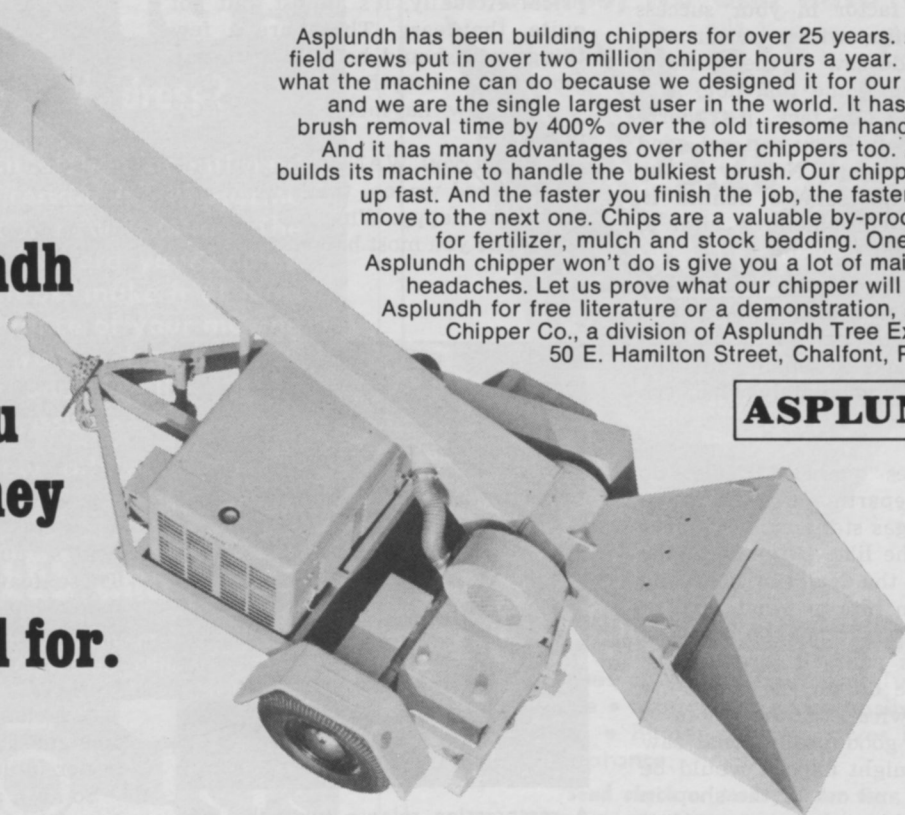
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For More Details Circle (101) on Reply Card

CHAIN SAW SELECTION (from page 37)

ERS — in a word, forget it. They are a gimmick made for, and sold to, amateurs. They require a special chain (which, by the way, doesn't cut very well, even when sharp) and a built in sharpening stone, etc. They have no place in the field with pros.

SERVICE — The *place* you buy your new saw may be the most determining factor in your success or dissatisfaction with a power saw. The best made saw in the world is no better than some real dog, if it needs repair. (In fact, it's *worse* than a real dog if you can get good service on the dog.) **No saw is any better than the service behind it.**

Service on equipment is vital to the commercial operator.

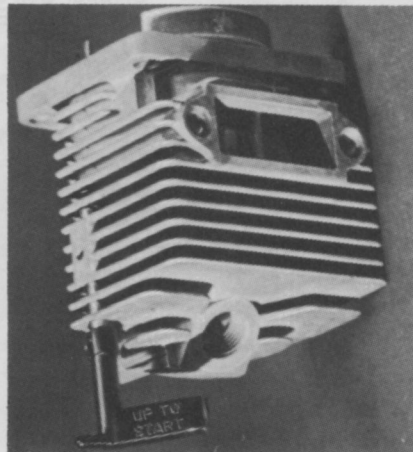
The place to buy a professional power saw is at a professional power saw dealer who has facilities, personnel and parts to repair your saw expertly and immediately when (no "ifs" about it, it will need service) it needs it.

