

# TPMI

## CORPORATION

Producing standard and custom automation equipment for the food, pharmaceutical, and manufacturing industries.



Note: Guard doors removed for photo.

### **1800 GS**

#### **Horizontal Case Packer**

Up to 25 Cases per minute

Products Run: • KD Cases • Display Cases • HSC Cases

**Cartoning • Casepacking • Automation • Custom Designs**

### **TPMI CORPORATION**

6520 Edenvale Blvd. Suite 104B • Eden Prairie, MN 55346  
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# 1800 GS up to 25 cases per minute

## 1800 GS Features

Also available in stainless steel construction and stainless steel nema 4x construction.

### 1. POWERED MAGAZINE

48", 72" or custom length

### 2. CASE HOLDER ARM

Holds cases during reload

### 3. GLUE TIMING

Controlled through touch screen

### 4. PROTECTIVE COVER FOR TOUCH SCREEN

### 5. POWERED CASE HOLDBACK FINGERS

### 6. POSITIVE CASE

Squaring and compression

### 7. POWERED CASE CONFINEMENT RAIL

For easy removal of cases

### 8. CAPTURED FLIGHT CHAIN

Just prior to compression, this feature plus the overhead squaring produces a very square case every time.

### 9. EASY TO LOAD GLUE SYSTEM

Protected inside frame

### OTHER FEATURES:

#### FULL LENGTH GUARDING

For superb access

#### MAIN DRIVE SERVO

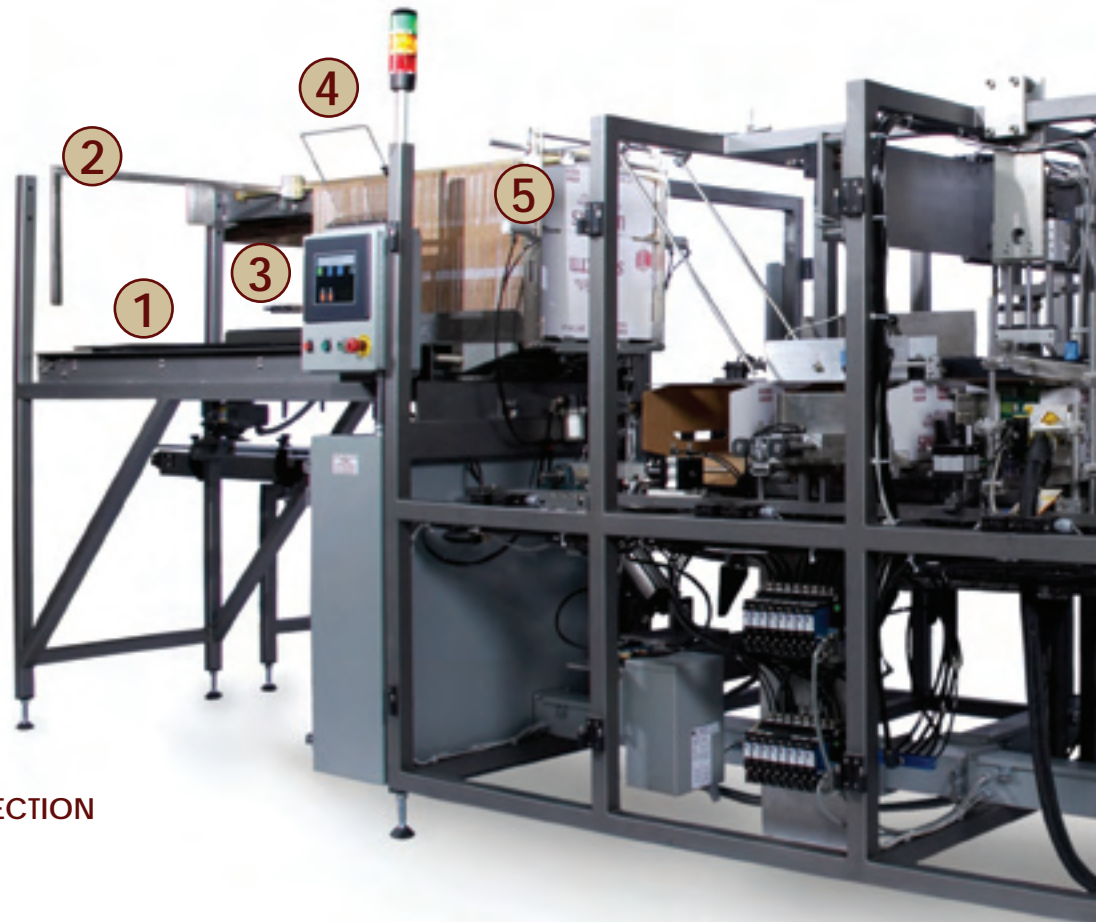
For smooth indexes

#### ADJUSTABLE LOAD JAM PROTECTION

#### FAULTS AND WARNINGS

- low glue warnings
- glue not up to temperature
- load jam fault
- index jam fault

The engineers at TPMI have carefully studied the other manufacturers of horizontal casepacking machinery. We have seen many different ways of doing things, from simple to more complex. The 1800 GS casepacking machine is the culmination of ideas from operators, maintenance and plant level engineering personnel.



