

Upper platen or Plug Data sheet

Plug Option 1 (manually adjusted)

This plug assembly can be modified to fit any existing sized machine. This is the simplest and cheapest form of plug assembly and can be suited to any size of tooling and coverage required. The assembly is guided by two spherical ground rods running in two sets of linear synthetic bearings, which are resistant to dust and chemicals. The bearings are spaced to give good stability. The down position is controlled by two threaded shafts carrying stops nuts that are adjustable over its full stroke. The tooling plate is an open type laser cut plate giving various fixing positions. The assembly is code welded and sprayed with a Hammerite finish.

The plug is generally supplied with a single double acting cylinder sized to suit the lifting capacity required. The cylinder has a two speed operation for setting and production. It comes with input feed back for up and down positions.

Minimum maintenance required. Quarterly annual cleaning of the guide shafts with light oiling.

Health & Safety regulations require you to take precautions when adjusting the stop positions. It may be necessary to wear a harness or install a fixed gantry. The stops should never be adjusted without isolating the machine. The cylinder comes with a guard operated chocking valve.

12 months onsite warranty. Extendible to 60 months on application.

Plug Option 2 (electric stops)

This plug assembly can be modified to fit any existing sized machine. The basic components are the same as the manually adjusted plug but with the added bonus of electrical stop positions. This can be suited to any size of tooling and coverage required. The assembly is guided by two spherical ground rods running in two sets of linear synthetic bearings, which are resistant to dust and chemicals. The bearings are spaced to give good stability. The down position is controlled by motorized down stops platen with low noise timing. You simply drive the tool plate with push buttons to the desired operating height and then request "SET STOPS". The stops are automatically driven to position. They can be adjusted whilst the machine is in operation. The tooling plate is an open type laser cut plate giving various fixing positions. The assembly is code welded and sprayed with a Hammerite finish.

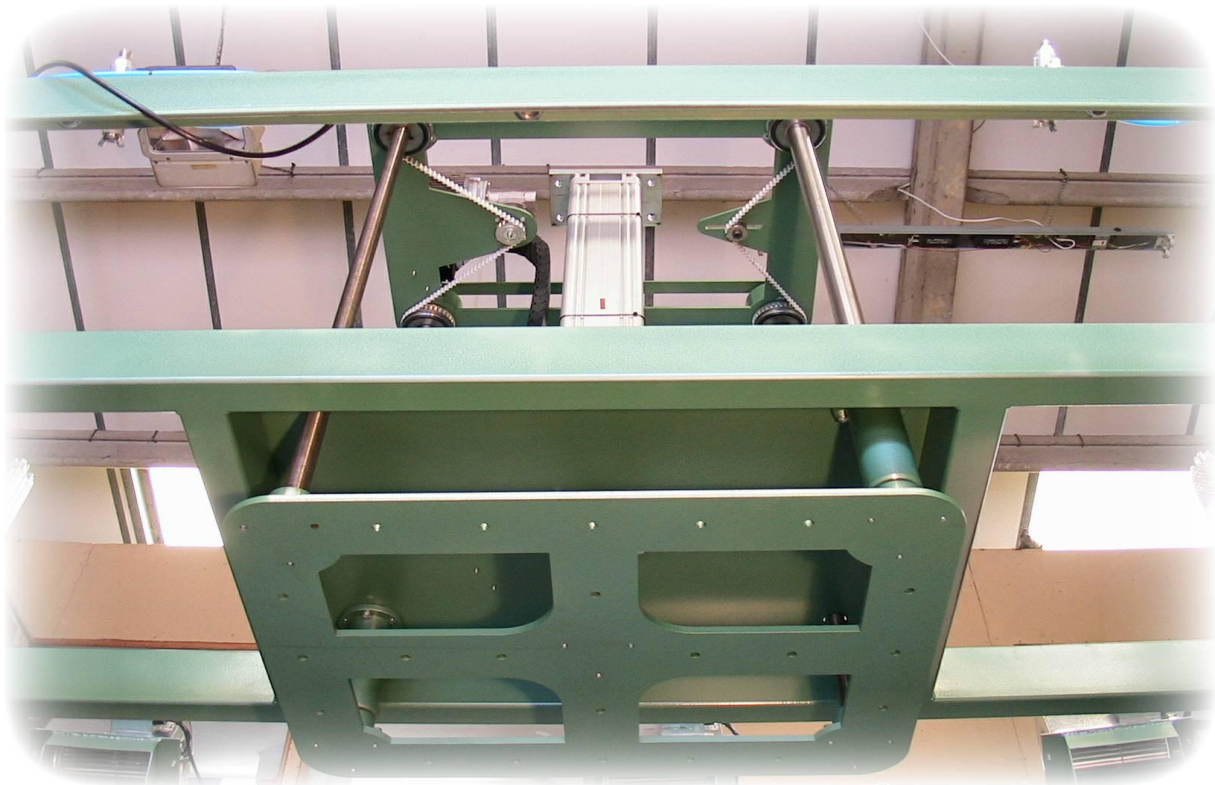
The plug is generally supplied with a single double acting single cylinder sized to suit the lifting capacity required. The cylinder has a two speed operation for setting and production. It comes with input feed back for up and down positions.

