

3M™ AccuGlide™ V HSP Taping Head External Launch



3M™ AccuGlide™ Legacy



Scotch® Brand S-609

1960s



Scotch® Taping Assembly

1970s



AccuGlide™ (AG)

1989



AG II

1995



AG2+

2005



AG3

2008



AG NPH

2015



AG4

2018



AGV

2020

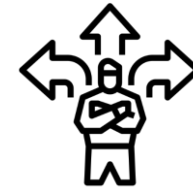
3M has a decades long history in case sealing and tape technology. We've been innovating with our customers since the first 3M-Matic™ case sealer over 50 years ago.

Our new 3M™ AccuGlide™ V High Speed Taping Head combines the best attributes from all our 3M™ AccuGlide™ taping heads into one.

Market Conditions

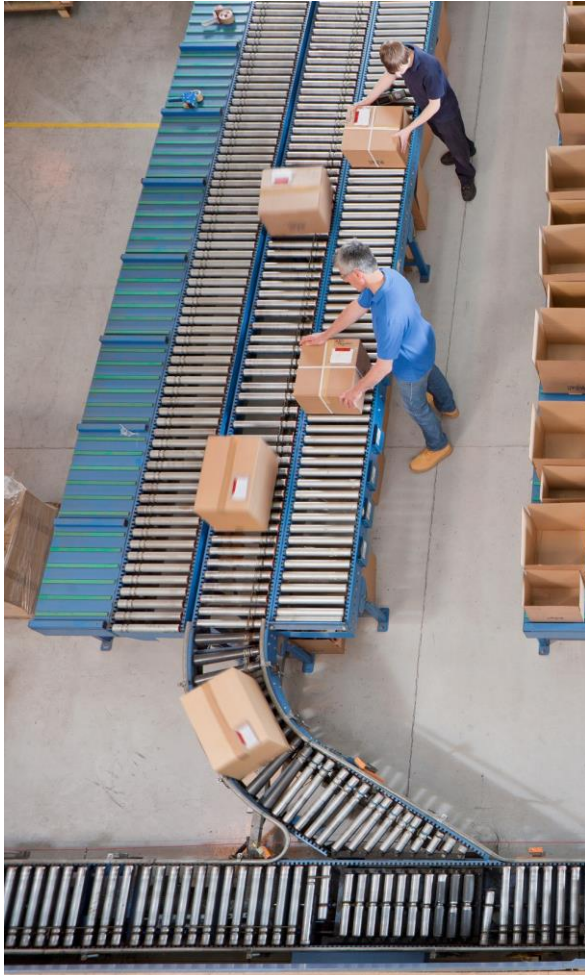
Why are we bringing a new taping head to the Market?

- Customers Needs are changing:
 - Faster speeds
 - Softer, highly recycled boxes
 - Under filled boxes due to less void fill
 - Overstuffed cases due to varying contents
- Tape Head is the “heart of the machine” and is the essential component to applying a successful tape seal to a corrugated box.
- 3M™ AccuGlide™ V HSP Taping Head
 - Versatility
 - Durability
 - Flexibility
 - Precision



Why 3M Systems Tape Agreement Programs:

Using the wrong case sealing systems can cost more than you think



Common Costly End of Line issues:

Material Waste

Are you disposing of tape (and money) before the roll is depleted?

Equipment Downtime

Are long changeovers and downtime eating up valuable production time?

Injuries & Ergonomics

Are you seeing injuries from repetitive motion and hand dispenser knife use?

Missed Application

Do you see miss-taped boxes? Missing or popped tape?

Manual Rework

Do you have too many operators on the line? Or are you re-taping boxes?

Equip. Upkeep Costs

Is spare parts availability, cost and maintenance labor using your budget?

3M Systems Agreements and 3M™ AccuGlide™ V HSP

3M™ AccuGlide™ Taping Head is at the core of our System Tape Agreements

System Tape Agreements (STA) reduce your packaging costs and improve line uptime by providing you with rebates and no charge parts and accessories for your equipment.

Cash Rebates

Earn cash rebates when you purchase a new 3M-Matic™ Case Sealer and purchase qualifying amounts of Scotch® Box Sealing Tape in accordance with the terms of the program

Spare Parts /Spare Parts Kits

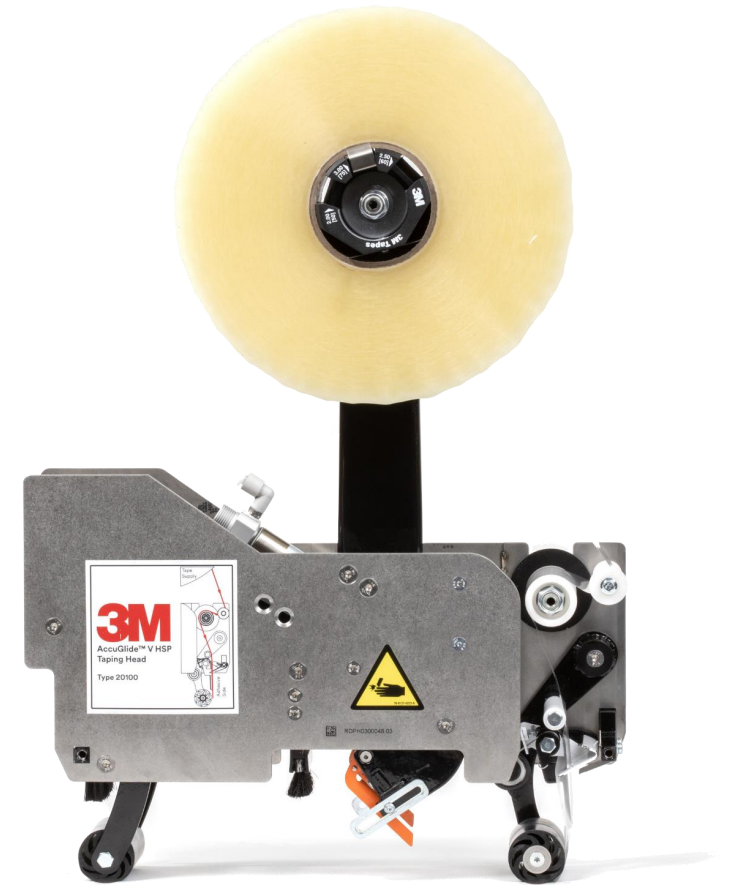
Earn free spare parts for your 3M-Matic™ Case Sealer when your purchase qualifying amounts of Scotch® box Sealing Tape

