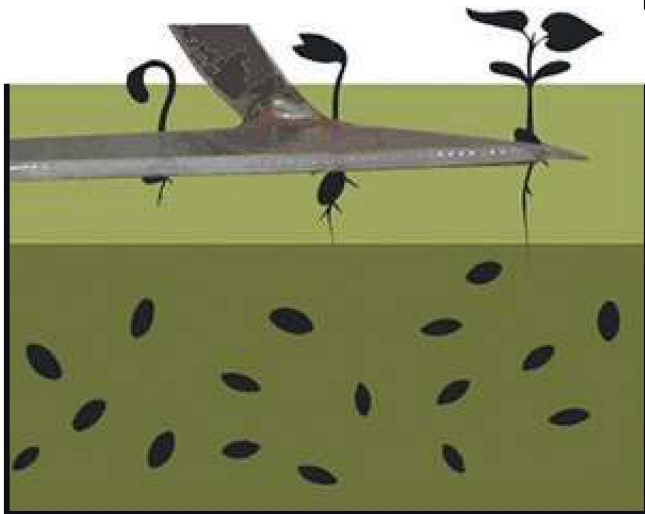
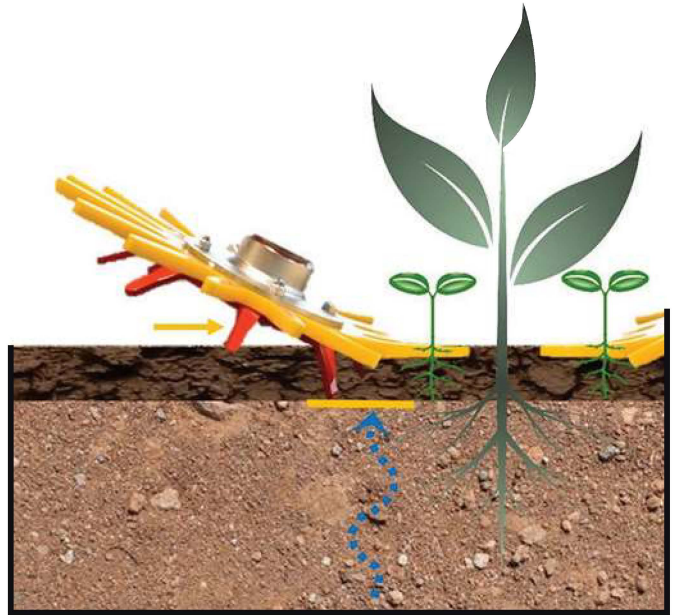


cropline

CULTIVATING TOOLS CATALOG



***Helping you maximize your profits
with effective weed control.***

Our goal at Cropline Equipment is to equip farmers with the solutions they need for effective herbicide free weed control, because effective weed management should be possible and practical for every farmer.

With our lineup of sweeps, finger weeders, complete cultivators and customized cultivating solutions we can help you find the solution you need to beat the weeds! Check out this catalog to see how we can help you.

*On these 2 pages we show a brief overview of shallow cultivation and finger weeders, and how these can be very effective tools in your weed management program. For more information on weed management and cultivator setup check out our book: **Weed Management and Cultivation Handbook** and other books in the back of this catalog.*

SHALLOW CULTIVATION

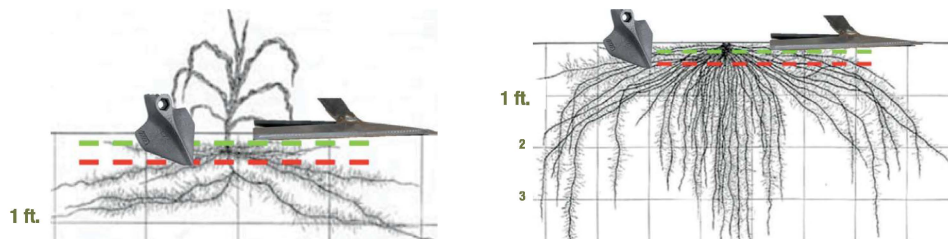
While it can be useful to cultivate deeply at times, shallow cultivation can provide a number of benefits such as the following:

- Fewer weed seeds brought up into the Germination Zone
- Less root pruning of your crop
- Less soil disturbance leaves more moisture in the soil. An inch of loamy soil can hold 0.18 inches of rainfall.
- Moving less soil allows you to cultivate closer to the crop when it is small, for better weed control



Most weeds only emerge when they are within 2" of the soil surface. Those buried more deeply will not germinate, leave them there with shallow cultivation.

