

# High Capacity Feeder Module - Feedhead / Vacuum Box

## Feedhead / Vacuum Box

The main element of the feed head assembly is an articulating rectangular vacuum box. The lower surface of the box (the one that faces the stack) has several large vacuum openings and it is ribbed to corrugate the sheet that is being fed to strengthen it and to minimize multifeeds. A vacuum valve, (Blower Motor /Blower and 2 home position sensors) switches vacuum on and off as required.

The ribbed surface is covered with a replaceable membrane (the green 'acquisition surface' in the illustration above) that has numerous small holes which distribute the vacuum in a particular pattern. The membrane is flexible enough so that when vacuum is applied, it will conform to the ribs to ensure that the sheet being fed will be corrugated. The range of the holes is adequate to provide proper vacuum for the largest sizes of stock specified for the HCF. To accommodate smaller stock sizes, a clip-on plate is provided to cover a section of the holes at the inboard end of the feed head. (The stack is biased outboard.)

