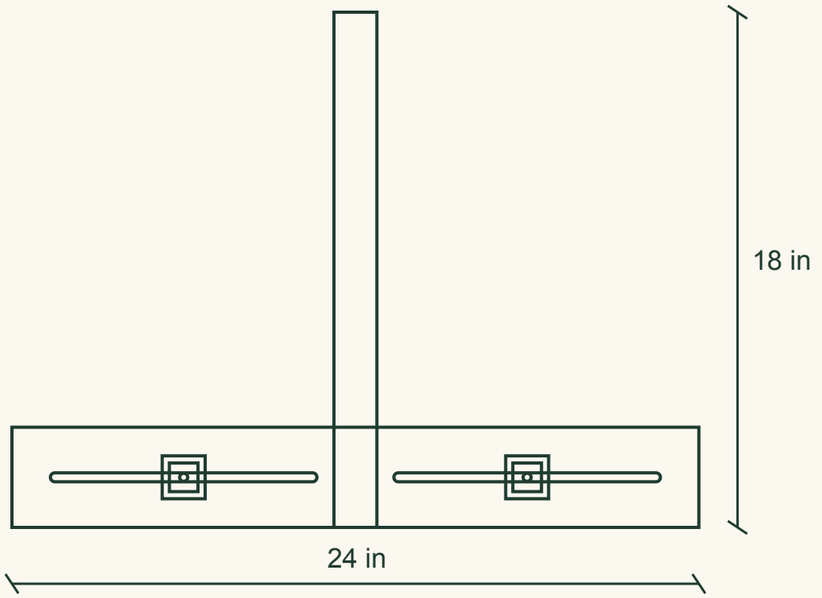
119 Build an Adjustable Two-Row Marking Rake

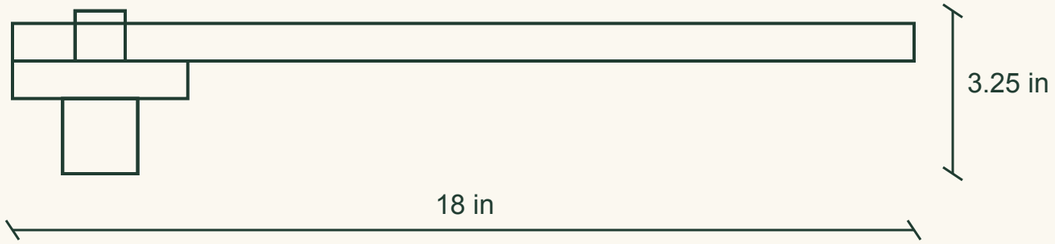
01 / MEASURED VIEWS

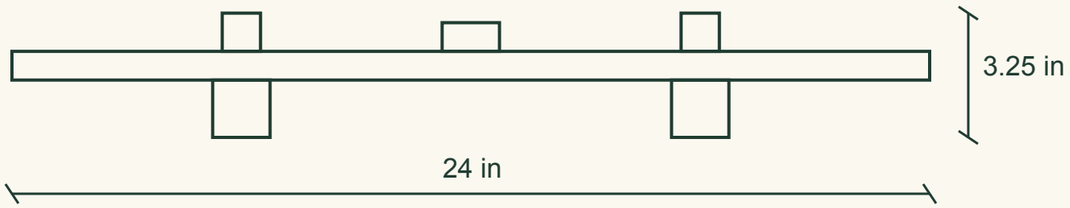
TOP



FRONT

SIDE





Origin is the front-left-bottom outside corner. X is width, Y is depth, Z is height; all written dimensions are inches.

The two through slots and foot bores are shown in the generated views. Purchased bolts, nuts, washers and fitted countersink recesses are omitted; size each recess to its actual flat bolt head. The detail and step 6 locate all grip screws. Do not trace the drawings.

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02 / CUT LIST AND CONNECTION DETAILS

PART	QTY	FINISHED CUT / PURCHASED COMPONENT
H	1	Slotted head — 24 × 3.5 × 0.75 in
G	1	Hand grip — 18 × 1.5 × 0.75 in
F	2	Blunt marking foot — 1.5 × 1.5 × 1.5 in
K	2	Captive bolt/wingnut assembly — Reference 1-in-high wingnut envelope above head

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03 / CONNECTIONS AND CRITICAL FEATURES

CONNECTION SCHEDULE

Four #6 × 1.25 grip screws pass 0.75 in of grip and enter the head 0.5 in; centers x 11.625/12.375, y 0.75/2.75 from head front-left. Slots 5/16 wide at y 1.75; end centers 1.5/10.5 and 13.5/22.5. Two 1/4-20 × 3-in bolts pass 1.5-in feet and 0.75-in head, leaving 0.75 in for washers and wing nuts. Feet have 9/32-in center bores and matching flush countersinks.

