

Qingdao Achieving Honeycomb Panel Co., Ltd.

青 岛 智 新 成 复 合 板 材 有 限 公 司

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Industrial Waterjet Honeycomb Cutting Bricks: Cost-Effective Precision Support & Shop Optimization

**Main Position: Industrial-Grade Polypropylene (PP) Sacrificial Waterjet Slats
B2B Wholesale & Custom Supply**

In high-volume, day-to-day machining, waterjet bricks are consumables, not permanent fixtures. Engineered as a **budget-friendly, commercial-grade sacrificial cutting surface**, Achieving high-density Polypropylene (PP) honeycomb bricks deliver the exact load capacity, dampening, and splashback reduction required for standard precision cutting—at a fraction of the cost. Fully certified by **RoHS standards**, our products are the smart, lean-manufacturing choice for B2B buyers and job shop owners worldwide.



Technical Advantages & Buyer Benefits

1. Instant Hydrodynamic Drainage

Main Advantage: Drainage efficiency is **70% higher** than traditional solid plastic bricks.

How it Works: Featuring a unique **Circular Perforated Honeycomb Matrix**, this open-cell architecture rapidly evacuates ultra-high pressure streams, increasing surface dryness by **50%**.

Buyer Benefit (Cost Reduction): Fluid and abrasive materials are evacuated instantly, effectively preventing backside corrosion, water stains, and frosting on the workpiece. It **drastically reduces scrap rates** for surface-sensitive metals and composites.

Technical solution engineered by R&D Department
at Qingdao Achieving Honeycomb Co., Ltd. 2026.

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2. Jet Energy Dissipation & Anti-Splashback

Main Advantage: The honeycomb cells absorb **over 90%** of the waterjet's kinetic energy, maintaining operational noise levels below **75dB**.

How it Works: As the ultra-high pressure stream enters the cell, the **optimized wall thickness and non-linear reflection paths** force the jet to scatter and collide internally. This effectively breaks the upward path of the back-jet.

Buyer Benefit (Equipment Protection): Minimizes destructive splashback, **extending the operational life of mixing tubes and orifices by 30%**. This directly translates to fewer tool changes, less machine downtime, and lower maintenance overhead.

3. Superior Strength-to-Weight Ratio

Main Advantage: Weighing only **10kg per m²** with a compressive strength exceeding **2MPa**.

How it Works: The robust geometry of the polymer honeycomb distributes extreme vertical loads evenly across the matrix, ensuring excellent dimensional stability without deformation.

Buyer Benefit (Safety & Efficiency): **50% lighter than traditional steel slats**, allowing a single operator to handle installation and flip-overs easily, minimizing machine downtime. It effortlessly supports tons of heavy industrial plates during rigorous cutting cycles.

4. Symmetrical Dual-Surface Lifecycle

Main Advantage: **Doubles the consumable's operational lifecycle.**

How it Works: Engineered with a perfectly symmetrical profile, both sides of the slat feature identical structural integrity and surface flatness.

Buyer Benefit (Half the Cost): Once side A reaches its wear limit after prolonged cutting, your operator can simply flip the brick over to access a brand-new cutting plane on side B. This simple flip **cuts your annual cost on waterjet bricks straight in half**.



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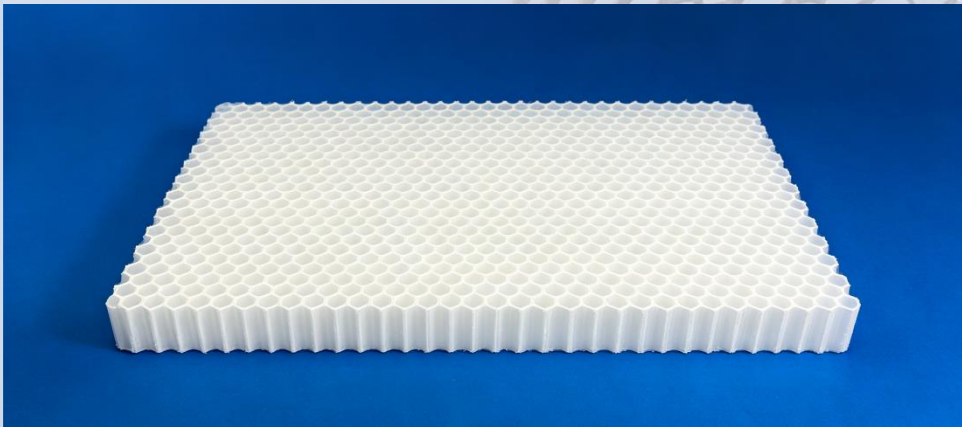
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5. Eco-Friendly Premium Polypropylene (PP) Material

Main Advantage: Non-toxic, highly corrosion-resistant, and 100% recyclable.

How it Works: Manufactured using premium industrial-grade high-density Polypropylene (PP). PP features excellent chemical stability, zero water absorption, and superior resistance against most acidic or alkaline cutting fluids.

Buyer Benefit (Supply Chain Compliance): Fully certified by **RoHS**, perfectly meeting the stringent green procurement and sustainability audit standards of major global enterprises. It releases zero toxic fumes during cutting, ensuring workplace safety. When decommissioned, the bricks are 100% recyclable, **saving your factory from expensive industrial hazardous waste disposal fees.**



Application Scenarios & Material Processing Guide

Whether you are running a large-scale OEM factory or a local job shop, our plastic honeycomb cutting beds offer the optimal balance of performance and economy for:

Aerospace & Automotive Fabrication (Aluminum, Carbon Fiber, Titanium):

Eliminates back-jetting marks, perfectly protecting the surface finish of high-value parts.

Stone, Ceramic & Glass Processing (Marble, Engineered Stone, Art Glass): The structural dampening capability absorbs the initial impact, **significantly reducing micro-cracks and edge-chipping on brittle materials.**

General Machinery & Metal Job Shops (Heavy Steel Plates, Copper, Multi-layer Materials): The perfect choice for high-volume, heavy-duty daily cutting. Maximize your shop's cutting throughput while minimizing consumable expenditures.

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Polypropylene Honeycomb “PP8”

SPECIFICATION			
Dimensions	standard : 1220 x 2440 mm	export : 1150 x 2300 mm	
Thickness	5-100mm or customized		
Cell size	8mm		
Density without facing	100kg/m ²		
Color	white		
Possible process	RTM, closed moulds		
CHARACTERISTICS			
Properties	Test method	PP8	
Flatwise tensile	ASTM C 297	Typical Strength psi/Mpa	130/0.89
Bare compressio 	ASTM C 365	Typical Strength psi/Mpa	275/1.89
		Typical Modulus ksi/Mpa	11.5/79.2
Plate Shear 	ASTM C 273	Typical Strength psi/Mpa	85/0.58
		Typical Modulus ksi/Mpa	2.2/15.2
Water resistance,% retention of shear strength - 20°C 	ASTM C393	±100%**	
Heat resistance for honeycombs core THK 20mm	R=0.3m ² .°C/W (soitλ=0.067W/(m.°C)		
Heat resistance for honeycombs core THK 90mm	R=0.6m ² .°C/W (soitλ=0.014W/(m.°C)		
Behaviour with fire	Standard quality inflammable, Possibility of M1/F0 classification for finished sandwich panels, depending on the sandwich skin		
Chemical Properties	Excellent resistance to water and most acids, bases and salt solutions		
Resistance to Ultraviolet rays(U.V.)	The longevity for the core's storage is guaranteed by a anti U.V.-U.V. protection of the finished panel is ensured by the skins of the sandwich panel		
Shocks resistance	Increased by the use of pp honeycomb		

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