

PLT:

The Workpiece Pallet

The Pallet:

Glide-Line™ pallets work as a carrier for work pieces as they move around a conveyor system. Pallets can be tooled with custom fixturing components to secure work pieces as they are handled. Each pallet contains a set of four precision bushings for exact pallet location at each workstation by means of our Lift and Locate Units.

Pallets also include a set of zinc exciter plates on the side and on the bottom of each corner. These plates can be used for pallet detection when used with a proximity sensor.

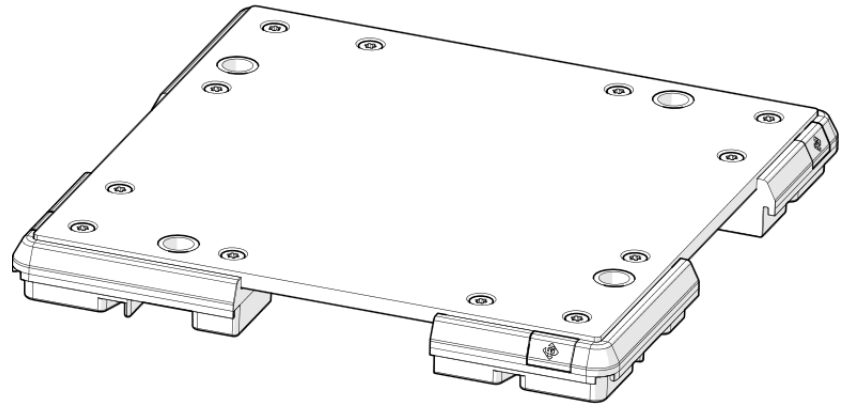
Pallet Bumpers are manufactured from abrasion and impact resistant plastic. Bumpers offer mild chemical resistance, but if custom machining is completed on the pallets, it is recommended bumpers are removed prior to machining.

Current standard pallets offered are:

- .19" (4.8mm) thick Carbon Steel
- ¼" (6.4mm) thick Tool and Jig Aluminum
- ½" (12.7mm) thick Tool and Jig Aluminum

Pallets are provided with no anodize or finish, as it is assumed that secondary processes will be completed by user.

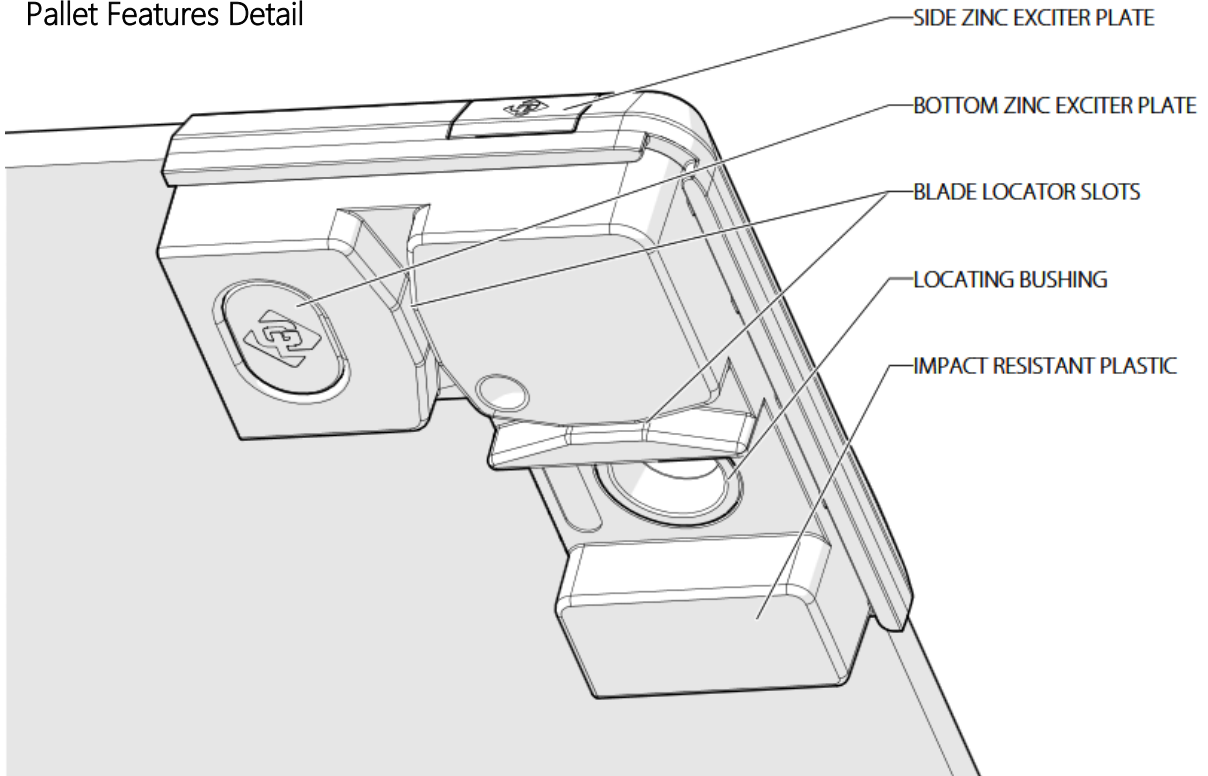
Glide-Line™ is proud to offer custom machining and finishing services for our range of pallets. For our applications department to quote, we will require a preliminary drawing of the requested features, as well as any special finishing specified. Custom features may add to lead times.



