

USER MANUAL USA 2024-SB DH



For Serial Numbers: TM160 XX X XXX





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REVISION CONTROL

REVISION CONTROL

REV00	Initial Release
REV01	Modified Index
REV02	Final Release
REV03	Updated
REV04	Updated
REV05	Updated

Technical Support

This is the Interpack Model USA 2024-SB Uniform Semi-Automatic Case Sealer you ordered. It has been set up and tested in our factory with Intertape manufactured pressure sensitive tapes. If any problems occur when setting up or operating this equipment, please contact the authorized distributor from where you purchased this item.

Should you need to contact **Interpack Technical Support**, please have the Case Sealer <u>model number and serial number</u> available. This information can be found on the nameplate of the side panel of the machine. Interpack Technical Support is available during normal business hours (Eastern Time).

PHONE 813-621-8410 x101

If you have a technical question that does not require an immediate response, you may contact Interpack by fax.

FAX 813-621-8449

Replacement Parts

Order parts by <u>item number</u>, <u>part name</u> and <u>quantity required</u>. Replacement parts are available from your Authorized Interpack Distributor exclusively.

Should you require assistance selecting the correct part, you may call:

Intertape Polymer Group Interpack Machinery 9940 Currie Davis Drive, Suite B23 Tampa, FL, 33619

Tel: 1-800-474-8273 Option 3 Fax: 1-800-462-1293

MODEL:

SERIAL NUMBER:

DISTRIBUTOR PURCHASED FROM:

DATE OF PURCHASE:

FIELD SERVICE ASSISTANCE

This machine is designed to provide years of trouble free operation. If any problems arise with this machine during the normal course of operation, your properly trained and qualified internal service personnel should be able to repair any issues after consulting the Trouble Shooting section of this manual (pg 41-43).

However, if after consulting the Trouble Shooting Section of this manual, you cannot remedy the problem, customer paid service support is available from your Authorized Interpack Distributor.

EQUIPMENT WARRANTY AND LIMITED REMEDY: The following warranty is made in lieu of all other warranties, express or implied, including, but not limited to, the implied warranty of merchantability, the implied warranty of fitness for a particular purpose, and any implied warranty arising out of a course of dealing, a custom or usage of trade:

Intertape sells its Interpack Tape Heads, Case Tapers and Case Erectors with the following warranties:

- 1. The HSD[®] 2000 Tape Heads' knife blades, springs and wipe down rollers will be free from all defects for a period of ninety (90) days.
- 2. All other HSD[®] 2000 Tape Head parts will be free from all defects for one (1) year after delivery.
- 3. Water Activated Tapers' blades and brushes will be free from defects for ninety (90) days after delivery.
- 4. Drive Belts will be free from defects for ninety (90) days after delivery.
- 5. The Gear Motors will be free from defects for one (1) year after delivery.
- 6. All other components for Case Tapers and Case Erectors will be free from defects for one (1) year after delivery.

If any part is proven defective within its warranty period, then the exclusive remedy and Intertape's and the seller's sole obligation shall be, at Intertype's option, to repair or replace the part, provided the defective part is returned immediately to Intertape's factory or an authorized service station designated by Intertape.

A part will be presumed to have become defective after its warranty period unless the part is received or Intertape is notified of the problem no later than five (5) calendar days after the warranty period.

If Intertape is unable to repair or replace the part within a reasonable time, then Intertape, at its option, will replace the equipment or refund the purchase price. Intertape shall have no obligation to install the repaired or replacement part.

Intertape shall have no obligation to provide or pay for the labor required to install the repaired or replacement part. Intertape shall have no obligation to repair or replace (1) those parts failing due to: operator misuse, carelessness, or due to any accidental cause other than equipment failure, or (2) parts

- 1. Failure or damage is due to misapplication, lack of proper maintenance, abuse, improper installation or abnormal conditions such as temperature, moisture, dirt or corrosive matter, etc.
- 2. Failure due to inadequate cleaning, improper operating environment, improper utilities or operator error.
- 3. Failure due to operations above the rated capacities, or in any other improper manner, either intentional or otherwise.
- 4. Failure is due to equipment, which has been altered by anyone other than an authorized representative of Intertape Polymer Group.
- 5. Failure is due to an attempt by the purchaser to correct alleged defective equipment. In this event the purchaser is responsible for all expenses incurred.

LIMITATION OF LIABILITY: Intertape and seller shall not be liable for direct, indirect, special, incidental or consequential damages based upon breach of warranty, breach of contract, negligence, strict liability or any other legal theory.

The foregoing Equipment Warranty and Limited Remedy and Limitation of Liability may be changed only by written agreement signed by authorized officers of Intertape and seller.

DESCRIPTION OF USA 2024-SB CASE SEALER

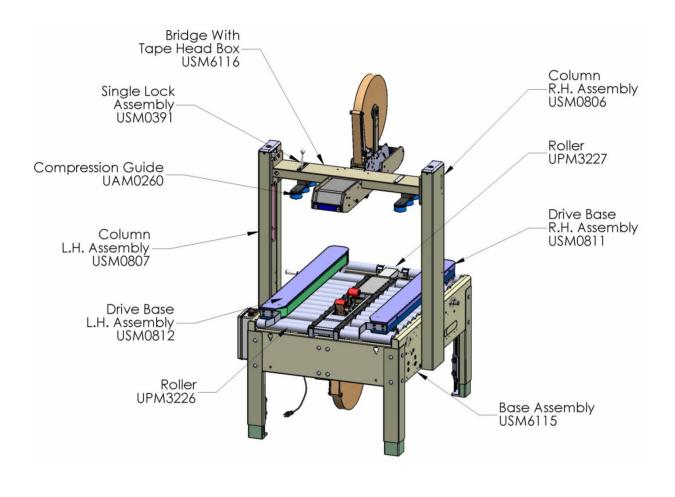


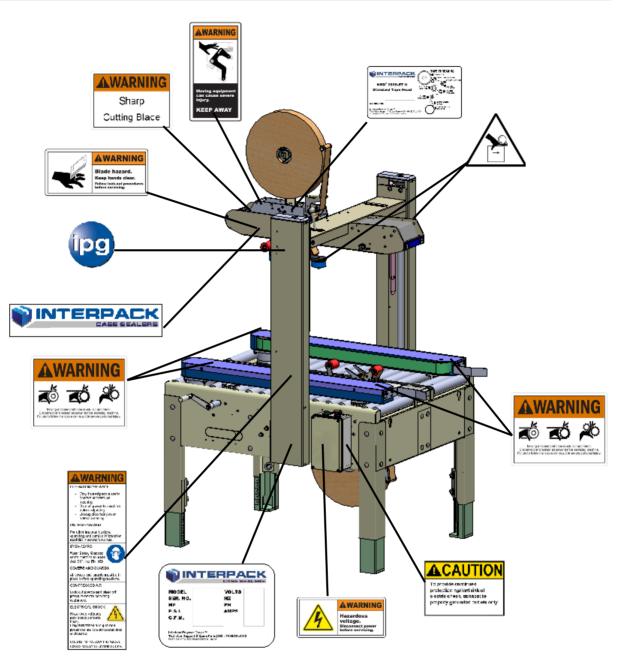
Figure 1

The Interpack USA 2024-SB Carton Sealing Machine with HSD[®] 2000 ETII Tape Heads is designed to apply Intertape brand pressure sensitive carton sealing tape to the top and bottom center seam of regular slotted corrugated cartons. The USA 2024-SB is manually adjustable to a wide range of carton sizes (**see Carton Size Capacity, page 20**). Multi-Wheel Top Squeezers compress the top major flaps ensuring superior seal. The USA 2024-SB Carton Sealer features reversible operator controls to facilitate its adaptation into an existing conveyor line.

There are a number of safety labels used on Interpack Carton Sealers. These labels are placed at different locations (refer to **Figure 2**) on the machine to warn operators and service personnel of possible dangers. Please read the labels on the machine and the following safety precautions before using the machine.

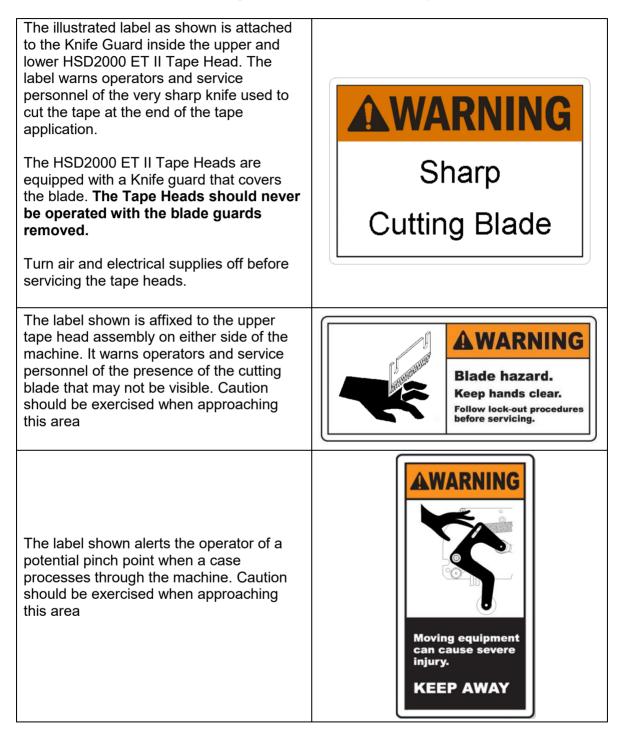
- ✓ Read this manual for other important safety operating and service information.
- ✓ Only trained personnel are to operate machine.
- ✓ Only fully qualified technicians are to service this machine.
- ✓ Wear safety glasses.
- ✓ Shut off power to machine before adjusting machine or loading & threading Tape Heads.
- ✓ Disconnect electrical power and compressed air (where applicable) before servicing.
- ✓ Follow Lock Out / Tag Out Procedures BEFORE servicing any machinery.
- ✓ All covers and guards must be in place before operating.
- ✓ Stay clear of moving parts which can shear and cut.
- ✓ Never operate the Tape Heads with the Knife Guard removed.

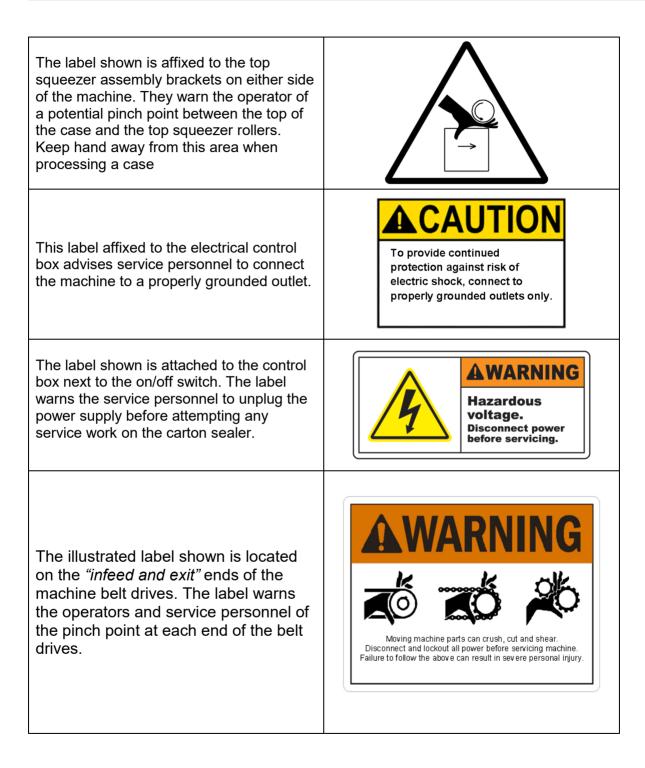
Note: Should any of the safety labels placed on the Case Sealer be damaged or destroyed, replacements are available through your distributor.

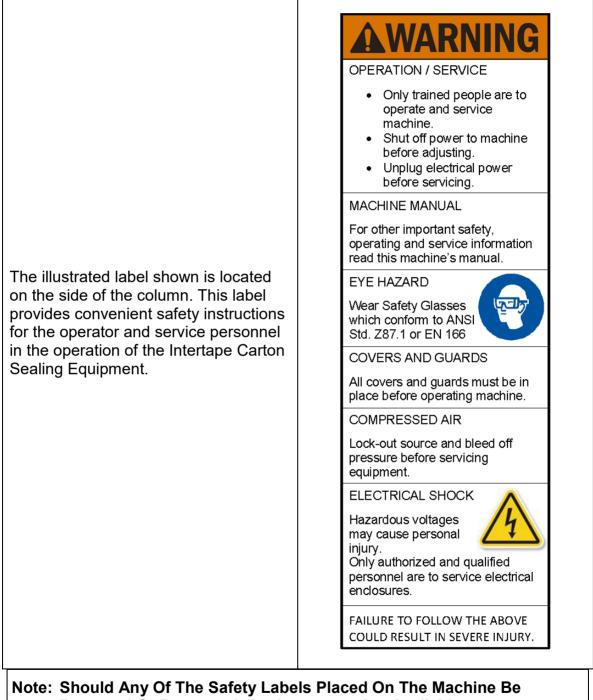




There Are A Number Of Safety Labels Used On Intertape Carton Sealers.







Damaged Or Destroyed, Replacements Are Available.

Explanation of Signal Word Consequences

Marning:

Indicates a potentially hazardous situation, which if not avoided could result in death or serious injury or property damage

<u> Caution:</u>

Indicates a potentially hazardous situation, which if not avoided could result in minor or moderate injury or property damage

\land Warning

- To reduce the risk associated with mechanical and electrical hazards:
 - a. Read, understand, and follow all safety and operating instructions before operating or servicing the case sealer.
 - b. Allow only properly trained and qualified personnel to operate and service this equipment.
- To reduce the risk associated with pinches, entanglement and hazardous voltage:
 - a. Turn electrical supply off and disconnect before performing any adjustments, maintenance or servicing the machine or taping heads.
- To reduce the risk associated with pinches and entanglement hazards:
 - a. Do not leave the machine running while unattended.
 - b. Turn the machine off when not in use.
 - c. Never attempt to work on any part of the machine, load tape, or remove jammed boxes from the machine while the machine is running.
- To reduce the risk associated with hazardous voltage:
 - a. Position electrical cord away from foot and vehicle traffic.
- To reduce the risk associated with sharp blade hazards:
 - a. Keep hands and fingers away from tape cutoff blades under orange blade guards. The blades are extremely sharp.
- To reduce the risk associated with fire and explosion hazards:
 - a. Do not operate this equipment in potentially flammable/explosive environments.
- To reduce the risk associated with muscle strain:
 - a. Use the appropriate rigging and material handling equipment when lifting or repositioning this equipment.
 - b. Use proper body mechanics when removing or installing taping heads that are moderately heavy or may be considered awkward to lift.

