

Gear, Spline & Rack — RFQ Data Sheet

Potesta & Company LLC · Rhino Gear (spur · helical · worm · splines · sprockets · pulleys) and RackPro (rack & pinion)

The more of this we have up front, the faster and more accurate our quotation. Fields marked * are needed before we can quote. If a drawing exists, attach it — a drawing answers most of these questions at once, and a sketch with dimensions is far better than nothing.

1 · Customer & Requirement

* Company: _____

* Contact / email / phone: _____

* Part or drawing number (yours): _____

Our part number, if a repeat: _____

* Quantity required, and annual usage if recurring:

* New part or replacement of an existing one:

Date needed / target lead time: _____

Drawing attached? (strongly preferred): _____

2 · What Kind of Gear

* Type: spur / helical / worm & worm wheel / internal / ring gear / gear segment / pinion / spline / sprocket / pulley / gear rack

* If a mating part exists, what is it and who made it:

Is this one of a matched set (rack + pinion, worm + wheel)?:

3 · Gear Geometry (the critical section)

Give whatever you have. If you have a drawing, attach it and skip what it already shows.

* Module or diametral pitch: _____

* Number of teeth: _____

* Pressure angle: _____

Helix angle and hand, if helical: _____

Outside / pitch / root diameter: _____

* Face width: _____

Bore, keyway, hub or mounting detail: _____

Tooth thickness or backlash required: _____

Quality / accuracy class (AGMA or DIN), if specified: _____

For splines — standard and callout (e.g. ANSI B92.1 8/16, DIN 5482), fit class: _____

For racks — module, pressure angle, length per piece, total length, ground or milled: _____

For racks — are pieces to be butted end to end for a continuous run?: _____

For sprockets — chain size and number of strands: _____

4 · Material, Heat Treat & Finish

* Material, or tell us the application and we will recommend: _____

Heat treatment and required hardness (case or through): _____

Case depth, if specified: _____

Surface finish or coating: _____

Any material certification or traceability requirement: _____

5 · Application & Duty

This is what lets us tell you whether the design will survive, rather than just quoting what you drew.

* Machine or equipment the gear goes into: _____

* Torque or power transmitted, and input speed: _____

* Duty — continuous / intermittent / oscillating; hours per day: _____

Load character — steady / dynamic / shock or impact: _____

Required life, if specified: _____

Operating temperature and environment: _____

Lubrication method: _____

6 · Commercial & Special Requirements

Target price or budget, if you have one: _____

Standards or certifications required: _____

Inspection or documentation required with the parts:

Packaging or marking requirements: _____

Anything else we should know: _____

For office use — triage

Routine (templated path) ☐ Escalate — judgment required ☐ Reason if escalated: _____

Logged in Microsoft Lists ☐ Job folder created ☐ Shop feasibility confirmed ☐

Taken by: _____

Date and time inquiry received: _____

Master document — do not type into this file. Copy it into the job folder and work from the copy.