3M™ AccuGlide™ Taping Heads

Earn free tape heads when you purchase qualifying amounts of Scotch® Box Sealing Tape

Credits

Earn credits towards a new 3M-Matic™ Case Sealing Machine



3M™ AccuGlide™ V HSP Taping Head

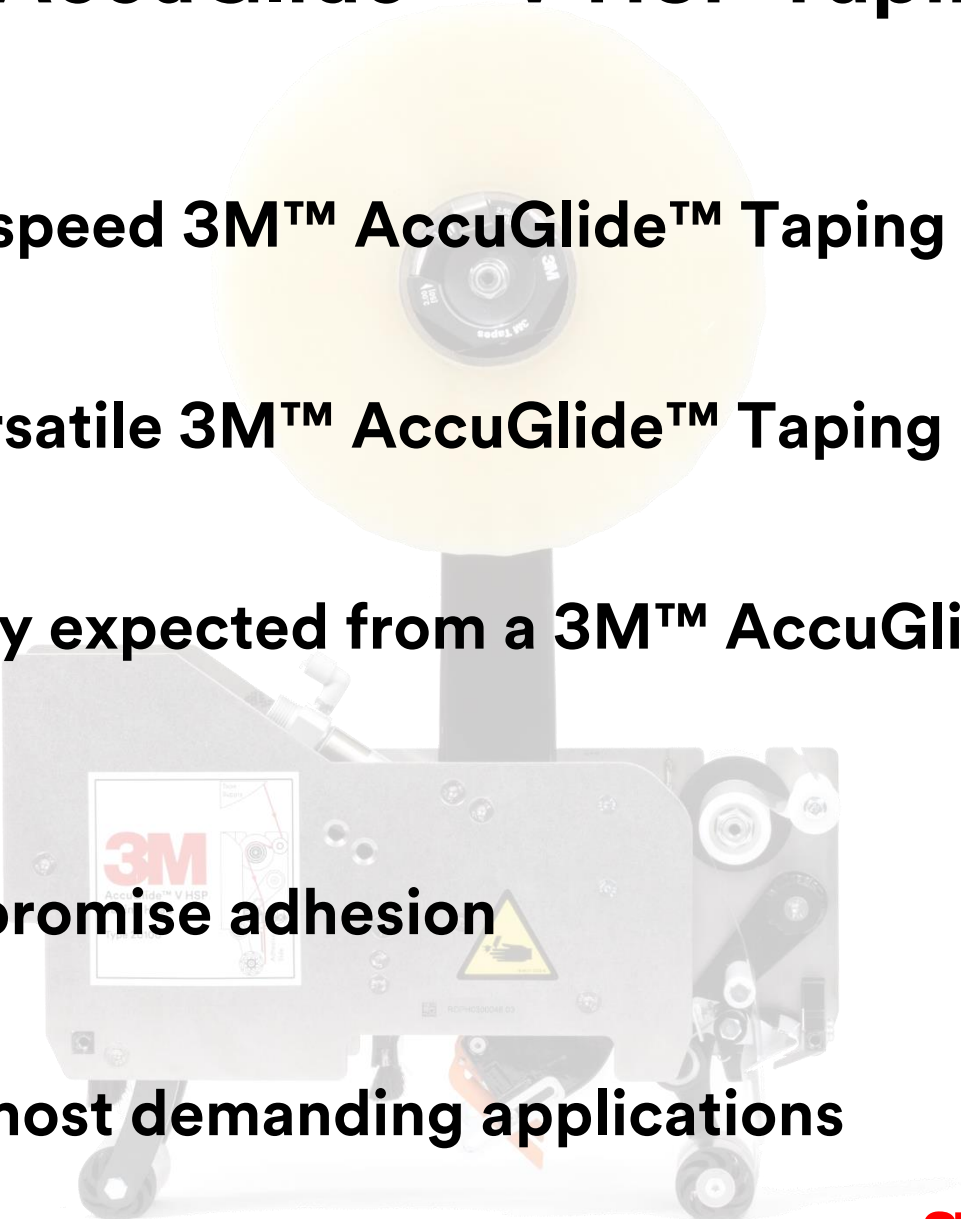
Highest speed 3M™ AccuGlide™ Taping Head

