

CAPABILITY OVERVIEW — FOR EV PRODUCT & SOURCING TEAMS

From the mill. To your frame.

Precision steel tubes — profile-cut, bent, pressed and welded into complete two- and three-wheeler sub-assemblies. Vertically integrated under one roof, and an approved supplier to a leading Indian two-wheeler OEM since 2006.

2006

approved OEM supplier since

6 stages

mill to sub-assembly, in-house

Since 1974

Silver Bright Group heritage

ISO 9001:2015

certified

Three reasons, up front



One roof

Steel comes in direct from the mill; tube forming, laser profile-cutting, 5-axis bending, pressing and welding all happen under our purview — one partner, one unbroken quality chain.

FULLY INTEGRATED



Lighter by design

We co-develop HSLA grades with the steel mills to replace standard CRCA — thinner walls, the same structural safety, and more range and payload for your EV.

MORE RANGE



OEM-grade





An approved supplier to a leading Indian two-wheeler OEM since 2006, building to their audit standards — your parts are qualified to that rigour from the very first batch.

AUDIT-READY

*Already on the road — in a **flagship electric scooter** and **mass-production motorcycles**.*

A tube plant that grew into a frame shop

Operating two high-speed tube mills in Chinchwad since 2006, and part of the Silver Bright Group (est. 1974). We began in precision steel tube – then added laser cutting, CNC bending, pressing and welding so we can deliver finished sub-assemblies, not just stock lengths.

-  Operating since 2006
-  Two high-speed tube mills
-  Approved supplier to a leading two-wheeler OEM
-  ISO 9001:2015 certified

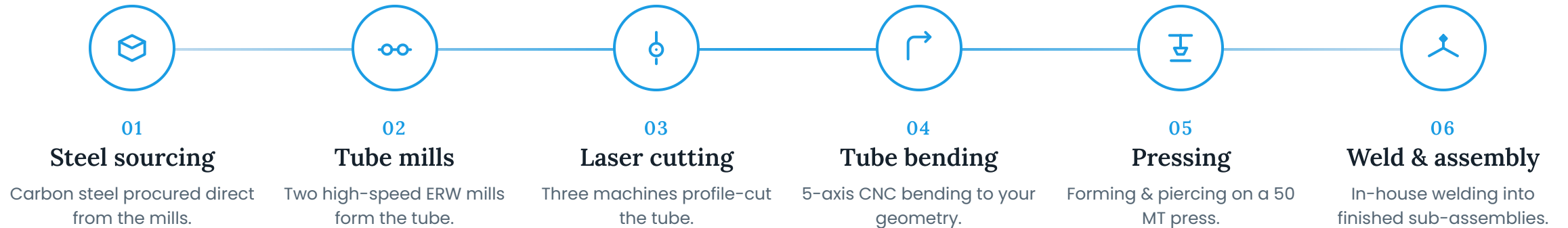
Precision Steel Tubes

ERW tube in low-carbon & HSLA grades – round, square, rectangular, oval, elliptical and custom sections.

Fabricated Sub-Assemblies

Chassis, swing arms, handlebars and center stands – cut, bent, pressed and welded into finished parts.

Six stages, one supplier



Everything between raw steel and a finished, welded part stays under our control — **fewer vendors, one accountable quality chain, and faster development loops.**

Inside the line



Tube mills

Two high-speed ERW mills. Round, square, rectangular, oval, elliptical & custom sections.



Laser profile cutting

Three tube-laser machines – holes, slots, profiles and trim cut straight onto the tube we make.



5-axis tube bending

CNC bending to complex, repeatable geometries – added through a dedicated vendor partnership.



Press shop

50 MT press for forming, piercing and end operations on fabricated parts.



Welding & assembly

Full welding setup for jugged, fixtured sub-assembly builds with repeatable quality.






Material control

Carbon steel sourced direct from the mills – full traceability from coil to finished part.

Thinner tube. Same safety. More range.

EV range and payload start with mass. We work continuously with the steel mills — including **SAIL** — to develop HSLA grades that can replace standard CRCA, letting us cut wall thickness without giving up structural safety. For a startup chasing every extra kilometre of range, that is weight taken out of the frame before the battery is even sized.

-  **Higher strength-to-weight**
thinner gauge for the same load case
-  **No compromise on safety**
structural margins held to your spec
-  **More range & payload**
less mass to move, charge after charge



VAVE is in the culture, not the brochure

We treat value analysis and value engineering as a habit, not a one-off review. From the first drawing we look for ways to take out cost, weight and process steps – consolidating parts, rethinking joints, switching grades – and bring those ideas back to you **before** tooling is cut.



Part consolidation

Combine multiple components into single fabricated assemblies.



Material down-gauging

HSLA grades and tighter sections to remove weight, not strength.



Process simplification

Fewer operations, fewer handoffs, shorter lead times.

Already built into bikes on the road



Electric-scooter swing arm

We form the tube and profile-cut the swing arm for a Tier-1 vendor – fitted to a leading electric scooter on Indian roads today.



Production-bike center stand

Tube, laser profile-cut and pressed on our 50 MT line into the center stand for mass-production motorcycles.



Approved OEM supplier

Direct and Tier-1 supply to a leading Indian two-wheeler OEM since 2006, under audit-grade quality systems.

Why it matters: these are audit-grade programmes. The standards they demand are the standards your parts are built to – from batch one.

The whole sub-assembly, not just the tube

A Chakan-based EV two-wheeler startup recently handed us their complete sub-assembly package – chassis, handlebar, center stand and swing arm – to develop and build end to end. That is the model we want with you: bring the concept, and we take it from material selection through to finished, welded assemblies.

• Chassis

• Handlebar

• Center stand

• Swing arm



4 of 4

major sub-assemblies for one EV platform –
developed and built in-house

What we can make for you

TUBE SHAPES

Round, square, rectangular, oval, elliptical & custom sections.

GRADES

Micro Alloy, SKTM, HSLA, GP, CRFH & CRCA.

FABRICATION

Laser profile-cutting, 5-axis bending, 50 MT pressing & welding.

SUB-ASSEMBLIES

Chassis, swing arms, handlebars, center stands & more.

SECTORS

EV two- & three-wheelers, automotive, infrastructure, engineering.

QUALITY

ISO 9001:2015 · full material traceability · OEM-audited systems.

NEXT STEP

Send us one sub-assembly.

Share a drawing — or even a concept sketch. Within 48 hours we'll come back with manufacturing feasibility, a lightweighting or VAVE opportunity, a material recommendation and an indicative lead time. No obligation.



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Manufacturing is our path — Service is our goal