TruSkew™
Truly Precise

CAPABILITIES · TRUSKEW NETWORK

MANUFACTURING CAPABILITIES

Multi-process precision manufacturing, coordinated and quality-assured under one partner. Engineering and inspection run in-house; production is routed to the bestqualified facility in a vetted, audited network, managed end-to-end.

8
CORE PROCESSES

±0.005
MM CAPABLE GROUND / EDM

8
INDUSTRY VERTICALS

100%
INSPECTION · MTC PER BATCH

CIN: U25999KA2026PTC222038
Global export-ready · MTC · FAIR · CoC

TRUSKEW PRECISION TECHNOLOGIES PVT LTD

ANY PROCESS YOUR PART NEEDS - ALLOCATED TO THE BEST - QUALIFIED PARTNER.

TruSkew is not a single shop floor. We are a precision manufacturing orchestrator: engineering and quality are run in-house, while production is routed to the partner in our vetted, audited network best qualified for your part's process, tolerance, material and volume.

One standard, whichever facility machines the part

Every capability in this brochure is delivered to the same engineering review, the same first-article inspection and the same traceable documentation — regardless of which facility cuts the part. You get the breadth of a multi-process supply base with the accountability of a single point of contact.

01

Engineering in-house

Drawing review, DFM feedback, process routing and fixturing strategy owned by TruSkew engineers before any chip is cut.

02

Best-fit production

Work is allocated to the qualified, audited partner matched to your tolerance band, material and volume — not to whoever is free.

03

Quality & delivery

First-article inspection, 100% dimensional checks and full traceability, then delivered ready-to-fit from Bangalore to global markets.

100% inspection

Dimensional reports on every order — not a sampling plan.

Full traceability

MTC, FAIR and CoC packaged with every delivery, traceable to heat number.

Export-ready

Global shipping on DAP / DDP / FCA / FOB terms, NDA on every enquiry.

INDUSTRIES WE SERVE

- Electric Vehicles
- Aerospace
- Defence
- Medical & Lab
- Renewable Energy
- Railways & Metro
- Oil & Gas
- Industrial Automation

25 YEARS OF MACHINING HERITAGE

TruSkew is the corporatised successor to S. Karar & Engg Works, a family engineering business with a quarter-century of precision machining relationships. That legacy is the foundation of the partner network, proven shops, known operators, and standards earned over decades, now coordinated under one quality system.

TRUSKEW PRECISION TECHNOLOGIES PVT LTD

CNC TURNING

Bar and chuck work on Swiss-type, sliding-head and chucker lathes, including multi-axis turn-mill centres with live tooling for one-hit production of complex rotational parts. Crossholes, flats, threads and slots in a single setup eliminate re-fixturing errors.

SPEC SHEET

C-01 · TS-CAP

MAX DIA
Ø 320 mm chucker · Ø 32 mm Swiss

MAX LENGTH
1,500 mm BTC

TOLERANCE
±0.01 mm typ · ±0.005 mm capable

SURFACE
Ra 0.8 µm as-turned

AXES
Up to 9-axis turn-mill, live tooling



TYPICAL APPLICATIONS

- Shafts, spindles, pins, bushings
- Hydraulic & pneumatic fittings
- Connector bodies & valve cores
- Automotive & EV powertrain parts