Most versatile 3M™ AccuGlide™ Taping Head

Durability expected from a 3M™ AccuGlide™ Taping Head

No compromise adhesion

For the most demanding applications



Key Market Demands

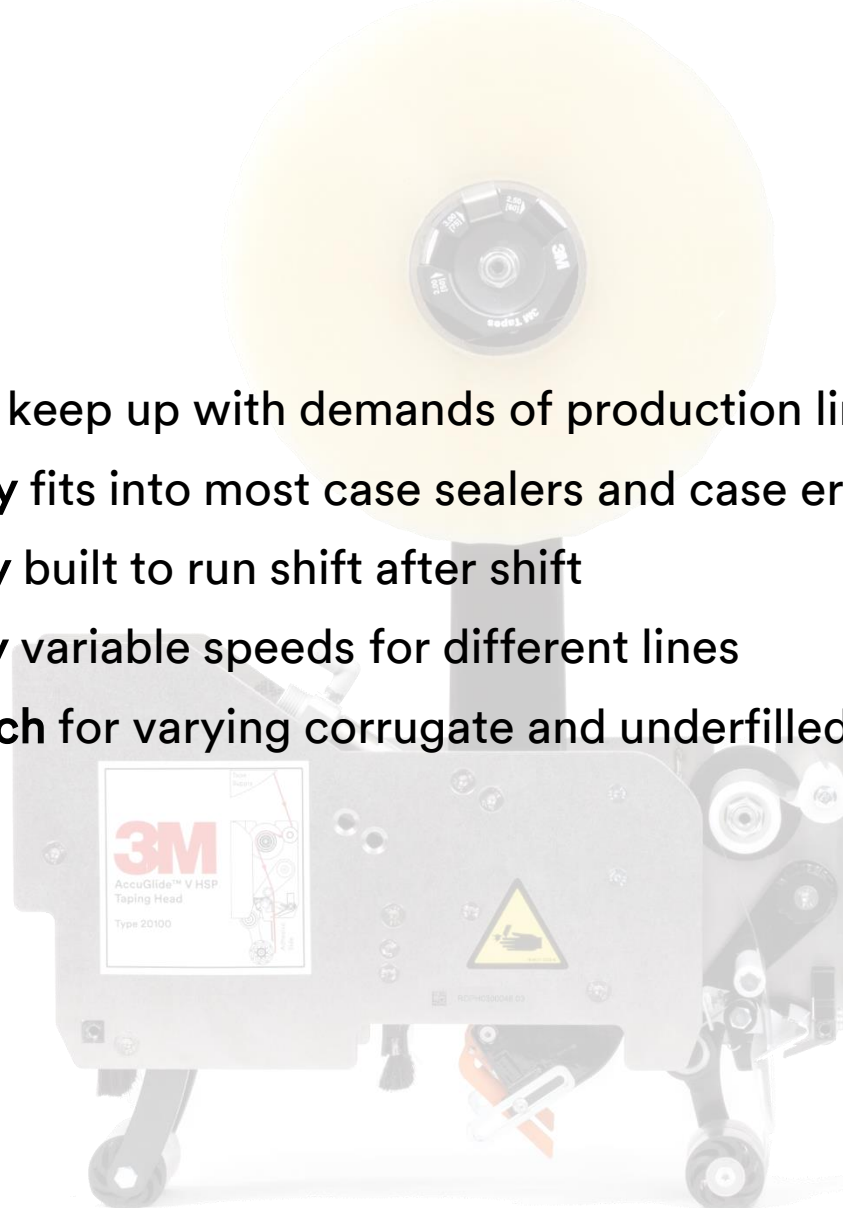
Speed to keep up with demands of production line