A Caution

• To reduce the risk associated with pinch hazards:

- a. Keep hands clear of the upper head support assembly as boxes are transported through the machine.
 - b. Keep hands, hair, loose clothing, and jewelry away from box compression rollers.
 - c. Always feed boxes into the machine by pushing only from the end of the box.
 - d. Keep hands, hair, loose clothing, and jewelry away from moving belts and taping heads.

Warning

- To reduce the risk associated with mechanical and electrical hazards:
 - a. Allow only properly trained and qualified personnel to operate and service this equipment.

Operator Skill Level Descriptions

Skill "A": Machine Operator

This operator is trained to use the machine with the machine controls, to feed cases into the machine, make adjustment for different case sizes, to change the tape and to start, stop, and to re-start production

Important: the area supervisor must ensure that the operator has been properly trained on all machine functions before operating the machine.

Skill "B" Mechanical Maintenance Technician

This technician is trained to use the machine as the machine operator and in addition is able to work with the safety protection disconnected, to check and adjust mechanical components, to perform maintenance operations and repair the machine. He or she is not allowed to work on live electrical components

Skill "C" Electrical Maintenance Technician

This technician is trained to use the machine as the machine operator and in addition is able to work with the safety protection disconnected, to check and adjust mechanical components, to perform maintenance operations and repair the machine. He or she is allowed to work on live electrical panels, terminal blocks and control equipment.

Skill "D" Manufacturers Technician

Skilled technician sent by the manufacturer or its agent to perform complex repairs or modifications, when agreed with the customer

Operators Skill Level Required To Perform The Following Tasks On The Machine

Operation	Machine Condition	Operator Skill Level	Number Of Operators
Machine Installation & Set Up	Running With Safety Protections Disabled	B & C	2
Adjusting Case Size	Stopped By Pressing The Emergency Stop Button	A	1
Tape Roll Replacement	Stopped By Pressing The Emergency Stop Button	A	1
Blade Replacement	Electrical Power Disconnected	В	1
Drive Belt Replacement	Electrical Power Disconnected	В	1
Ordinary Maintenance	Electrical Power Disconnected	В	1
Extraordinary Mechanical Maintenance	Running With Safety Protections Disabled	D	1
Extraordinary Electrical Maintenance	Running With Safety Protections Disabled	С	1

SPECIFICATIONS

USA 2024-SB Machine Dimensions

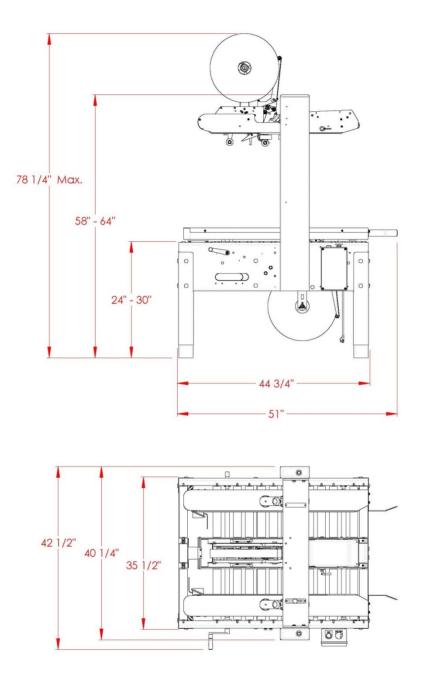
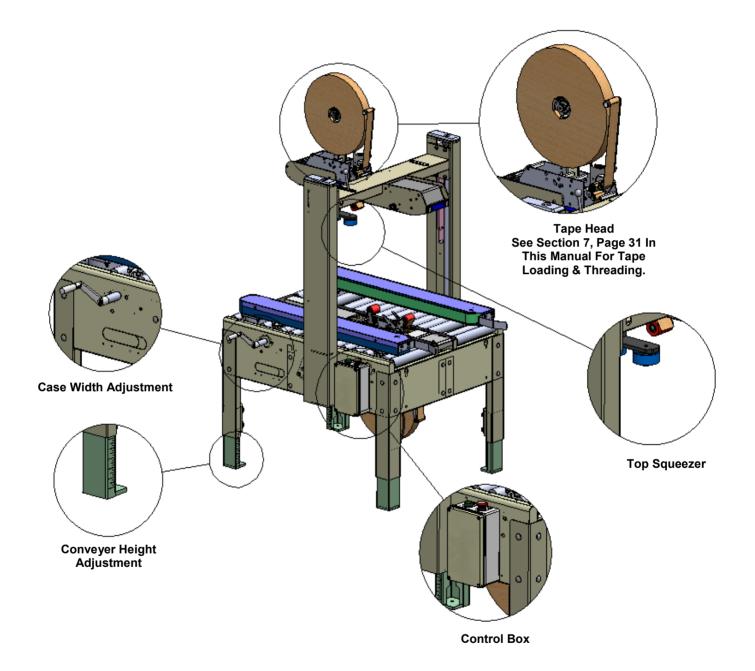


Figure-3

Machine Weight: 560 lbs. (254 kg) crated

SPECIFICATIONS

USA 2024-SB Machine Components



SPECIFICATIONS

1. Operating Conditions

Use in a dry, relatively clean environment at 40° to 105° F (5° to 40° C) with clean dry cartons.

Note: Machine should not be washed down or subjected to conditions causing condensation on components.

2. <u>Power Requirements</u>

Electrical - 115 VAC, 60 HZ, 5.0 A (560 Watts)

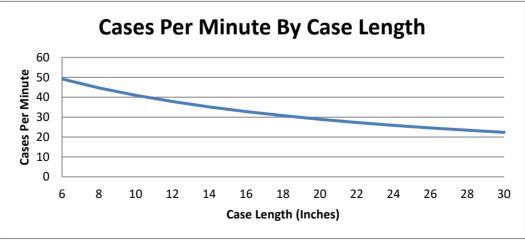
Compressed Air – N/A

This machine comes standard with two gear motors, one on each drive base and an electrical box.

The electrical box contains a **Start** switch, the **Emergency Stop** switch, and a starting relay with a thermal over load. An eleven foot (11') standard three conductor power cord with plug is provided for **115V**, **60HZ**, **15 Amp** service. The receptacle providing this service **must** be properly grounded.

3. Operating Speed

Actual production rate is dependent on operator's dexterity and the case size mix. Boxes must be 14 inches apart. Belt Speed is 82 Ft/min.





4. <u>Tape Specifications</u>

Use Intertape Brand Pressure Sensitive Carton Sealing Tape.

The machine can accommodate 2" (48mm) or 3" (72mm) wide tape, depending on tape heads supplied.

A <u>maximum tape roll diameter</u> of 16" (406 mm) on a 3" (76 mm) diameter core can be installed on the tape head (Accommodates all Intertape brand film tape machine roll lengths).

The standard <u>Tape Leg Length</u> of 2.25 inches (57.2 mm) is factory set. The standard tape leg length may vary up to $\frac{1}{4}$ " (6mm) based on tape tension and line speed.

The standard tape leg length is adjustable +/- $\frac{1}{4}$. Refer to the tape head manual for adjustment of tape leg length.

Note: For further specifications on the tape heads, consult the tape head manual for your specific tape head.

5. Carton Specifications

Туре

- Regular Slotted Containers (RSC).
- Other style cases may be processed. Consult factory for details.

Material

125 to 275 psi bursting test, single or double wall B or C flutes.

Weight

0 to 85 lbs. (0 to 38.6 kg)

Size

The case sealer can accommodate most cartons within the size ranges listed below.

Machines Equipped With 2" Tape Heads					
Carton Size	Length	Width	Height		
Minimum	6" (150mm)	3.5" (89mm)	3.5" (89mm)		
	8" (203mm) opt.	8" (203mm) opt.	2" (50.8mm) opt.		
Maximum	Infinite	20" (508mm)	24" (610mm)		

Machines Equipped With 3" Tape Heads					
Carton Size	Length	Width	Height		
Minimum	6" (150mm)	4.5" (114mm)	3.5" (89mm)		
	8" (203mm) opt.	8" (203mm) opt.	2" (50.8mm) opt.		
Maximum	Infinite	20" (508mm)	24" (610mm)		

Case Processing Stability

For optimal performance, the cases should be stable when processing through the machine. Unstable cases may tilt backwards upon contact with the upper tape head causing the machine to jam.

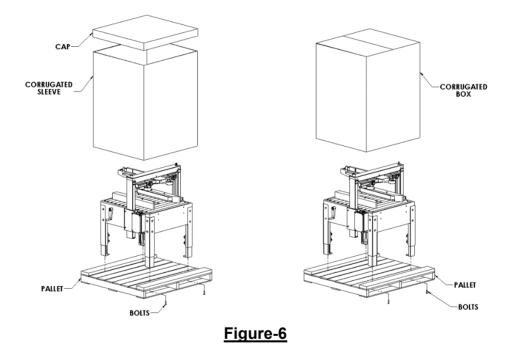
If the box length (in direction of seal) to box height ratio is .75 or less, then several boxes should be test run to assure proper machine performance. The formula is as follows:

<u>CARTON LENGTH IN DIRECTION OF SEAL</u> > .75 CARTON HEIGHT

1. Receiving and Handling

The machine is shipped to the customer fixed to a pallet. The machine is enclosed with either a corrugated sleeve and cap or an HSC corrugated box. The sequence below is step by step instructions to remove all packing materials.

- Remove the strapping securing the corrugated sleeve and cap or HSC corrugated box to the pallet.
- Lift off the cap and corrugated sleeve or HSC corrugated box.
- Remove protective wrapping from machine.
- Remove or relocate all securing devices such as tie wraps or locking collars.
- Remove the mounting bolts, which secure the machine to the shipping pallet.
- Remove machine from the pallet and re-locate to an area to prepare for final installation.



All contents must be verified upon reception. The following items are included with each machine.

- USA 2024-SB
- Operators Manual Machine
- Operators Manual Tape Head
- Plastic bag containing tape head spare parts.

Note: After unpacking the case sealer, look for any damage that may have occurred during shipping. Should the case sealer be damaged, file a claim with the transport company and notify your authorized Intertape Distributor.

2. <u>Caster Installation</u> (If Purchased)

Caster installation requires raising the machine to access the bottom of each leg. Please follow all possible safety procedures prior to and during this process

- **a.** With a fork lift, raise the machine to allow access to the bottom of each leg.
- **b.** Screw in a caster into a leg until it is firmly seated to the bottom of the leg.
- **c.** Tighten each caster.
- d. Do not adjust the conveyor height by adjusting the caster. Proper conveyor height must be achieved by adjusting the leg extension of each leg (see figure-7).

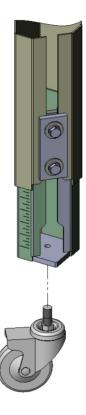
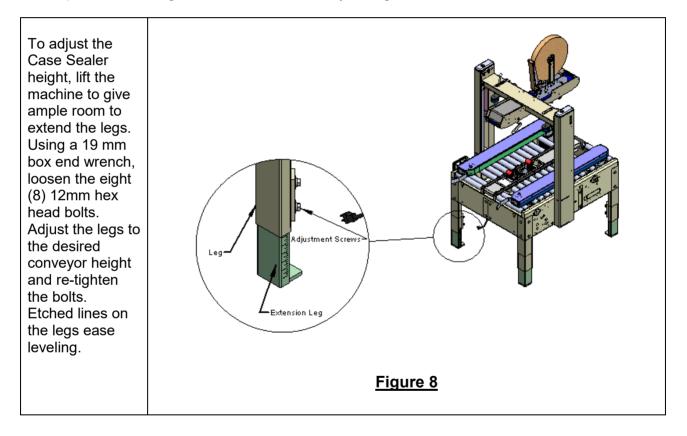


Figure-7

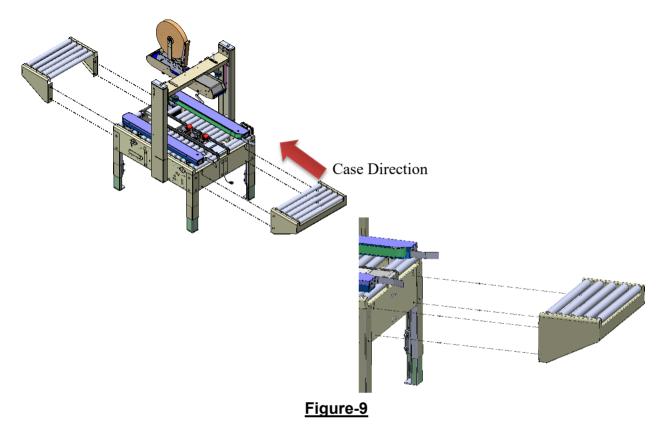
3. Machine Height Adjustment

Machine height adjustment requires raising the machine to adjust each leg. Please follow all possible safety procedures prior to and during this process

The Carton Sealer must be installed on near level ground. Use the adjustable legs to ensure that the machine is level and firmly on the ground (no rocking). Adjust the leg height with the four (4) telescopic extension legs to accommodate conveyor heights from 24 to 30 inches.

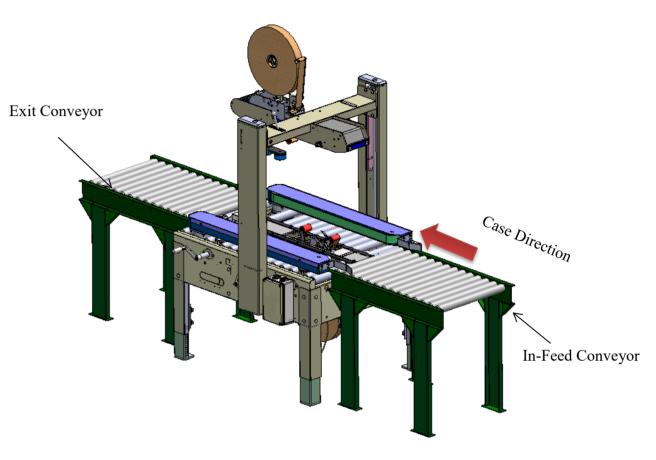


4. Installation of Interpack Brand In-Feed and Exit Roller Tables (If Purchased)



- a. Install four (4) mounting studs into machine base with hardware included with roller table, per **figure-9**.
- b. Utilizing the slots in the roller table, attach roller table to machine base by locating mounting studs in slots on roller table and push down to lock in place.

