WALI
INDUSTRIAL BLADES

PRODUCT & CUSTOM MANUFACTURING GUIDE

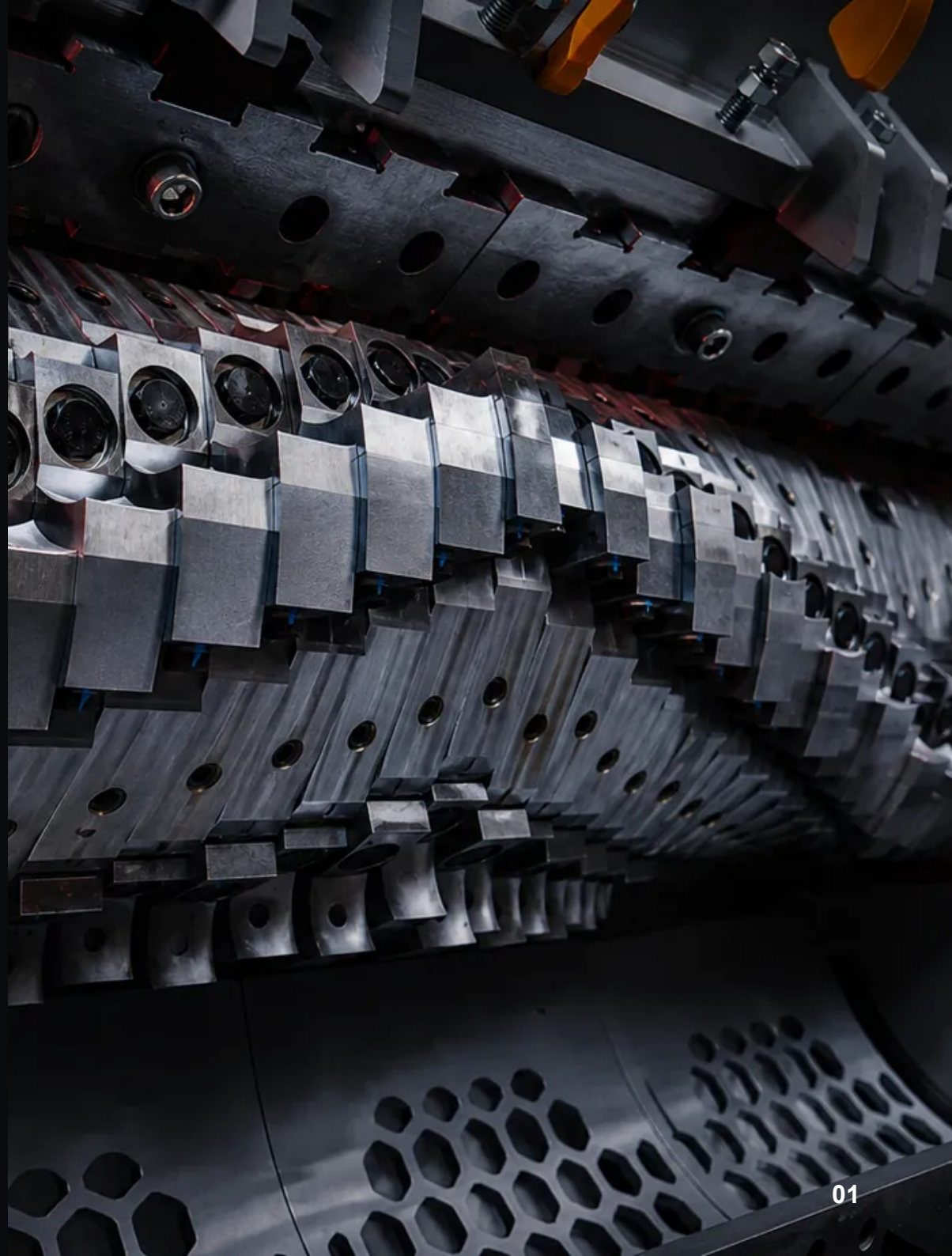
INDUSTRIAL BLADES & RECYCLING EQUIPMENT.

Precision blades, wear parts, shredders and recycling solutions for demanding industrial applications.

REPLACEMENT / OEM / CUSTOM

www.waliblades.com

www.walirecycling.com



WALI
INDUSTRIAL BLADES

BLADE EXPERTISE. EQUIPMENT EXPERIENCE.

Anhui Wali Environmental Protection Equipment Co., Ltd. brings together industrial blade manufacturing and recycling-equipment experience. Our Wear Parts and Recycling Equipment divisions connect component design with the machines and materials used in real production.

We supply blades and wear parts for shredding, crushing, shearing and granulation, with custom manufacturing based on drawings, samples or machine models.



BLADES + EQUIPMENT

Blade geometry, mounting, clearance and operating conditions are reviewed together. Material selection and manufacturing requirements are matched to the application.

WALI
INDUSTRIAL BLADES

COMPLETE RECYCLING EQUIPMENT.