In most cases "qualified" dealers *do not* include department stores, hardware stores, gas stations, mail-order houses and the like. No matter how well you like the dealer or how long you've known him or what kind of "discount" he's giving, the question you must ask yourself foremost, is: "What can he do for me when my saw needs service". (Authors note: A definition of good professional saw service you might expect, would be generally: in and out of the shop in one full working day except if it needs special parts (such as the frame, etc. in which case you should

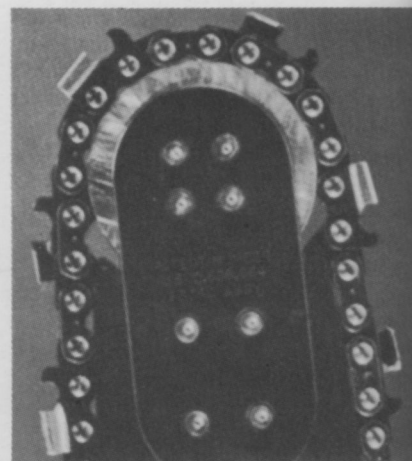
be able to borrow or reasonably rent a saw till yours is fixed.)

Once you have decided in your mind exactly what you **NEED** in a power saw and what features you want the most, and know off-hand, or have checked the yellow pages for, several qualified dealers, the matter of price becomes rather simple. Who has got what you want at the best price? Actually, it's almost, but not quite, that easy. There are a few things you should be willing to pay more for. Among them are:

1. The saw that meets your **EXACT** needs.
2. What you **WANT**. (If your kid wants a red wagon, that's what will make him happy. What **YOU WANT** will make you most happy.)



A compression release takes the compression out of the engine during starting, thus making the starter rope much easier to pull.



A roller nose bar tip has been introduced on many saws. It helps reduce drag and friction. However, value is questionable, especially on high-speed direct drive saws.

3. Convenience — A qualified dealer right around the corner is worth sacrificing a few bucks initial cost to have.

4. A dealer known for good service.

5. Safety features; such as spark arresters, Sure-Guard Chain and Stihl's auto-throttle lock. (Note: These features do not always cost more but they are *worth* extra money if they do.) You can't put a price on your safety or that of your workers.

6. A longer or more comprehensive guarantee. It usually indicates a better built saw.

So now, armed with some good information on how to choose it, you're ready to go get the deal of your life on a power saw. Happy hunting!

Nalco Chemical Company Opens New District Office

Nalco Chemical Company, Chicago, has established a new District Office for Specialty Chemicals.

J. A. Burger, District Manager, and J. A. Glantz, District Representative, will be located at 8627 Mayfield Road, Chesterland, Ohio 44026.

Union Carbide's Temik 10G Receives New EPA Label

The Environmental Protection Agency has registered Temik 10G aldicarb pesticide for use by trained personnel in commercial production of ornamental plants. The Federal registration is announced by Union Carbide Corporation. Temik 10G is a granular product that provides systemic control of a wide range of insects, mites and nematodes.

When applied to the soil, the active ingredient is absorbed rapidly by root systems and translocated to all parts of the plant, thus controlling attacking pests. As a material

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working inside the systems of growing plants, Temik 10G is "weather-proof," Union Carbide explained.

Pest control often lasts six weeks or more, and reduces the need for frequent foliar applications of other pesticides. Of interest to commercial growers is the fact that Temik 10G effectively controls resistant mites as well as other difficult-to-control pests. However, it is not cleared for use in the home or home garden, the company emphasized.

New Hydraulic Tools Brochure Released By Ackley

A new brochure describing four different light duty hydraulic tools for use in parks, cemeteries, orchards, farms, landscape gardening, golf courses, etc. is now available from Ackley Manufacturing.

For more information on hydraulic tools, write Ackley Manufacturing Co., Dept. P, 13770 S. E. Ambler Road, Clackamas, Oregon 97015.