5. Installation of External In-Feed and Exit Conveyors

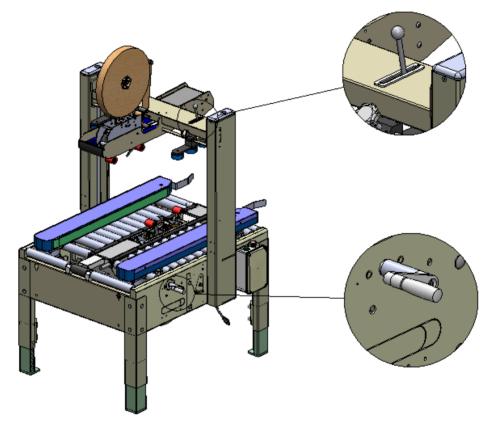


- a. Customer supplied *in-feed conveyor* (if used) should provide straight and level entry into the case sealer.
- b. Customer supplied *gravity exit conveyor* (if used) should be straight and declined no more than 20mm/meter away from the machine to convey the sealed cartons away from the machine.
- c. Customer supplied *powered exit conveyor* should be straight and level to convey the sealed cartons away from the machine.

6. Machine Final Assembly

The machine is shipped with all adjustment handles installed.

Location of Adjustment Handles.



7. Connecting Utilities

a. Electrical

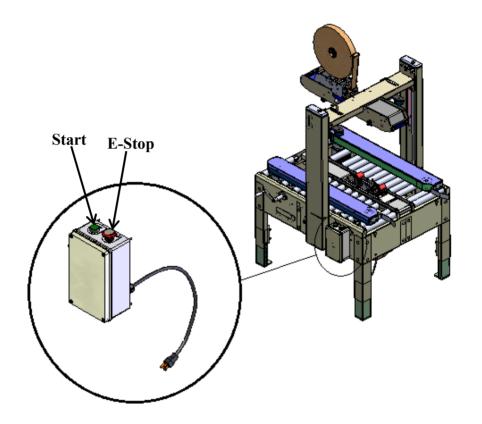


Figure-12

An eleven foot (11') standard three conductor power cord with plug is provided for 115 V, 60 Hz, 15 amp electrical service, the receptacle must be properly grounded. Before the machine is plugged into the receptacle, ensure that all materials are removed from the machine. The electrical control is protected with an automatic circuit breaker with re-settable overload.

The electrical control box can be located on either side of the Carton Sealer for customer convenience. It contains the green "on" push button and the red "E-Stop" re-settable push button, which is to be used both for emergency stops as well as a stop button. The E-Stop button requires a ¼ turn to release.

Moving the control box to the opposite side of the machine requires disconnecting and reconnecting electrical wires and components. Only trained and qualified service technicians should access an open control box. Please follow all possible safety procedures prior to and during this process

8. <u>Relocating Operator Controls</u>

This case sealer is shipped with the operator controls mounted on the left hand side of the machine (when viewed from the in feed of the machine). Certain machines have the ability to relocate the operator controls to the opposite side.

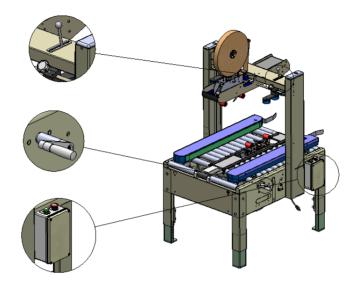
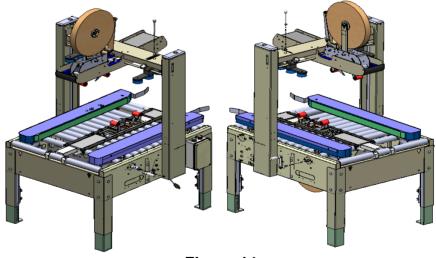


Figure-13

Re-Locating Adjustment Handles.



- a. Loosen 3 mm Allen screw to allow removal of handle from square shaft.
- b. Remove adjustment handle from square shaft and re-locate to right side.
- c. Re-tighten Allen screw to lock adjustment handle to square shaft.

Re-Locating Electrical Control Box

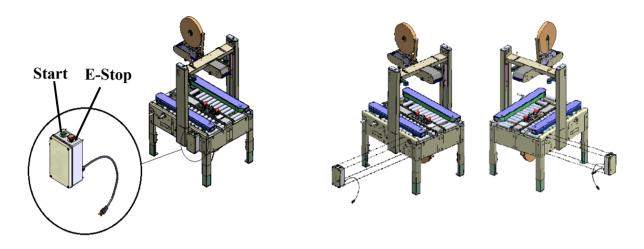


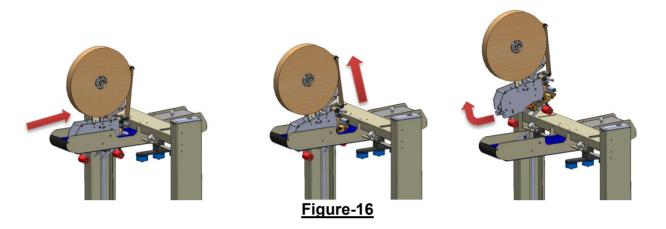
Figure-15

Moving the control box to the opposite side of the machine requires disconnecting and reconnecting electrical wires and components. Only trained and qualified service technicians should access an open control box. Please follow all possible safety procedures prior to and during this process

- a. Disconnect machine from electrical supply.
- b. Remove cover.
- c. Note the position of the wires to be disconnected to allow for re-location.
- d. Disconnect wires from motor starter.
- e. Disconnect ground wires.
- f. Remove lock nut from strain relief (2) inside electrical control box.
- g. Remove strain relief (2) and wires from control box.
- h. Remove control box and re-locate to opposite side.
- i. Route wires (3) to opposite side of machine.
 - 1. Remove wire ties holding wires under machine.
 - 2. Re-locate wires to re-positioned control box.
 - 3. Install new wire ties to secure wires to machine base.
- j. Insert strain reliefs (2) and wires into control box.
- k. Re-install strain relief lock nuts (2).
- I. Re-connect wires to motor starter.
- m. Re-connect ground wires.
- n. Re-install cover.

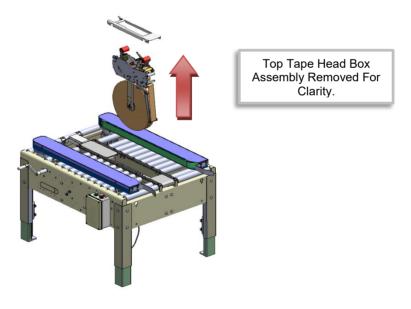
9. <u>Removing Tape Heads Prior to Tape Loading</u>

Removing Upper Tape Head



- a. Slide tape head toward the infeed end of machine and rotate up.
- b. Slide tape head toward the exit end of machine and lift out of rear slot.

Removing Lower Tape Head

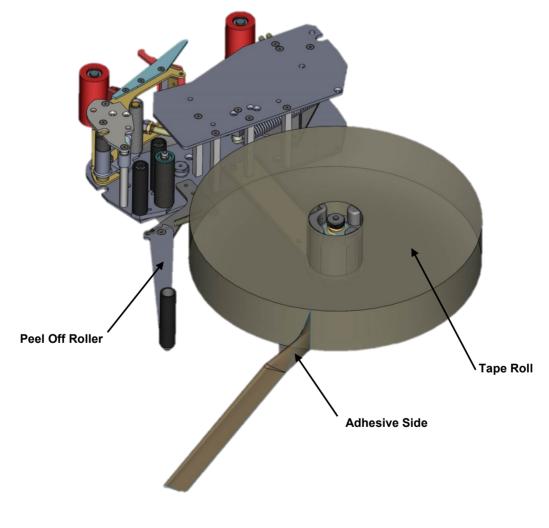


- a. Remove gap filler by lifting straight up.
- b. Gripping the stationary cross shafts, lift the tape head straight up and out of the slots.

10. Tape Loading

The HSD 2000-ET II Tape Heads accommodate 2-inch (48mm) wide tape rolls, while the HSD 2000-ET II/3" Tape Heads accommodate 3-inch (72mm) wide rolls.

- a. Place the tape head onto a sturdy, flat surface.
- b. Move the peel off roller away from the mandrel.
- c. Push the roll of tape onto the mandrel with the adhesive side up (refer to **Threading Diagram** under Tape Threading section in this manual pg 32) until the core seats against the mandrel flange. This ensures the tape will be aligned when feeding into the tape head.
- d. Replace the peel roller against the tape roll.



Warning! The knife contained in the Tape Head is extremely sharp. Use caution when threading the tape to avoid personal injury.

11. Tape Threading Preparation

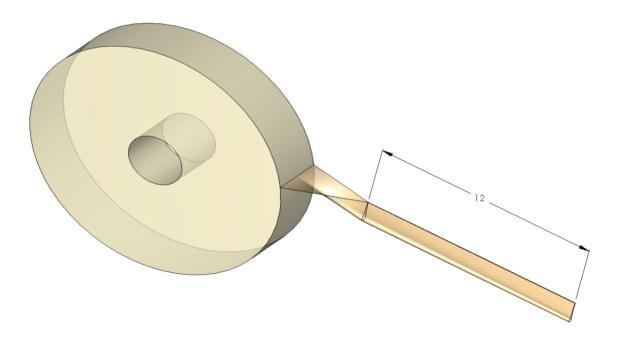
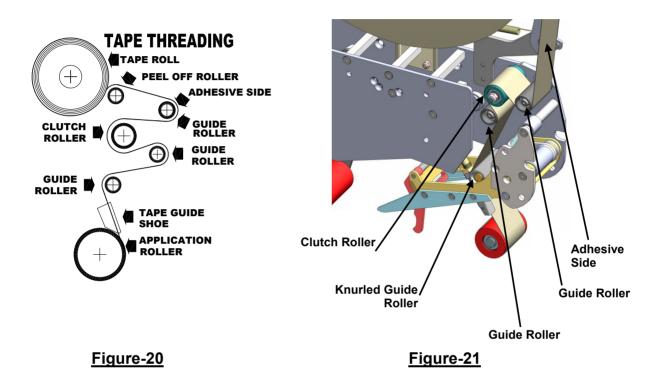


Figure-19

Threading the tape in the Tape Head does not require any special tools.

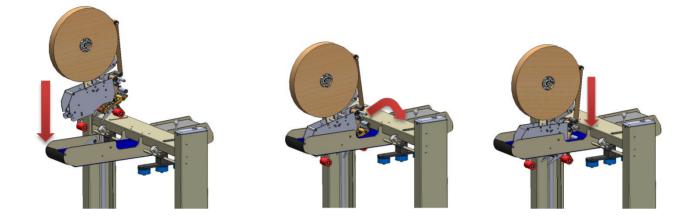
Pull approximately twelve (12) inches of tape from the roll and fold in half lengthwise, adhesive side to adhesive side. This allows you to thread the tape without it adhering to the guide and clutch rollers inside the Tape Head

12. Tape Threading



- a. As illustrated in **figure-20**, first thread the tape tail over the **peel off roller**.
- b. As illustrated in **figures-20 and 21** thread the tape over and around the first "smooth" **guide roller**.
- c. Continue to thread the tape over and around the "knurled" clutch roller.
- d. Then pass the tape up and over the second "smooth" guide roller.
- e. Continue threading the tape over and behind the final "knurled" guide roller.
- f. Thread the tape through the cut-out provided in the **tape guide shoe** and pull the tape through the front **application roller**, ensuring that the tape is retained in the tape guide shoe
- g. Cut off the folded tape.
- h. Replace the tape head to its initial position in the machine.

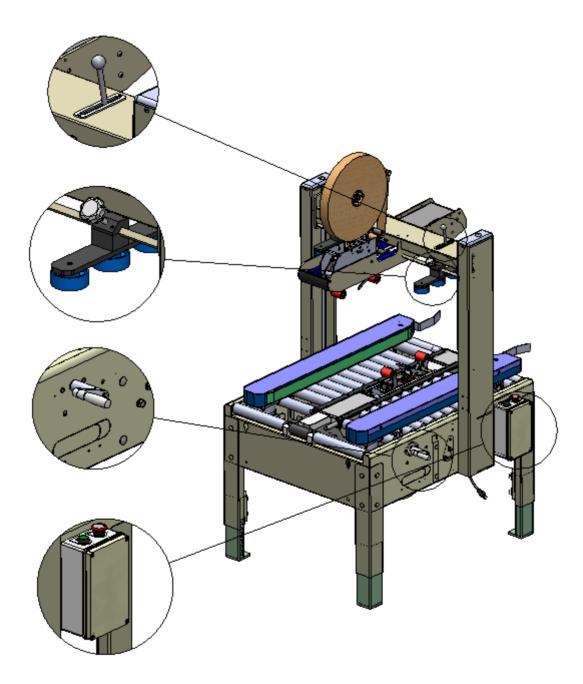
13. Re-Installing Tape Heads



- a. Insert exit end of tape head into rear slots.
- b. Rotate front of tape head down into front slots
- c. Push front of tape head down to seat in bottom of slot.

OPERATING INSTRUCTIONS

Case Size Set Up Functions



1. Initial Condition

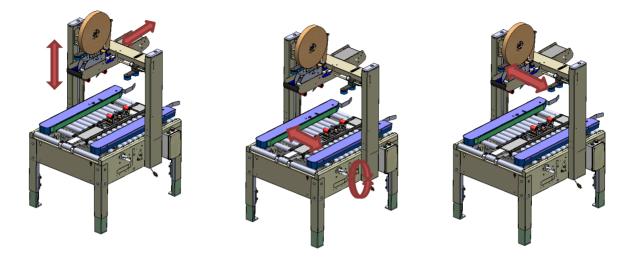
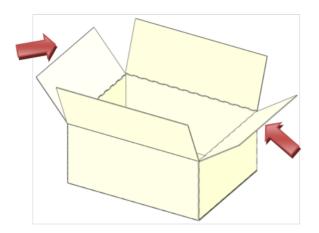


Figure-24

Figure-25

- a. Raise the upper head as shown in Figure-24
- b. Open side drives or centering guides as shown in Figure-25
- c. Loosen each locking knob and open top squeezers as shown in Figure-26

2. Preparation Of Case To Be Processed



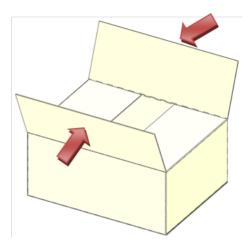
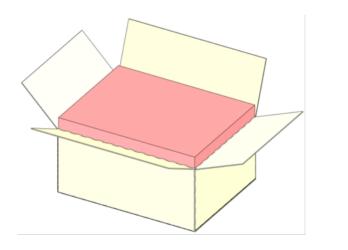


Figure-27



- a. Flap Folding
 - 1. Fold Minor Flaps In As Shown In Figure-27
 - 2. Fold Major Flaps In As Shown In Figure-28



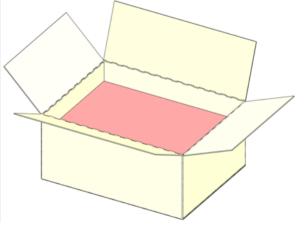


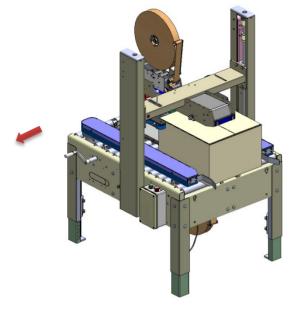
Figure-29

Figure-30

b. Over Fills And Void Fills.

