Orbital drilling of large panels, component parts for the wings and the fuselage.

WattPilote provides a significant improvement in reliability and cycle time on all orbital drilling machines.

▶ Optimized drive speed time
The exact position of the panel surface is unknown. Nevertheless, WattPilote detects the moment of contact between the tool and the part. The distance between the safety margin and the panel is traversed at drive speed, which is 2 to 3 times faster than the drilling speed.

▶ Optimized drilling time
WattPilote detects the moment of complete drilling and stops the machining cycle immediately: the drilling unit returns instantly and the next drilling cycle is started.

▶ Quality control
WattPilote ensures that all drilling operations are executed correctly.

Gain in time – Guaranteed Quality – Cost savings

<table>
<thead>
<tr>
<th>Machining cycle time</th>
<th>9.43 s</th>
<th>7.07 s</th>
<th>9.43 s</th>
<th>7.82 s</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time saved</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>25 %</td>
<td></td>
<td>17 %</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Test conditions: Gain in cycle time according to variation in panel position
Panel depth: 10 mm
Drive: F = 300 mm/imin
Safety margin: 1 mm
Work: F = 100 mm/imin
Positioning variation: 3 mm
Return: F = 1200 mm/imin
Bore diameter: 0.5 mm

Orbital drilling