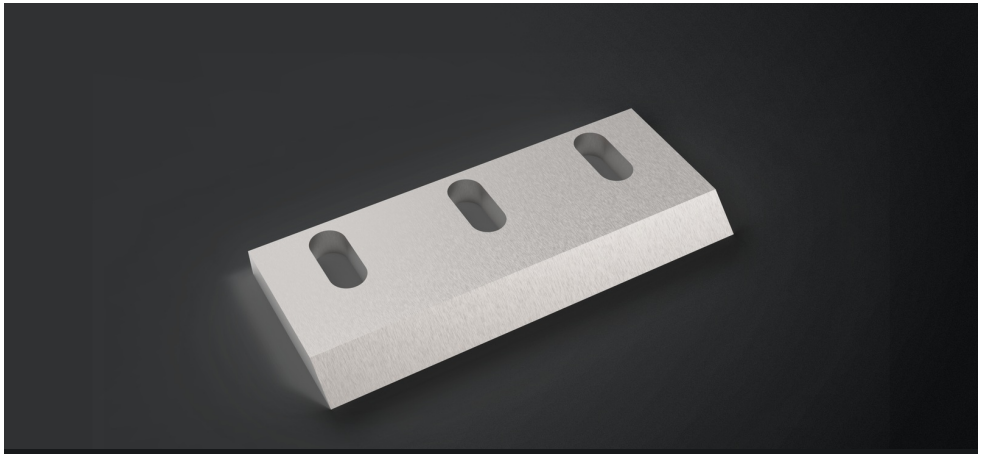
WALI also manufactures shredders and complete recycling equipment. Our blade and machine experience helps connect cutting components with real operating conditions.

FROM CUTTING COMPONENTS TO COMPLETE SYSTEMS

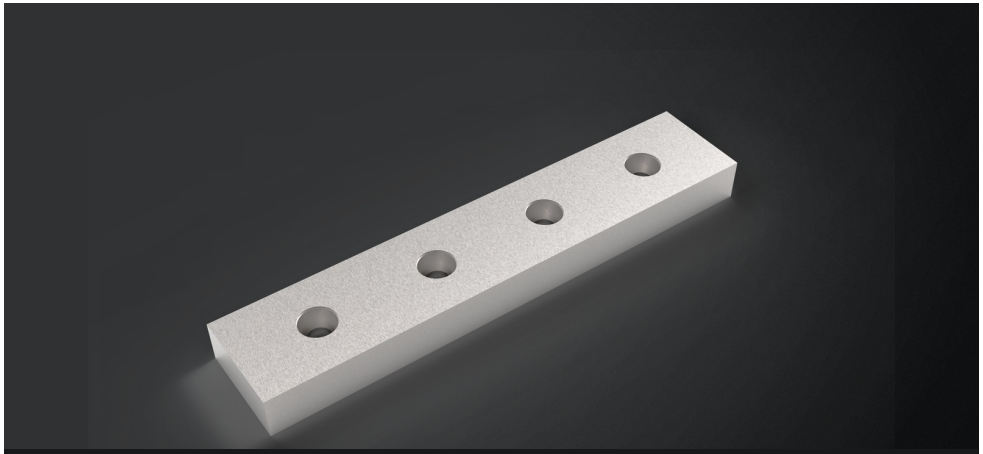
Explore shredders, size-reduction equipment and integrated recycling solutions at www.walirecycling.com.

WALI
INDUSTRIAL BLADES

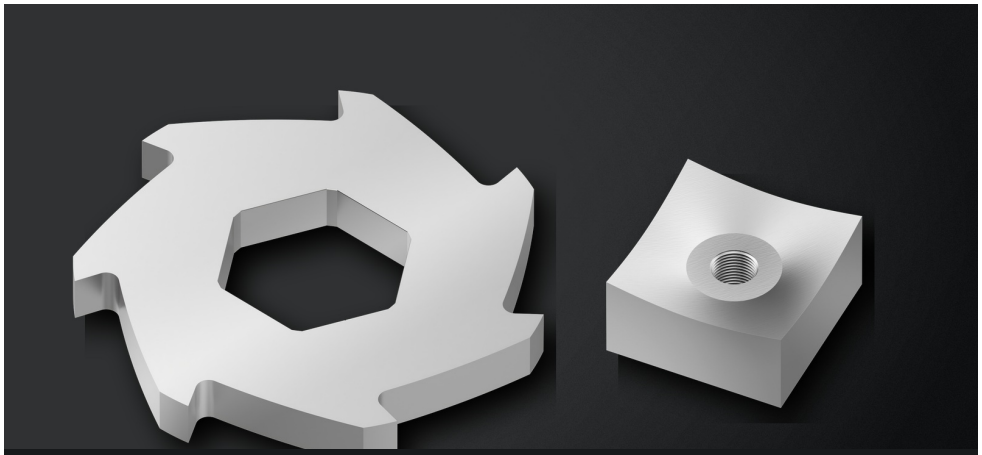
FOUR CORE BLADE FAMILIES.



