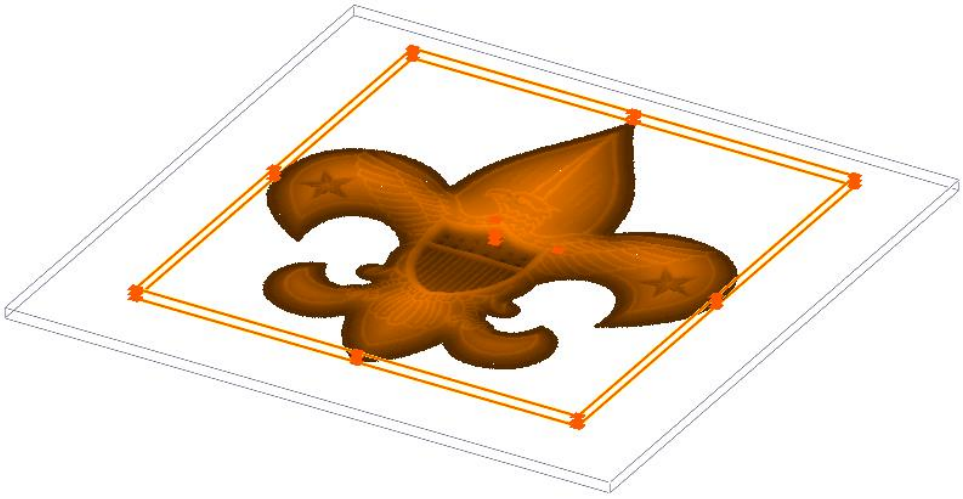
CIMAGRAFI 26

From Idea to Finished Part

Know the cost. Lower it. Win the job.

Design · Trace · Relief · Machine · Quote · Optimize

GraphiTech Ltd. · Shtooltz Ltd. · www.graphitech.net



A fleur-de-lis relief built in P2P from a flat outline.

For 35 years, designers and machine shops all over the world have trusted Cimagrafi to turn ideas into finished parts. Cimagrafi 26 adds what a shop needs most today: it knows what a job will cost before the first chip is cut, quotes it with the help of AI, finds the cheapest way to cut it with the tools already on your shelf, and helps you choose the machine, material and cutters that make the most sense.

–76 %	**–45 %**	**7**	**0**
cycle time: 17.8 → 4.3 minutes	cost per part: 50.11 → 27.40 USD	optimization levers, each held to the finish you promised	hidden zeros: a missing price is named, never counted as free

Cycle time and cost: one logo-engraving job, measured by Mill's Optimize Job with the shipped starting libraries. Your savings depend on how far your current cutting values are from what the material and the cutter allow.

The financial approach

Most CAM systems stop at the toolpath and leave the price to a spreadsheet fed with guesses. Cimagrafi carries on. The model that plans the cut also prices it, so every decision — how to cut, with which cutter, on which machine, in which material — is made in money, and held to the finish your customer asked for.

1 Measure	2 Price	3 Optimize	4 Decide
Machine time comes from the real toolpath: every cut, plunge, rapid move and tool change, at your machine's own speeds.	Material, machine time, labour, overhead and tool wear, each from your own rates and libraries — then markup, minimum order and currency.	Mill tries faster ways to cut, keeps only those that still hold the finish, and picks cutters you already own.	Compare machines, check materials and choose cutters before you accept the job — not after the first part.

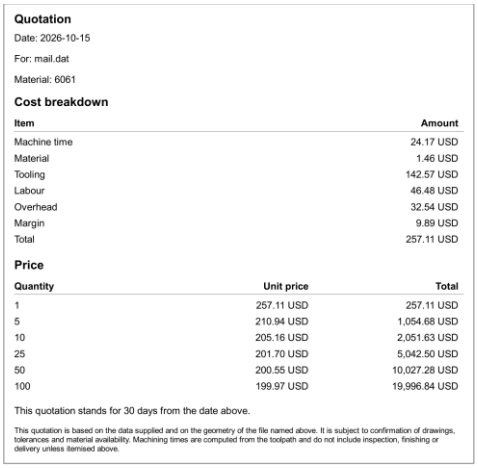
> **The advantage:** every number on the quote is one you can explain, and every saving is one you can see before the machine runs.