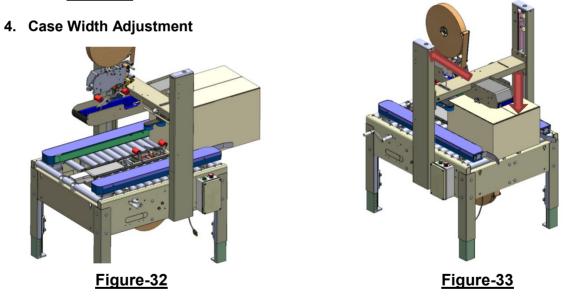
Over Fills As Shown In **Figure-29** And **Void Fills** As Shown In **Figure-30** Should Be Avoided To Assure Proper Processing Of The Corrugated Case. Each Of These Scenarios Put Stress On The Pressure Sensitive Tape Seal Which Could Be Detrimental To The Integrity Of The Closure.

3. Case Width Adjustment



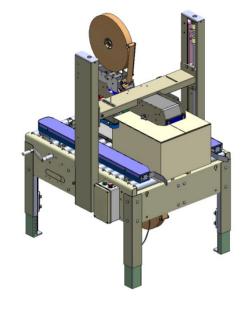
a. Turn Case Width Handle As Shown in <u>Figure-31</u> Until Side Drive Belts Contact Case. Side Drive Belts Should Contact The Case Firmly Enough So Case Processes Smoothly But Not So Firm As To Score The Side Of The Case.

Figure-31



- a. Insert The Case To Just Before Front Roller Of Lower Tape Head As Shown In Figure-32
- b. Move Locking Handle To Unlock Position. Lower Upper Head Until Upper Head Contacts Top Of Case. Upper Head Should Contact Case Firmly Enough To Keep Major Flaps Closed But Not Restrict Processing Of Case Or Score The Top Of Case. Move Locking Handle Back To Locked Position.

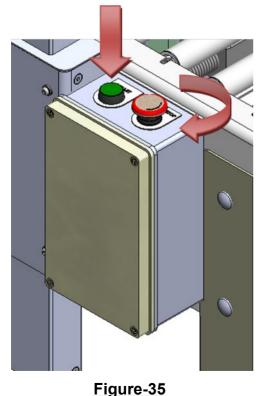
5. Top Squeezer Adjustment



a. Slide Each Top Squeezer To Contact The Case Firmly And Tighten Each Locking Knob As Shown In <u>Figure-34</u>. Each Top Squeezer Should Be Firm Enough On The Case To Completely Close Any Gap On The Center Seam But Not So Firm As To Restrict The Smooth Processing Of The Case

Figure-34

6. Power On.



a. Rotate The E Stop Clockwise 1/4th Turn To Reset The Knob As Shown In Figure-35
b. Push The Green Start Button To Start The Machine And Process The Case

7. Review Of Case Processing

Case Should Process Smoothly Through The Machine And Apply The Tape Evenly To Each Top And Bottom Major Flap With A 2 ¹/₄" Tape Leg Applied To Each End Panel.

Should The Case Processing Need Correction Please Refer To The Trouble Shooting Section In This Manual

TROUBLE SHOOTING

The **USA 2024-SB** is fabricated with high quality components that provide trouble-free operation for a long period of time. However, should a problem occur, we recommend that you consult the following table. If the problem you encounter is not discussed in this table, call Interpack Technical Support (see page 2 of this document).

Trouble	Possible Causes	Solutions
Green Start Button Depressed But Belts Do Not Turn	E-Stop not Re-Set	Rotate E-Stop 1/4 Turn Clockwise.
	Machine Not Plugged In	Plug Machine Into 115 V, 60 Hz, 15 Amp Electrical Service.
Motors Turn But Belts Do Not Turn	Belt Tension Too Low	Re-Tension Drive Belts, See Section 11 page 51
Drive Belts Do Not Process Cases.	Belt tension Too Low	Re-Tension Drive Belts, See Section 11 page51
	Case Width Adjustment Incorrect.	Re-Adjust Case Width, See Section 8 page 39
	Case Height Adjustment Incorrect.	Re-Adjust Case Height, See Section 8 page 38
	Collapsed Leading End Panel On Case.	-Install Lighter Gauge Tape Head Main Spring -Reduce Unwind Tension On Tape Roll a. Mandrel Tension b. Clutch Roller Tension
	Case Size Is Out Of Specification.	Compare Case Sizes With Machine Specifications, Section 6 page 20
	Top Squeezers Set Incorrectly.	Re-Adjust Top Squeezers, See Section 8 page 39
Case Processes But Top Of Case Is Crushed	Case Height Adjustment Is Incorrect	Re-Adjust Case Height, See Section 8 page 38
Case Processes But Side Of Case Is Crushed	Case Width Adjustment Incorrect	Re-Adjust Case Width, See Section 8 page 39

TROUBLESHOOTING CONTINUED

Trouble	Possible Causes	Solutions
Case Processes But Leading End Panel Is Crushed	Product Does Not Support The End Panel Of The Case	Insert Proper Dunnage Material To Provide Support
	Main Spring Tension On Tape Head Too Strong	Reduce Main Spring Tension. See Tape Head Manual Provided With Tape Head
Drive Belts Start, Then Stop	Motor Starter Trips	Call Maintenance
Void Fill Cases Do Not Process Properly	Upper Tape Head Wipe Down Rollers Collapse Inside Case.	-Install Lighter Gauge Tape Head Main Spring -Reduce Unwind Tension On Tape Roll a. Mandrel Tension b. Clutch Roller Tension
Overfilled Cases Do Not Process Properly	Product Height Exceeds Case Height	-Reduce Product In Case To Match Case height -Increase Case Height To Match Product Height.
	Excessive Void Fill Dunnage.	Reduce Void Fill Dunnage to Match Case Height
	Top Tape Head Box Is Not Adjusted Properly	Readjust Top Tape Head Box To Proper Case Height
Unstable Cases Do not Process Properly	Case Height Exceeds 1 ½ Times The Case Length	-Re-Configure Case Dimensions So That Case Is Not Unstable -Process Case On Top and Bottom Belt Drive Machine
Tape Not Centered on Carton	Tape Roll Mandrel Not Centered on Case.	Center Tape Roll Mandrel, See Tape Head Manual.
	Tape Roll Not Fully Pushed On Tape Mandrel.	Push Tape Roll Completely Onto Tape Mandrel.
Tape Leg Is Too Short / Too Long	Tape Leg Adjustment Not Correct.	Adjust Tape Leg, See Tape Head Manual.
	Tape Head Is Not Threaded Correctly	Thread Tape Head Correctly, See Section 7 page 33.
	Tape Roll Unwind Tension Is Too Strong Or too Weak.	Adjust Unwind Tension, See Tape Head Manual.

TROUBLESHOOTING CONTINUED

Trouble	Possible Causes	Solutions
Rear Tape Leg Is Folded Or Wrinkled	Tape Threaded Incorrectly	Review Tape Threading Page 33
	Adhesive Build Up In Tape Path	Clean Tape Guide Rollers To Provide A Free Rotation
		Clean Tape Path, Blade
	Dull Blade	Replace Blade
	Excessive Unwind Tension From Tape Roll	Adjust Mandrel Tension And Clutch Roller Tension. See Tape Head Manual Provided With Tape Head
Tape Does Not Cut	Dull Blade	Replace Blade
	Insufficient Tension At The Clutch Roller	Increase Clutch Roller Tension Slightly. See Tape Head Manual Provided With Tape Head
Upper Head Adjustment Difficult To Move		Clean Shaft, Lubricate With Industrial Grade Silicone.
	Upper Head Misaligned.	
Drive Base Adjustment Handle Is Hard To Turn	Dust And Dirt On Acme Screw	Clean Acme Screws, Lubricate With Light Machine Grease. See Section 11 pages 47-48
	Dust And Dirt On Chain	Clean Chain And Lubricate With Chain Lube. See Section 11 pages 47-48

RECOMMENDED SPARE PARTS

This Machine Is Designed To Provide Years Of Trouble Free Operation. However, Maintaining A Small Inventory Of Spare Parts Assures Minimum Downtime In The Event Of A Problem. We Recommend That You Stock The Following Spare Parts.

DESCRIPTION	ITEM NUMBER	RECOMMENDED QUANTITY
Bearing Pulley	UPM0324	2
Bumper	UPM0576	8
Belt Endl.Sag 12E, 2" x 83"	UPM0663	2
Linear Bearing 25mm Shaft	LM25UU	2
Constant Force Spring 33lbs.	UPM0740	1
Constant Force Spring 24lbs.	UPM2181	1
Wheel 2-7/8" Dia. Compression Guide	UPM1659	2
Single Locking Handle	UPM0688EV	1

Replacement Parts

Order parts by <u>item number</u>, <u>part name</u> and <u>quantity required</u>. Replacement parts are available from your Authorized Interpack Distributor exclusively.

Should you require assistance selecting the correct part, you may call:

Intertape Polymer Group Interpack Machinery 9940 Currie Davis Drive, Suite 23B Tampa, FL, 33619

Tel: 1-800-474-8273 Option 3 Fax: 1-800-462-1293

Field Service Assistance

This machine is designed to provide years of trouble free operation. If any problems arise with this machine during the normal course of operation, your properly trained and qualified internal service personnel should be able to repair any issues after consulting the Trouble Shooting section of this manual.

However, after consulting the Trouble Shooting Section of this manual, you cannot remedy the problem, customer paid service support is available from your Authorized Interpack Distributor.

PREVENTATIVE MAINTENANCE

The USA 2024-SB has been designed and manufactured with the finest components to provide long, trouble free performance. General preventive maintenance will improve performance and prolong the life of the case sealer

Please review the illustrations and chart below for information regarding machine And Tape Head maintenance

Machine Preventative Maintenance Chart

			Frequency		1
Item	Action Required	Material	Weekly	Monthly	Quarterly
Carton Dust In/On Machine	Blow Off Machine Extenally and Internally	Air hose	Х		
	Pay Attention To Drive Base Centering Chain				
Carton Dust Inside Drive Bases	Remove Drive Base Cover	Screw Driver	Х		
	Blow Out Carton Dust	Air Hose			
	Replace Cover	Screw Driver			
Hardware	Re-Tighten any Loose Hardware			х	
	Replace any Missing Hardware				
Column Shafts	Lubricate	Industrial Grade Silicone		Х	
Cross Shafts	Lubricate	Light Machine Grease		Х	
Centering Chain	Lubricate	Chain Lubricant		Х	

PREVENTIVE MAINTENANCE

Tape Head Preventative Maintenance Chart

				Frequen	су
Item	Action Required	Material	Weekly		Quarterly
Blade Guard Oiler Pad	Lubricate	Lightweight oil	X		-
Hardware	Re-tighten any loose hardware	5 5			Х
	Replace any missing hardware				Х
Cutter Blade	Inspect for wear		Х		
	Clean	Solvent Cleaner	X		
Mandrel Assembly	Disassemble & Observe				Х
	Check for weakness	None			X
Mandrel Friction Washer		Solvent Cleaner			X
Mandrel Metal Washer		None			X
	Remove any dust and adhesive build up	Solvent Cleaner			X
Mandrel Bearing	Check for wear	None			Х
Peel Roller					Х
Delrin Roller	Check for free spinning. Disassemble	Solvent Cleaner			Х
	and remove any adhesive build up	_			
Pivot Shaft	Check for any restriction	Solvent Cleaner			Х
	Check for weakness				X
Plastic Guide Rollers	Check for free spinning. Disassemble	Solvent Cleaner		Х	
	and remove any adhesive build up				
Knurled PTFE Coated One	Back off tension. Check for free	Solvent Cleaner		Х	
Direction Clutch Roller	spinning. Disassemble and remove any				
	adhesive build up				
Knurled PTFE Coated Guide	Rotation should be slightly restricted by	Solvent Cleaner		Х	
Roller	Belville washer. Disassemble and				
	remove any adhesive build up if				
	excessive restriction is detected				
Front Red Wipe Down Rollers	Rotation should be slightly restricted by	Solvent Cleaner		Х	
	Belville washer. Disassemble and				
	remove any adhesive build up if				
	excessive restriction is detected				
Rear Red Wine Down Rollers	Check for free spinning. Disassemble	Solvent Cleaner		Х	
	and remove any adhesive build up			~	
Main Spring	Remove and inspect for any wear or			Х	
	weakness. Replace as necessary			~	
Knife Spring	Remove and inspect for any wear or			х	
Tunie Opinig	weakness. Replace as necessary				
Tape Shoe Guide Elat Spring	Inspect for any wear or weakness.			х	
Tape once onde That opinig	Replace as necessary				
Wipe Down Brush	Inspect for any wear or weakness.			х	
Wipe Down Didsi	Replace as necessary			^	
	, ,				
Main Applying And Wipe	Remove <u>Main Spring</u> and check for any	Worn bearings,			Х
Down Assembly	restictions when assembly is in motion	bent shafts,			
		bent roller arms	ļ		
Knife Arm Assembly	Remove <u>Knife Spring</u> and check for any	-			Х
	restictions when assembly is in motion	bent shafts,			
		bent arms			
Refer To Asser	nbly Drawings For Part Numbers Of R	eplacement Par	ts If Requ	uired	