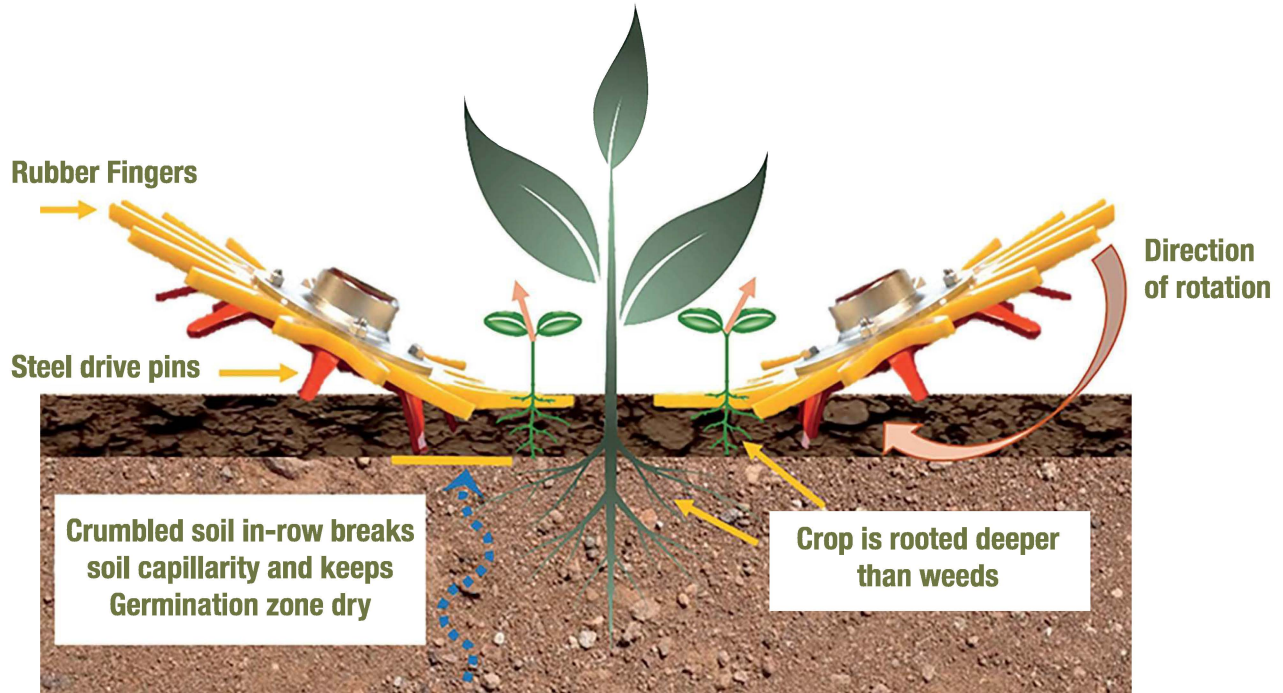
When shallow cultivation is combined with bare fallows, this can be a powerful combination for weed control. Bare fallowing is the practice of leaving the soil bare for a few weeks or longer before planting and repeatedly cultivating the soil surface during this period to drain the weed seeds from the soil.



In both young and established corn, observe how deeper cultivation kill corn roots - 3" depth (red line) vs. 1" depth (green line).

FINGER WEEDERS

Finger weeders are able to uproot weeds inside the crop row. In addition to hilling (throwing soil in the crop row to bury weeds) and tine weeding, finger weeders are one of the few tools that can remove weeds in the crop row.



Finger weeders have metal drive pins that engage the ground and turn the plastic fingers at the speed of travel. Because the plastic fingers have a larger diameter than the drive pins, they move faster than ground speed, crumbling the soil and uprooting weeds in the row. The finger weeders also break the capillarity of the soil in-row, drying it out, so that weeds are less likely to germinate there in the future.