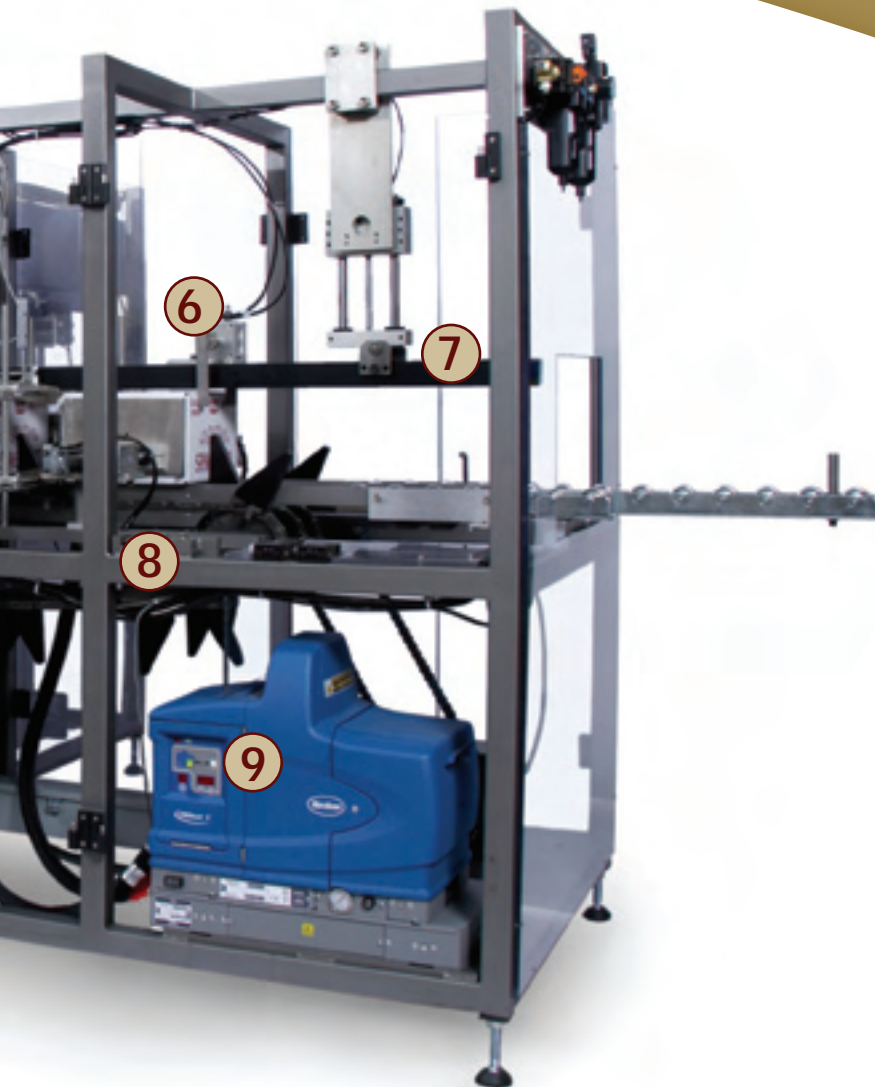
The following list of packaging machine requirements comes from these people — requirements that we've listened to and acknowledged, then we've improved upon.

1. The machine must be easy to run.
2. The machine must be accessible.
3. The program must be simple, and must recover from an e-stop with minimal operator intervention.
4. The case magazine must be easy to reload.

# 1800 GS Highlights

## Touch Screen Features:

- **FAULT INDICATOR**
  - load jam
  - index faults
  - low glue
- **MAINTENANCE**
  - time intervals
  - case counts
  - total counts
  - low magazine
  - low glue
  - glue not up to temperature
  - all valves can be fired through the touch screen for troubleshooting.
- **GLUE TIMING**
  - controlled and easily changed through the touch screen.
- **CASE HOLD BACK FINGERS**
  - timed through touch screen
- **PRODUCT PARAMETERS**
  - product change-over parameters



5. Accessories such as glue systems, touch screens, and cylinders should be protected, or be inside the machine's framework.
6. The case indexing chain should be heavy duty.

The TPMI casepackers are well thought out and designed well. They are easy to operate, have superb accessibility and are built very heavy duty for years of dependable service.



Infed, Upstacker, and Loader



Progressive Tier Upstacker

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# 1800 GS Features Expanded Explanation

- 1. POWERED MAGAZINE** 48", 72", or custom length.
- 2. CASE HOLDER ARM** Holds the cases during reload, allowing the operator to keep the cases in the powered magazine from falling over during a reload. Both of the operator's hands can concentrate on loading the KD blanks into the magazine.
- 3. GLUE TIMING** Controlled through touch screen.
- 4. PROTECTIVE COVER FOR TOUCH SCREEN**
- 5. POWERED CASE HOLDBACK FINGERS** Helps open the hard-to-open display and KD cases. The timing is done through the touch screen so you do not have to manually adjust anymore. Opposed Vacuum is used for higher speeds.
- 6. POSITIVE CASE SQUARING** Just prior to

compression, the overhead squaring of the cases ensures a square case every time. This makes for more efficient automatic palletizing.