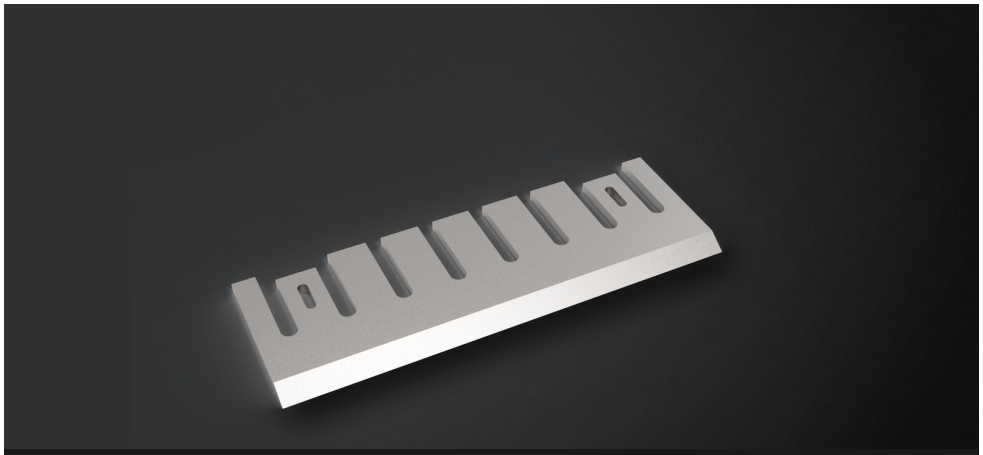
Granulator & crusher blades
Rotor and bed knives



Shear blades
Long and heavy-duty profiles



Shredder blades
Single- and multi-shaft systems



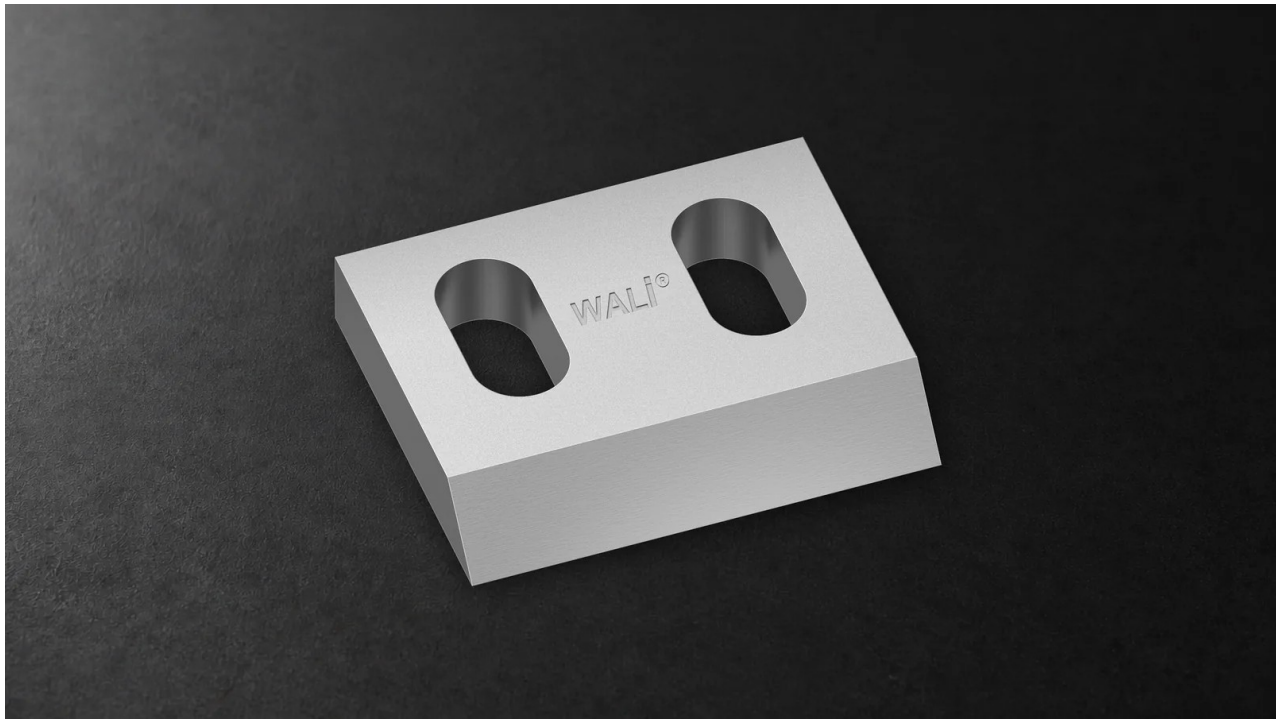
Wood processing blades
Chipper and wood-crusher knives

PRODUCT FAMILY

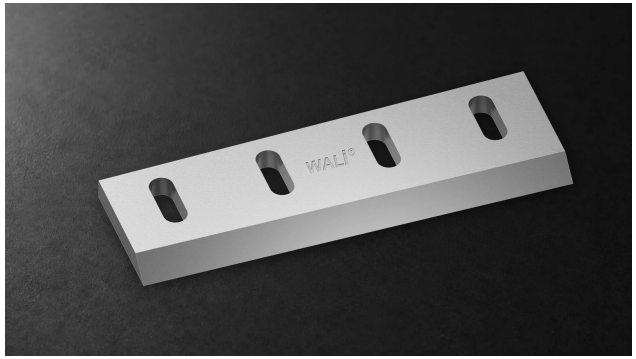
GRANULATOR & CRUSHER BLADES.

Rotor knives, bed knives and matching cutting sets for granulators and crushers processing plastics, rubber and other recyclable materials.

- Identify rotor and bed knives separately
- Confirm hole positions and cutting clearance
- Select material for feedstock and contamination







Representative products only. Final geometry, material and hardness are confirmed for each machine and application.

PRODUCT FAMILY

SHEAR BLADES.

Long and heavy-duty blades for guillotine shears, alligator shears, gantry shears and hydraulic cutting equipment.