PREVENTIVE MAINTENANCE

Cleaning The Machine

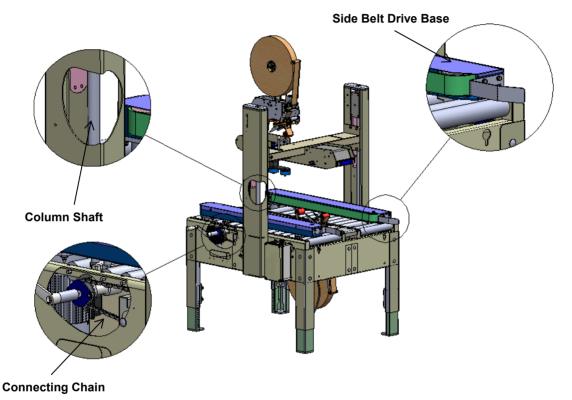


Figure-36

Warning! Please Exercise All Safety Precautions Prior To Starting This Procedure. Disconnect Electrical Power And Wear Approved Safety Glasses

a. Side Belt Drive Base

i. Insert An Air Nozzle Along The Top Edge Of The Belt Into The Opening Of The Drive Base And Clean Out Any Dust And Dirt

b. Column Shaft

- i. With A Cloth, Wipe Down Any Accumulation Of Dust And Dirt.
- ii. Be Sure To Wipe Down Both Columns.
- c. Connecting Chain For Centering Assembly
 - i. Blow Off Any Accumulation Of Dust And Dirt From The Connecting Chain

PREVENTIVE MAINTENANCE

Lubricating the Machine

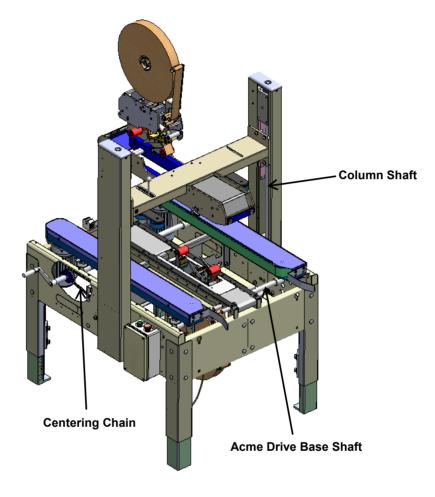


Figure-37

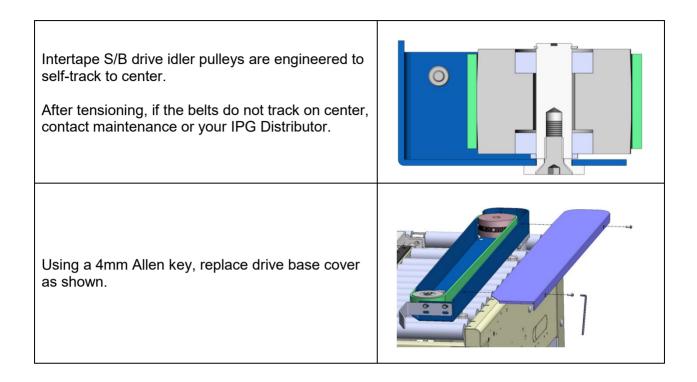
- a. Column Shaft.
 - i. Lubricate Both Shafts With Industrial Grade Silicone.
- b. Acme Drive Base Shafts.
 - i. Lubricate Both Shafts With Light Machine Grease.
- c. Centering Chain.
 - i. Lubricate Chain With Chain Lubricant.

MACHINE MAINTENANCE & ADJUSTMENT

Drive Belt Replacement

Using a 4mm Allen key, remove screws (2) and remove drive base cover.	
Using appropriate Allen key and wrench, loosen belt tensioning bolts.	
Remove worn belt and replace with new belt.	
Using appropriate Allen key and wrench, tighten belt tensioning bolts. Be sure to adjust both drive belts' tensioning bolts equally.	
Proper belt tension is achieved when a 5 pound pull force is used to create a 1" gap as shown in the middle of the drive base.	1" Midspan

MACHINE MAINTENANCE & ADJUSTMENT

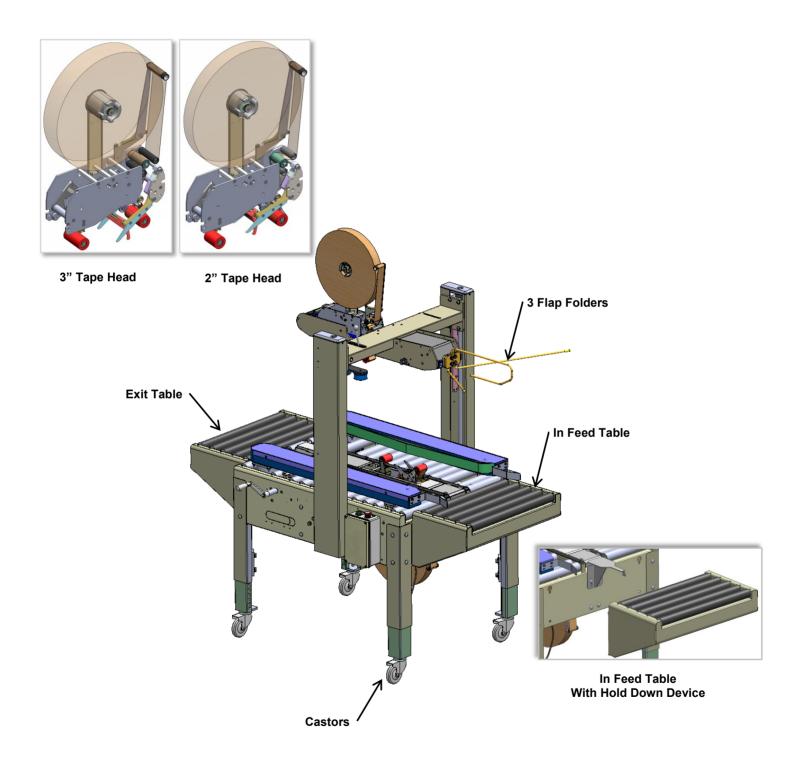


MACHINE MAINTENANCE & ADJUSTMENT

Drive Belt Adjustment

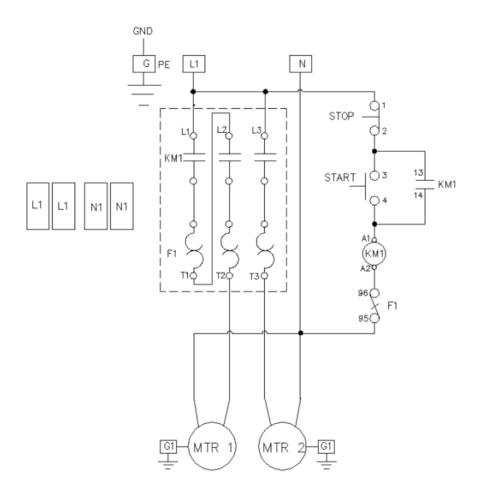
Using a 4mm Allen key, remove screws (2) and remove drive base cover.	
Using appropriate Allen key and wrench, tighten belt tensioning bolts. Be sure to adjust upper and lower tensioning bolts equally.	
Proper belt tension is achieved when a 5 pound pull force is used to create a 1" gap as shown in the Middle of the drive base.	1" Midspan
Intertape S/B drive idler pulleys are engineered to self- track to center. After tensioning, if the belts do not track on center, contact maintenance or your IPG Distributor.	
Using a 4mm Allen key, replace drive base cover as shown.	

OPTIONAL EQUIPMENT



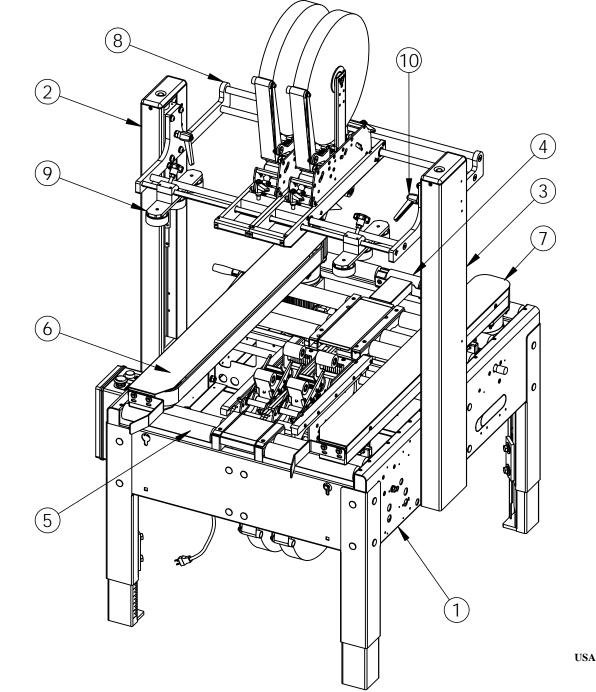
SCHEMATIC DIAGRAMS

Electrical Drawing



APPENDIX A –ILLUSTRATIONS & PARTS LISTS

APPENDIX USA2024 SB DOUBLE TOP TH BOX



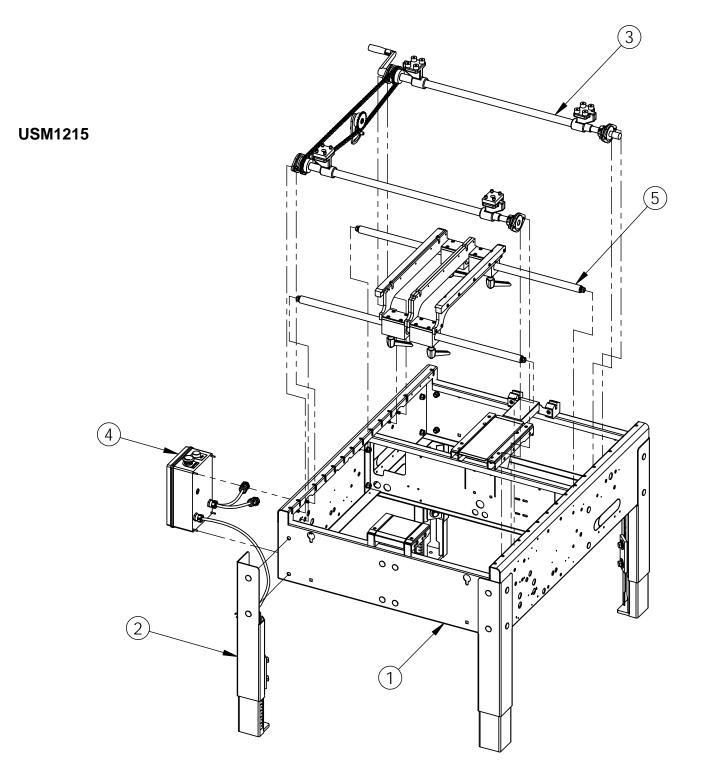
UM161TW

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USA 2024-SB DOUBLE TH A-2

UM161TW

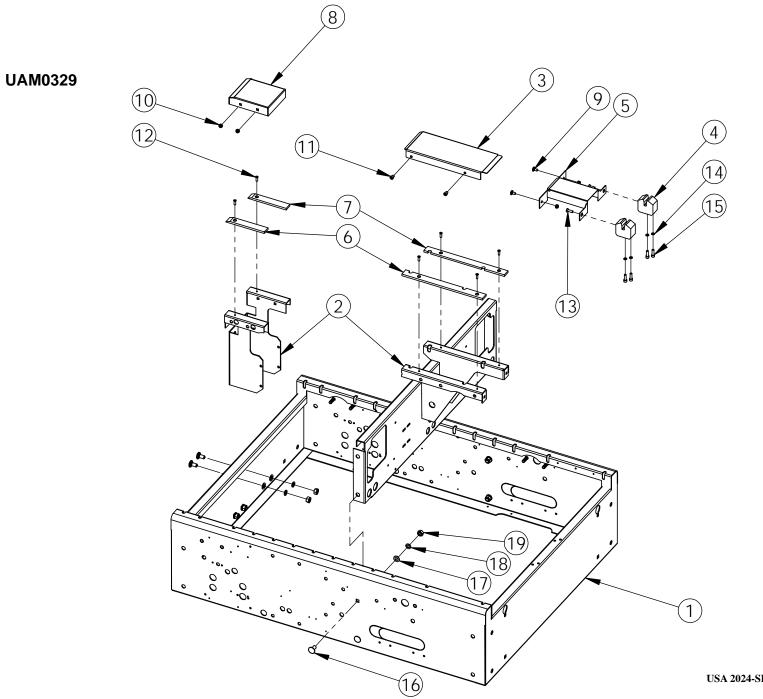
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	USM1215	BASE ASSEMBLY	1
2	USM0819	COLUMN 24 LEFT ASS'Y	1
3	USM0818	COLUMN 24 RIGHT ASS'Y	1
4	UPM3227	PVC ROL CHARCOAL DIA 1.9 X 4.50	1
5	UPM3226	PVC ROL CHARCOAL DIA 1.9 X 12.00	12
6	USM0812	DRIVE BASE ASSY LH	1
7	USM0811	DRIVE BASE ASS'Y RH	1
8	USM5062	Double sliding top th box Ass'y	1
9	UAM0332	COMPRESSION GUIDE	2
10	UAM0335	ADJUSTABLE HANDLE	2



USA 2024-SB DOUBLE TH A-4

USM1215

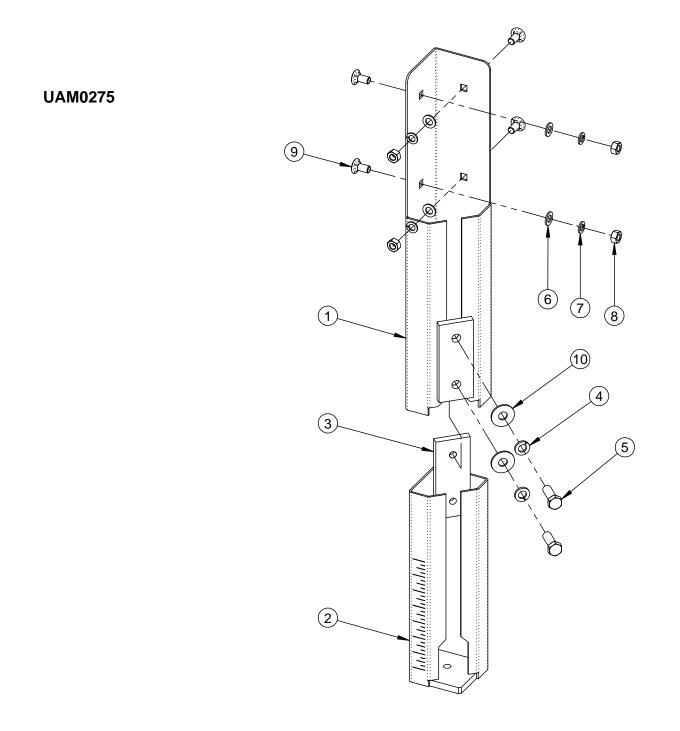
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	UAM0329	BASE SUB-ASS'Y	1
2	UAM0275	LEG ASSEMBLY METRIC	4
3	USM6111	DRIVE CENTRING ASS'Y	1
4	USM6118	ELECTRIC ASSEMBLY	1
5	USM1216	DOUBLE SLIDING BOTTOM TH Box	1



