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Functions

 <p>Liquidity</p> <p>Adjusting the pitch of hole diameter allows liquids or gasses to pass through while maintaining material strength.</p>	 <p>Lightness</p> <p>When the lightweight design is required, the weight can be adjusted by hole drilling.</p>	 <p>Design</p> <p>Beautiful graphic design is possible through precise hole drilling technology.</p>	 <p>Heat dissipation</p> <p>Drilled holes in the unventilated places provide heat dissipation.</p>
 <p>Conductivity</p> <p>Plating inside holes allows electrical conductivity to travel through the hole.</p>	 <p>Permeability</p> <p>You can see the other side through the holes. The light can be controlled by adjusting the hole pitch.</p>	 <p>Sound absorption</p> <p>When sound passes through the holes, it creates sound absorption effect. Setting to an appropriate pitch can maximize the results.</p>	 <p>Breathable</p> <p>By opening the holes, air can pass through a flat surfaced material. Breathable material has many usages for various products.</p>



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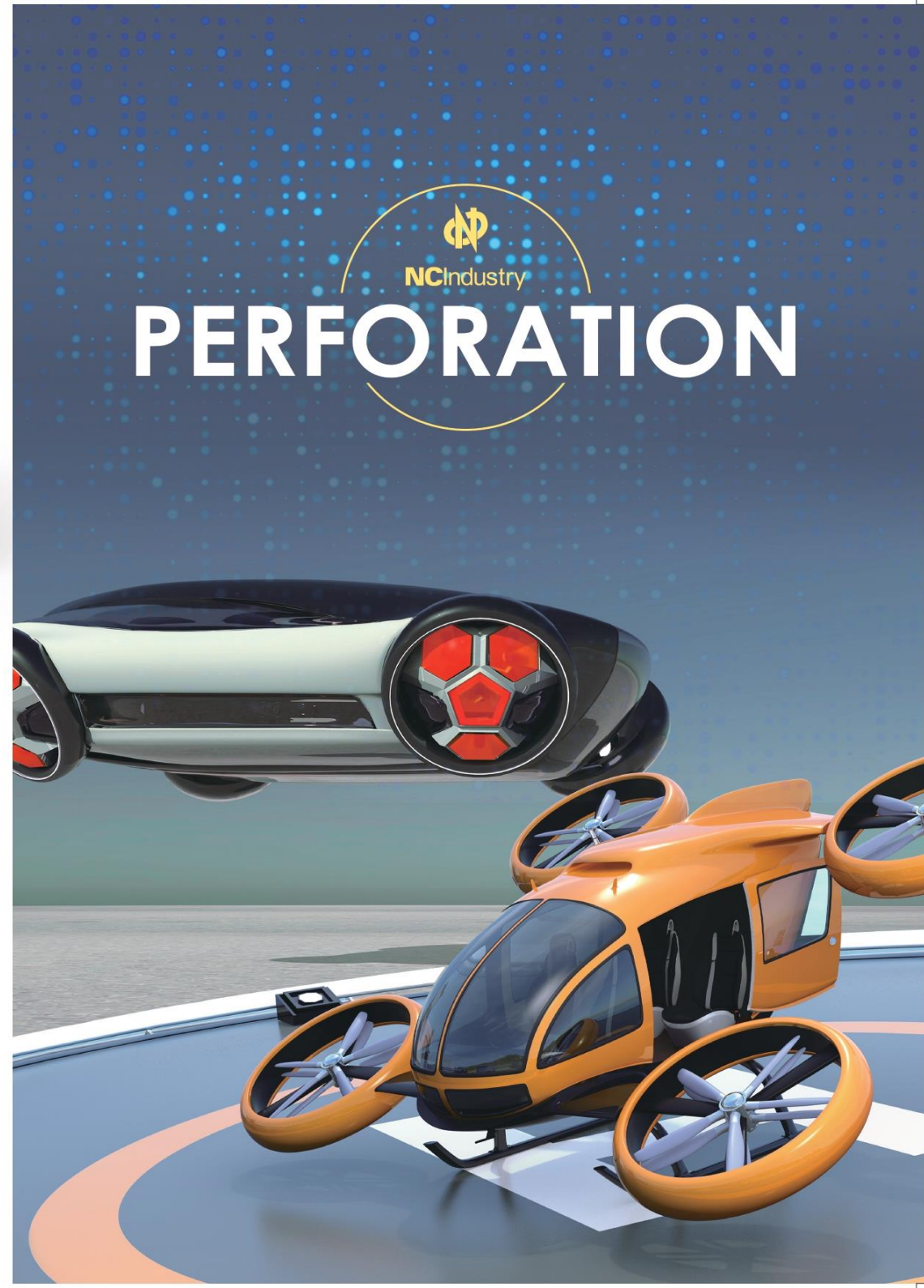
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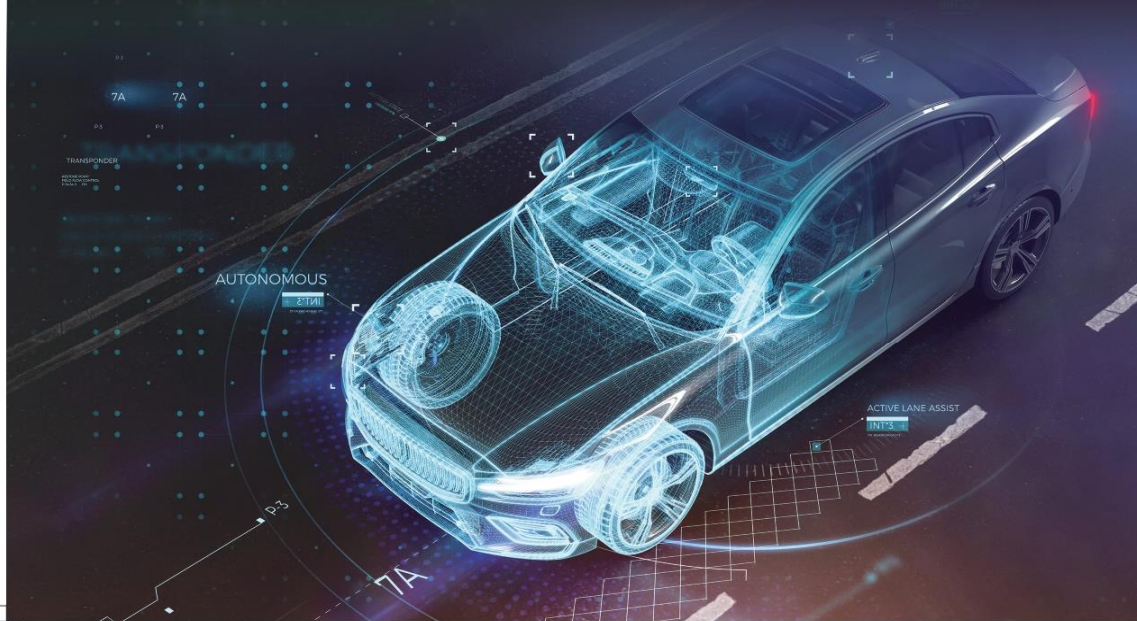