- Machine model and blade position
- Overall size, holes and countersinks
- Cut material, section size and edge condition







Please identify upper and lower blades and provide a drawing, sample or clear dimensional photos.

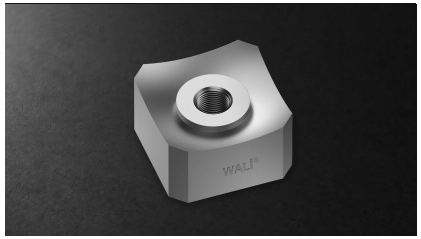
PRODUCT FAMILY

ROTOR KNIVES.

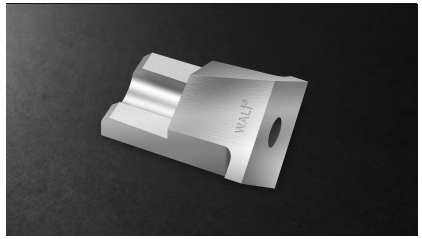
Compact rotor knives for single-shaft shredders. Cutting profile, mounting details and material selection are reviewed for the intended feedstock and machine.

- Square and profiled geometries
- Hole and seating details to drawing
- Application-led material and hardness review









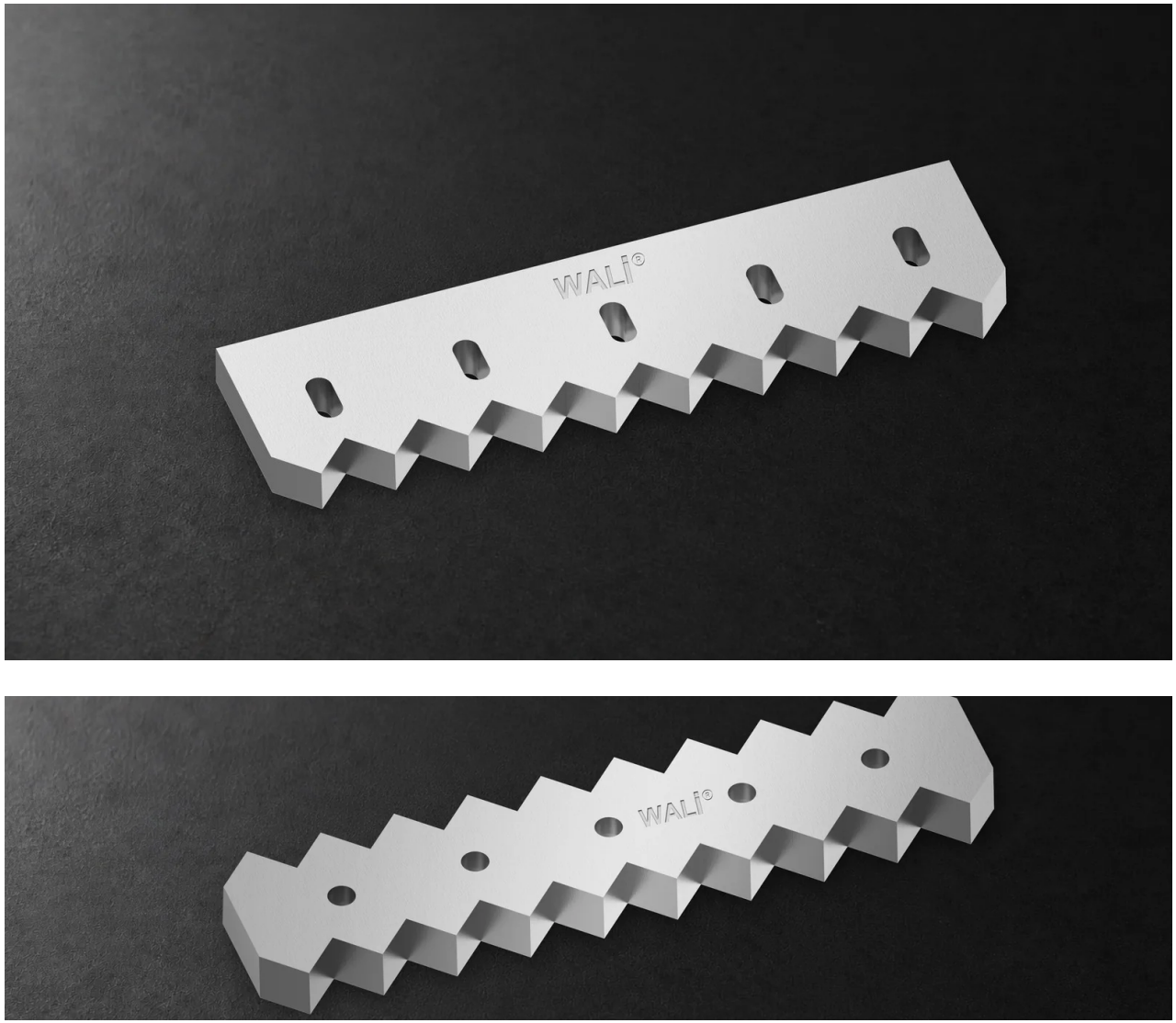
Representative geometries. Dimensions and mounting arrangements are confirmed for each order.

PRODUCT FAMILY

COUNTER KNIVES.

Fixed knives work with the rotor to create the cutting action. Blade profile, mounting position and working clearance must be considered together.