The plastic fingers cannot penetrate hard soil - they work best when run behind sweeps or sideknives that cut close to the row, then the finger weeders behind can crumble the soil within the row.

For finger weeders to be effective the crop must be more deeply rooted than the weeds. Finger weeders work best when they can flex with ground conditions - often they are mounted on spring-mounted arms connected to the toolbar, or flex-tine mounts (vibro-springs). Finger weeders can reliably kill weeds with up to 2 true leaves.

Finger weeder set-up tips; we recommend the following initial settings for finger weeders (measured from fingertip to fingertip when the fingers are pressed up, parallel to the ground):

- Tender direct-seeded crops (like carrots, beet, spinach): 2 - 3" gap, so that when fingers are running in the soil they are not contacting the crop-row. Fingers are often run 14 - 21 days after seeding, or when the crop has 4-6 true leaves.
- Vigorous direct-seeded (like corn and beans): 1.5 - 2" gap, so that when the fingers are running they do contact the crop row. These crops can tolerate fingers soon after emergence.
- Transplanted (like cabbage, lettuce, etc.): 1" or less than 1" gap. Transplants can be finger weeded once they have begun rooting into the soil, commonly 7 - 14 days after transplanting.

SWEEPS



These low-angle sweeps are designed for shallow cultivation and minimal soil movement. The combination of flat sweeps and rigid shanks allows for precision depth control and maximum weed kill. They are designed to run at a depth of 1-2 inches and slice the weeds off just below the surface of the soil. These sweeps are used with a rigid shank and mounted directly to the cultivator gangs for low speeds or with flex-mounts for high speeds or rocky soils.



Our L-sweeps have a forward-slant upright cutting edge to prevent tearing out chunks of soil and crop plants when the soil is crusted.

PART #	DESCRIPTION	
98013	6" L-sweep pair with shanks and clamps to mount directly to 2" square tube	
98014	RH 6" L-sweep with 3/8" x 1 1/4" flat shank	
98015	LH 6" L-sweep with 3/8" x 1 1/4" flat shank	
232001	RH 6" L-sweep only, includes bolts	
232002	LH 6" L-sweep only, includes bolts	
231070	3/8" x 1 1/4" offset flat shank for L-sweeps, RH or LH	 231070  231048
231048	3/8" x 1 1/4" flat shank for A-blade sweep	
98016	8" A-blade sweep with 3/8" x 1 1/4" flat shank	 98016  98022
98022	8" A-blade sweep with 3/8" x 1 1/4" flat shank and clamp to mount on 2" square tube	
98017	8" A-blade sweep only, with bolts	 98017  98011
98011	Flex-mount for 3/8" x 1 1/4" (10 x 32 mm) shanks, includes clamp to mount on 2" square tube. This flex-mount works with all of our flat shanks. Allows flexing around rocks and also produces vibrations at the sweep for better weed kill in some conditions.	

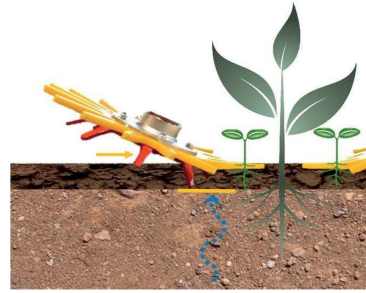
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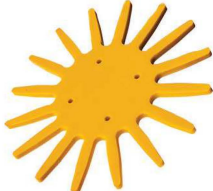
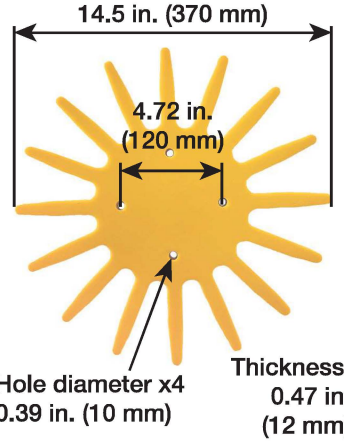
PLACE YOUR ORDER TODAY!

