



## KNOWLEDGE BASE

Article Type: Instructions

### Safety Beam Stops for, CPM Models 30, 40, 50, and 60 machines

#### Description:

Safety Beam Stop kit for CPM models 30, 40, 50 and 60 machines. The installation and use of the new stripper and compression beam stops is to maintain the stripper and compression beams up during maintenance or other repairs.

The beam stops are a positive stop between compression beam a stripper beam, and stripper beam and base.

#### **WARNING**

Never work on, clean or service this unit, control panel or any machine or open or remove any protective cover, guard, grate, door, or maintenance panel until the power or energy sources has been turned off, locked out / tagged out, and all moving parts have come to a complete stop and or blocked to prevent movement. Machinery is dangerous - avoid personal injury and or death by following manufacture, Local, and OSHA safety procedures. Contact Columbia Machine for safety decals, guards, horns and beacons.

## ***SAFETY BEAM STOPS***

### **STRIPPER BEAM AND COMPRESSION BEAM STOPS FOR CPM MACHINES, MODELS 30, 40, 50 AND 60**

**Safety First:** Always follow your safety guidelines for system lockout/tagout of electrical panels, pneumatic and the hydraulic system.

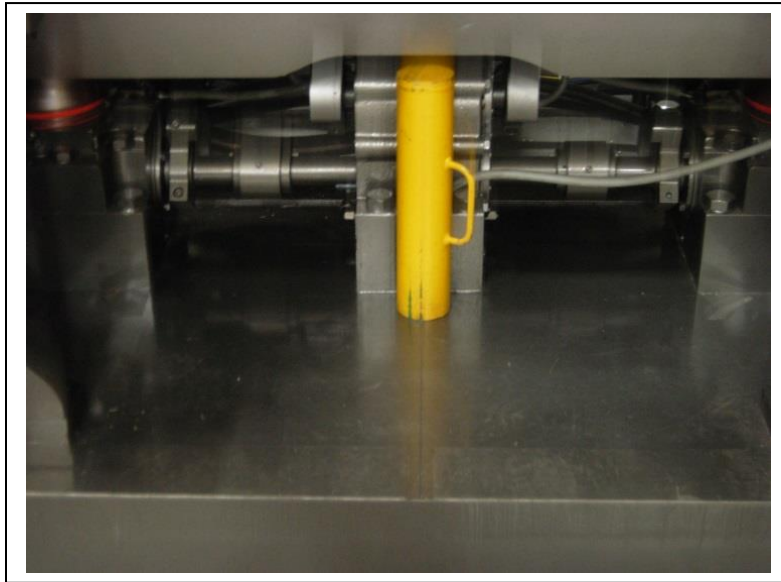
The installation and use of the new stripper and compression beam stops is to maintain the stripper and compression beams up during maintenance or additional repairs and adjustments that require plant personnel to be working in and around the machine with the beams in the up position. The hydraulic circuit for the stripper and compression beams have a counterbalance valve. These valves hold oil on the base end of both sets of cylinders until the valve is energized down which uses pilot pressure to open counterbalance valve. In the event that one or both stripper and compression cylinders are allowing hydraulic oil to bypass the piston seals, the beams will drift down slowly or fast depending on the condition of the seals. Other hydraulic failures can cause the beam to not stay up which could include failure of the counterbalance valve.

The beam stops are a positive stop between the compression beam and stripper beam, and stripper beam and base, which in the event that either loss of hydraulics, failure to the stripper or compression cylinders or counterbalance valve the beam stops will maintain beam in up position.

Shown on next pages is the correct way to install and use the safety beam stops on your CPM machine.

## Stripper Beam Stop

Start the pump, place machine in slow mode. Raise the compression and stripper beams. Place the stripper beam safety stop in the center, between the stripper beam and on the base plate, and lower beam onto safety stop.



## Compression Beam Stops

For the compression beam; place a safety beam stop on each side, between the height stop pin and base. Lower the compression beam onto the safety stops.



Now turn off pump. With these Safety stops installed, you can now perform maintenance in a safe manner without the beams falling from a mechanical failure or defect. Cylinders can also be removed without stored energy

For more information or to order a set of beam stops please contact Columbia Machine, Inc. Parts department 1-800-628-4065.