

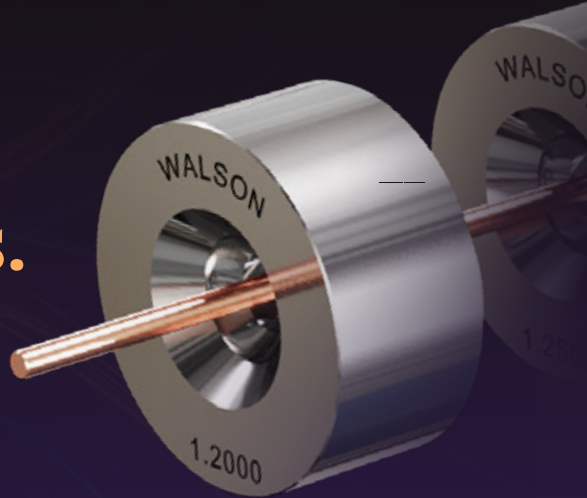


Walson Woodburn™

Engineered for Exactness. Crafted for Continuity.

**Elongated (Matched)
Die Sets**

An Indo-American Joint Venture.



*Engineered for the
Purest Precision.*

About Walson Woodburn Die

CRAFTING PRECISION, BUILDING TRUST

Located in the Diamond capital of the world, Walson Woodburn is an Indo–American joint venture between Walson (India) and Woodburn (USA) - a partnership built on over sixty years of combined expertise in precision engineering.

Since 1970, we've shaped a reputation for uncompromising quality, consistency, and performance - making us a trusted name among leading wire and cable manufacturers worldwide.

Every die we craft begins with a deep understanding of our customer's process and ends with flawless performance - delivering results you can measure, and reliability you can feel.

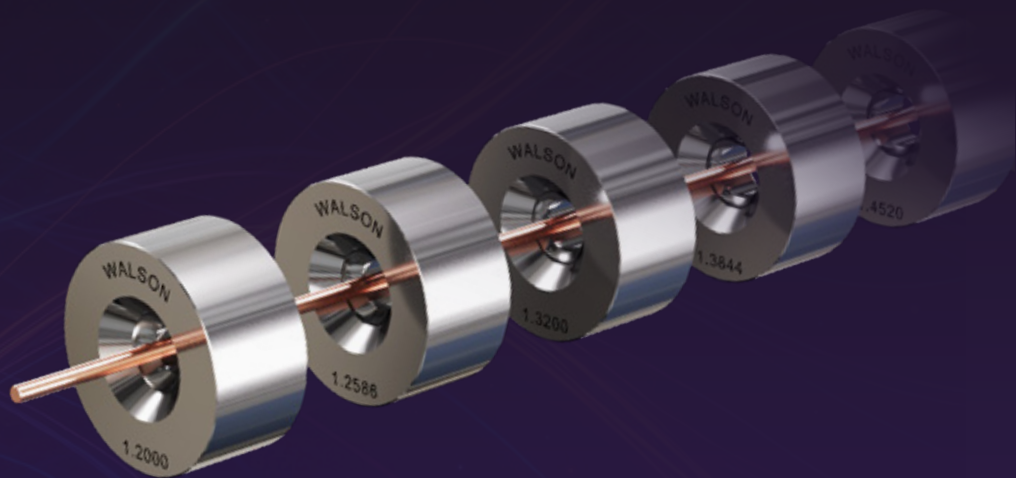
Elongated (Matched) Die Sets

PRECISION. DURABILITY. PERFORMANCE.

Founded in 1997, *Walson Woodburn Wire Die Pvt Ltd* brings decades of combined Indo-American expertise, delivering dies that set the benchmark for precision, performance, and longevity in wire drawing.

An Elongation Die Set is a coordinated pair (or series) of wire drawing dies that are precisely matched in geometry, tolerance, and alignment so that the wire enters one die and transitions into the next with minimal disturbance.

The set is engineered to produce optimal elongation of the wire in a controlled, gradual manner while minimizing stress, friction, and the risk of breaks. Unlike standalone dies, the matched set approach ensures that the wire's path, reduction steps, surface contact, and die tolerances are synchronized. The result: smoother drawing, less slippage, lower production loss, and superior wire quality.



Size Ranges, Reductions & Tolerances

PARAMETER	SPECIFICATION
① Hole Size	From 0.030mm to 2.000mm. For PCD as well as Natural Diamond Dies

Advantages / Key Benefits

Reduced Wire Breakage & Downtime

Because the dies are matched, stress concentrations and abrupt transitions are minimized, dramatically lowering the chance of wire breaks during high-speed drawing.

Optimized Elongation & Productivity

A well-designed elongation set enables more consistent and repeatable elongation (cold work) across multi-stage drawing, allowing manufacturers to push drawing speeds higher while maintaining dimensional control.

Minimized Wire Slip on Capstans

A matched set minimizes fluctuations in wire tension and prevents slippage on the draw bench capstans, improving surface finish and reducing capstan wear.

Lower Fine Generation & Die "Blocking"

A tightly matched set reduces fines generation and helps maintain consistent die performance over longer cycles.

Advantages / Key Benefits

Consistent Wire Surface Quality

Surface defects, scratches, or unwanted distortions are minimized, critical for fine, specialty, or high-spec wires.

Scalable for Multiwire or High-Speed Lines

Matched elongation sets are especially beneficial in multiwire drawing machines where over 800 dies can run in tandem. (Walson Woodburn has successfully made matched-sets for uptown 48-line multi-wire drawing application)

Performance / Metrics / Success Scenarios

Walson Woodburn has successfully made matched-sets for up to 48-line multi-wire drawing application, where over 800 dies running in tandem.

Achieves tighter dimensional accuracy over extended production runs.

Reduces scrap and rework through consistent wire geometry.

WHY CHOOSE WALSON WOODBURN?

Decades of Expertise

Deep experience in wire drawing die manufacturing.

Precision Engineering

Dies with high durability and dimensional accuracy.

Ethical & Sustainable

Diamonds sourced responsibly in line with international standards.

Trusted Worldwide

Reliably serving wire manufacturers across the globe.

Customer-Focused

Solutions tailored to production requirements for maximum efficiency.

SURAT ADVANTAGE

Global Diamond Hub

Surat produces and trades the majority of the world's polished diamonds, giving us direct access to top-grade natural diamonds.

Proximity to Raw Materials

Being at the source allows us to carefully select the highest-quality diamonds for our dies.

Faster Innovation & Supply

Local access enables rapid prototyping, customization, and high-volume production while maintaining consistent quality.

Strategic Advantage

Our location ensures unmatched control over sourcing, selection, and processing, producing dies with superior hardness and long life.

Quality Control

Precise matching of geometry and tolerance across all dies in the set.
Alignment verification and surface finish optimization.

Industry Impact

Essential for operations requiring consistent elongation across multiple stages and high throughput.

Application

Fine wire drawing with multiple reduction stages.

High-speed multi-wire drawing operations.

Specialty and high-precision wire applications.

Continuous drawing processes requiring stable geometry.

Services Offered

Care for WDD

Stereo Zoom Die inspection

Ultrasonic Die Cleaning

Certification





Walson Woodburn™

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