



S.R. ENTERPRISES

SPECIALIZED IN SPECIAL PURPOSE MACHINE (SPM) MANUFACTURING SINCE 1982

OFFICIAL CORPORATE PROFILE



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EXECUTIVE OVERVIEW & HERITAGE

Established in 1982, S.R. Enterprises (SRE) is an ISO 9001:2015 and MSME ZED Bronze certified pioneer in the field of automated engineering systems. Based in the elite industrial zone of Ambattur, Chennai, SRE brings over four decades of unparalleled field experience to deliver high-yielding, custom-built Special Purpose Machines. Rather than limiting our client base to standard catalogs, we act as a complete process system solution provider and highly profitable automation lines.

Our foundation stems from deep engineering roots: our legacy was co-seeded by Mr. V. Shanmugam, a pioneering technocrat originally out of HMT Bangalore, who helped establish the historic machine tool manufacturing ecosystem at Ambattur in the early 1960s. Today, under the Leadership of Mr. S. Vijayaraghavan (CEO & Founder, AMIE, B.Sc. Physics) and next-generation innovator Mr. V. Kishore (Head of Machine Designing, B.E. Mech, MBA), SRE successfully combines classic precision engineering with real-time smart automation systems. With over 600+ robust installations running flawlessly world-wide, SRE continues to deliver cost-effective Machines for India's market leaders.

Our Vision & Mission

VISION	To be India's premier partner in custom automation by delivering robust, high-efficiency machinery that maximizes shop-floor productivity, and guarantees zero-defect turnkey execution, now expanding our proven machines to the international markets.
CORE MISSION	To design and build high-performance Special Purpose Machines that eliminate shop-floor production bottlenecks. We achieve this through floor-centric collaboration with Indian manufacturers, driving substantial cost-efficiencies through high-value import substitution.

2. CORE PRODUCT DIRECTORY & TECHNICAL DATASHEETS

Below is the exact engineering specification catalog of our flagship industrial installations. Every machine structure is fully customized, stress-relieved, and rigorously parameter-tested on-site.

A. Automatic Component Leveling Machine

Leveling technology is S.R. Enterprises core signature field of engineering. Backed by 40 years of continuous iteration, our leveling machines deliver uniform material flatness, completely removing internal metal stresses to guarantee high yield, reliability, and precision speed for subsequent processing material.

Automation Grade	Fully Automatic
Capacity (Thickness)	Up to 10 mm max
Capacity (Width)	Up to 1500 mm max
Leveling Rollers	Up to 21 Hard Chrome Plated Rollers
Material	Heavy-Duty Mild Steel Structural Fabrication
Application	Automotive Component Stamping & Stripping Lines



B. Heavy-Duty Steel Strip Decoiler

Positioned at the immediate vanguard of high-yield pressing, slitting, tube mill, or roll-forming entry lines, our robust material-handling Decoilers securely clamp parent steel rolls and safely manage automated unwinding. They coordinate speed and feed direction dynamically to avoid material snapping or drag failure.

Coil Width Limit	Up to 1500 mm max
Coil Outer Diameter (OD)	Up to 1700 mm max
Coil Inner Diameter (ID)	508 mm (±30 mm tolerance zone)
Uncoiling Line Speed	Synchronized at 15 Meters / minute
Available Types	Automatic sheet uncoilers, motorized variants, double-head mechanical configurations, horizontal mechanical.



C. Precision Strip & Profile Straightening Machine

Engineered directly alongside our leveling systems, our 11-roller high-rigidity straighteners correct curved, distorted, or unaligned parent strips before entry into fine blanking tools. SRE offers custom part trial evaluations directly inside our Chennai test tool room, utilizing specialized Peak Performer configurations.