Know the price before you cut — just ask

Pricing a job used to mean an hour with a calculator and a spreadsheet. In Cimagrafi you ask. The AI Assistant reads the job, checks that every cost fact is in place, prices it from the real toolpath and your own rates, and writes the quotation letter — in minutes, in your customer's currency.

You ask	The assistant
"Is this job ready to quote?"	Lists every missing cost fact — a machine rate, a material price, an unpriced cutter — and the page where you fill it in.
"Quote 1, 10 and 50 parts in euros."	Prices each quantity from the measured toolpath and your own rates. The price per part falls only as the setup is shared.
"Where does this price come from?"	Names the source of every line: measured from the toolpath, taken from a library, or entered by you.
"Write the quotation letter."	Writes a ready-to-send PDF letter with the cost breakdown, the price breaks and the validity date.

- **Real costs, not guesses** — machine time comes from the actual toolpath; material from the stock size and your price list; tooling from tool prices and tool life in that material; labour, overhead and margin from your own shop rates.
- **One Financial Center** — your rates, machines, materials and tool prices kept in one place, with a readiness check that points to anything missing and takes you straight to it.
- **Price breaks and currency** — a clear cost breakdown, prices for any quantities you choose, in your customer's currency.
- **A professional quotation letter** — ready to send as a PDF, with its validity date.
- **Honest by design** — a price you have not entered is never counted as zero. Cimagrafi names it, and the assistant never fills the gap with a guess: your rates are yours to set.
- **Always visible** — the cost of the job sits in the status bar and updates as you work.



Quotation

Date: 2026-10-15

For: mail.dat

Material: 6061

Cost breakdown

Item	Amount
Machine time	24.17 USD
Material	1.46 USD
Tooling	142.57 USD
Labour	46.48 USD
Overhead	32.54 USD
Margin	9.89 USD
Total	257.11 USD

Price

Quantity	Unit price	Total
1	257.11 USD	257.11 USD
5	210.94 USD	1,054.68 USD
10	205.16 USD	2,051.63 USD
25	201.70 USD	5,042.50 USD
50	200.55 USD	10,027.28 USD
100	199.97 USD	19,996.84 USD

This quotation stands for 30 days from the date above.

This quotation is based on the data supplied and on the geometry of the file named above. It is subject to confirmation of drawings, tolerances and material availability. Machining times are computed from the toolpath and do not include inspection, finishing or delivery unless itemised above.

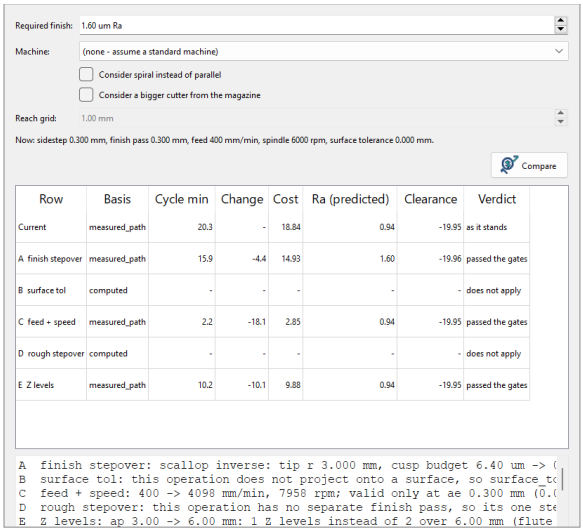
A quotation letter as Mill writes it: cost breakdown and price breaks by quantity.

> **The advantage:** faster, more accurate quotes — win more work and protect every margin.