- Comb and straight fixed-knife profiles
- Mounting-hole or slot configuration
- Mating rotor geometry and clearance



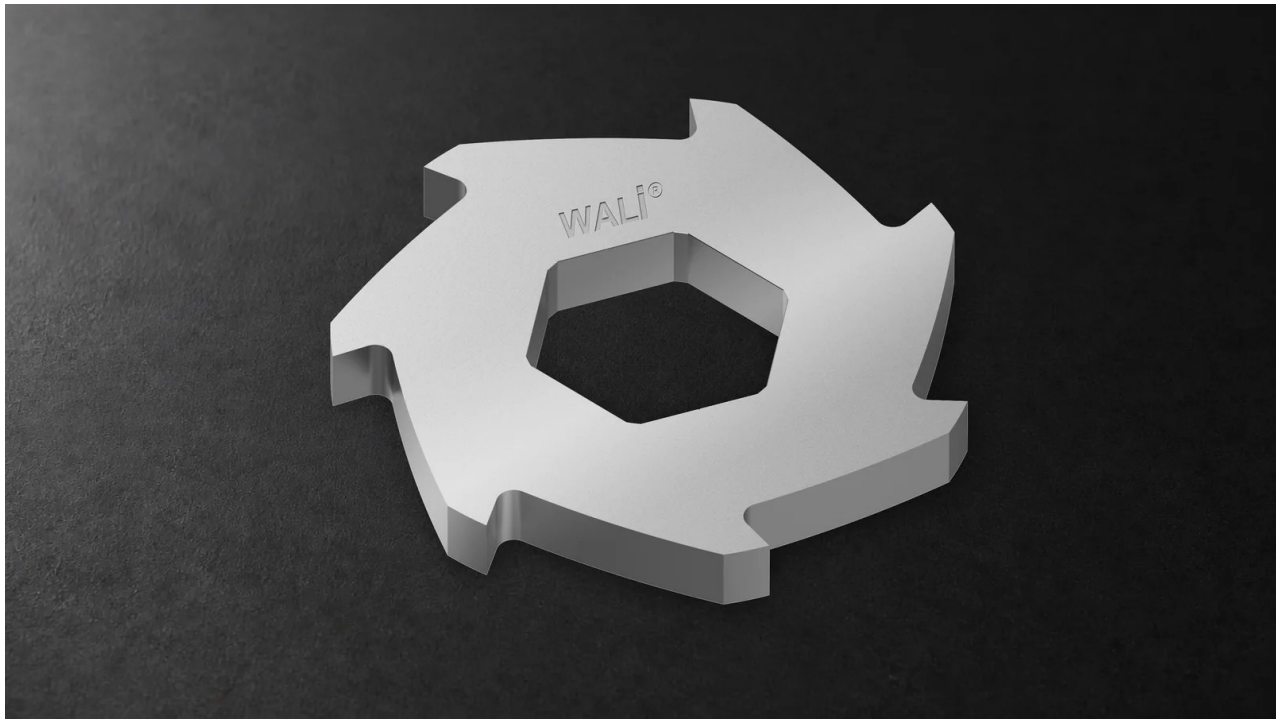
Representative counter-knife form. Final geometry is confirmed against the machine and mating rotor.

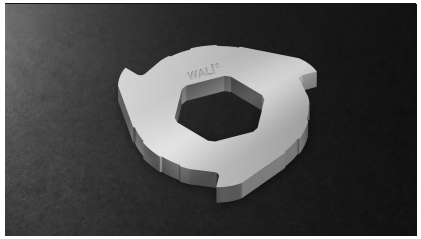
PRODUCT FAMILY

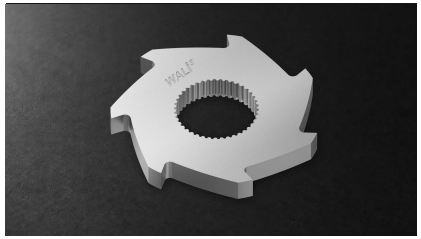
SHREDDER KNIVES.

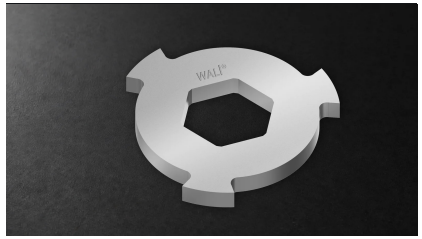
Disc and hooked knife profiles for multi-shaft shredding systems. Review the full shaft stack, including knives, spacers and mating components.

- Outside profile and number of hooks
- Bore, spline or hexagonal interface
- Thickness and shaft-stack arrangement