USA 2024-SB DOUBLE TH A-6

UAM0329

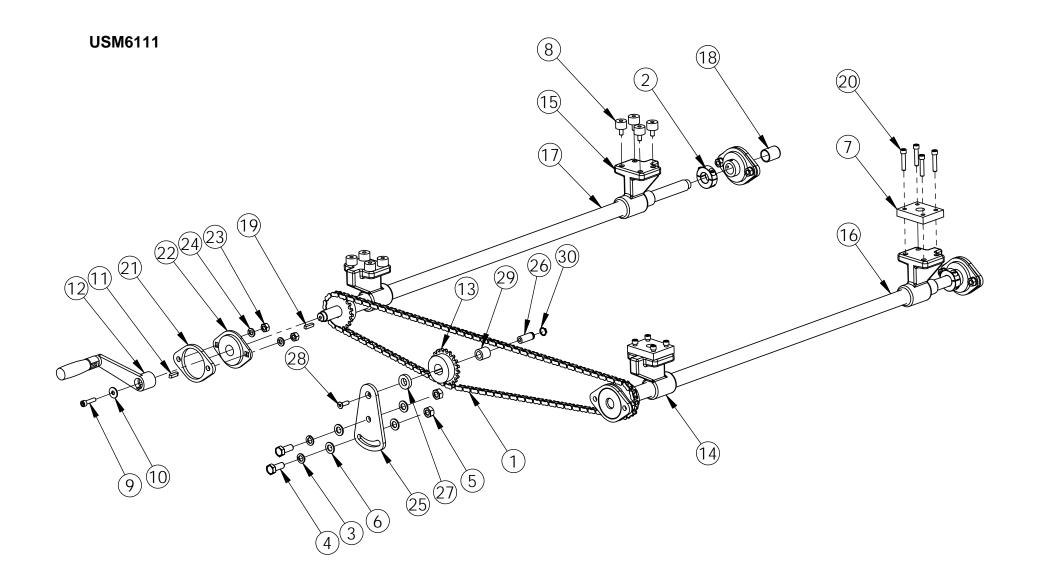
-			
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	UPI0109	OUTSIDE FRAME	1
2	UPI0113	TRANSVERSE BRACING	1
3	UPM4193	REAR GAP FILLER	1
4	UPM3234EV	OUTLET ROLLER BLOCK	2
5	UPM3288EV	OUTLET COVER USA SB	1
6	UPI0114	SLIDING PAD R.H.	1
7	UPI0115	SLIDING PAD L.H.	1
8	UPM3229	INLET COVER	1
9	UF 3713	CARRIAGE BOLT M6 - 1 x 12	6
10	UF3391	SS NYLON LOCK NUT M6-1.0	10
11	UF3170	SS SHCS M6-1 x 8	4
12	UF4114	SELF TAPPING SCREW M5 X 16mm	6
13	UF5402	FHCS M6 - 1 x 20	2
14	UF6411	SS LW M6	4
15	UF0835	SHCS M6-1 X 20mm	4
16	UF4229	CARRIAGE BOLT M10-1.5 x 20	8
17	UF3680	FW M10	8
18	UF6371	LW M10	8
19	UF6314	HNR M10 x 1.5	8



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UAM0275

ITEM	PART #	DESCRIPTION	QTY.
1	UPM7640	LEG WELDMENT	1
2	UPM7641	LEG AD JUSTMENT	1
3	UPM7642	LEG FRICTION PLATE	1
4	UF4230	L.W. ZINC M12	2
5	UF6393	HHCSM12-1.75 x 35	2
6	UF3680	FW M10	4
7	UF6371	L.W. M10	4
8	UF6314	HNR M10 x 1.5	4
9	UF4229	CARRIAGE BOLT M10-1.5 x 20	4
10	UF4231	FW M12	2

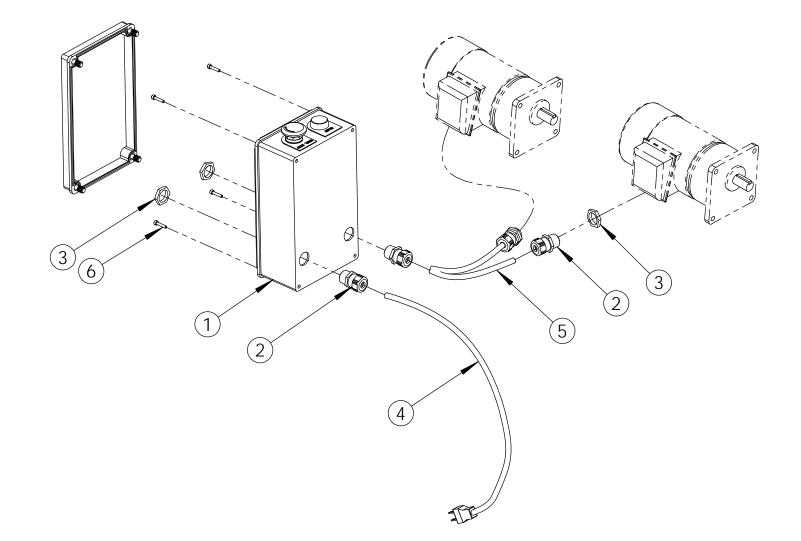


ITEM	PART #	DESCRIPTION	QTY.
1	UPM0618	CHAIN #35-165 PITCH	1
2	UPM7583	SHAFT COLLAR	2
3	UF6371	L.W. M10	2
4	UF6382	HHCS M10-1.5 x 25 mm	2
5	UF6314	HNR M10 x 1.5	2
6	UF3680	FW M10	4
7	UPM3242	DRIVE SUPPORT SPACER	2
8	UPM0576	BUMPER	8
9	UF0840	SHCS M6-1 X 25mm	1
10	UF1828	REG F.W. M6	1
11	UF2210EV	SQUARE KEY ROUND ENDS 5 X 5 X 20	1
12	UPE0001EV	CRANK HANDLE, FOLDABLE	1
13	UPM0620	SPROCKET 35B20.75ID C/W 3/16 KW	3
14	UPM0575EV	CASTING LH	2
15	UPM0574EV	CASTING RH	2
16	UPM0573EV	Acme Shaft, No Handle TW	1
17	UPM0566EV	Acme Shaft For Handle TW	1
18	UPM2207	CAP VINYL BLACK	1
19	UF2210	SQUARE KEY, ZINC .188 x .188 x .75	2
20	UF0640	SHCSHK 1/4-20 X 1-1/4"	8
21	UPM2198	BEARING SPACER	4
22	UPM0523EV	FLANGE BEARING	4
23	UF0866	HNR M8-1.25	8
24	UF0867	LW M8	8
25	UPM0631EV	TENSIONNER BRACKET	1
26	UPM0640EV	TENSIONNER PIN	1
27	UPM0641	CHAIN TENSIONNER SPACER	1
28	UF5402	FHCS M6 - 1 x 20	1
29	UPM0639EV	SLEEVE BEARING 12 mmID 3/4OD 3/4LG	1
30	UF2170	1/2" RETAINING RING	1

USM6111

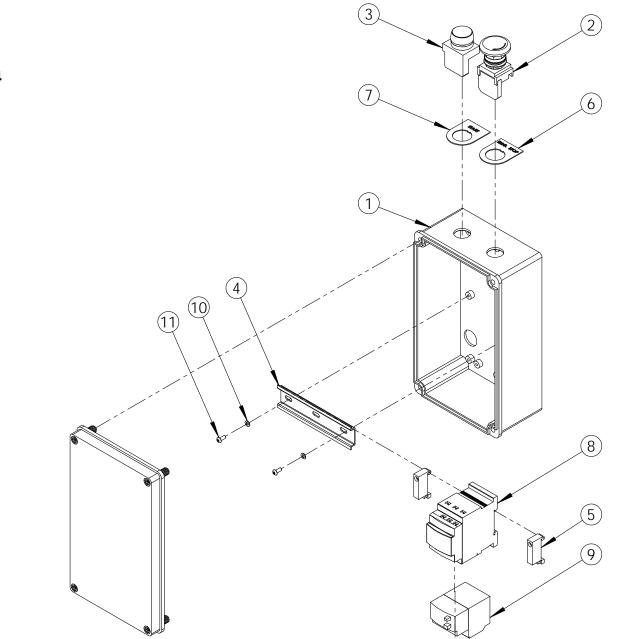
USA 2024-SB DOUBLE TH A-11





USM0817

ITEM	PART #	DESCRIPTION	QTY.
1	UAM0264	ELECTRIC BOX ASSEMBLY	1
2	UPM0197EV	STR.RELF METL.LIQDTGHT M20X1.5 (8-10mm)	4
3	UPM0341EV	LOCKNUT M20 X 1.5(FOR STRAIN RELF)	4
4	UPM0209	POWER CORD, 14/3	1
5	UPM0225	CABLE 18/3 TYPE SJ	2
6	UF3646	SHCS M4-0.7 x 20	4

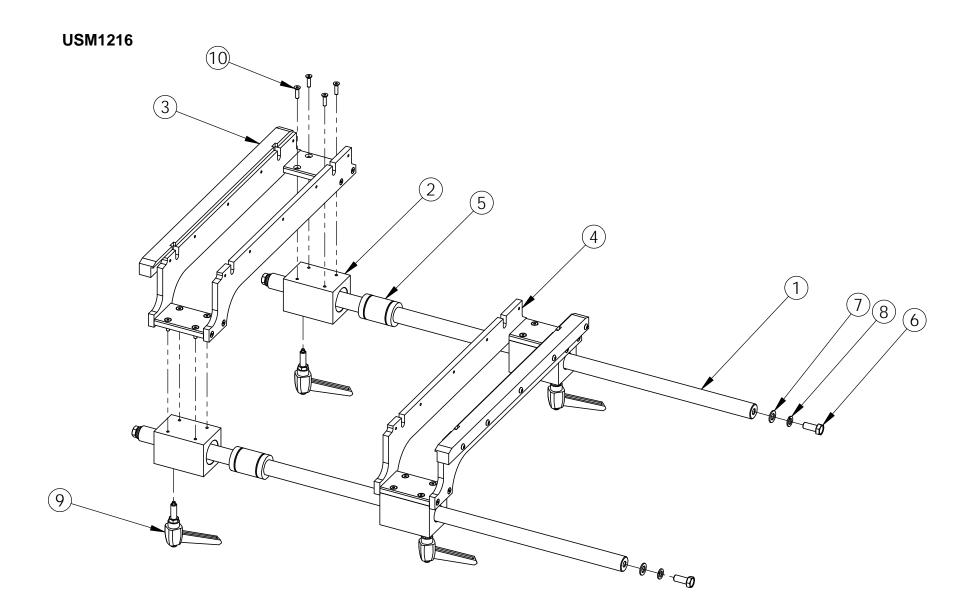


UAM0264

USA 2024-SB DOUBLE TH A-14

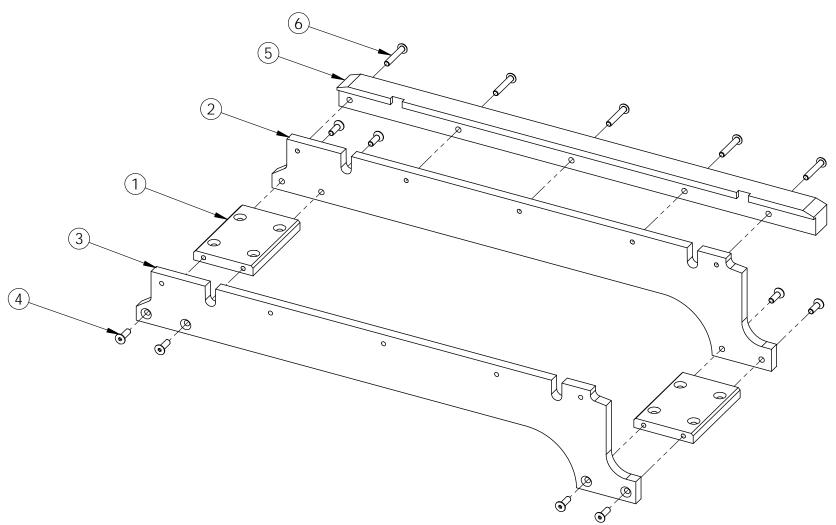
UAM0264

ITEM	PART #	DESCRIPTION	UAM0264/ QTY.
1	UPM7527	ENCLOSURE DEMEX HIBOX 132 X 232	1
2	UPM2211	BUTTON MUSHROOM 22mm 1 N.C.	1
3	UPM2212	BUTTON GREEN 22mm 1 N.O.	1
4	UPM0407EV	DIN RAIL USA 2324	1
5	UPM7440EV	tb end anchor for dn ser	2
6	UPM2209EV	LEGEND PLATE "E-STOP"	1
7	UPM2210EV	LEGEND PLATE "START"	1
8	UPM7524	MOTOR STARTER TELEMEC 110VAC	1
9	UPM2213EV	MOTOR O/L TELEMEC 2.5-4.0A	1
10	UF3710	FW M4	2
11	UF6365	BHCS M4 x 0.7 x 10mm	2