MATERIALS

- Alloy steels
- Stainless
- Aluminium
- Brass
- Copper
- PEEK / Delrin

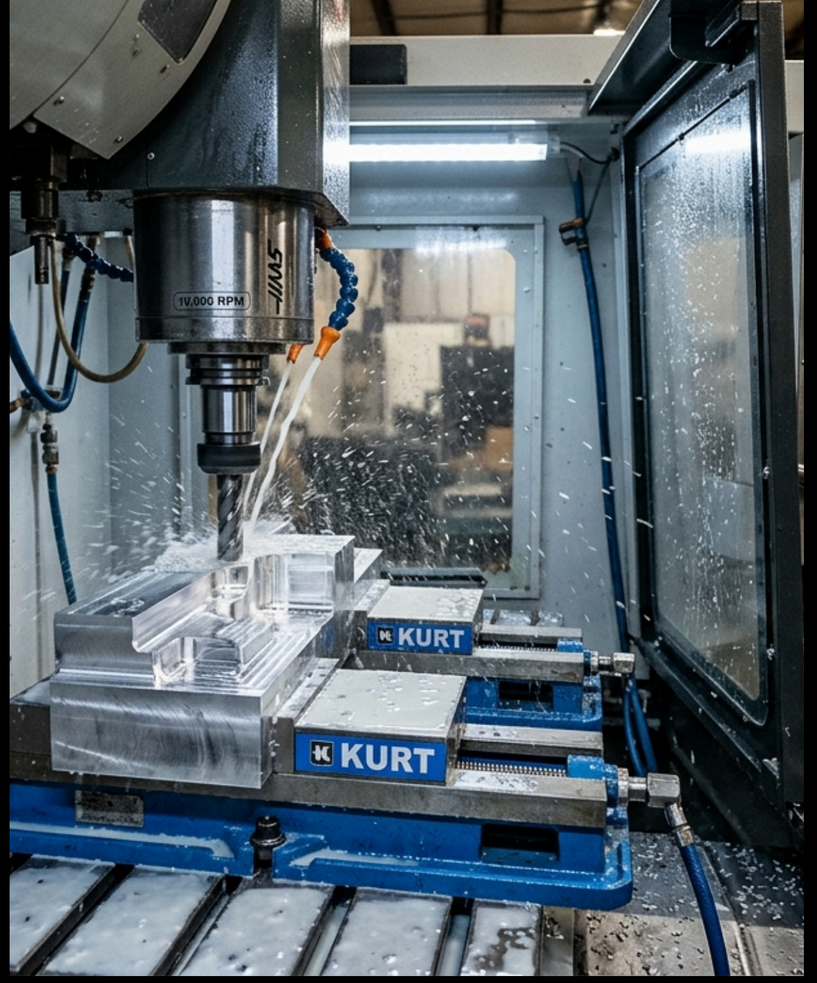
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TECHNOLOGIES PVT LTD

TYPICAL APPLICATIONS

- Aerospace structural brackets & housings
- Medical instruments & implants
- Mould tooling & jigs / fixtures
- Defence sub-components

MATERIALS

- Al 6061 / 7075
- SS 304 / 316 / 17-4PH
- Titanium Gr 5
- Tool steels



CNC MILLING

3-, 4- , 5-, 6-, and 9-axis milling for prismatic and freeform geometries. 5-axis simultaneous strategies keep the tool normal to complex surfaces, reducing setups to one and holding true position on datum-critical features like turbine blades, implants and mould cores.

SPEC SHEET

C-02 · TS-CAP

MAX TRAVEL
X 1,200 · Y 600 · Z 600 mm

AXES
3 / 4 / 5-axis simultaneous

SPINDLE
Up to 18,000 rpm, HSK63

TOLERANCE
±0.01 mm typ · ±0.005 mm capable

SURFACE
Ra 0.4 – 1.6 µm

TRUSKEW PRECISION TECHNOLOGIES PVT LTD

PRECISION GRINDING

Cylindrical, surface and centerless grinding for hardened components. CBN and vitrified wheels remove material at the micron scale while holding roundness under 1 µm; temperature-controlled coolant eliminates thermal drift on long shafts.

TYPICAL APPLICATIONS

- Motor shafts & rotor cores
- Bearing rings & races
- Spindles & ground pins
- Hydraulic spool valves

MATERIALS

- Hardened alloy (EN24, EN31)
- Stainless 410 / 440
- Tool steels (D2, M2)