FINGER WEEDERS

Beat the in-row weeds and save hand-hoeing time by installing finger weeders on your cultivator. Finger weeders are an excellent tool for controlling weeds in the row. They work by “flicking” the soil with the flexible fingers and uprooting weeds that are rooted shallower than the crop.

Our finger weeders are made in the USA with high-performance polyurethane and mounted on hubs with double-sealed ball bearings for many years of trouble-free service. The material used in our finger weeders is a high-performance polyurethane, not a plastic. Although these two materials look very similar, the material we use is more expensive and will last longer under demanding cultivating conditions.



PART #	DESCRIPTION		
98018	Pair of trailing finger weeders, includes RH and LH finger weeder with clamps to mount on 2" square tube. For use in row crops such as corn and beans.		
239312	RH trailing finger weeder, 3/8" x 1 1/4" shank. For use in row crops such as corn and beans.		
239313	LH trailing finger weeder, 3/8" x 1 1/4" shank. For use in row crops such as corn and beans.		
239314	Finger weeder with 2-hole bolt-on mount, can be bolted onto vertical square tubing, can be used for RH or LH mounting. For use in row crops such as corn and beans.		
98023	Vertical finger weeder kit, includes clamp to mount to 2" square tube. For use along plastic mulch, also available with a gray (soft) finger wheel.		 98023 239303
239303	Vertical finger weeder, 1 3/16" (30mm) round shank, no clamp included For use along plastic mulch, also available with a gray (soft) finger wheel.		
231073	Replacement polyurethane finger wheel, yellow, medium hard. This is the standard wheel for most applications.		 14.5 in. (370 mm) 4.72 in. (120 mm) Thickness: 0.47 in. (12 mm) Hole diameter x4 0.39 in. (10 mm)
231074	Replacement polyurethane finger wheel, Gray, soft, same dimensions as above part. This wheel is much softer than the yellow and is for use along plastic mulch to prevent tearing the plastic.		

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CUT-AWAY DISCS AND DISC HILLERS

PART #	DESCRIPTION	
239306	10" cut-away disc with angle indicator and clamp for mounting to 2" square tube. These can be used for cut-away or reversed for hilling. The angle indicator enables setting consistent angles from row to row and from season to season.	
239305	10" cut-away disc with 1 3/16" round shank, no clamp.	
98020	12" disc hiller, 1 3/16" round shank, includes clamp for mounting to 2" square tube.	
98008	12" disc hiller, 1 3/16" round shank, no clamp included	
98021	12" replacement disc blade	

FLAT SHANK CLAMPS FOR 3/8" x 1 1/4" (10 x 32 MM) FLAT SHANKS



PART #	DESCRIPTION	
239301	Compact flat shank clamp for 2" square tube, this unit clamps the shank tightly against the square tube.	
239022	Flat shank clamp for 1 1/2" square tube, standard length, longer lengths available	
239027	Flat shank clamp for 2" square tube, standard length, longer lengths available	

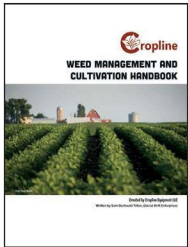
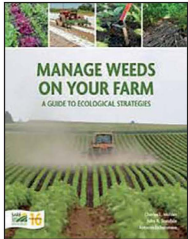
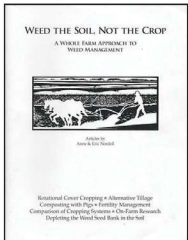
ROUND SHANK CLAMPS FOR 1 3/16" (30 MM) ROUND SHANKS



PART #	DESCRIPTION	
239030	Round shank clamp for 1 1/2" square tube, standard length, longer lengths available	 239030  239039
239039	Round shank clamp for 2" square tube, standard length, longer lengths available	

239308	2"square tube cross clamp, this clamps one 2" square tube cross-wise to another 2" square tube.	 
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BOOKS

PART #	DESCRIPTION	
98501	<i>Weed Management and Cultivation Handbook</i> , Cropline Equipment, Sam Oschwald Tilton, 30 pages, This book gives a good overview of the most common proven strategies and tools for weed management. Covers methods of preventing weeds, setting up your cultivator for success, timing of cultivation, using finger weeders and more!	
98502	<i>Manage Weeds on Your Farm</i> , SARE Outreach, Charles L. Mohler, John R. Teasdale, Antonio Ditommaso, 416 pages, This is one of the best books for understanding specific weeds, how they thrive and how to manage them effectively. Very good in-depth information.	
98503	<i>Weed The Soil, Not The Crop</i> , Anne and Eric Nordell, 42 pages, This book covers rotating crops for weed control, rotational cover cropping for fertility and weed control, depleting weed seeds in the soil with bare fallows and more! A must-read for anyone interested in sustainable farming.	