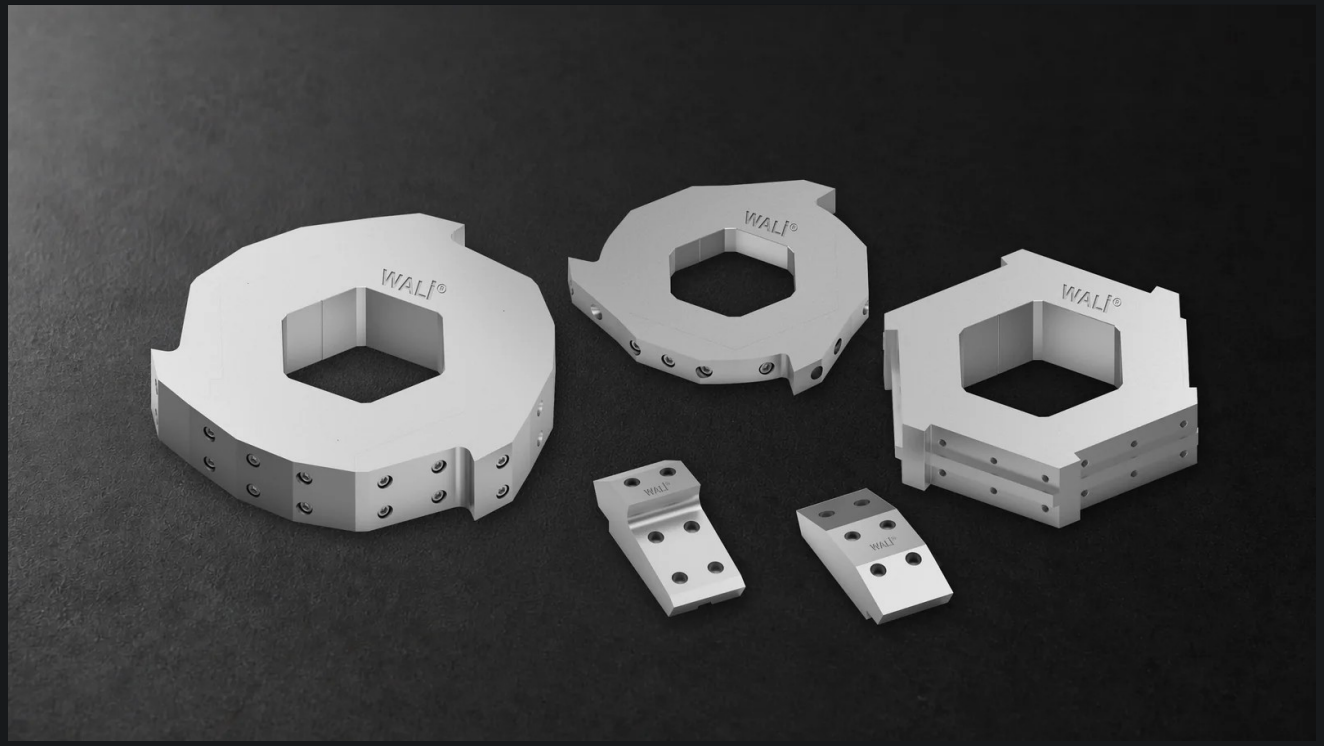




Bore profiles and hook geometry vary by machine. Photos help identify the correct configuration.

WALI
INDUSTRIAL BLADES

MODULAR BY DESIGN. MATCHED AS A SYSTEM.



Review the complete assembly

- Knife body and replaceable elements
- Segment position and fastener details
- Mounting interface and assembly orientation
- Required quantity of each component

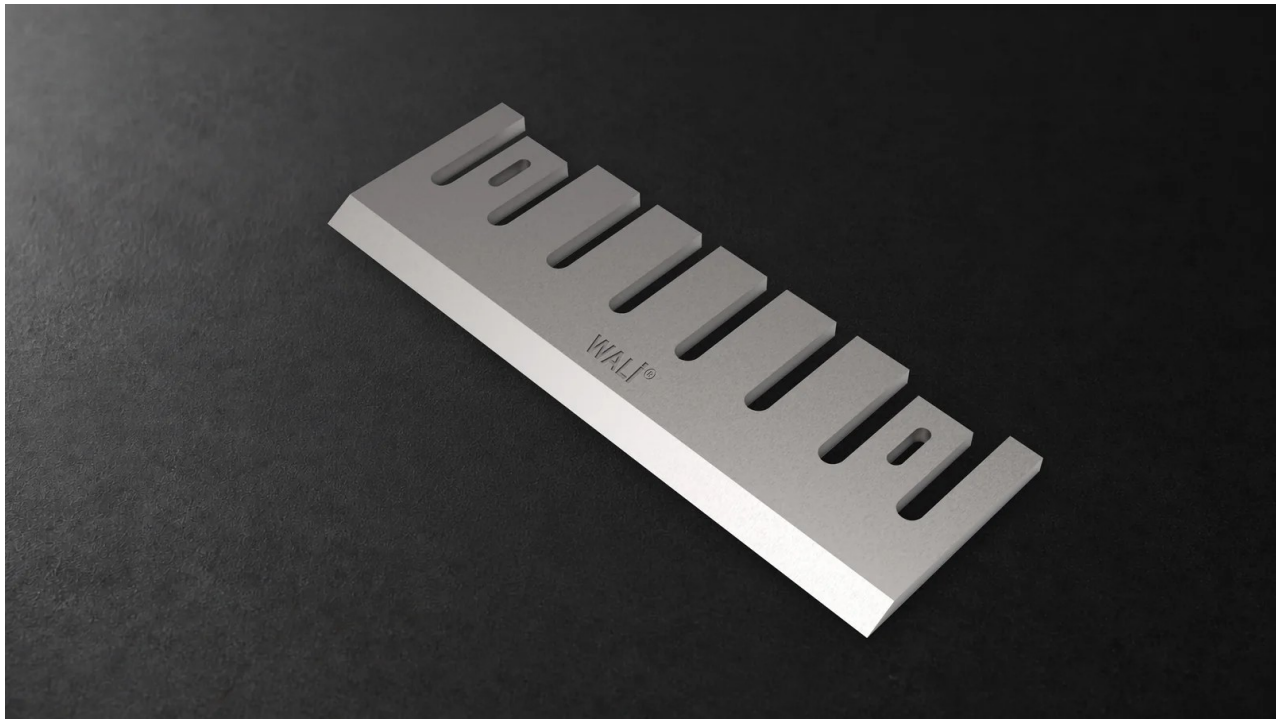
Provide an assembly drawing or photos of the complete knife. Component fit and fastening details require engineering confirmation before production.