Versatility fits into most case sealers and case erectors on the market

Durability built to run shift after shift

Flexibility variable speeds for different lines

Light touch for varying corrugate and underfilled cases

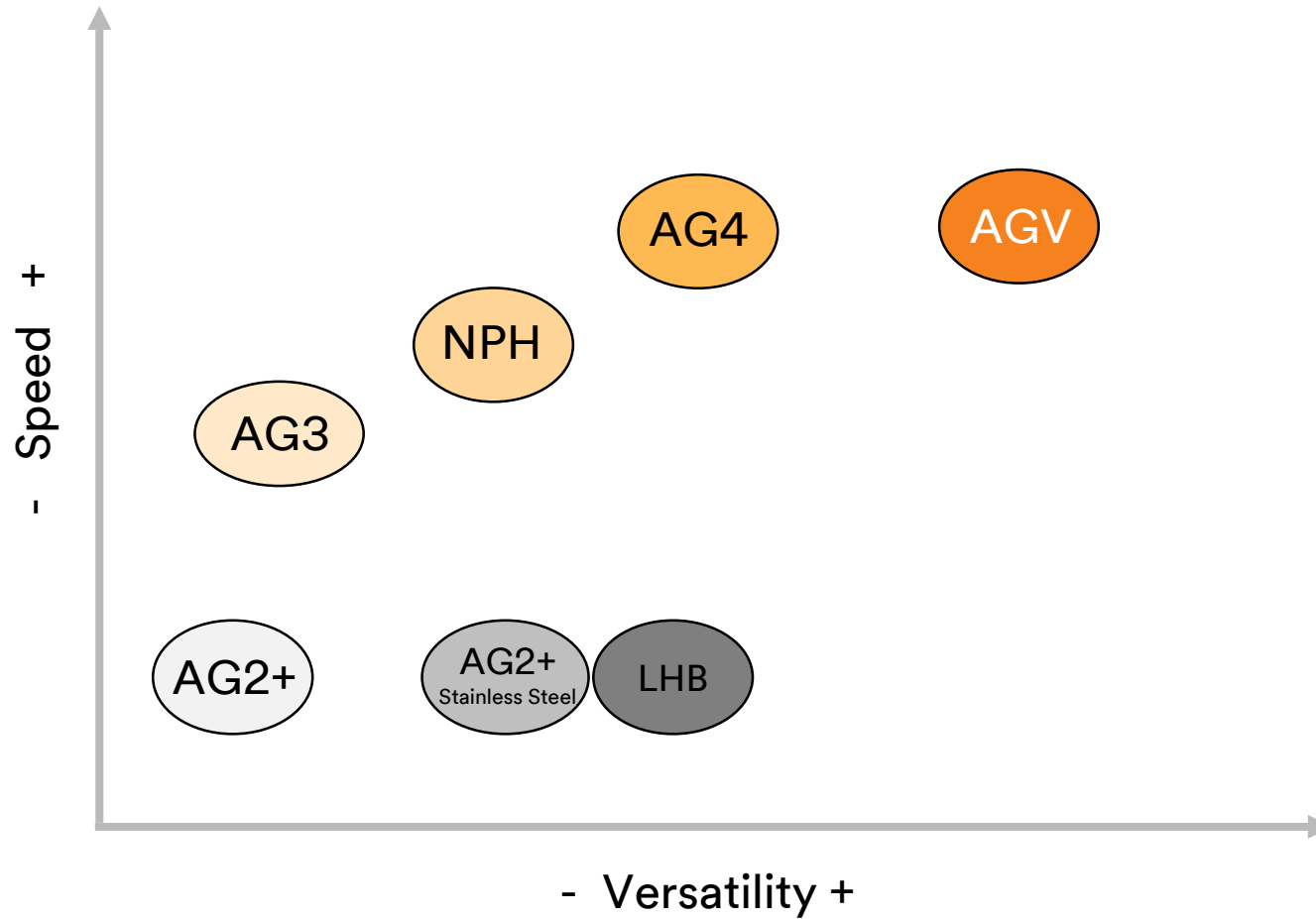


Food & Beverage



E-fulfillment

Performance Positioning



3M™ AccuGlide™ V HSP vs. 3M™ AccuGlide™ Taping Heads

Model	Speed (fpm)	Tape Size	Tape Leg	Stainless Steel	Blade Retract	Edge Fold	Dancer Arm	TAM	Durability	Soft-Touch	Wet-Out	Use	Notes
V HSP	Up to 150	2" / 3"	2"	Y side frame w/powder coated steel parts	optional	N	N	optional	High	Y	Dual Brush, dual mounted buffing roller	High Speed Apps 7000r HS Comp. conversion	Enhanced buffing mechanism geometry
4	Up to 150	2" / 3"	1.25 – 2"	Y fiber plastic and carbon steel parts	optional	optional	optional	optional	Med high	Optional	Dual Fiber Wipe Pad, Single mounted buffing roller	High speed/ Comp. conversion	Cantilever Pivotal Arms Manf. By Primeloc® Discontinued
NPH	Up to 100	2" / 3"	2" - 2.25"	optional	N	N	N	N	Medium	Y	Single Brush, Single mounted buffing roller	Comp. conversion	Cantilever Pivotal Arms
3	Up to 100	2" / 3"	2" – 2.75"	N	Mod	optional	Mod	optional	High	N	Single Brush, dual mounted buffing roller	Standard machines	Curvilinear
2 / 2+	Up to 80	1.5" / 2" / 3" / 6"	2" – 2.75"	optional	Mod	optional	Mod	optional	High	N	Single Brush, dual mounted buffing roller	intro series machines	Curvilinear

3M™ AccuGlide™ V HSP Taping Head Product Overview

NOT a Repeat of the 3M™ AccuGlide™ 4

We took the best attributes from our past taping heads and put them into one taping head!

