



## PRIMARY TILLAGE

Simplified field equipment  
for **HOMESTEADS**  
or **HOBBY FARMS**



**1001**

**RIPPER**



**1220**

**CHISEL**



**FURROWER**

Model **For 15-25 HP sub-compact tractors**

<b>1001-54</b>	Hitch & Toolbar
<b>17845</b>	Ripper Attachment
<b>19866</b>	Furrow Shank & Wings Attachment
<b>19909</b>	Tongue Attachment
<b>1220</b>	Toolbar, 3" square x 54" width w/ (2) Chisel Shanks

### Multi-Tool Kits:

Install hilling disks on 1001 Toolbar - page 5 and 16

## GARDEN EQUIPMENT PRIMER

### SMALL-SCALE TILLAGE EQUIPMENT

Equipment scaled for gardening can perform like large-farm equipment but with limitations on tillage depth. Most tractors this size are capable of conventional tillage of the seedbed layer, up to about four inches deep, with secondary tillage equipment like disks and cultivators. Equipment choices are limited for deeper tillage but a few tools make possible deeper fracture and aeration with as much as what 25 HP can pull.

### DEEPER, PRIMARY TILLAGE

Primary tillage is deeper tillage below the seedbed layer, performed before secondary or final seedbed tillage, of course. Ideally, primary tillage is as deep as 10 or even 12 inches (call it plow depth, even if you don't use a plow) with the purpose of better fracturing the soil for relief, aeration and drainage. Only the top few inches of soil is further tilled as a seedbed layer to properly hold and moisten seeds and transplants.



### CHISEL PLOWS, PLOWS & RIPPERS

20 to 25 HP can pull one or two ripper shanks, chisel shanks or plow shares. Each type of shank has a general HP requirement, but it's tricky to chart exactly how deep a small tractor can pull these shanks. Variations in tractor weight, traction, soil moisture and soil hardness can be significant to performance. Tractors this size would likely pull only one ripper shank or plow share for tillage depth similar to larger equipment. Pulling two ripper shanks or chisel shanks at less depth, perhaps 9" instead of 12", each mounted behind the tractor wheels, can till wheel tracks in the effort to work the entire field, fracture compacted furrows between raised beds or loosen plastic mulch for removal. Working depth realistically requires some experimentation to see what your sub-compact tractor can do. Weight may need to be added to the tractor for best traction.

We offer the 1220 2-shank Chisel Plow and 1001 1-shank Ripper as basic primary tillage equipment. Larger, multiple-shank models are available, which require more HP. Consider renting a larger tractor and equipment for occasional primary tillage field work.

PRIMER CONTINUES NEXT PAGE...