FIT AND LAYOUT CHECK

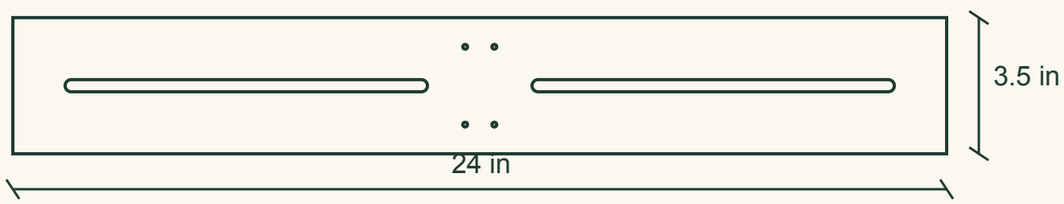
Head 24 × 3.5; grip extends 18 from the front edge and sits above the head. Two 1.5-in blunt feet project below. Reference marker centers 6 and 18 give 12-in spacing, but crop instructions determine the actual setting. Slots stop before the center grip screws.

LIMITS

Use only to mark known prepared medium. No probing, levering, metal tines or universal crop-spacing claim.

FEATURE CHECK BEFORE ASSEMBLY

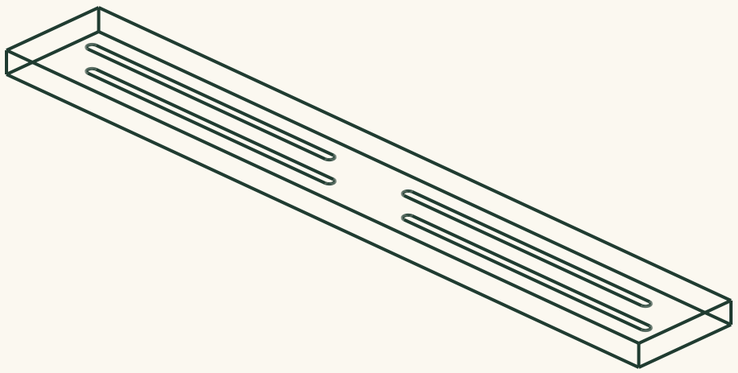
Head plan: 5/16-in slots use end-center pairs x=1.5/10.5 and 13.5/22.5 at y=1.75. Their rounded ends extend 5/32 in beyond these centers. Four grip-fixing centers avoid the slots. Clamp/back all cuts; remove chips before testing the sliding marker bolts. Crop spacing determines the final marker centers.



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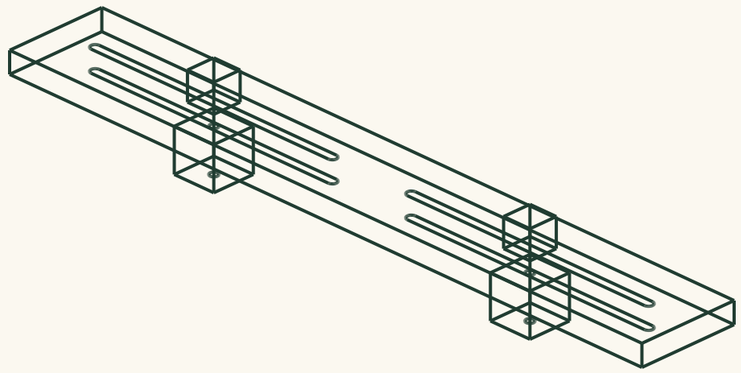
04 / ASSEMBLY STUDIES

STEP 4 / CUT TWO SEPARATE SLOTS



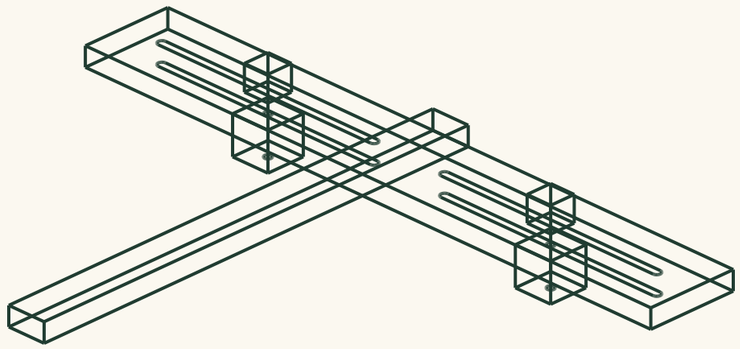
Keep both slots away from the center grip screws.

STEP 7 / FIT CAPTIVE BLUNT FEET



Recess heads flush beneath the wooden feet.

STEP 9 / CHECK CENTER SPACING



Shallow marks only; 12 inches is a drawing example, not crop advice.

Original schematic studies show part relationships, not an operator or a photographed build. Use the numbered instructions for workholding, fastening and inspection.