

HIGH-PRECISION DIGITAL LEATHER CUTTING SYSTEM



The DY 2516 is a professional-grade, industrial digital cutting solution specifically engineered for the leather and textile industries. Combining advanced vision systems with dual-gantry efficiency, it offers unparalleled precision and speed for complex material processing.

Technical Highlights & Components

1. Advanced Cutting Head & Tooling

Dual Tool Holder System: Equipped with two sets of oscillating knives and punch sets for simultaneous multitasking.

Oscillating Knife (Shenzhen CaiLun): High-frequency vibration for clean edges on thick or soft leather.

Punching & Marking: Includes a high-speed punch set (Hongke CNC) and a dedicated marking pen for pattern identification.

2. Vision & Scanning Intelligence

Scanning System: Integrated Hongke CNC Scanner for rapid material contour capture.

Industrial Imaging: Daheng Industry Camera (MER2-2000-6GC) paired with a high-fidelity Kowa Lens.

Projection System: Ricoh PJ WX100ST Projector for real-time nest visualization and material optimization.

3. Motion & Drive System

Yaskawa Servo Motors: A 10-motor configuration (including 400W X/Y/Gantry motors and 100W Z/A axis motors) ensures high-torque stability.

Transmission: A robust blend of Linear Rails, Gear Racks, and high-precision Ballscrews.

Safety: Equipped with 10 limit sensors and a dedicated Emergency Power Button.

4. Vacuum Adsorption Platform

Platform Construction: 25mm Heavy-duty Aluminum table.

Power: Dual 9.5kw Ruijing Vacuum Pumps.

Control: 54 independent vacuum units for localized, high-strength material hold-down.

Technical Parameters

Feature	Specification
Model	DY 2516
Working Area	1600mm x 2500mm
Machine Dimensions	2284mm (W) x 6886mm (L) x 3000mm (H)
Cutting Accuracy	±0.1mm (material dependent)
Cutting Speed	0 - 1200mm/s
Total Power	21 KW
Voltage	AC380V±5%, 50Hz
Air Pressure	0.6 - 0.8 MPa

Packing List & Included Parts

Main Structure: Hongke CNC Machine Frame & Gantry (2 Sets)

Protection: Industrial Felt (14000mm x 1690mm)

Electronics: Shenzhen Encom VFD (2 Sets) and Chint Voltage Regulator (5KVA)

Consumables: 5 Spare Blades and 2 Punch units.

Peripherals: PC, Monitor, Keyboard, and Mouse.

Software & Control

Control System: HK_A6_BASEVERSION Leather CUT System.

Workstation: Lenovo M455 (Intel i12700 / 16G RAM) with Songren Monitor.

File Compatibility: Supports industry-standard PLT and DXF formats.

Operating Environment

Temperature: 0 - 40

Humidity: 5% - 95% (Non-condensing)



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HARI CHAND ANAND MACHINERY LLP

C-103, SDF C BUILDING, 19 CANAL SOUTH ROAD, Paridhan The Garment Park, Kolkata, West Bengal, 700015

+91 8584068564 | hacolkata@grouphca.com

