

Original four page catalog from the late 1960s.

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*The NEW* **H&L**  
**SLOPER  
BLADE**



PATENT PENDING

**H&L** *Teeth that really dig*

**H&L** TOOTH COMPANY • 1540 GREENWOOD AVENUE • MONTEBELLO, CALIFORNIA



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Revolutionary **NEW SLOPER BLADE** now makes  
PATENT PENDING  
**bank sloping a routine operation.**



Sloper Blade on the move cutting clean slope. Note full blade load. Sloper attachment aligns with top of dozer blade in all positions eliminating spill back. Some slopes on this highway job were cut with just two passes.

**UNIQUE DESIGN** ... The SLOPER BLADE is adjustable to slope angles of from 2:1 (26.5°) up to 3/4:1 (53°) and all angles of slope between these extremes. The unique telescoping moldboard type design is "spill-proof" and prevents loosened material from by-passing the blade or spilling into the path of tractor crawlers. By eliminating this spilling of earth, tractor tilt is eliminated and accurate sloping may be accomplished at all times.

**HEAVY DUTY** is exemplified in the sloper blades performance. In rock, conglomerate, decomposed granite and other marginal materials, sloping operations are being accomplished with ease at an unbelievably accelerated rate. Heavy steel construction with emphasis to stress and tractor balance ratio make the SLOPER BLADE an ideal performer. The Sloper Blade is available for most crawler tractor dozers in use today.

**THE SLOPER BLADE ASSEMBLY** is adjustable to forward lead, as well as to desired angle of bank slope. These adjustments are accomplished either manually, by full hydraulic control, or by a combination of the two. Controls are optional at time of purchase. Full Hydraulic Controls allow operator to make sloper blade adjustments while tractor is in motion. This is a desirable feature in modern highway, dam and mining work where slopes are variable and accuracy must be maintained.

The time consuming operation of highway bank sloping has been resolved with this new dozer attachment. Designed, engineered and built to withstand the heaviest loads of impact in rock and conglomerate. The heavy duty blade is rapidly acquiring a large group of enthusiastic users. Construction men have found that bank sloping can be an expedient and profitable segment of their operation ... Built by H & L Tooth Company, specialists for over 35 years in the manufacture of digging teeth and earth moving attachments. The many years experience and engineering knowhow have produced another proud product.



Side view showing lead of Sloper Blade, lead is adjustable forward to 1 1/2 ft. depending on type of material being cut.



Beautiful slopes like this are cut in just minutes, a real time saver. Note the CLEAN SLOPE TOE, no material left behind for tractor crawler tilt, a prime requisite for accurate sloping operations.

**CUTS SLOPING COSTS**





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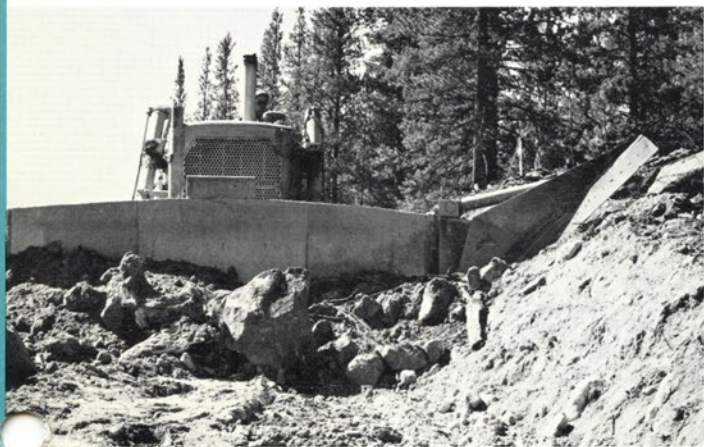
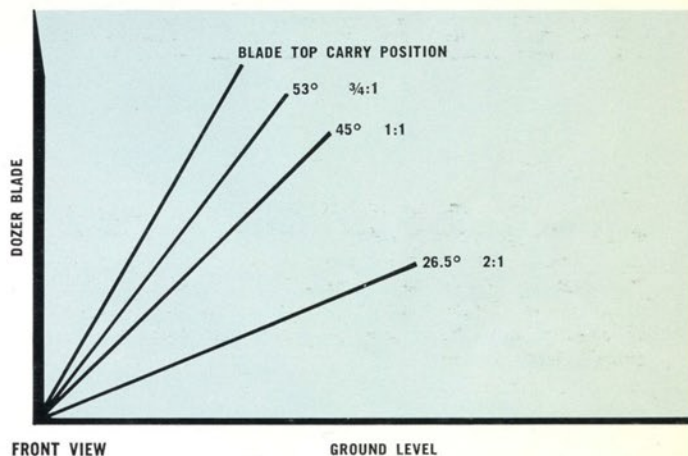
*Teeth that really dig*

UP AND OUT OF WAY...when sloping job is done the SLOPER BLADE is neatly locked in top carrying position. Dozer blade is free for other work. Clearing or grubbing, ripping or rooting out stumps and boulders. Available for pioneering or roughing in the grade. And remember, the sloper blade is right on the job when you need it to finish those slopes 1:1 or you name the grade, it's as simple as that.



Photo shows SLOPER BLADE in lowest position (2:1) slope, revealing telescoping mole-board design arrangement which makes SLOPER BLADE "spill-proof." Clean slope toe allows precise sloping operation.