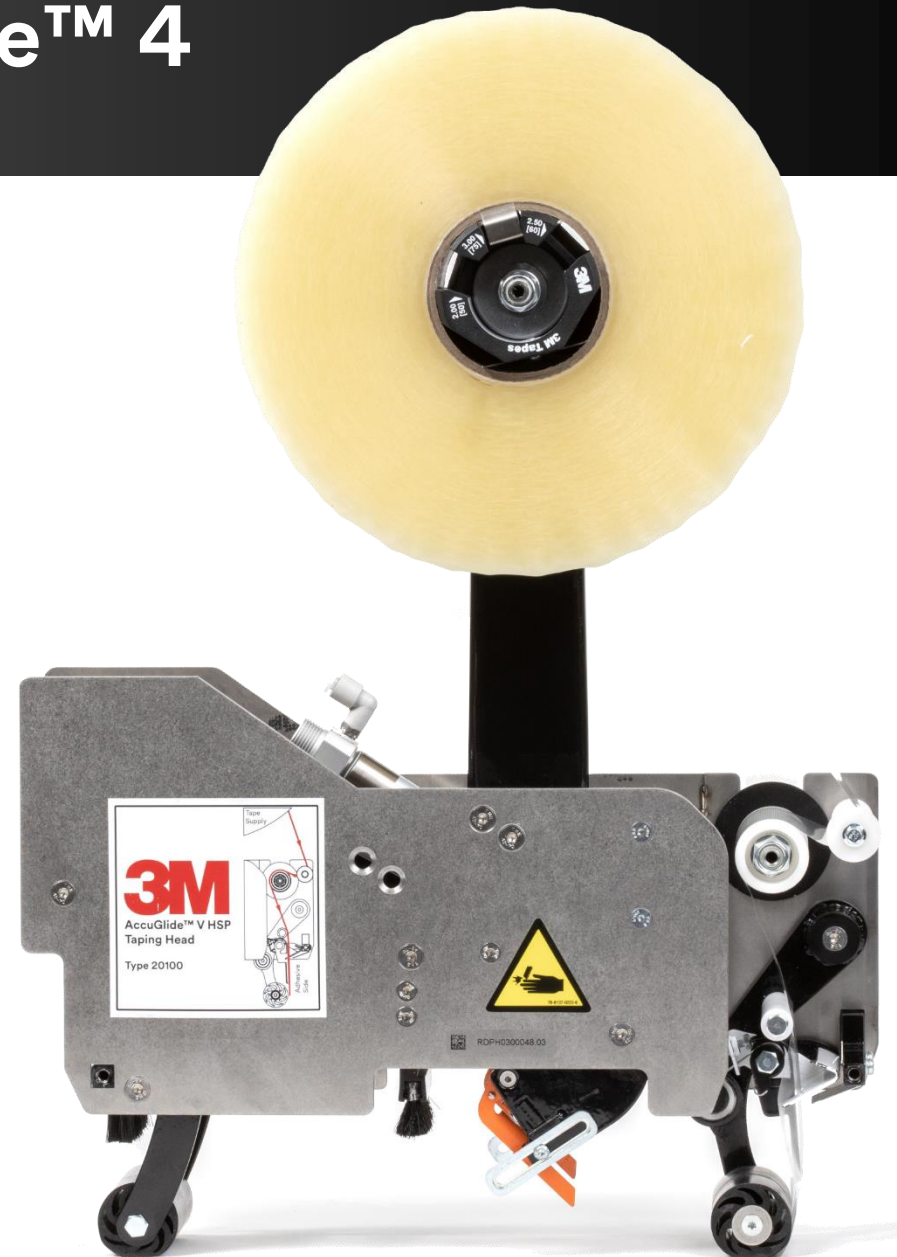
Base Design: NPH

3M™ AccuGlide™ 2+: open path for easy tape threading

3M™ AccuGlide™ 3: durability

3M™ AccuGlide™ NPH: compatible in 3M-Matic™ and competitive conversions

3M™ AccuGlide™ 4: capable of high-speed operation, up to 150 fpm



Key Attributes

Versatility

The narrow design allows the taping head to be quickly dropped into most case sealers and case erectors on the market.

Speed

Tested at 150 feet per minute with the ability to run at multiple speeds

Durability

Reinforced key wear points and components for maximum durability.

Side plates have been reinforced in key areas.

Changeover

The tape threading path is open for faster changeovers.

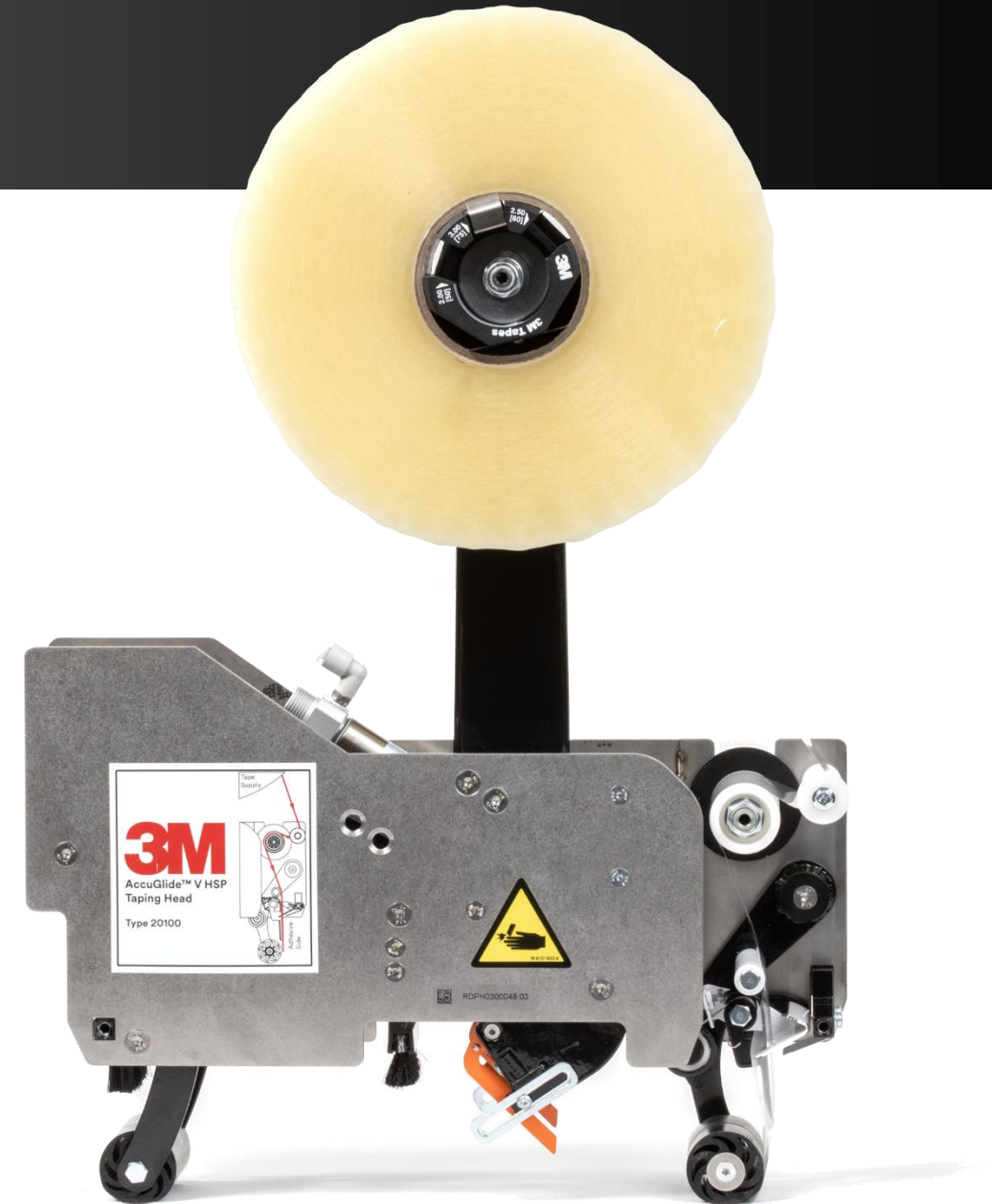
Flexibility

Variable spring positioning, easy one-way tension roller and tape tension adjustments to accept varying corrugate and production environments.