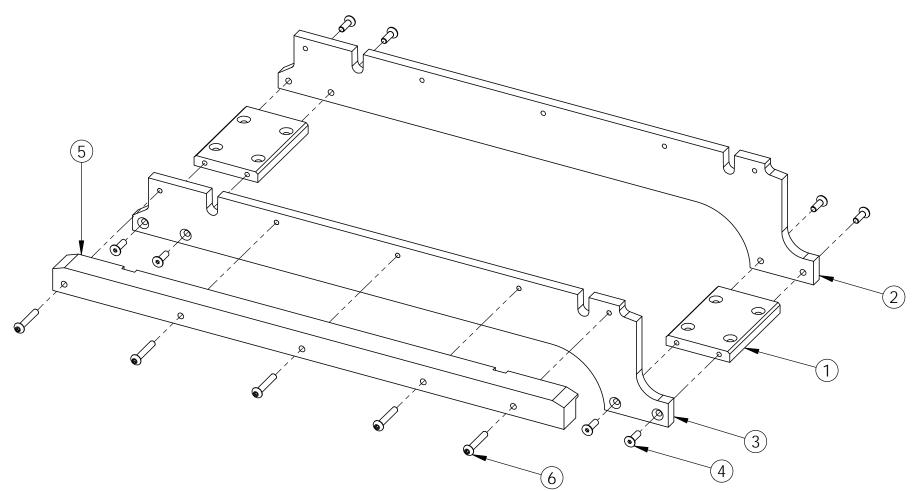


USM1216

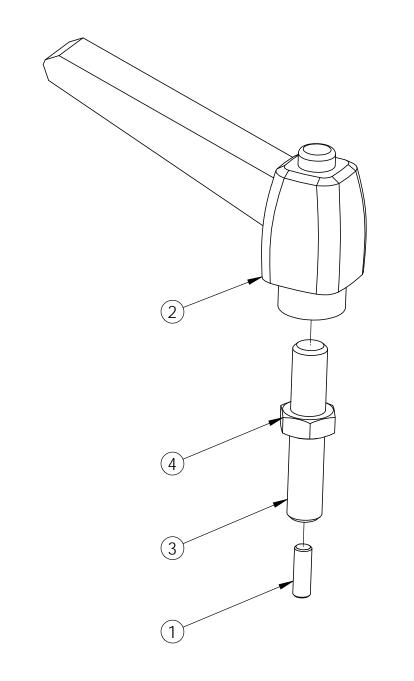
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	UPM6073	SLIDING TH BOX SHAFT	2
2	UPM6071	SLIDING BLOCK	4
3	UAM0330	SLIDING TAPE HEAD BOX LH	1
4	UAM0341	SLIDING TAPE HEAD BOX RH	1
5	LM25UU	LINEAR BEARING 25 mm	4
6	UF6382	HHCS M10-1.5 x 25 mm	4
7	UF3680	FW M10	4
8	UF6371	LW M10	4
9	UAM0009	LOCKING HANDLE SUB FOR COLUMN	4
10	UF5404	FHCS M5 - 0.8 x 16 mm	16



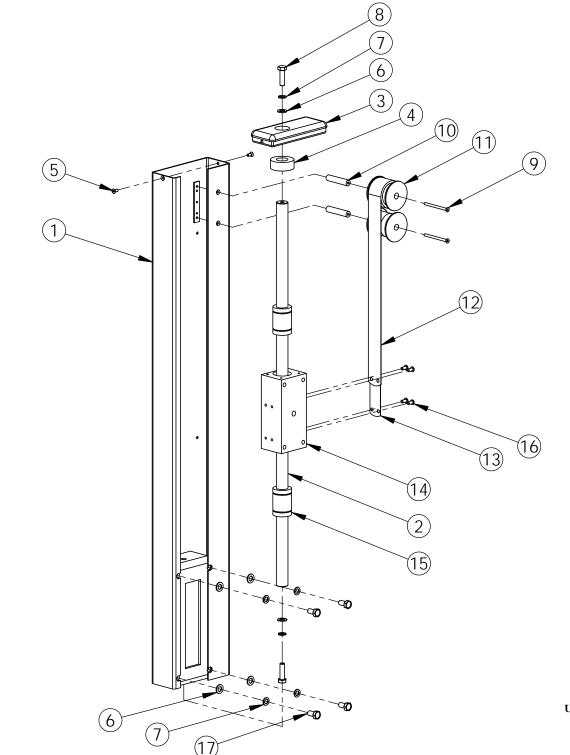
ITEM NO.	PART NUMBER	DESCRIPTION	Default /QTY.
1	UPM6068	TH BOX SUPPORT BLOCK	2
2	UPM6069	TAPE HEAD BOX SUPPORT RH	1
3	UPM6072	BOTTOM TH BOX SUPPORT LH	1
4	UF5404	FHCS M5 - 0.8 x 16 mm	8
5	UPM6070	TH BOX PAD RH	1
6	UF3093	M5-0.8 x 30 BHCS	5



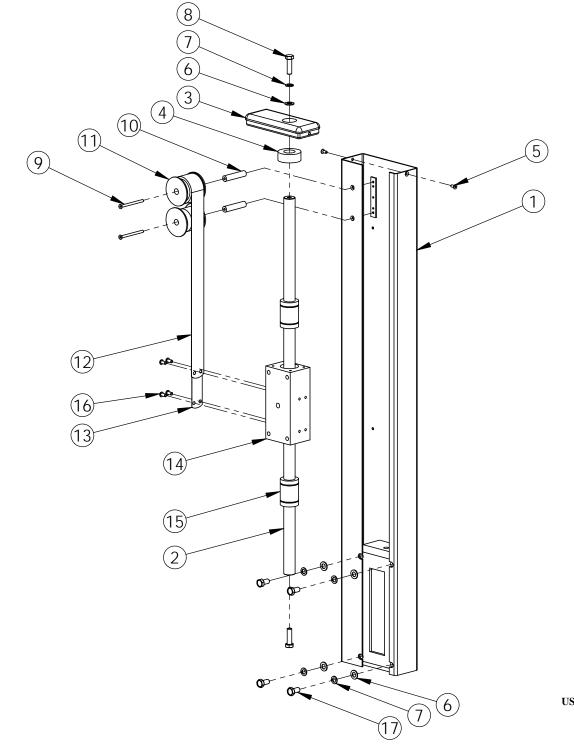
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	UPM6068	TH BOX SUPPORT BLOCK	2
2	UPM6069	TAPE HEAD BOX SUPPORT RH	1
3	UPM6072	BOTTOM TH BOX SUPPORT LH	1
4	UF5404	FHCS M5 - 0.8 x 16 mm	8
5	UPM4569	TH BOX PAD LH	1
6	UF3093	M5-0.8 x 30 BHCS	5



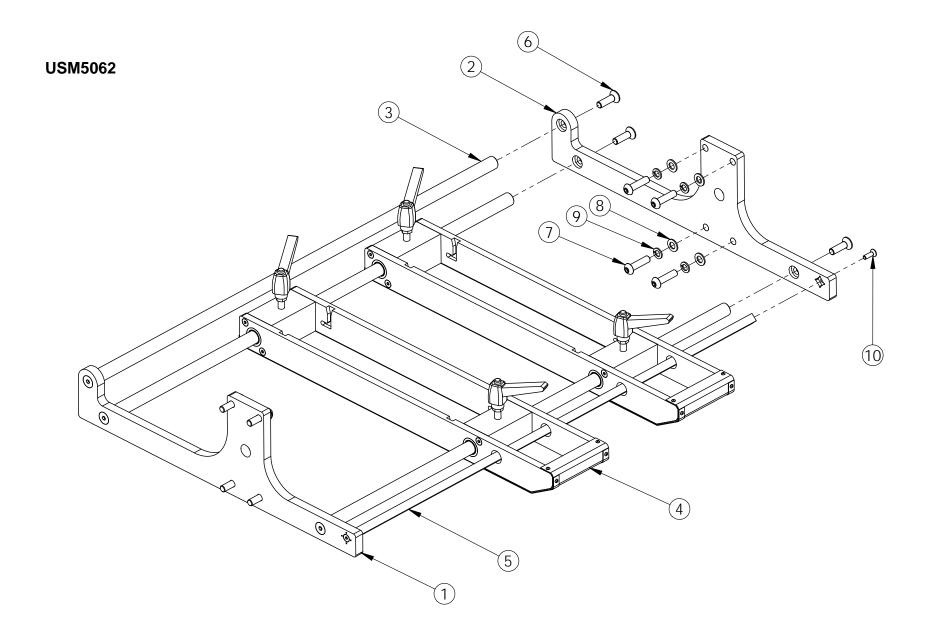
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	UPM0131	BRASS PIN	1
2	UPM0037	HANDLE ADJUSTABLE (COLUMN)	1
3	UF2136	ROD W/HOLE ZINC 3/8-16 X 2"	1
4	UF1610	HNJ 3/8-16	1



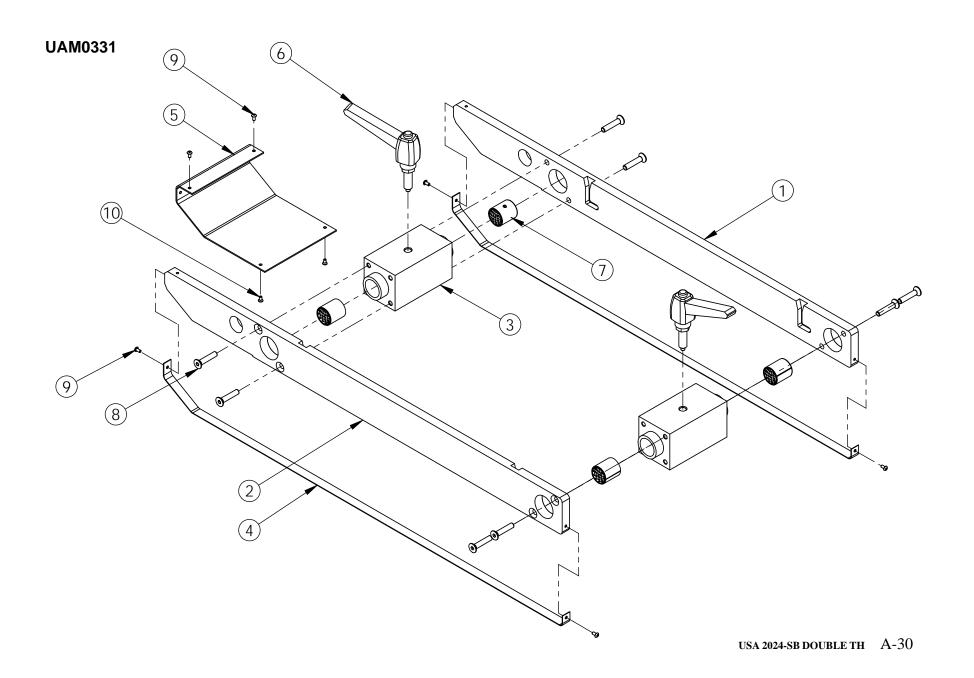
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	UPM9712	COLUMN 24 LEFT METRIC	1
2	UPM0738EV	COLUMN SHAFT	1
3	UPM0741EV	COLUMN CAP LEFT SIDE	1
4	UPM2251	SAFETY BUMPER	1
5	UF5400	FHCS M5-0.8 x 12 mm	2
6	UF3680	FW M10	6
7	UF6371	LW M10	6
8	UF0301	HHCS M10-1.5 x 35	2
9	UF1157	FHCS M5-0.8 x 70	2
10	UPM4210	SPRING MANDREL SHAFT	2
11	UPM0742	SPRING SPOOL	2
12	UPM2181	CONSTANT FORCE SPRING	1
13	UPM0328	CONSTANT FORCE SPRING	1
14	UPM9651	COLUMN BLOCK 40 mm BORE	1
15	LM 25UU	LINEAR BEARING 25 mm	2
16	UF3278	SS BHCS M6-1 x 12 mm	4
17	UF0457	HHCS M10-1.25 x 20 mm	4



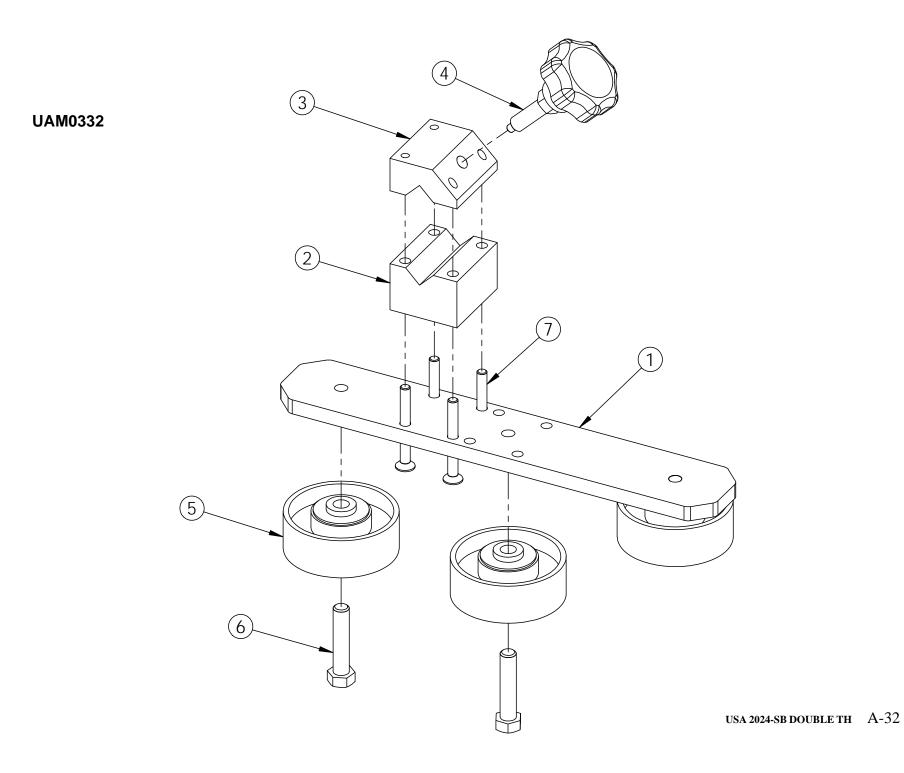
PART NUMBER	DESCRIPTION	QTY.
UPM9713	COLUMN 24 RIGHT METRIC	1
UPM0738EV	COLUMN SHAFT	1
UPM2182EV	COLUMN CAP RIGHT SIDE	1
UPM2251	SAFETY BUMPER	1
UF5400	FHCS M5-0.8 x 12 mm	2
UF3680	FW M10	6
UF6371	LW M10	6
UF0301	HHCS M10-1.5 x 35	2
UF1157	FHCS M5-0.8 x 70	2
UPM4210	SPRING MANDREL SHAFT	2
UPM0742	SPRING SPOOL	2
UPM2181	CONSTANT FORCE SPRING	1
UPM0328	CONSTANT FORCE SPRING	1
UPM9651	COLUMN BLOCK 40 mm BORE	1
LM 25UU	LINEAR BEARING 25 mm	2
UF3278	SS BHCS M6-1 x 12 mm	4
UF0457	HHCS M10-1.25 x 20 mm	4
	UPM9713 UPM0738EV UPM2182EV UPM2251 UF5400 UF3680 UF6371 UF0301 UF0301 UF1157 UPM4210 UPM0742 UPM0742 UPM0328 UPM9651 LM 25UU UF3278	UPM9713COLUMN 24 RIGHT METRICUPM0738EVCOLUMN SHAFTUPM2182EVCOLUMN CAP RIGHT SIDEUPM2251SAFETY BUMPERUF5400FHCS M5-0.8 x 12 mmUF3680FW M10UF6371LW M10UF0301HHCS M10-1.5 x 35UF1157FHCS M5-0.8 x 70UPM4210SPRING MANDREL SHAFTUPM0742SPRING SPOOLUPM0743CONSTANT FORCE SPRINGUPM0328CONSTANT FORCE SPRINGUPM9651COLUMN BLOCK 40 mm BORELM 25UULINEAR BEARING 25 mmUF3278SS BHCS M6-1 x 12 mm