Chart at right shows complete range of angles within which the SLOPER BLADE may be operated. The lowest blade position is 26.5° above horizontal ground position which finishes 2:1 slopes. The top carry position is 60° above ground level, the H & L Sloper Blade may be operated at any degree or angle of slope within 26.5° (2:1) and 53° (3/4:1).



Engineered for heavy work, Sloper works here pioneering a new road in tough rocky material. The SLOPER BLADE is available for all makes and models of crawler tractor dozers.

SLOPER BLADE cutting a slope 2 miles above sea level high in the Colorado Rockies. Note the boulders and rugged material. Cutting this slope was another routine operation saving the contractor many hours and operating costs.

**INCREASES DOZER PRODUCTION**



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## SCIENTIFICALLY FORGED STEEL SHANK & POINT FOR HYDRAULIC RIPPERS WITH SADDLE TYPE WEAR PLATE

### FORGED ALLOY STEEL SHANKS

H&L Ripper Shanks are made of high-nickel-alloy steel, SCIENTIFICALLY-FORGED-TO-SHAPE to produce a uniformly strong grain flow structure. Precise electronically-controlled heat-treating adds maximum strength, greater shock absorbing ability and increased wear resistance. The H&L Point attaches directly to the ripper shank with the easily-removed, patented H&L Flexpin!

### DOUBLE DUTY COLLAR

The unique H&L Collar guarantees a firm and positive Point connection to the strong ripper shank. This revolutionary new attachment method extends the Point bearing surface of the nosepiece, adding strength to the shank at this crucial area and also functions as a shank wear plate.

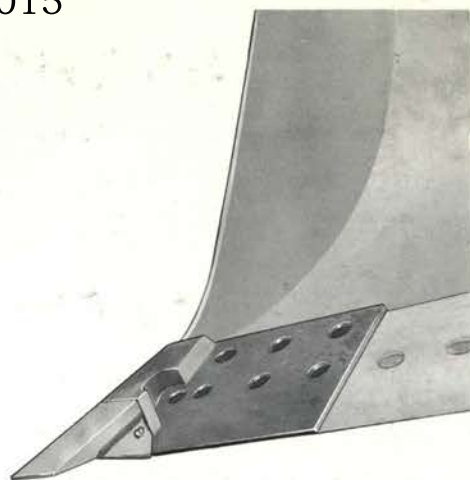
## THE UNIFORGED<sup>®</sup> RIPPER POINT

Over 35-years of research and development has gone into the design of the H&L Uniforged Ripper Point. A one-piece forging of high nickel alloy steel, especially heat-treated for uniform hardness from the core out, the H&L Ripper Point is a sharp, stay-on-the-job! You're assured of a perfect point structure because each H&L Uniforged Ripper Point has to pass the critical Magnaglo\* Flaw Detection Test... this means that you know, without a doubt, that you're getting the finest point made! A point that penetrates fast; ripping rock and compacted materials easily without slideover or bounce.

\*Trademark of Magnaflux Corporation



Pat. Nos. 2568075, 2669153 and Foreign Patents



## CORNER ADAPTER WITH REPLACEABLE POINT

- Pilots cut ahead of Sloper Blade!
- Speeds grading! Improves accuracy!
- Loosens rock and compacted materials!
- Probes and removes boulders and stumps!
- Increases production! Cuts costs!
- Cuts in straight line, even when blade is angled!

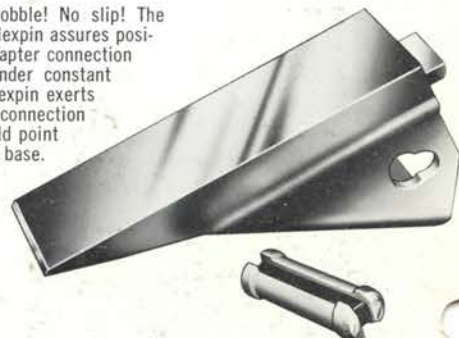
H&L Corner Bits improve the efficiency, capacity and availability of any good dozer! Because use of Corner Adapter facilitates digging, wear and tear on equipment is minimized—less power is required to achieve peak production and performance. Cutting costs are substantially reduced and dozer production improved. Adapter permits operator to maintain sharp and accurate control, even when dozer is working in rough and rocky materials.

### ADAPTER... Easily Attached!

Using same bolt holes as regular end bit, H&L Corner Adapter with Replaceable Points is easily attached in place. Adapter is made of rolled high alloy steel—electronically controlled heat treating provides maximum strength and durability.

## AVAILABLE FOR ALL MAKES AND MODELS OF BULLDOZERS

No rock! No wobble! No slip! The patented H&L Flexpin assures positive, point-to-adapter connection at all times! Under constant compression, Flexpin exerts pressure within connection to force and hold point tightly on tooth base.



Pat. Nos. 2914868, 2568075, 2669153 and Foreign Patents

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# H&L

## TOOTH COMPANY

1540 SOUTH GREENWOOD AVE.

MONTEBELLO, CALIFORNIA

CABLE ADDRESS—TOOTH, MONTEBELLO

Specialists for over 35 years in the science and perfection of digging teeth... Teeth that are setting unequalled production and endurance records around the world—Try 'em!