PERFORATION



Widely used in automobiles and aircraft
High-quality drilling process applied to the surface sheet

Perforation combined with ventilation and sound absorption properties

NC Industry's technology allows drilling of holes with extremely small diameter holes in seat leather (genuine, synthetic and faux leather), and drilling of composite materials with urethane laminate. We can produce perforated sheets in a wide variety of designs and functions in small-lot sizes.



- 1 door surface sheet
- 2 seat
- 3 Floor/undercarpet
- 4 ceiling/pillar
- 5 room partition
- 6 Trunk, tonneau cover, cowl side panel, back door trim
- 7 dash instrument panel
- 8 air conditioner unit
- 9 Car navigation (other) speakers, ETC equipment



POINT 01
Breathable

The perforation allows the leather to maintain the original warmth and texture while keeping it breathable and smooth. Holes are also functioned as ventilation holes for warm air coming from the seat heating etc.



POINT 02
Sound Absorption

Sound absorption can also be expected to improve the quietness inside the vehicle. It is also possible to accommodate through-holes (blind holes) in the surface sheet.



POINT 03
Non Slip

It is possible to drill holes to the control stick to prevent slippage, or to apply dot patterns integrated with the anti-slip function of the handle and control stick.



POINT 04
Sound Transmission Hole

It is possible to integrate speaker and other sound transmission perforations with the sheet metal. We can accommodate various sheet materials and thicknesses, and are able to perform perforations suitable for sound quality.

POINT 05
Design

Various hole diameters can be drilled in one sheet. This makes the design clearer.

Our drilling method does not require a mold. It is possible to make high-quality holes to artificial and real leather in small lots.

