

HCT-200 / DEDICATED SKIVING CNC

HCT-200

Dedicated CNC skiving machine

Form the base and fins from one metal workpiece.

HEAT-SOL HCT-200



HCT-200 product rendering

FANUC**0i-MF****CNC controller**

Linear feed and rotary indexing

3 AXES

X / Z / C axis configuration

430 / 420 mm

X / Z travel

360°

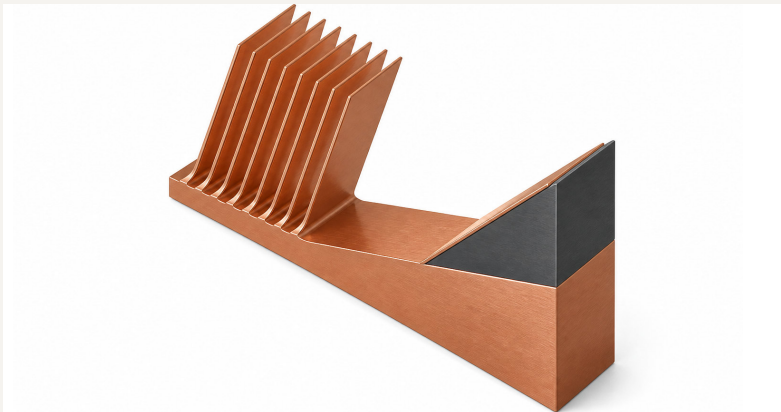
C-axis rotation range

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THE SKIVING PROCESS

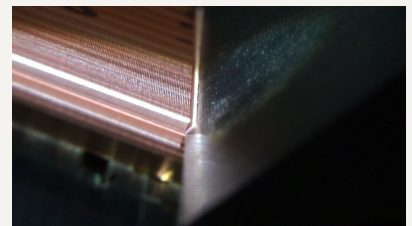
Cut, raise and repeat

A thin layer is cut from the workpiece and raised into a fin. Repeating the process creates fins that remain integral with the base.



Skiving principle - illustration

Skiving in practice



From HEAT-SOL skiving process footage

X / Z / C axis configuration

X	430 mm	Z	420 mm	C	360°
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Linear workpiece feed

Moves the vacuum-chuck table along the linear axis.

Knife-head feed

Controls knife-head motion in the infeed direction.

Vacuum-chuck rotary indexing

Controls the rotary position of the chuck holding the workpiece.

FANUC Oi-MF

FANUC Oi-MF CNC control. Process settings are selected for the material, tooling and workholding.

PRODUCTS / THERMAL STRUCTURES

Thermal structures for your application

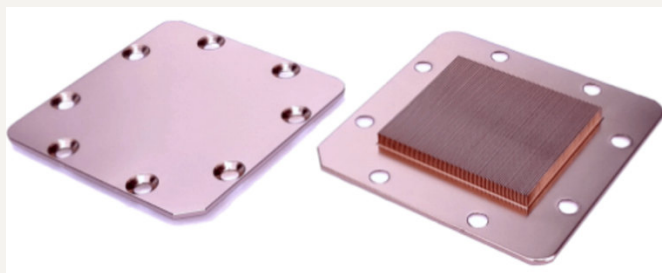
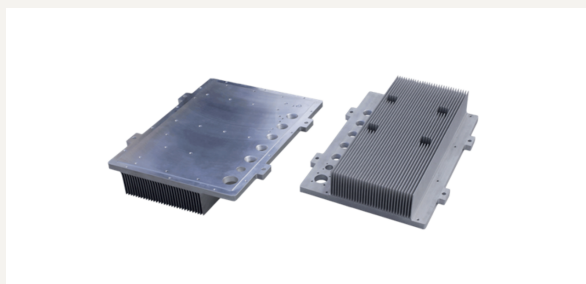
Representative HEAT-SOL products. Material and fin geometry are selected around cooling method, installation space and mounting needs.

01 / MICRO-FIN

Micro-fin cold plate

50-60 μm

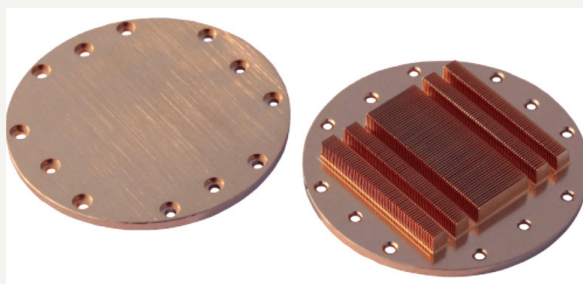
50-60 μm product fin thickness. Copper fins and base are machined as one piece for CPU, GPU and high-density module cooling designs.



02 / INTEGRAL FINS

Integral skived heatsink

Fins remain integral with the base, with no joining layer at the fin root. Fin height and pitch are reviewed with the airflow.



03 / CUSTOM GEOMETRY

Custom geometry

Review the outline, base thickness, mounting holes and fin layout around your drawing and operating conditions.

Discuss your process and machine requirements

Images show representative products. 50-60 μm refers to product fin thickness. Geometry, material, process conditions and supply scope are agreed individually.

LET'S DISCUSS YOUR APPLICATION

Start with the part you want to make

Share your fin geometry, material, production volume and inspection requirements. We review workholding, machining range and site conditions to define the machine configuration.

01 WORKPIECE

Material, outline and base thickness
Fin thickness, pitch and height

02 PRODUCTION

Prototype and production quantities
Inspection items and tolerances

03 INSTALLATION

Space, power and compressed air
Schedule, tooling and fixtures

HCT-200 at a glance

Controller / axes	FANUC 0i-MF / X, Z, C	Maximum workpiece dimensions	400 × 190 mm
X / Z travel	430 / 420 mm	Maximum knife size	400 mm
Maximum feed rate (X / Z)	5,000 mm/min	Overall size (W × D × H)	2,255 × 1,230 × 2,245 mm
C-axis rotation range	360°	Machine mass	4,450 kg
C-axis maximum speed	1,000°/min	Power supply rated capacity	3-phase AC 220 V, 60 Hz 28.6 kVA

See the product data sheet for details. Final requirements are agreed for the intended workpiece.

Discuss your process and machine requirements

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