Minimum maintenance required. Quarterly annual cleaning of the guide shafts with light oiling. Requires quarterly greasing of the stop bearing hubs.

This system meets all health and safety criteria and can be adjusted "on the fly". The cylinder comes with a guard operated chocking valve.

12 months onsite warranty. Extendible to 60 months on application.

An example of a pneumatic plug with motorized stop platen.



Plug Option 3 (Closed loop Servo)

This plug assembly can be modified to fit any existing sized machine, but requires PLC control. This is the most advanced type of plug. The assembly is guided by two spherical hardened ground rods running in two sets of sealed linear bearings. The bearings are spaced to give good stability. The motion of the plug is controlled by two precision ball screws driven by a timing belt connecting a high powered DC motor giving 100% torque at zero R.P.M. The tooling plate is an open type laser cut plate giving various fixing positions. The assembly is code welded and sprayed with a Hammerite finish.

The plug is controlled by a closed loop MITSUBISHI drive giving an accuracy of 100th of a millimetre. This is sized to meet the loads and speeds required. The down position is recordable in the M.M.I (See M.M.I. data sheet) along with acceleration and de-acceleration parameters and an infinite amount of speed settings.

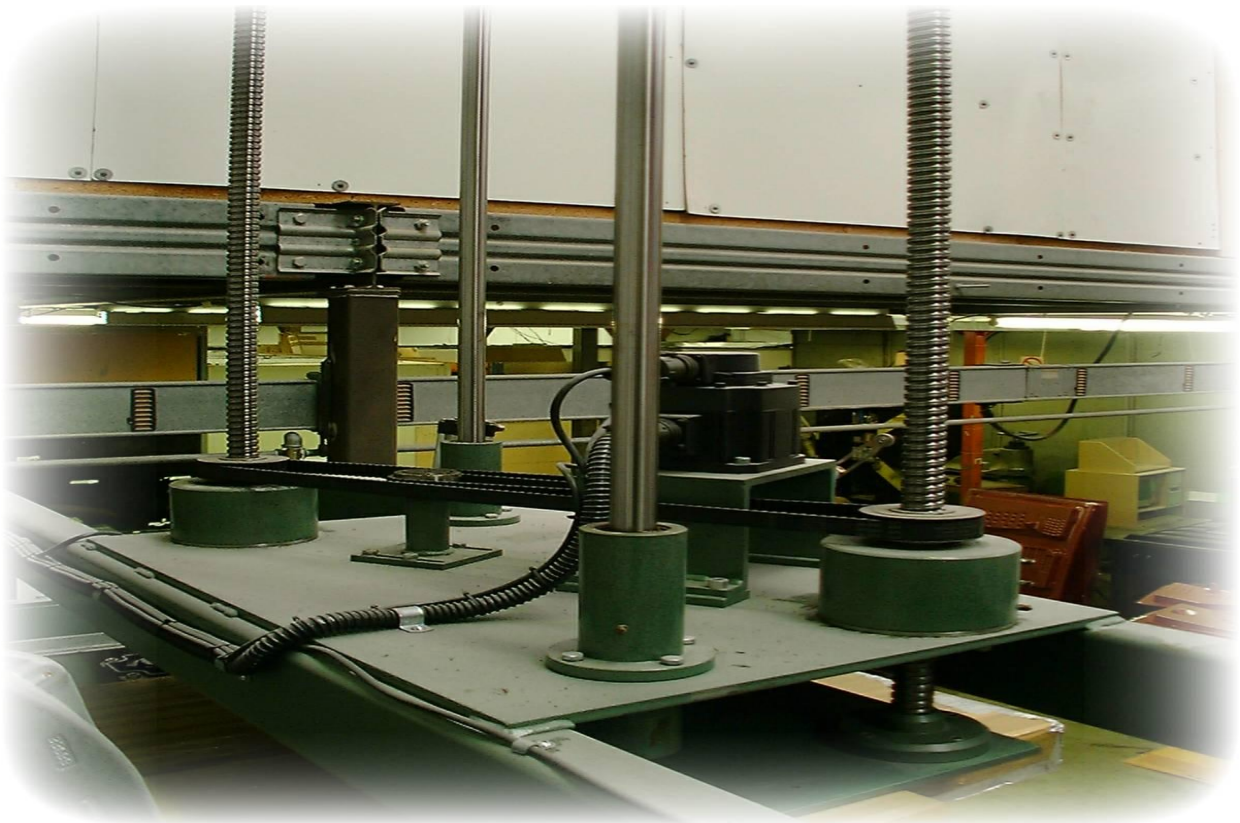
The system requires no air for actuation as so is extremely power efficient.

Minimum maintenance required. Quarterly annual cleaning of the guide shafts with light oiling. Requires quarterly greasing of the bearing hubs.

This system meets all health and safety criteria and can be adjusted “on the fly”. The power to the unit is CAT 4 protected.

12 months onsite warranty. Extendible to 60 months on application.

An example of a closed loop servo plug



We design and build at our factory to the highest standards and can accommodate any request or modification you require.

We are able to offer various refurbishment and upgrades options to existing plugs to meet latest health and safety criteria.