SPEC SHEET C-03 · TS-CAP

PROCESSES
Cylindrical · Surface · Centerless

OD CAPABILITY
Ø 3 – Ø 300 mm

ROUNDNESS
≤ 1 µm

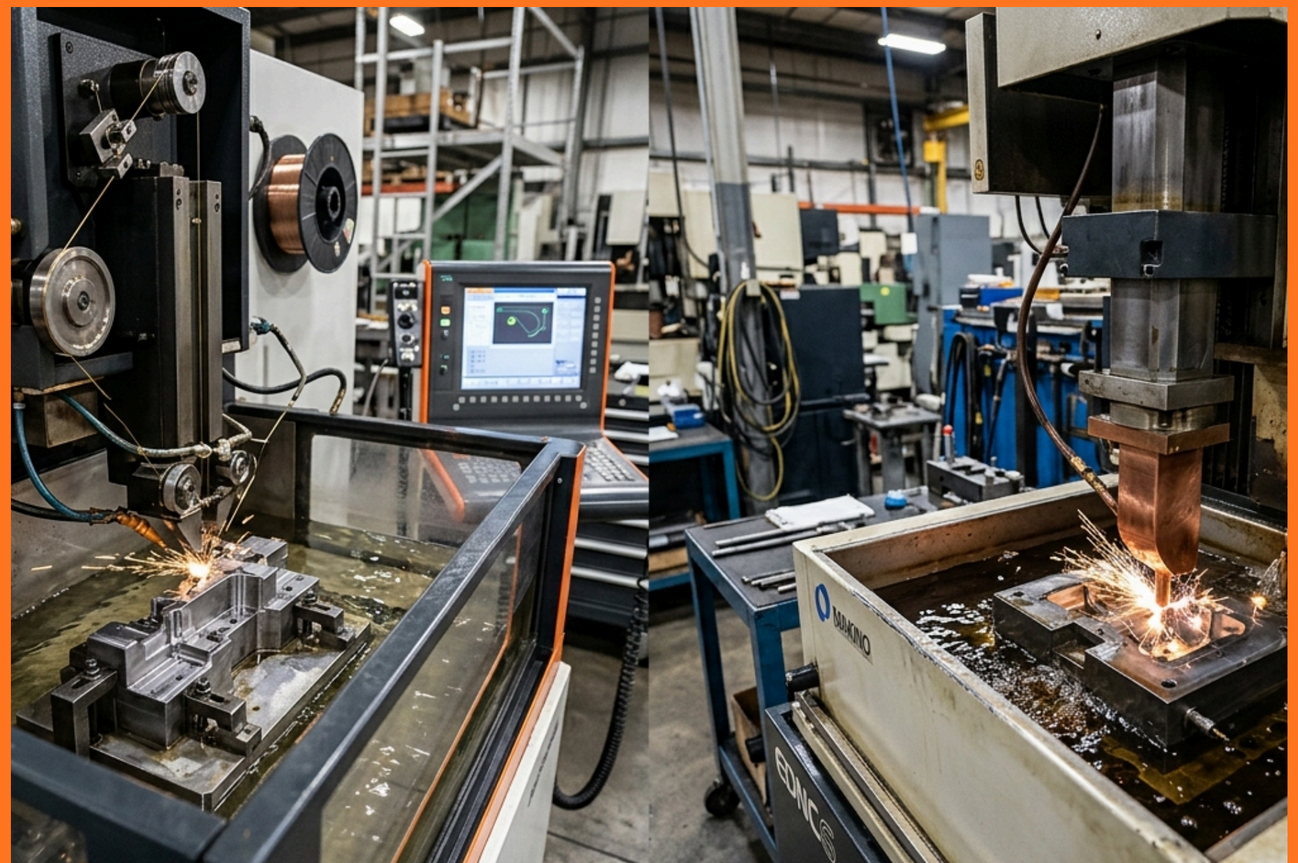
TOLERANCE
IT3 – IT5 (h5 / h6)

SURFACE
Ra 0.1 – 0.4 µm

TRUSKEW PRECISION
TECHNOLOGIES PVT LTD

WIRE EDM & SPARK EROSION

Wire EDM and sinker (die-sink) EDM for intricate profiles, deep cavities and hardenedmaterial features conventional cutting can't reach. Because material is removed by spark erosion, post-hardened tool steels, carbide and exotic alloys cut without softening or deflection.



SPEC SHEET C-04 · TS-CAP

WIRE DIA
0.10 – 0.30 mm brass / coated

CUT HEIGHT
Up to 300 mm

TAPER
± 30° (wire) · profile EDM

TOLERANCE
±0.005 mm

SURFACE
Ra 0.2 µm (multi-pass)

TYPICAL APPLICATIONS

- Press tools, dies & punches
- Aerospace fir-tree slots
- Medical surgical features
- Precision profile cut-outs

MATERIALS

- Tool steels 60+ HRC
- Carbide
- Inconel / Hastelloy
- Titanium

TRUSKEW PRECISION
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TYPICAL APPLICATIONS

- Industrial enclosures & cabinets
- EV battery trays & brackets
- Defence housings & panels
- Ducting & frame assemblies