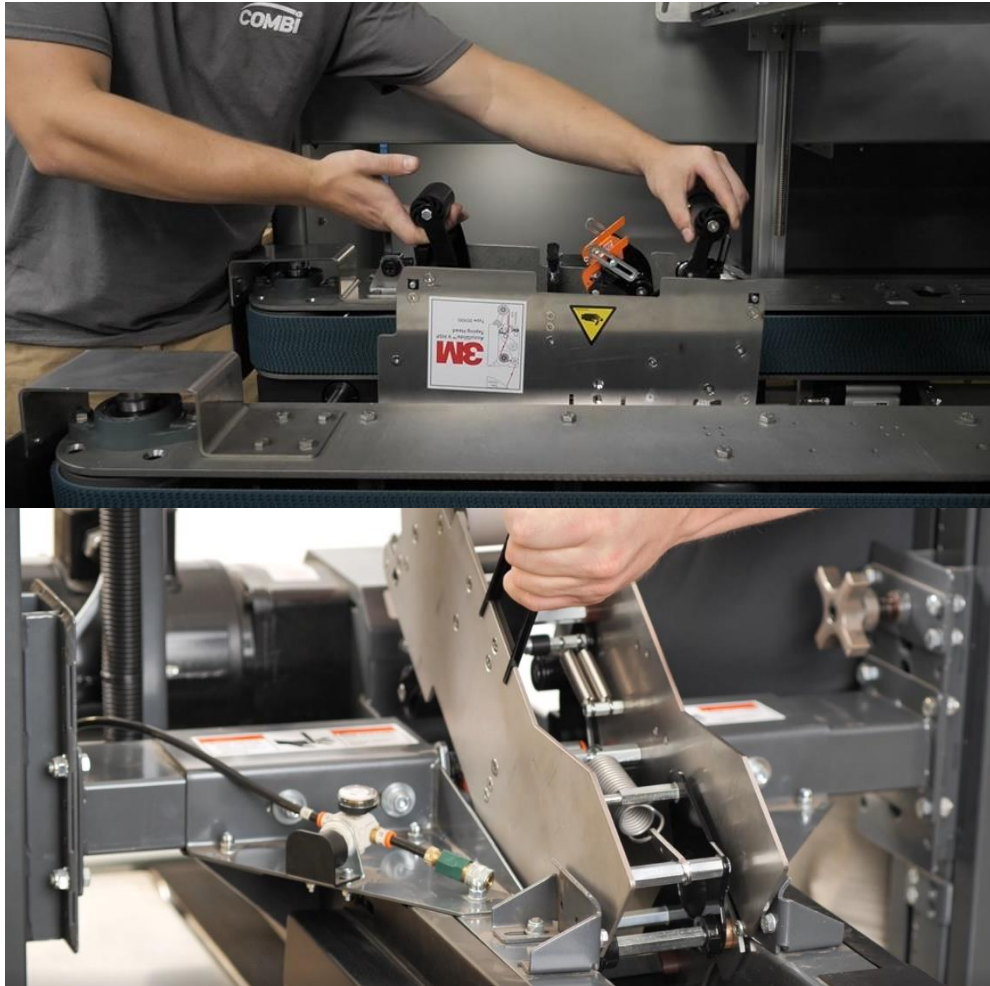
Tape Application

With multiple brushes and conformable rollers for better wipe down

Full width blade for consistent tape cutting, a flap guide to prevent damage to the major flaps and better tape management for consistent tape leg lengths.



Versatility



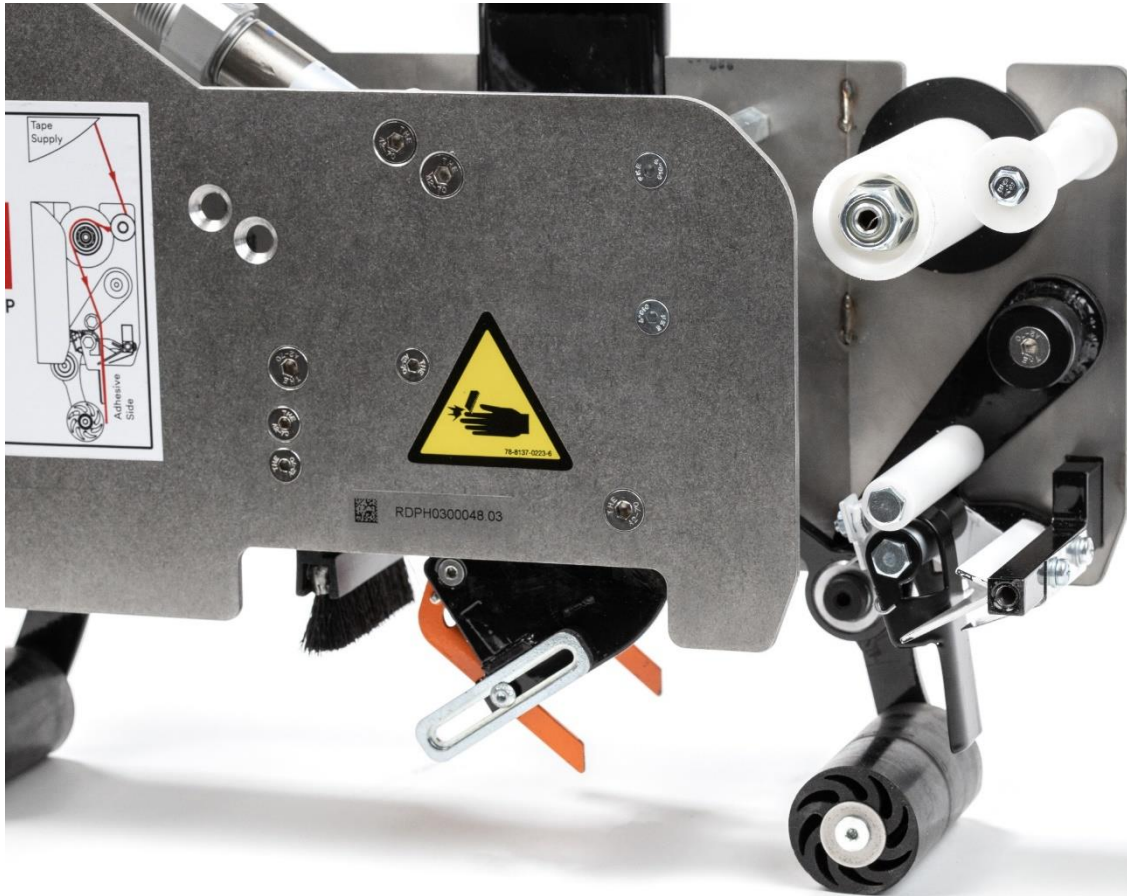
- Compatible with most case sealers and case erectors on the market
- Capable of running at all speeds up to 150 fpm