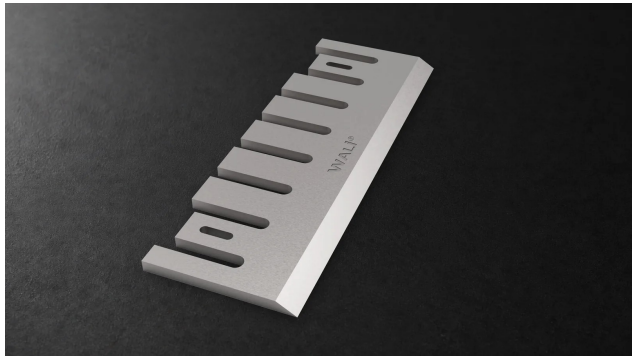
PRODUCT FAMILY

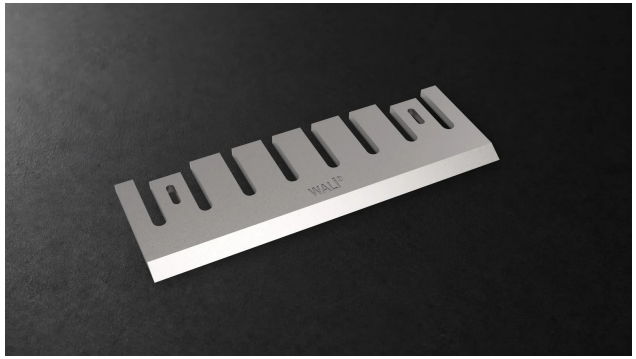
WOOD PROCESSING BLADES.

Replacement knives for wood shredding, chipping and size-reduction equipment. Geometry and edge requirements are matched to wood type, feed size and machine speed.

- Confirm machine model and knife function
- Provide overall size and mounting dimensions
- Describe wood type, feed size and operating speed







The products shown are examples only. More sizes, profiles and mounting arrangements can be manufactured to drawing or sample.

WALI
INDUSTRIAL BLADES

SELECT THE MATERIAL FOR THE APPLICATION.

Material choice balances abrasive wear, impact toughness, edge stability and resharpening. The grades below are common regional references; final chemistry, hardness and heat treatment must be confirmed for each order.

MATERIAL FAMILY	CHINA / GB	USA / AISI	JAPAN / JIS	EUROPE / EN-DIN	TYPICAL USE
Wear-resistant cold-work	Cr12MoV	D2	SKD11	1.2379	Plastic, wood, general recycling
Enhanced cold-work	DC53 family	Supplier grade	DC53	Supplier grade	Impact plus wear resistance
Hot-work tool steel	4Cr5MoSiV1	H13	SKD61	1.2344	Hot or high-impact duty
High-speed steel	W6Mo5Cr4V2	M2	SKH51	1.3343	Fine edge and higher cutting speed
Tough alloy options	9CrSi / 6CrW2Si	Application specific	Application specific	Application specific	Shear and shock-loaded blades

Important: Similar designations are not always exact one-to-one substitutes. WALI confirms the required standard, supplier certificate, hardness range and heat-treatment condition before production.

WALI
INDUSTRIAL BLADES

CONTROLLED PROCESSES. CONSISTENT RESULTS.

Forging, heat treatment, CNC machining and grinding are planned against the approved blade specification.



FORGING EQUIPMENT

Hot forging forms steel blanks for subsequent heat treatment and precision machining.



HEAT-TREATMENT FURNACE

Furnace capacity supports heat treatment of long and standard industrial blade sizes.



CNC MACHINING CENTER

Precision machining of profiles, mounting features and critical blade dimensions.



4-AXIS CNC MACHINING

Multi-face machining with fewer setups for complex blade and rotor components.



MACHINING WORKSHOP

Rough machining of forged blanks to establish the basic product shape.



BLADE GRINDING

Grinding blade surfaces and cutting edges to specified dimensions and finish requirements.

WALI
INDUSTRIAL BLADES

CHECK THE GEOMETRY. VERIFY THE FINISH.



Coordinate measurement

Dimensional and geometric inspection against drawing requirements.



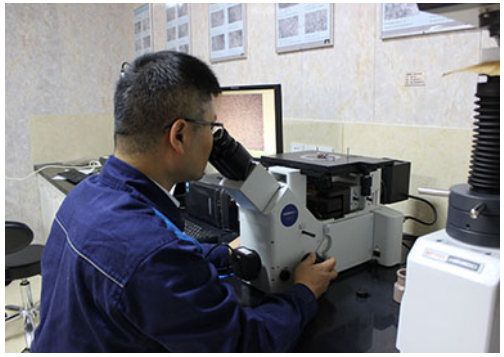
Optical inspection

Magnified examination of edges, features and surface details.



Surface roughness testing

Measurement of surface texture on specified inspection areas.



