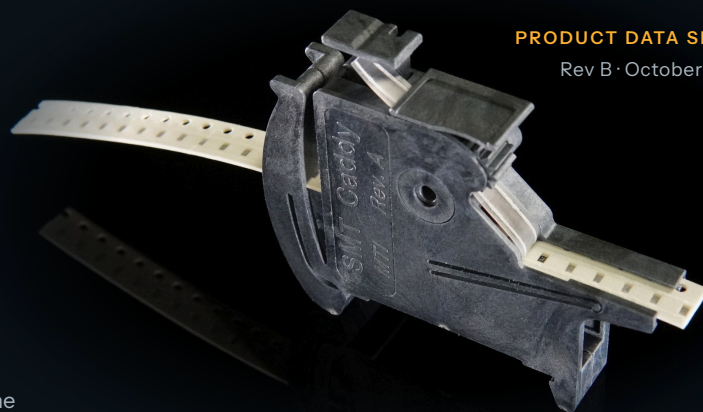


MANUAL TAPE FEEDER

SMT Caddy MTI

DIN-rail tape feeder for cut SMD tape

One press advances the tape up to 6 mm and peels the cover tape back, clear of the pick zone. No motors, no electronics. One base unit covers five tape widths.


+2 mm

Feeder width over tape width

8–32 mm

Tape widths, one base unit

6 mm

Maximum advance per press

35 mm

Standard DIN rail mount

SPECIFICATIONS

Typical values

Tape widths	8, 12, 16, 24 and 32 mm; comes configured for 8 mm
Feeder width	Tape width + 2 mm (10 mm on 8 mm tape)
Tape advance	Up to 6 mm per full stroke
Pocket depth	Up to 13 mm
Carrier tape	Paper and embossed plastic
Tape format	Cut tape, any length; not for reels
Cover tape	Peeled automatically, discharged rearward, clear of the pick zone
Actuation	Vertical plunger: fingertip, or a pickup stylus pressed with the needle's plastic body, or the needle tip if large enough
Mounting	Standard 35 mm DIN rail (TS35)
Material	Liquid crystal polymer, 30% carbon fiber reinforced
Electrical	Electrically conductive; grounds through the DIN rail. Steel rail as is; anodized aluminum needs a bared contact point, e.g. sand one edge of the rail lip
Compatibility	Generic: adapts to virtually any manual pick-and-place setup, from vacuum pens to manual and home-built machines. Does not fit SMT Caddy Model A feeder banks.
Mass	11.5 g (8 mm configuration)
Origin	Designed, molded and assembled in the USA; every part but one bearing
Warranty	1 year from delivery: workmanship or early failure, repaired or replaced

MATERIAL DATA

Tensile modulus	31.8 GPa	ISO 527-2
Tensile strength	200 MPa	ISO 527-2
Flexural modulus	25.5 GPa	ISO 178
Flexural strength	300 MPa	ISO 178
Density	1.50 g/cm³	ISO 1183

Published values for 30% carbon-fiber LCP; not measured on finished parts. About 46% of the tensile modulus of 6061 aluminum.

ORDERING

MTI-8	SMT Caddy MTI, configured for 8 mm tape
MTI-KIT-4	Extension kit, 4 mm: 8 → 12 mm
MTI-KIT-8	Extension kit, 8 mm; stacks for 16, 24, 32 mm
LBL-5412	Feeder labels, Avery 5412, sheet of 100



Pricing and quantity tiers:
smtcaddy.com/MTI
 Quotes, invoices and POs from qualified US-based organizations:
info@smtcaddy.com

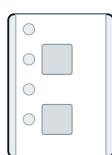
Finesse, not force. Thin, stiff walls keep each feeder 2 mm wider than its tape. If the plunger stiffens, clear the tape path; never push through.