MATERIALS

- Cold-rolled steel
- Galvanised
- SS 304 / 316
- Al 5052 / 6061



SPEC SHEET

C-05 · TS-CAP

LASER
Fibre · 0.5–20 mm MS · to 12 mm SS

BEND LENGTH
Up to 3,000 mm

TONNAGE
Up to 200 T press brake

WELDING
MIG · TIG · Spot · Robotic

TOLERANCE
±0.1 mm laser · ±0.2 mm bend

SHEET METAL FABRICATION

Fibre laser cutting, CNC press-brake bending, MIG / TIG / spot welding and finishing, from one-off enclosures to high-volume formed parts. Press brakes with CNC back-gauges, robotic welding cells and integrated powder-coat convert flat blanks into finished weldments under one roof.

TRUSKEW PRECISION TECHNOLOGIES PVT LTD

HEAT TREATMENT

Through-hardening, case-hardening, induction hardening, tempering and stress relieving, process-controlled to your drawing's hardness and case-depth spec. Sealed-quench and vacuum furnaces deliver repeatable metallurgy with minimal distortion and no decarburisation.

TYPICAL APPLICATIONS

- Hardened shafts & gears
- Wear surfaces on tooling
- Stress relieving for welded fab
- Spring tempering

MATERIALS

- Carbon & alloy steels
- Case-hardening (16MnCr5)
- Tool steels (D2, H13)



SPEC SHEET

C-06 · TS-CAP

HARDNESS
Up to 62 HRC

INDUCTION
Selective surface 50 – 60 HRC

CASE DEPTH
0.3 – 1.5 mm (carburising)

FURNACE
Sealed quench · vacuum (optional)

VERIFY
Rockwell / micro-hardness reports

TRUSKEW PRECISION TECHNOLOGIES PVT LTD

SURFACE FINISHING

Decorative and functional coatings, corrosion protection, wear resistance, electrical insulation and aesthetic finishes, qualified to your end-application. Every spec thickness, adhesion, colour, salt-spray hours, is called out on the router and verified on first article.

SPEC SHEET

C-07 · TS-CAP

ANODISING
Type II · Type III hardcoat · colour

PLATING
Zn (yellow / blue / black) · Ni · Cr

BLACK OXIDE
Hot & cold blackening

PASSIVATION
ASTM A967 (citric / nitric)

PAINT
Powder coat · wet paint · e-coat



TYPICAL APPLICATIONS

- Anti-corrosion on outdoor assemblies
- Cosmetic finishes on consumer parts
- Hardcoat anodising for wear
- Electrical isolation on aluminium

MATERIALS

- Steel & stainless
- Aluminium alloys
- Brass / copper
- Zinc / die-cast

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TYPICAL APPLICATIONS

- Motor shaft + rotor balanced sub-assemblies
- Valve / actuator builds
- Gear assemblies & bearing presses
- Cable harness integration

MATERIALS

- Customer-supplied or co-sourced components

Mechanical and electro-mechanical sub-assembly with controlled torque, balancing and functional testing, delivered ready-to-fit to your line. Every fastener torque and press force is logged against the serial number; sub-assemblies arrive kitted, labelled and traceable to heat numbers.



SPEC SHEET C-08 · TS-CAP

ENVIRONMENT
Clean assembly bay, anti-static

TORQUE
Digital torque-controlled fastening

BALANCE
Dynamic balancing G2.5 – G6.3

TEST
Functional · leak · continuity

TRACE
Serial-number traceable, full BOM log

PRECISION ASSEMBLY & SUB-ASSEMBLIES

TRUSKEW PRECISION
TECHNOLOGIES PVT LTD

MATERIALS WE MACHINE, GRADE BY GRADE.

We work to your specified grade with mill test certificates (MTCs) on every batch. Don't see your grade? Ask our network spans dozens more.

Stainless Steels

CORROSION · MEDICAL · FOOD · MARINE

`304` `316 / 316L` `410 / 420` `17-4 PH`

Austenitic 304/316L handle chlorides, food-contact and marine service without plating; martensitic 410/420 harden for wear parts; 17-4 PH combines strength up to 1,000 MPa UTS with corrosion resistance for aerospace and pump components.