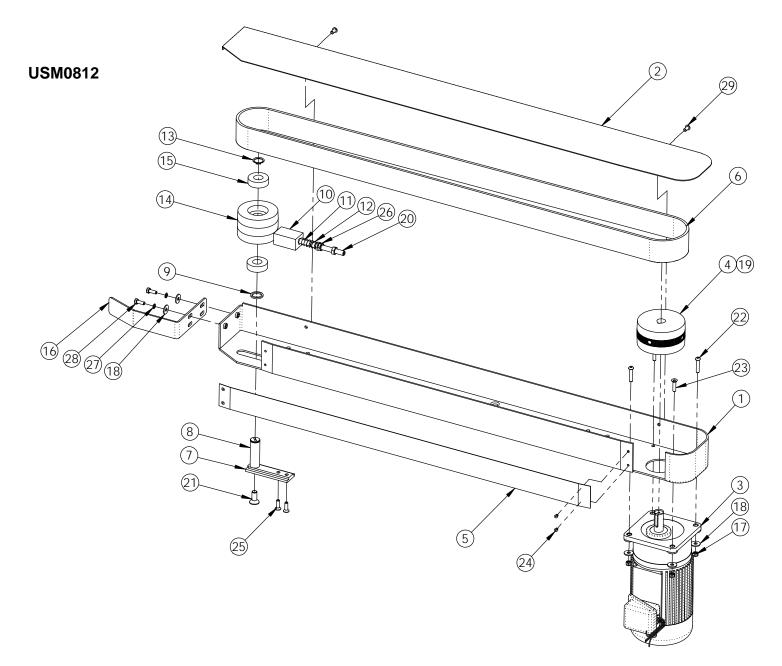
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	UPM7695	SUPPORT PLATE LH	1
2	UPM4539	SUPPORT PLATE RH	1
3	UPM7698	CROSS SHAFT TTHBOX	3
4	UAM0331	SLIDING TOP TH BOX	2
5	UPM4538	square bar	1
6	UF4313	FHCS M10-1.5 x 35mm	6
7	UF6384	BHCS M10-1.5 x 40mm	8
8	UF3680	FW M10	8
9	UF6371	LW M10	8
10	UF5402	FHCS M6 - 1 x 20	2



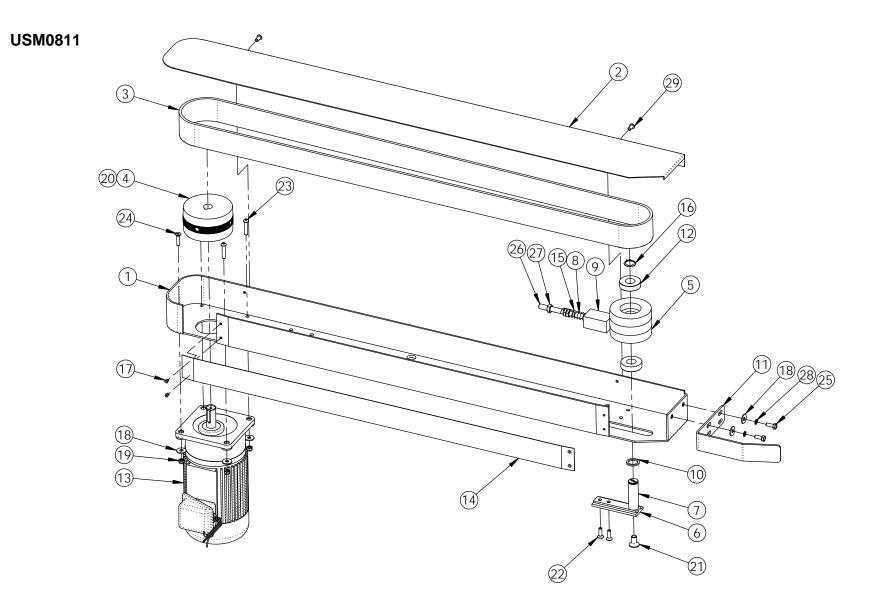
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	UPM7693	TH SUPPORT PLATE L.H.	1
2	UPM7694	TH SUPPORT PLATE R.H.	1
3	UPM7696	BUSHING HOUSING	2
4	UPM7699	ADHESIVE UHMW STRIP	2
5	UPM7697	NOSE PLATE	1
6	UAM0009	LOCKING HANDLE SUB FOR COLUMN	2
7	UPM4349	LINEAR BEARING 20mm	4
8	UF5402	FHCS M6 - 1 × 20	8
9	UF6385	BHCS M3 - 0.5 x 6	6
10	UF5420	FHCS M3-0.5 x 6 mm	2



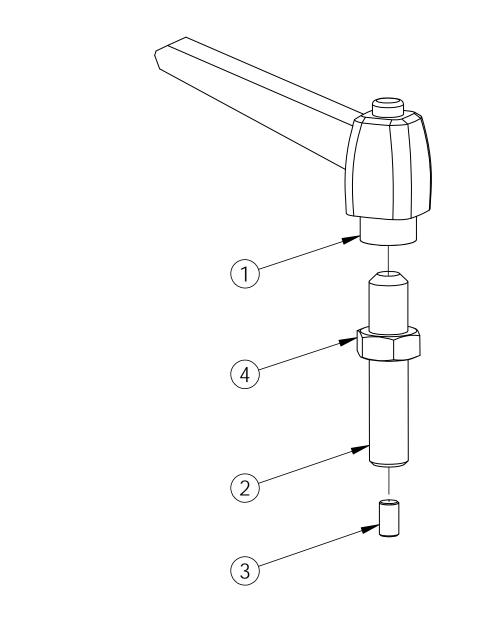
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	UPI0111	WHEEL SUPPORT PLATE	1
2	UPM3285EV	GUIDE BLOCK	1
3	UPM7538	GUIDE BLOCK TOP	1
4	UAM0288	KNOB CW 5mm PIN USA2324	1
5	UPM1659	WHEEL 2-7/8"DIA.COMPR.GUIDE	3
6	UF0240	HHCS 3/8-16 x 1.75	3
7	UF6373	FHCS M6 - 1 x 55	4



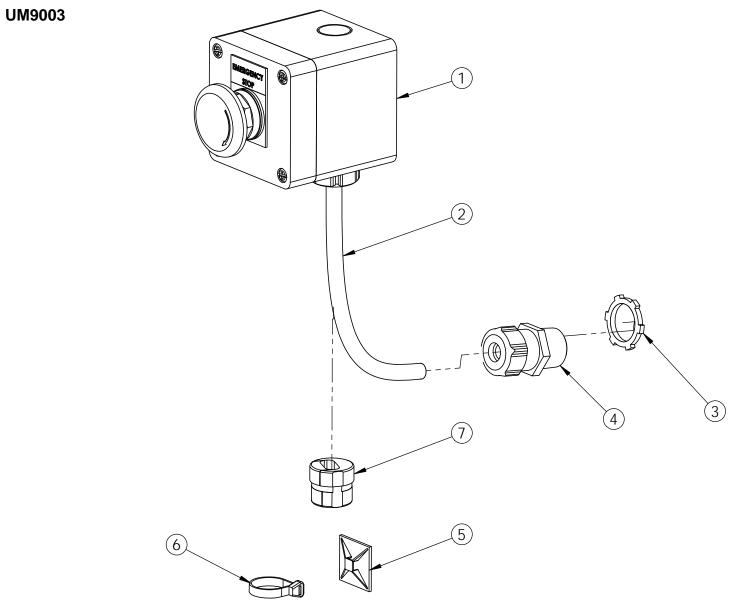
			1
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	UPM3283EV	DRIVE BASE LEFT SIDE	1
2	UPM3281EV	DRIVE BASE COVER LH	1
3	UPM7116	MOTOR 1/3HP 21.4 : 1	1
4	UPM0129EV	DRIVE PULLEY 50mm	1
5	UPM0029	STRIP UHMW 2" X .03"THK	1
6	UPM0663	BELT ENDLESS 50 x 2120 mm	1
7	UPM1879EV	TENSIONNER SLIDE	1
8	UPM1233EV	IDLER PULLEY SHAFT 50mm	1
9	UPM0109	IDLER PULLEY SPACER	1
10	UPM0101EV	TENSIONNER SPRING HOLDER	1
11	UPM0112	SPRING LOCATOR PIN	1
12	UPM0038	DIE SPRING (DRIVE BASE)	1
13	UF2220	EXT RET'G RING 3/4" SHAFT	1
14	UPM0259	IDLER PULLEY	1
15	UPM0324	BEARING, PULLEY	2
16	UPM0647	CARTON RETAINER	1
17	UF5900	NYLON LOCK NUT M6-1.0	4
18	UF1828	REG F.W. M6	6
19	UF3683	SSS M6 X 10mm	2
20	UF1400	SSS HK 3/8-16 X 3	1
21	UF1191	FHCS M10-1.5 x 25	1
22	UF3711	BHCS M6-1 x 30	3
23	UF1194	FHCS M6 - 1 x 25 mm	1
24	UF2080	POP RIVET S-44	4
25	UF5402	FHCS M6 - 1 x 20	2
26	UF1610	HNJ 3/8-16	3
27	UF6363	LW M6	2
28	UF0454	M6-1.0 X 16mm HHCS	2
29	UF1195	BHCS M6-1 x 12 mm	2



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	UPM3282EV	DRIVE SECTION, RIGHT SIDE	1
2	UPM3280EV	DRIVE BASE COVER RIGHT SIDE	1
3	UPM0663	BELT ENDLESS 50 x 2120 mm	1
4	UPM0129EV	DRIVE PULLEY 50mm	1
5	UPM0259	IDLER PULLEY	1
6	UPM1879EV	TENSIONNER SLIDE	1
7	UPM1233EV	IDLER PULLEY SHAFT 50mm	1
8	UPM0112	SPRING LOCATOR PIN	1
9	UPM0101EV	TENSIONNER SPRING HOLDER	1
10	UPM0109	IDLER PULLEY SPACER	1
11	UPM0647	CARTON RETAINER	1
12	UPM0324	BEARING, PULLEY	2
13	UPM7116	MOTOR 1/3HP 21.4 : 1	1
14	UPM0029	STRIP UHMW 2" X .03"THK	1
15	UPM0038	DIE SPRING (DRIVE BASE)	1
16	UF2220	EXT RET'G RING 3/4" SHAFT	1
17	UF2080	POP RIVET S-44	4
18	UF1828	REG F.W. M6	6
19	UF5900	NYLON LOCK NUT M6-1.0	4
20	UF3683	SSS M6 X 10mm	2
21	UF6397	FHCS M10-1.5 x 20	1
22	UF5402	FHCS M6 - 1 x 20	2
23	UF3711	BHCS M6-1 x 30	3
24	UF1194	FHCS M6 - 1 x 25 mm	1
25	UF0454	M6-1.0 X 16mm HHCS	2
26	UF1400	SSS HK 3/8-16 X 3	1
27	UF1610	HNJ 3/8-16	3
28	UF6363	LW M6	2
29	UF1195	BHCS M6-1 x 12 mm	2



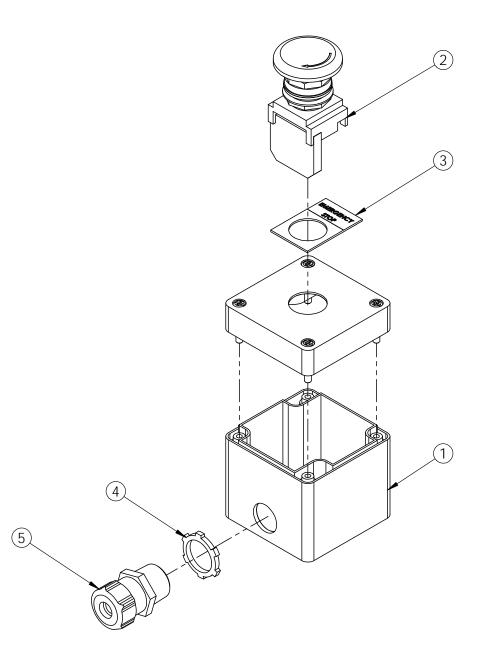
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	UPM1169	ADJUSTABLE HANDLE	1
2	UF3720	SSS 1/2-13 x 2.5in	1
3	UPM4542	BRASS PIN	1
4	UF1650	HEX JAM NUT ZINC 1/2-13	1



UM9003

ITEM	PART #	DESCRIPTION	QTY.
1	USM8075	SECOND E-STOP BOX FOR USA	1
2	UPM0225	CABLE 18/3 TYPE SJ	1
3	UPM0341	LOCKNUT 1/2"(FOR STRAIN RELF)	1
4	UPM0197	STR.RELF METL.LIQDTGHT 1/4-3/8	1
5	UPM0200	MTG. CLAMP, ADH.1.2"X1.2"	1
6	UPM0222	TY-RAP,5.5"X.14"	1
7	UPM0285	STRAIN RELIEF, NON-METAL	1





ITEM	PART #	DESCRIPTION	QTY.
1	UPM7293	ENCLOS PB 1 HOLE NON METAL	1
2	UPM2211	BUTTON MUSHROOM 22mm 1 N.C.	1
3	UPM2209	LEGEND PLATE "E-STOP"	1
4	UPM0341	LOCKNUT 1/2"(FOR STRAIN RELF)	1
5	UPM0197	STR.RELF METL.LIQDTGHT 1/4-3/8	1