Metallographic examination

Examination of prepared samples to review material microstructure.

Inspection methods, test locations and acceptance criteria are agreed for the part and application.

REVIEW THE MATERIAL. CHECK THE HARDNESS.



Alloy identification

Handheld analysis to support alloy identification and material checks.



Rockwell hardness testing

Hardness checks using the specified scale and test conditions.



Ultrasonic hardness testing

Portable hardness checks at selected locations where appropriate.



Hardness inspection equipment

Additional laboratory hardness inspection according to the agreed method.

Inspection methods, test locations and acceptance criteria are agreed for the part and application.

WALI
INDUSTRIAL BLADES

FROM YOUR DRAWING TO THE RIGHT BLADE.

No standard catalogue dimension can replace an approved technical specification. Start with the information you have; identify any unknown details for review.

01

IDENTIFY

- Machine brand and model
- Blade function: moving or fixed
- Processed material and contamination
- Quantity and required delivery

02

DEFINE

- Overall and mounting dimensions
- Hole, slot, thread and bore details
- Bevel angle and cutting direction
- Material / hardness if known

03

CONFIRM

- Drawing revision and critical tolerances
- Material and heat-treatment requirement
- Inspection and marking requirements
- Packing and repeat-order reference

WALI
INDUSTRIAL BLADES

MATCH THE BLADE. THEN MAKE IT.

A clear specification helps reduce fit-up problems, quotation delays and repeat-order uncertainty.

01

APPLICATION

Machine, feedstock, blade role and current wear issues.

02

GEOMETRY

Dimensions, mounting, mating parts and cutting direction.

03

SPECIFICATION

Material, hardness, tolerances and inspection points.

04

ORDER REVIEW

Approved drawing, quantity, delivery and packing.

Send a clear photo of the complete blade and close-ups of the cutting edge and mounting details. Mark any worn or damaged areas so they are not mistaken for the original geometry.

WALI
INDUSTRIAL BLADES

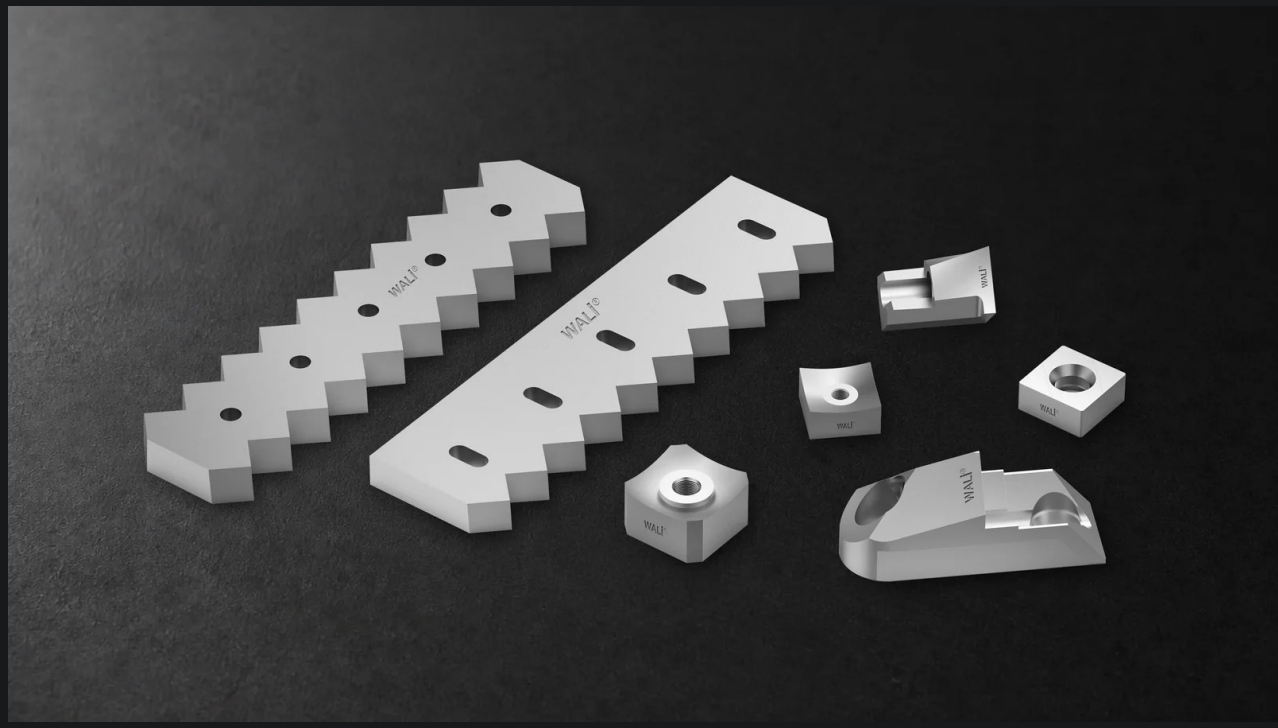
LET'S BUILD YOUR NEXT BLADE.

Send your drawing, sample information or machine model. Start an engineering conversation with WALI.

www.waliblades.com

info@cnwali.com

Scan to view products and contact our team.



Anhui Wali Environmental Protection Equipment Co., Ltd.

The products shown in this brochure represent only part of our manufacturing range. More blade types, sizes and configurations are available. We manufacture from drawings, samples or machine models.