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Item #	Price	Description
98008	\$66.67	12" disc hiller with 1 $\frac{3}{16}$ " (30 mm) round shank
98011	\$70.00	Flex-mount for $\frac{3}{8}$ x 1 $\frac{1}{4}$ (10 x 32 mm) flat shank
98013	\$149.67	6" L-sweep pair with shanks and 2" clamps
98014	\$46.00	RH 6" L-sweep with $\frac{3}{8}$ x 1 $\frac{1}{4}$ shank
98015	\$46.00	LH 6" L-sweep with $\frac{3}{8}$ x 1 $\frac{1}{4}$ shank
98016	\$30.83	8" A-blade sweep with $\frac{3}{8}$ x 1 $\frac{1}{4}$ shank
98017	\$10.83	8" A-blade sweep only, with bolts
98018	\$574.33	Pair of trailing finger weeders with clamps
98020	\$83.84	12" disc hiller with clamp for 2" square tube
98021	\$11.67	12" replacement disc blade
98022	\$59.67	8" A-blade sweep with shank and 2" clamp
98023	\$196.67	Vertical finger weeder with clamp for 2" square tube
98025	\$158.33	Finger weeder with hub assembly and drive wheel
98026	\$21.67	RH 7" L-sweep, old style
98027	\$21.67	LH 7" L-sweep, old style
98501	\$10.00	Weed Management and Cultivation Handbook
98502	\$21.67	Manage Weeds on Your Farm
98503	\$10.00	Weed the Soil, Not the Crop
231048	\$20.00	$\frac{3}{8}$ x 1 $\frac{1}{4}$ flat shank for A-blade sweep
231070	\$24.33	$\frac{3}{8}$ x 1 $\frac{1}{4}$ offset flat shank for L-sweep
231073	\$63.33	14.5" (370 mm) replacement yellow finger wheel
231074	\$63.33	14.5" (370 mm) replacement gray finger wheel
231090	\$13.33	S-tine clamp for 1 $\frac{1}{2}$ " square tube
232001	\$21.67	RH 6" L-sweep only, with bolts
232002	\$21.67	LH 6" L-sweep only, with bolts
239022	\$28.83	1 $\frac{1}{2}$ x 2 flat shank clamp
239023	\$32.17	1 $\frac{1}{2}$ x 4 flat shank clamp
239024	\$32.17	1 $\frac{1}{2}$ x 6 flat shank clamp
239027	\$28.83	2 x 2 flat shank clamp
239028	\$32.17	2 x 4 flat shank clamp
239029	\$32.17	2 x 6 flat shank clamp
239030	\$16.67	1 $\frac{1}{2}$ x 2 round shank clamp
239031	\$20.00	1 $\frac{1}{2}$ x 4 round shank clamp
239032	\$21.67	1 $\frac{1}{2}$ x 6 round shank clamp
239039	\$16.67	2 x 2 round shank clamp
239040	\$20.00	2 x 4 round shank clamp
239041	\$21.67	2 x 6 round shank clamp
239301	\$24.17	Compact flat shank clamp for 2" square tube
239303	\$180.00	Vertical finger weeder, 1 $\frac{3}{16}$ " round shank
239305	\$125.00	10" cut-away disc with 1 $\frac{3}{16}$ " round shank
239306	\$165.00	10" cut-away disc with angle indicator and clamp
239308	\$26.67	2" square tube cross clamp
239312	\$258.33	RH trailing finger weeder
239313	\$258.33	LH trailing finger weeder
239314	\$183.33	Finger weeder with 2-hole bolt-on mount

All prices are subject to change without notice.