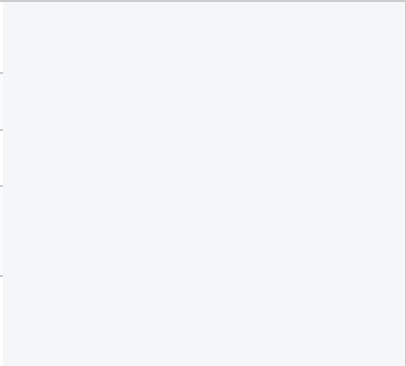
Total Straightening Rollers	11 Nos.
Strip Thickness Range	Up to 10 mm max
Strip Width Range	Up to 1500 mm
Speed Rate	Continuous 15 Meters / minute
Adjustment System	Manual / Automatic



D. Auto-Feed High-Pressure Hydraulic Chopper

An indispensable asset across high-tonnage scrap management and continuous feed sheet-metal sizing setups, this unit utilizes an auto-feed hydraulic mechanism to engage specialized hardened-steel shear blades. High-pressure hydraulic fluid distribution guarantees clean, burr-free cuts even across high-tensile material grades.

Hydraulic Powerpack Unit	Heavy-Duty Up to 30 Tons capacity
Automation Control	PLC Integration with Safety Relays
Max Shearing Width	1500 mm structural limits
Max Shearing Thickness	Up to 5 mm solid tough steel profiles
Cylinder Mechanism	Double-acting balanced high-force industrial cylinder



E. High-Torque Rotary Swaging Machine

Designed for cold forging applications, our rotary swagers implement high-frequency hammer strikes to form precision circular profiles on tube. Because material displacement shapes the workpiece without cutting, scrap generation is near zero, yielding superior grain alignment, enhanced tensile integrity, and a premium smooth surface finish.

Maximum Tube Diameter	Up to 40 mm
Max Tube Wall Thickness	Up to 3 mm solid steel tube sizing
Maximum Swaging Length	Up to 350 mm single stroke feed limits
Main Drive Power	15 HP High-Efficiency Motor Setup
Coolant & Oil Pump	0.5 HP integrated continuous lubrication pack
Tooling Elements	1 Custom-profile ground Die Set provided per requirement



F. Mandrel Straightening Machine

This system provides automated recovery of bent or bowed stainless steel mandrels. The integrated PLC configuration handles automatic tool-less alignment adjustments based on process parameters, ensuring rapid product switchovers and smooth operation without technical operator dependencies.

Control System	Advanced PLC Interface with integrated Recipe Memory
Material Scope	Bare or coated Stainless Steel Mandrel profiles
Tooling Parameters	Zero hardware changeover requirement across varied diameters
Configuration Path	Automatic sensor-driven axis adjustments based on choice



G. High-Speed Centrifugal Parts Hoppers & Feeders

Engineered specifically for feeding and orienting complex, delicate component geometries at high line rates that vibratory bowls cannot match. Our centrifugal hoppers ensure swift component placement to downstream automation lines, acting as an optimal buffer zone for small assemblies.

Drive Architecture	Worm Reduction Gear Motor integrated setup
Speed Regulation	Variable Frequency Drive (VFD) electronic controller
Parts Feed Speed	Ultra-fast delivery up to 150 Parts / minute max limits
Buffer Layout	Linear tooling rails with automatic back-pressure buffer retention



H. Mechanized Press-Matched Recoiler Machine

This specialized material handling unit rewinds sheet strips or finished component skeletons seamlessly as they exit progressive stamping presses. Speed synchronization prevents loop slacking or tension breaks, maximizing factory safety and efficiency.

Drive Elements	Heavy industrial Worm Reduction Gearbox
Speed Control	Variable Frequency Drive (VFD) with active Lubrication Arm
Load Configuration	Bespoke structural variations adapted entirely to line tonnage
Synchronization	Mechanized logic loops to match dynamic speeds of high-speed presses



3. SPECIALIZED AUTOMATED CHAIN ASSEMBLY MACHINE

S.R. Enterprises is globally recognized as an elite specialist in high-speed, automated chain manufacturing lines. With over four decades of deep specialization in the chain segment, our automated assembly frameworks minimize human labor while optimizing precision sizing, loading, and inspection parameters.

1. High-Speed Automatic Chain Assembly Machine

Max Operating Capacity	Up to 140 Strokes Per Minute (SPM)
Chain Pitch Parameters	Up to 44.5 mm max range capacity
Electric Drive Power	Up to 15 HP High-Efficiency Balanced Motor
Compatible Forms	Automobile Chains, Cam/Timing, Heavy Roller, Silent, and Leaf Chains



System Highlights:

- Electro-magnetic clutch safety system linking every tool position directly.
- Automatic Emergency Braking: Stops line cycles instantly if a single component or block is missing.

