

Sparkonic Industries

Service Request Examples

A Comprehensive Guide for Writing Detailed Project Descriptions

This document provides detailed examples of how to describe your project requirements when requesting quotes from Sparkonic Industries. Each example demonstrates the level of detail that helps us provide accurate quotes and deliver exactly what you need. **Our Core Services:**

- CNC Wire Cut with precision tolerances
- EDM Machining for complex geometries
- Press Tool Manufacturing
- Jig Fixtures for production
- EDM Micro Drilling
- CAD Design & Technical Drawings

What to Include in Your Request:

- Material specifications and hardness
- Exact dimensions and tolerances
- Quantity required
- Timeline expectations
- Whether drawings exist or need creation
- Special requirements or industry standards

CNC Wire Cut

Example 1: Injection Mold Inserts

Need wire cutting for injection mold inserts. Material: H13 tool steel, 40mm thick. Complex cavity shape with sharp corners and 0.02mm tolerance. Quantity: 2 pieces. We can create the technical drawing from your sample part or rough sketch. Required in 10 days.

Example 2: Progressive Die Punches

Wire cut required for progressive die punches. Material: D2 tool steel, hardened 60 HRC. Punch profile: 50mm x 30mm with intricate curves. Quantity: 8 pieces. Need AutoCAD drawing creation as we only have hand sketches. Surface finish Ra 0.8.

Example 3: Automotive Jig Components

Precision wire cutting for automotive jig components. Material: EN31 steel, 25mm thickness. Multiple slots and profiles with $\pm 0.03\text{mm}$ accuracy. 15 pieces required. Can provide drawing service from your existing component for reference.

EDM Machining

Example 1: Plastic Injection Mold Cavity

EDM machining for plastic injection mold cavity. Material: P20 steel, pre-hardened. Cavity dimensions: 180mm x 120mm x 60mm deep. Complex 3D contours with 1° draft angles. Need both roughing and mirror finishing. Single cavity required.

Example 2: Forging Die Impression

Sink EDM required for forging die impression. Material: H13 hot work steel, 45 HRC. Die cavity: 200mm diameter x 80mm deep with complex

geometry. Need high surface finish for part quality. Timeline: 20 days.

Example 3: Aluminum Die Casting Mold Core

EDM for aluminum die casting mold core. Material: H13 steel. Core dimensions: 150mm x 100mm with cooling channels and complex undercuts. Need precision finishing for smooth part ejection. Quantity: 1 piece.

Press Tool Manufacturing

Example 1: Progressive Die for Sheet Metal

Complete progressive die for sheet metal component. Part material: MS 2mm sheet. Operations: blanking, piercing 4 holes (8mm dia), bending 90°. Production: 20,000 pieces/month. Need complete die design, manufacturing and tryout. Can work from your component sample.

Example 2: Compound Die for Electrical Bracket

Compound die for electrical bracket manufacturing. Material to stamp: Brass 1.5mm thickness. Blanking outer profile + 6 piercing operations. Die should handle 5000 pieces before maintenance. Need tool design and manufacturing from part drawing.

Jig Fixtures

Example 1: CNC Machining Fixture

CNC machining fixture for engine block components. Need to hold cast iron part (weight: 15kg) for drilling and milling operations. Fixture must ensure repeatability within 0.05mm. Material: Cast iron fixture base. Quantity: 2 fixtures needed.

Example 2: Welding Jig for Frame Assembly

Welding jig for frame assembly in production. Frame size: 400mm x 300mm, MS construction. Jig should position 6 components simultaneously with quick clamping system. Need fixture design and manufacturing from assembly drawing.

EDM Micro Drilling

Example 1: Hardened Tool Steel Components

Micro hole drilling in hardened tool steel components. Hole diameter: 0.3mm, depth: 12mm. Material: D2 steel, 58 HRC. 50 components with 4 holes each. Holes must be perfectly straight with smooth walls for hydraulic application.

Example 2: Injection Mold Venting

Precision micro drilling for injection mold venting. Hole size: 0.4mm diameter, various depths 8-15mm. Material: P20 mold steel. 25 holes total across 3 mold inserts. Critical for plastic flow and part quality.

CAD Design/Drawing

Example 1: CNC Machined Housing Drawing

AutoCAD drawing creation for CNC machined housing. Have sample part and basic dimensions. Need complete manufacturing drawing with GD&T, surface finish callouts, and material specifications. Part has milled pockets, drilled holes, and tapped features.

Example 2: Wire Cut Die Plate Drawing

Technical drawing required for wire cut die plate. Have hand sketch with approximate dimensions. Die plate: 200mm x 150mm x 40mm with complex internal profile. Need precise CAD drawing for wire cut programming with all dimensions and tolerances.

Example 3: CNC Turned Components Drawing

Need 2D manufacturing drawings for CNC turned components. Have 3D model file. Components include shafts, bushings, and flanges. Require detailed drawings with machining notes, surface finish, and inspection dimensions for production.

Contact Information

Sparkonic Industries

Pune, Maharashtra – 411046, India

Phone: +91 95525 39630

Email: sparkonic@yahoo.com

Specialization:

14+ years experience in precision engineering & tooling

CNC Wire Cut | EDM Machining | Press Tools | Jig Fixtures

CAD Design & Technical Drawings

Ready to start your project? Use these examples as a guide to provide detailed project descriptions. The more information you provide, the more accurate our quote will be.