



## ***Dixon Helps Saturn Solve Instrument Panel Production Problem***



Saturn, Division of General Motors Corporation needed a highly flexible and productive method of placing Pal Nuts into Instrument Panels. Saturn needed the ability to adapt to product changes quickly and inexpensively.

An assembly cell concept was developed based around a six-axis robot and two panel holding fixtures. The dual fixture concept allowed panel removal and loading while an instrument panel was being assembled.

A Dixon Auto-fed Model AP 171 Part Placer was selected as end-of-arm tooling for the robot to place the Pal Nuts at various positions in the panels. Dixon's Model AP-171 Pal Nut Placer was fed by a stand alone feed system for the Pal Nuts. The Pal Nuts are oriented and fed into a Trav-A-Track attached to the placer head and it is filled during periodic docking cycles with the feed system. The Trav-A-Track system enables the robot to carry multiple Pal Nuts to the instrument panel for assembly without the need to continuously return to the feed system for additional Pal Nuts. Saturn achieved their required production rate of placing (1) Pal Nut per second.

To learn more this application, contact your location Dixon Automatic Tool, Inc. Factory Representative or contact us at [www.dixonautomatic.com](http://www.dixonautomatic.com).