Shanghai Xinkehui
NEW MATERIALS CO., LTD.

MULTI-WIRE SAW / REFERENCE CONFIGURATION

Precision slicing for advanced materials.

Diamond multi-wire cutting platform
for hard-brittle semiconductor materials.

JY360 REFERENCE / ENGLISH PROJECT SHEET / 16 NOV 2026

01 Reference at a glance

MAX. WORKPIECE	DIAMOND WIRE	CUT THICKNESS	SLOT ACCURACY
360 x 220 x 220	0.10 - 0.50	0.3 - 20	0.01
mm, L x W x H	mm diameter	mm reference range	mm, reference

02 Designed around process control

01
Controlled wire web
Six guide wheels in the supplied reference layout.

02
Tension feedback
Closed-loop control plus warning and break detection

03
Thermal stability
Independent coolant and bearing-oil cooling circuits

Every material and target quality requires validation.
Reference speed, thickness and accuracy values are not
a promise of repeated production performance.

Source and qualification. Values on this sheet are transcribed from the supplied JY360 reference document. Final voltage, safety devices, guarding, interface, accessories, performance, warranty and compliance scope must be confirmed in writing. Material compatibility must be demonstrated through an agreed sample-cutting review.

03 Technical data

PARAMETER	REFERENCE VALUE	UNIT
Maximum workpiece envelope	**360 x 220 x 220**	mm
Roller coating dimensions (dual-cone)	**Phi 160 x 370, three axes**	mm
Table vertical stroke	**250**	mm
Cutting speed	**400 - 1,200**	mm/h
Wire speed, maximum	**1,200**	m/min
Diamond wire diameter	**0.10 - 0.50**	mm
Supply spool capacity	**20 at 0.25 mm wire**	km
Cutting thickness range	**0.3 - 20**	mm
Roller slot accuracy	**0.01**	mm
Table verticality	**0.01**	mm
Swing angle	**+/- 8**	deg
Lift-door stroke	**1,060**	mm
Total machine power	**40 or less**	kW
Power supply	**AC 380 / 50**	V / Hz
Main motors	**5.5 x 3**	kW
Payout / take-up motors	**5.5 x 2**	kW
Table lift motor	**0.4 x 1**	kW
Table swing motor	**1.3 x 1**	kW
Traverse motors	**0.4 x 2**	kW
Tension-control motors	**2.9 x 2**	kW
Lift-door motor	**0.75 x 1**	kW
Dimensions, dual-cone	**2.5 x 2.0 x 2.8**	m
Dimensions, lift door open	**2.5 x 2.0 x 3.9**	m
Approximate machine weight	**4,880**	kg

Phi denotes diameter. Values use printed reference rounding; request the approved final data sheet for the offered machine.

04

Make the scope traceable

Use this checklist to capture the decisions that can change machine suitability, safety, process outcome or total project cost. Items are not automatically included unless they appear in the approved offer and contract.

- ☐ **01** Material, grade and crystal orientation
- ☐ **02** Sample dimensions and mounting method
- ☐ **03** Target thickness and inspection criteria
- ☐ **04** Wire specification and consumable source
- ☐ **05** Coolant, filtration and site utilities
- ☐ **06** Voltage, guarding and local safety scope

05 VALIDATION AND HANDOVER

01

Performance

Agree sample quantity, cutting parameters, inspection method, measurement equipment and acceptance thresholds. Material-specific results must not be assumed from general reference values.

02

Safety & compliance

Confirm voltage, plug, interlocks, guarding, emergency stop, local regulations, installation environment and required documentation.

03

Commercial scope

Confirm price basis, delivery, packing, installation, training, warranty, service response, spare parts and payment milestones in the contract.

NEXT STEP

Share a material sample brief with our team.

risinn@xinkehui.cn | +86 132 6287 9223

Shanghai Xinkehui New Materials CO., Ltd. | Shanghai, China