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POWER SAWS IN TREES (from page 18)

hitting the ground. The man on the ground was permanently disabled. The man who fell was only slightly injured and returned to work two days later.

I do not attempt to debate the cause of this accident. I point out only what can happen and note that this accident should not have occurred. I do use this to illustrate that saws used in trees are a hazard and special care much be exercised in their use.

Special safety rules wholly apart from those practiced on the ground must become routine with the professional trimmer. The use of a safety line on a light weight saw is as applicable as it was for the heavier saws. If for no other reason, today's direct drive saws obtain maximum power when the engine is operating at full throttle. Thus, the chain cuts much faster than older gear driven models, which by design cut slower and operated at lower revolutions per minute (rpm). Consequently, the chances of a saw getting out of control and causing an accident are greater.

Most arborists are aware that many trees can now be trimmed properly and completely with the power saw. And while this practice is gaining in popularity, there are still several points worthy of re-emphasizing. These include:

1. The general structure of the tree and the location of "wires," if any.
2. Where cuts will be made.
3. Where the trimmer with crotch his life line.
4. Where the safety line for the saw will be crotched.
5. Will the saw start with a minimum of effort on the ground?
6. Will any limbs cut require a rope for lowering or can they

be cut so that they will fall safely to the ground?

7. Where will the lowering line be crotched if it is needed to lower severed limbs?

After considering these items the climber is now ready to move into the proper position in the tree and "tie in." The power saw rope which is used only for raising and lowering the saw and for no other job, must be placed in a proper position to insure the trimmer's safety and the safety of the saw.

Tie the rope to the saw at a balancing point, preferably on the cross-over on the top handle. A clove-hitch with a half knot is usually satisfactory. Once tied, the saw is ready to be raised to the trimmer in the tree. The rope handler must work in conjunction with the trimmer from now until the saw is relowered to the ground. The trimmer should be positioned so he can help guide the saw while it is being raised so as not to hit the trunk or limbs of the tree or other objects that might be present. The trimmer should have in advance, with his hand saw, cleared out the best suitable area for raising the saw into the tree.

The position of the rope is to allow the saw to swing free, and away from the trimmer and limb being removed. The prime duty of the man on the ground is to stay alert in keeping a taut line *except* when the trimmer is making a cut; At this time the trimmer holds the full weight of the saw.

Using all safety precautions including secured hand lines, trimmer in a safe position and others, the trimmer is ready to start the saw. It should be held steady with one hand and the starter rope pulled with the other. It should always be held directly in front of the operator and in

a level position when possible. Always be sure the trimmer has visual contact with a man on the ground so hand signals can be given in case something unexpected occurs.

Here are a few cuts that can be made by a power saw in a tree. 1. The undercut—for pulling a limb up and away from objects. 2. Top cut — A limb cut through from on top will hinge over but should have a snug rope on it and should also be finished by a hand saw. 3. Undercut and top cut — An undercut approximately one-third through and cut through from the top will let the limb fall free.

Always remember, when the possibility of the saw rail being pinched or any unsafe situation exists, finish the cut with a hand saw.

In our operation, we also consider the following points where chain saws are involved:

1. Before operating a power saw in a tree, the trimmer must have considerable experience with chain saws on the ground.

2. The saw must be kept in good mechanical condition with a sharp and properly filed chain.

3. The same kind of cuts are made with power saws that are made with hand saws.

A. When cutting be careful not to pinch the chain.

B. When it is advisable to use a hand saw to complete a cut, move power saw to a safe location.

4. One man saws should be used for making large cuts and final flush cuts. *There should be enough work to warrant a power saw.*

5. When power saw is no longer needed in the tree, the man in the tree will assist the man on the ground in lowering the saw.

6. Saws should never be raised or lowered with engine running.

7. The gas tank must not be filled while saw is in tree.

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