WIDTH CONFIGURATIONS

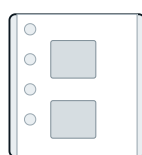
Top view, 1:1 when printed at 100%



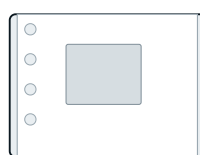
8 mm tape
10 mm wide
Base unit



12 mm tape
14 mm wide
+ 1 × 4 mm kit



16 mm tape
18 mm wide
+ 1 × 8 mm kit

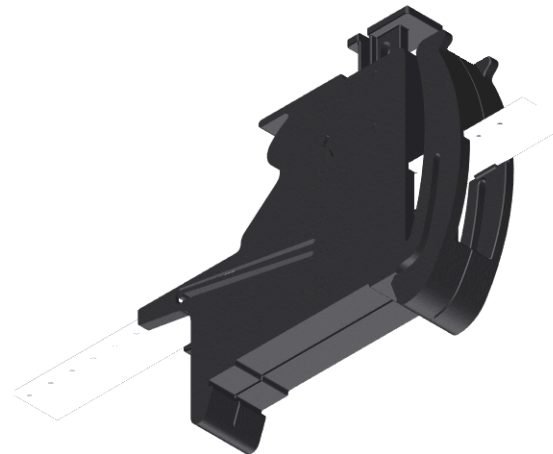
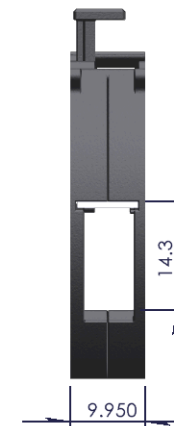
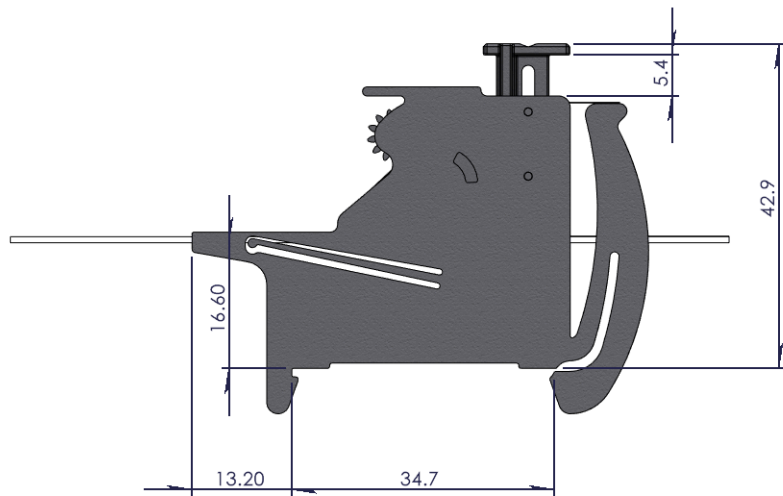


24 mm tape
26 mm wide
+ 2 × 8 mm kits



32 mm tape
34 mm wide
+ 3 × 8 mm kits

One base unit, five widths. The 4 mm kit converts 8 to 12 mm; 8 mm kits stack for 16, 24 and 32 mm. Kits are reusable; changing width takes a screwdriver and a minute or two.



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UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS LINEAR $X \pm 0.5$ $X.X \pm 0.2$ $X.XX \pm 0.05$ ANGULAR $\pm 0.5^\circ$ BREAK SHARP EDGES 0.2 MAX INTERPRET PER ASME Y14.5-2018 DO NOT SCALE DRAWING 		NAME	DATE	 SMT Caddy SMTCADDY.COM	
	DRAWN			TITLE Manual Tape Feeder, Top Level Assembly	
	CHECKED				
	ENG APPR				
	MFG APPR			SIZE A	DWG NO. MTI - 1
MATERIAL LCP, 30% CARBON FIBER REINFORCED				SCALE 1:1	REVISION A
FINISH AS MOLDED	Q.A.			MASS (g) 11.5	SHEET 1 OF 1