Part Number: PLT-(A)-(B)-(C)-(D)-(E)-(F)

- A** = Width as conveyed from 160mm to 1040mm in 1mm increments
- B** = Length as conveyed from 160mm to 1040mm in 1mm increments
- C** = Pallet Thickness in mm
- D** = TJ for Tool and Jig Aluminum Plate, CS for Carbon Steel
- E** = SL for Slide Rails between bumpers, NR for no rails

Pallet Features Detail

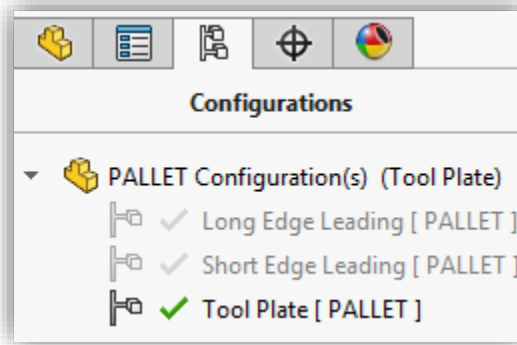


Width (mm)	Length (mm)	Flatness Tolerance (mm)
160	160	0.3
160	240	0.3
160	320	0.3
160	400	0.3
160	480	0.3
240	240	0.3
240	320	0.5
240	400	0.5
240	480	0.5
320	320	0.5
320	400	0.6
320	480	0.6
400	400	0.6
400	480	0.6
480	480	0.8

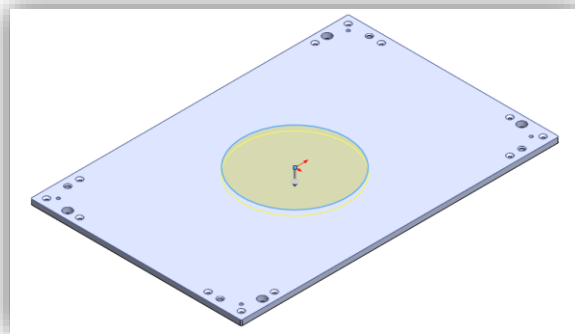
**Additional pallet sizes and tighter flatness tolerances available upon request*

Custom Pallet Machining Request Process

1. Obtain a SolidWorks part file (*.SLDPRT) of a Glide-Line Workpiece Pallet – this can be done one of two ways:
 - a. Using the [Glide-Line IMPACT configurator](#), create and import a pallet model into SolidWorks
 - b. Contact a Glide-Line Application Engineer to obtain a pallet model of your desired size
2. Isolate the pallet tool plate by navigating to the Configuration Tree in SolidWorks and selecting Tool Plate configuration. This will remove the additional pallet features (bumpers, hardware, etc) that interfere with our programming. See below for reference:



3. Proceed to modify the Tool Plate configuration of the pallet using SolidWorks' sketch/features tools



4. Save the Tool Plate configuration as a Parasolid (*.X_T) file, and send the file to Glide-Line Applications Engineer
5. In addition to the Parasolid file of the Tool Plate, Glide-Line requires a 2D drawing that specifies all tolerances and special callouts