Alloy Steels

HARDENABLE SHAFTS & GEARS

`EN8 / C45` `EN19 / 42CrMo4` `EN24 / 817M40`

Medium-carbon alloys machined soft, then heat-treated to 28–55 HRC for torsional strength and fatigue life. EN24 and 42CrMo4 are the workhorse grades for motor shafts, gears, spindles and heavy-duty fasteners.

Aluminium

LIGHTWEIGHT · AEROSPACE · EV

`6061-T6` `7075-T6` `5052` `2024`

6061-T6 is the all-purpose choice — weldable, anodisable, easy to machine. 7075 and 2024 deliver near-steel strength at a third the weight for aerospace structure. 5052 sheet forms cleanly for EV battery trays and enclosures.

Brass

CONNECTORS · FLUID & GAS

`CuZn37` `CuZn39Pb3`

Free-cutting brass runs at very high spindle speeds with excellent chip control — ideal for high-volume Swiss-turned fittings, valve bodies and electrical connectors. Corrosion-resistant in fluid/gas service; RoHS lead-free grades available.





Copper

ELECTRICAL · THERMAL · BUSBARS

`Cu-ETP` `Beryllium copper`

Cu-ETP offers the highest electrical and thermal conductivity for busbars, heat sinks and grounding hardware. Beryllium copper (C17200) age-hardens to spring-steel strength while retaining conductivity for non-sparking tools and connectors.

Titanium

AEROSPACE · MEDICAL · DEFENCE

`Grade 2 (CP)` `Grade 5 (Ti-6Al-4V)`

Best-in-class strength-to-weight, biocompatible and corrosion-proof in seawater and body fluids. Grade 2 is the formable commercially-pure grade; Grade 5 is the aerospace and medical-implant standard, machined with sharp tools and generous coolant.

Engineering Plastics

INSULATION · LOW-FRICTION

`PEEK` `Delrin / POM` `Nylon 6 / 66` `PTFE`

PEEK for high-temperature, chemical-resistant service to 250 °C continuous. Delrin/POM for stiff, low-friction gears and bushings. Nylon and PTFE for wear, insulation and sealing — machined with stress-relief cycles between roughing and finishing.

Specialty

HIGH-TEMP · CORROSIVE SERVICE

`Inconel 718 / 625` `Hastelloy` `Monel`

Nickel superalloys retain strength above 700 °C for turbine, oil-and-gas and reactor components. Hastelloy and Monel resist chloride pitting and acidic media where stainless fails — machined slow with ceramic or coated-carbide tooling.

TRUSKEW PRECISION TECHNOLOGIES PVT LTD

PRECISION YOU CAN MEASURE AND VERIFY.

Capability is only real when it is documented. Every order ships with dimensional reports and material test certificates, backed by calibrated, traceable inspection.

TOLERANCE CAPABILITY

±0.005 mm

Achievable on ground & honed features. General machining (mill / turn) holds ±0.01 mm typical.

±0.005 ±0.01 ±0.05 ±0.1 mm

Tight (grind / EDM) → General (mill / turn)

SURFACE FINISH (RA)

0.4 – 3.2 µm

Finer than Ra 0.1 µm achievable on ground surfaces.

Mirror / ground	Ra 0.1 – 0.4
Fine machined	Ra 0.4 – 0.8
General machined	Ra 0.8 – 1.6
Rough machined	Ra 1.6 – 3.2

100% INSPECTION ON EVERY ORDER

Dimensional reports and Material Test Certificates (MTC) ship with every delivery, with FAIR and CoC on request.

INSPECTION EQUIPMENT

CMM — Coordinate Measuring Machine
Programmed dimensional inspection.

Height Gauges & Micrometers
Digital, calibrated, traceable.

Profile Projector & Roughness Tester
Surface finish Ra verification.

Hardness Tester (Rockwell / Vickers)
Post-heat-treat verification.

TRULY PRECISE.

NOT SURE WHICH PROCESS? UPLOAD YOUR DRAWING, OUR ENGINEERS RECOMMEND THE OPTIMAL ROUTE.

Get a Quote — sales@truskew.com
Files reviewed within 4 business hours

NDA on every enquiry · No minimum order for prototypes · Global shipping · DAP / DDP / FCA / FOB

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COMPANY

CIN: U25999KA2026PTC222038
GSTIN: 29AANCT2202P1ZV
Traceability: MTC · FAIR · CoC

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