2. Four-Pillar Chain Sizing & Riveting Machine

Built with a rigid four-pillar design, this machine guarantees absolute parallel alignment under stress. It delivers uniform rivet heading across outer chain blocks while automatically tripping lines via a mechanical interlock if processing deviations occur.

Frame Architecture	Robust Four-Pillar Balanced Design
Control Intelligence	Integrated Motor Braking & Interlocking Controls
Rivet Accuracy Target	Uniform spread across outer block links with precise sizing tolerance



2. Full-Load Chain Proof Loading / Preloading Machine

To eliminate early structural slack on factory floors, our preloading machines pass newly assembled chains across synchronized drive sprockets under high tension. This pre-stretching ensures reliable mechanical performance and long runtime.

Tension Loading Ratio	Continuous load fixed at 1/3rd of chain ultimate breaking load
Drive Configuration	Integrated heavy-duty sprocket and gear tracking mechanism
Process Target	Pre-stretching links to eliminate early wear and increase roller durability



3. Specialized Chain Process Group

Pitch Cutting System	Hydraulic Shearing Unit with HMI Touch Panels & PLC controls
Vision Inspection System	Automated missing component vision cameras linked to line alarms



System Highlights:

- HMI interface on pitch cutters allows operators to program accurate link counts for sizing.
- Vision system acts as an electronic gatekeeper, logging flaws to maintain international standards.

4. IN-HOUSE MANUFACTURING ASSETS & QUALITY FRAMEWORK

SRE manages all fabrication, precision boring, and sub-assembly inside our fully equipped, Industrial tool room facility in Chennai. We control the production timeline internally to prevent errors or delivery delays.

Complete List of In-House Tool Room Machinery:

Precision Machining & Boring Equipment	Fabrication, Grinding & Support Systems
• Heavy Planomilling Machine Setup	• Precision Cylindrical Grinding Machine
• Heavy Industrial Planning Machine	• Precision Surface Grinding Machine
• High-Precision Jig Boring Machine (WMW, Germany)	• Specialized Tube Swaging Machine Station
• High-Precision Jig Boring Machine (Japan Origin)	• High-Capacity Bandsaw Metal Cutting Unit
• Vertical Milling Machine Station	• Industrial Arc Welding Machine Sets
• M1TR Advanced Milling Machine	• Advanced Inverter Welding Infrastructure
• Heavy-Duty Radial Drilling Machine	• Heavy Angle Grinding Stations
• Robust Pillar Drilling Machine Line	• Portable Straight Grinding Tools
• Heavy-Duty 4 Ft Precision Lathe	• High-Impact Die Grinding Hand Tools
• Heavy-Duty Production Lathe Units	• Heavy Hand Drilling Tool Equipment
• Precision Mechanical Shaping Machine	• 25 KW Powerica Diesel Generator Set (100% Floor Backup)

Rigorous Quality System Integration

- Quality Certificate Registration: Fully audited and verified ISO 9001:2015 compliant. Certificate No. Q-220719003.
- MSME Benchmark Level: Zed Bronze Rated Enterprise committed to zero-defect workflows.
- Component Verification Protocols: Stage-by-stage geometric checking, alignment tracking, and full dynamic test runs before final dispatch.

5. CLIENT TRUST MATRIX & CORNERSTONES

Our finest endorsement lies within the production lines of our customers. SRE acts as an integral engineering partner for India's tier-1 automotive manufacturing hubs and heavy engineering conglomerates, optimizing cycle metrics and securing major financial turnarounds through domestic import substitution.

Our Prestigious Clients Includes:

TI Group India	Sundaram Fasteners Ltd.	BorgWarner	Wheels India
TVS Rubber	LGB Chain Group	Rockman Industries	Indian Immunologicals
Kadimi Special Steels	Tonglit Autogistic	Yamari Sensors	SVPC Group
Mudhra Fine Blanc	Impress Drill	SS Techno Fab	Scolarian Trackers

Deep Strategic Multistate Partnerships:

S.R. Enterprises delivers robust, custom-engineered manufacturing systems to clients across India. Our automated production lines and special-purpose machines drive day-to-day manufacturing efficiency across critical industrial hubs in India.




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