Speed



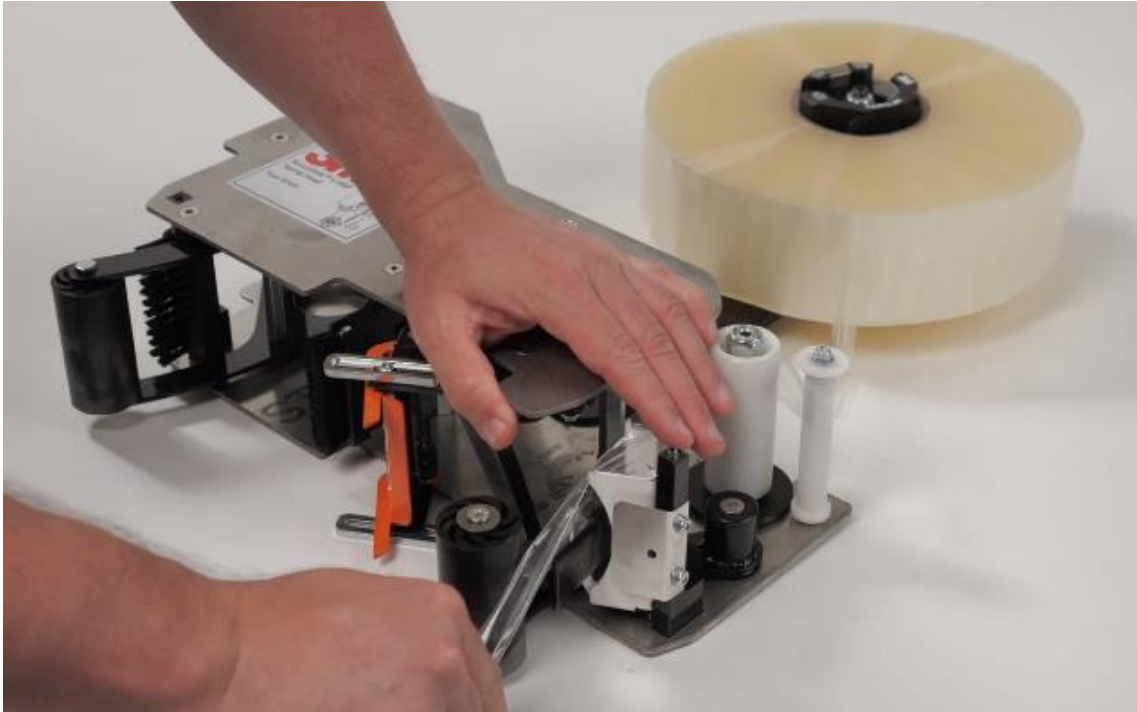
- Knife Retract Kit reduces likelihood to crush cases at higher speeds
- Ability to buff at 150 fpm

Durability



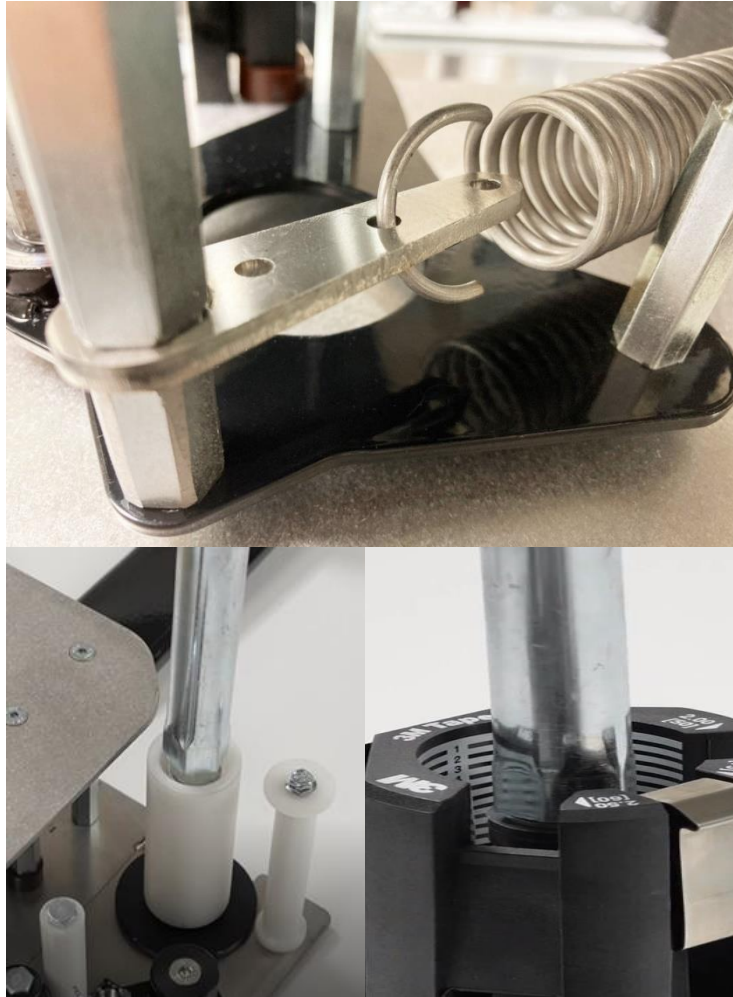
- Increased durability 2x the 3M™ AccuGlide™ 4
- Reinforced key wear points
- Dual buffing arms vs. 1 arm is more durable for high speed applications
- Improved bearings
- Wipe down brushes instead of wipe pads

