CASE STUDY 4 WEEKS 657 REAL SHIPMENTS OCT 20 – NOV 17, 2026

14×14×14 ~~stock~~
↓
14×14×9 shipped

Cutting boxes to size saves our warehouse $1,400+ a year

We pack and ship e-commerce orders every day with one **BoxPal Pro 2.0**. Packers fill a stock cube box, then cut it down to fit. We pulled every shipment from our shipping software for four weeks and measured what that cut-down is worth.

148	28.4 ft³	117 lb	<3 wks
boxes cut down (22.5% of all shipments)	of empty air removed from outgoing boxes	of billable dimensional weight we didn't pay for	for a $69.99 BoxPal Pro to pay for itself

Where the savings come from

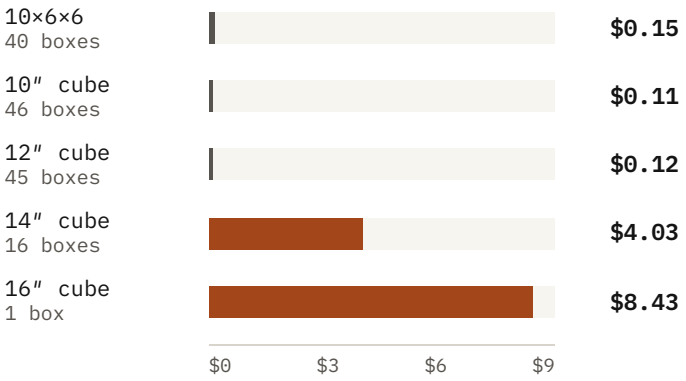
Yearly estimate, at our volume of about 8,270 shipments a year

Lower shipping charges Smaller boxes drop the dimensional weight carriers bill for	$1,126
Less air fill 28 ft³ less empty space to fill every 4 weeks	$120
Less repacking labor Pack one box up and cut down, instead of unpacking and starting over. Net of the 30–45 sec each cut takes.	$200–550
Total per year	$1,450–1,800

½ the box sizes We now stock half as many box sizes. Each cube covers every depth below it, so there's less to buy, store and run out of.

Savings per box cut down

Shipping saved on each cut box, by the stock box it started as



Bigger boxes pay the most. Once a box passes 1 cubic foot, carriers bill by size instead of weight. Cutting a 14″ cube down saved $4.03 per shipment. Smaller boxes still save on air fill, labor and stock.

HOW WE MEASURED

Data: every shipment from our own warehouse in ShipStation, Oct 20 – Nov 17, 2026 (657 shipments). We stock 10×6×6 boxes and 10″, 12″, 14″ and 16″ cubes. A shipment counts as cut down when one side is shorter than its stock box.

Air fill: share of our ~$400/yr air-fill spend matching the volume removed.
Labor: modeled for a hired packer at $18/hr repacking 1 in 15–20 orders at 5 min each, minus cut time.

Shipping: billable weight with and without the cut, using carrier dimensional rules (UPS ÷139; USPS ÷139 over 1,728 in³, the USPS rule since July 12, 2026), priced at our own cost per billable pound for each service. Annualized by shipment count.

Results come from one warehouse run by the BoxPal Pro team. Your savings depend on your carriers, rates, box mix and volume.