- 7. POWERED CASE CONFINEMENT RAIL** With the flip of a switch, the powered top case confinement rail moves upward for easy removal of a jammed case.
- 8. CAPTURED FLIGHT CHAIN** The flight chains are captured and there is an extra attachment for the flight to rest on keeping it square, thus giving you squarely sealed cases. This also eliminates the need for chain tensioning, and in turn eliminating excessive chain stretching. Just prior to compression, this feature plus the overhead squaring produces a very square case every time.
- 9. EASY TO LOAD GLUE SYSTEM** Tucked inside the machine's frame to prevent an overly aggressive forklift driver from damaging the unit. It is also easy to access and load.

## Other Features

**FULL LENGTH GUARDING** Maintenance Personnel please take note! The full length guarding gives you superb access to both the top and the bottom of the machine.

**TOUCH SCREEN CONTROL** The touch screen control is protected with a Lexan cover, preventing damage from broom handles and other unexplained phenomenon.

**ADJUSTABLE LOAD JAM PROTECTION** The Load Jam Sensor allows the operator to set the exact point at which the sensor will create a fault and stop the machine,

preventing damage to the product and to the machinery.

### FAULTS AND WARNINGS

(Indicated by Beacon and Touch Screen)

- low glue warnings
- load jam fault
- glue not up to temperature
- index jam fault

### POWERED INFEEED BACK PRESSURE CONTROL WHEELS

The wheels help decrease back pressure during collating and help increase back pressure when the cartons enter the collator.

Note: Not to Scale

**Electrical Requirements:**  
480v 3-phase,  
230v 3-phase power

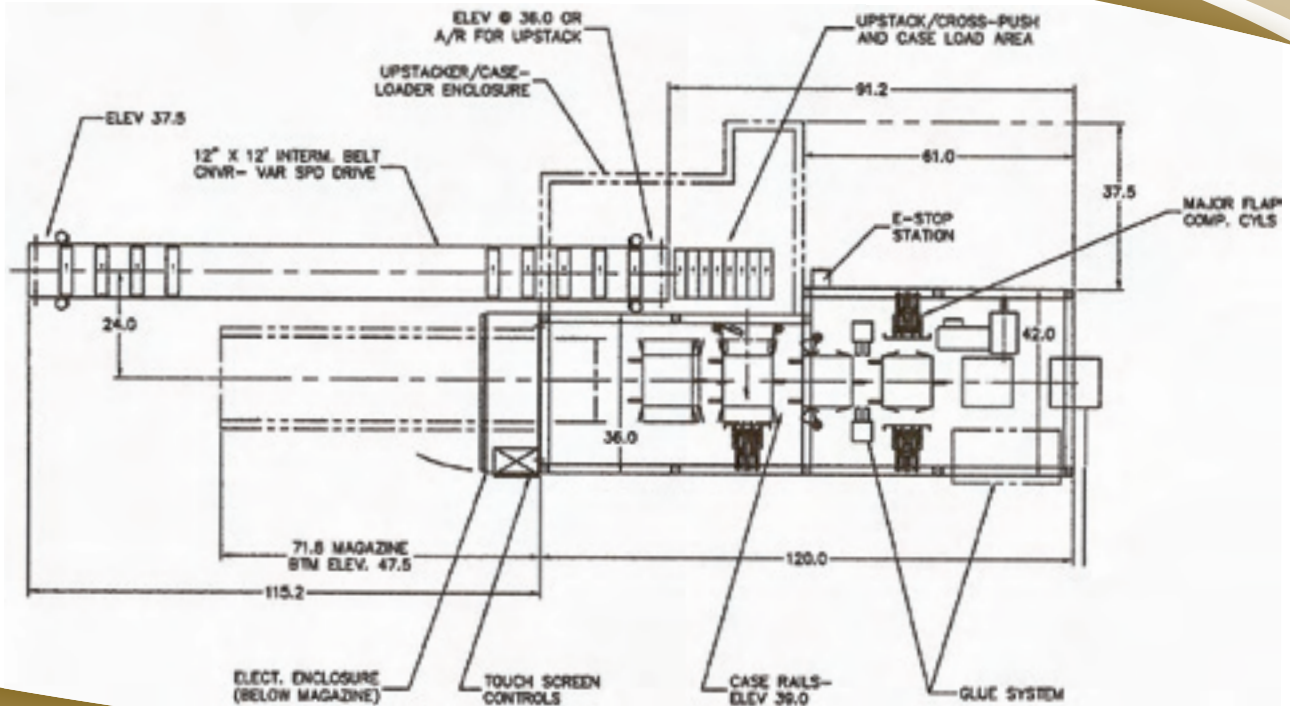
**Controls:**  
24v

**Air Requirement:**  
8-10 CFM clean dry air

**Closure - Glue/Tape Note:**  
A separate electrical drop is recommended for the glue system (230v 3-phase power)

**Machine Index Pitches:**  
18", 24" and 30" available

**Construction:**  
Painted mild steel or stainless steel



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