Changeover



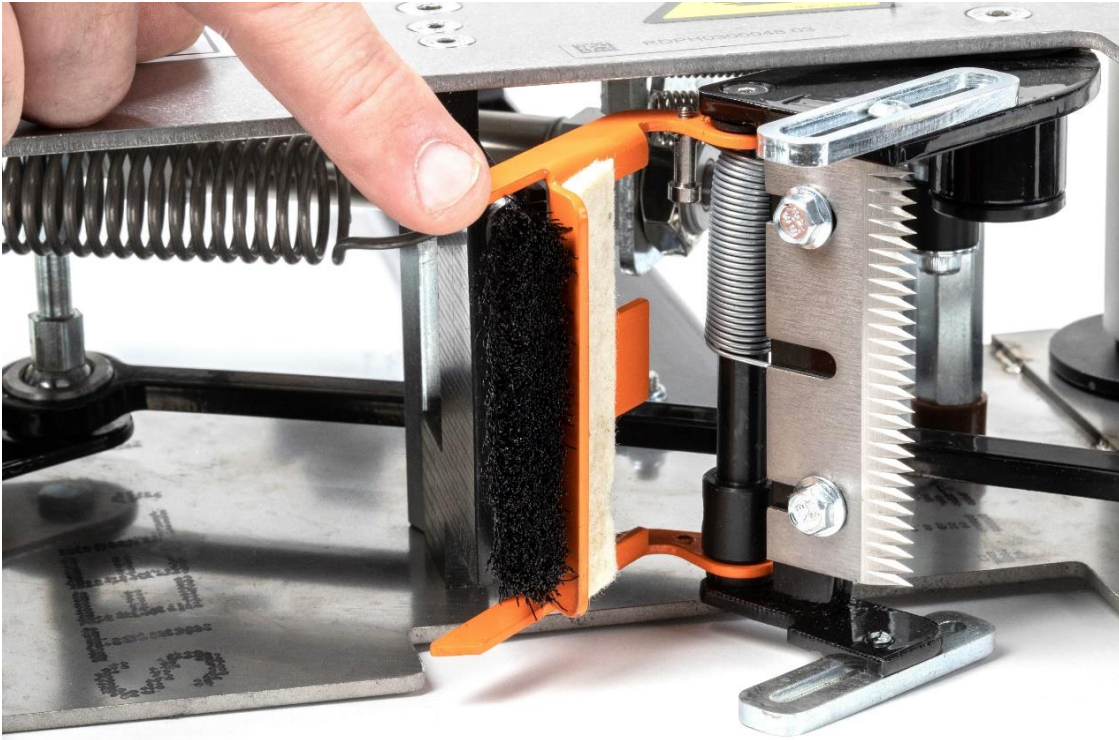
- Open tape threading path for faster changeovers

Flexibility



- **Main Spring**
 - Adjust applying force tension by hooking spring into different holes on the Spring Holder Plate
- **One-Way Tension Roller**
 - Quick adjustment with socket wrench
- **Tape Drum**
 - Quick adjustment with socket wrench

Tape Application



- Full width blade
- Added Center Brush for increased wipe down
- Felt Oil Pad
- More conformable rollers for better wipe down
- Flanged wrap roller for better tape centering
- Dual buffing arms
- 2" tape leg length

Meet Customer Needs With...

Robust Product

High Speed
Performance

Damage Free
Application

Competitively
Positioned

Easy Maintenance

Interchangeability

No Compromise
Adhesion



3M™ AccuGlide™ V HSP Taping Head

vs.

3M™ AccuGlide™ 4 Taping Head

Tape Drum

3M™ AccuGlide™ 4

- Locking tape drum, wears quickly



3M™ AccuGlide™ V HSP

- Latching tape drum, more durable



Wipe Down Forces - Buff Arms

3M™ AccuGlide™ 4

- Single arm



3M™ AccuGlide™ V HSP

- Dual arms – shape of arms allows for contact with the box as it travels, creating a better wipe down



Wipe Down Forces - Dual Brush

3M™ AccuGlide™ 4

- Two Fiber Wipe Pads
- Material can fray leading to debris
- Material can damage tape film



3M™ AccuGlide™ V HSP

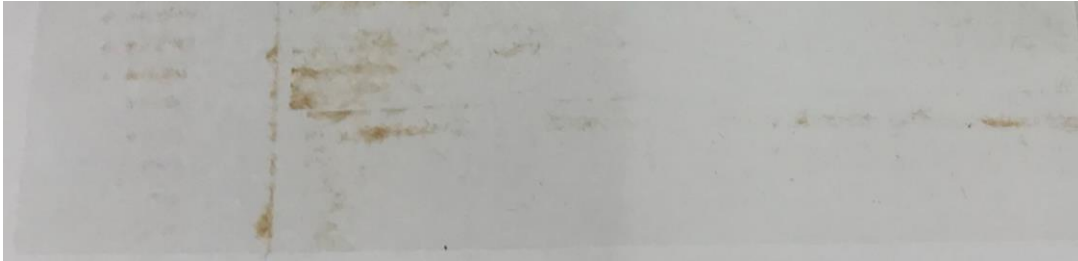
- Two Brushes
- Durable Construction
- Additional Wet Out



Wipe Down Forces

3M™ AccuGlide™ 4

- Picture of Scotch® Box Sealing Tape 375 fiber pull after application for AG4



3M™ AccuGlide™ V HSP

- Picture of Scotch® Box Sealing Tape 375 fiber pull after application for AGV



Questions?