Cut for less — optimized toolpaths

Knowing the cost is the first step; lowering it is the second. Optimize Job tries the alternatives on the real toolpath, prices each one exactly as the quotation would, and keeps only those that still deliver the finish your part needs.

- **Optimize Job** — tries faster ways to run each operation — a finish stepover placed exactly on the finish target, fewer depth levels, wider roughing passes, better feeds and speeds, a spiral instead of a parallel pattern, or a bigger cutter that still reaches every corner — and shows the minutes and money each one saves. On one logo-engraving job it took the cycle from 17.8 to 4.3 minutes.
- **The right chip on every pass** — chip-thinning compensation raises the feed on light passes, where a naive feed rubs instead of cutting — about 2.3 times the naive feed at 5 % engagement.
- **Full depth when the spindle allows** — when only spindle power stops a deeper cut, Mill offers the full depth at a feed the spindle can drive: fewer passes, the same chip.
- **Dynamic feeds** — the feed rises and falls with the real load along the path — faster in light cuts, protected in heavy ones.
- **You stay in charge** — every suggestion shows its saving and its effect on the finish before you accept it, and nothing changes until you do.



Optimize Job compares each option against the current job: cycle time, cost, predicted finish and a verdict.

> **The advantage:** shorter cycle times and lower cost per part — without trial and error on the machine.

Use the tools you already own

The cheapest cutter is usually the one already in your tool crib. Tool Plan looks at every cutter in your magazine and finds the best one for each operation — no catalogue browsing, no new purchase.

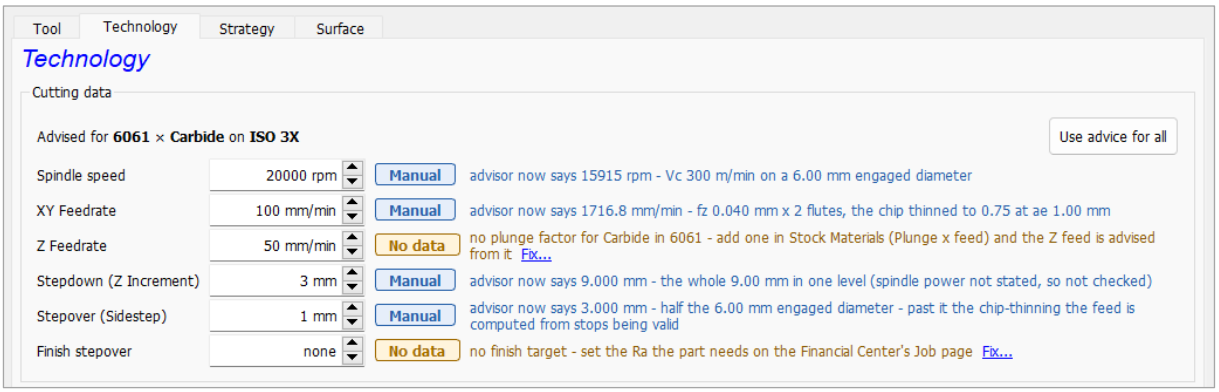
- **Best cutter for every operation** — every suitable cutter in your magazine is estimated; the best two for each operation are cut, costed and compared with the one the job uses now.
- **Only cutters that fit the part** — a different cutter is accepted only where it still reaches everything the current one reached. A drill keeps its diameter, and a finishing cutter must fit inside the current one's profile.
- **Tool wear in money** — each cutter's price, regrinds and life in the job's material turn wear into a cost per minute, so a fast setting that burns tools can lose to a slower one.
- **Unpriced cutters never win** — a cutter with no price would wear out "for free". Tool Plan shows it, but never picks it.
- **One click to apply** — the operation, the cutter and the magazine slot change together, with cutting data advised for the new cutter. Values you typed stay yours.
- **Your library grows with your jobs** — cutters a customer job brings with it can be added to your own tool library, prices included.

> **The advantage:** lower cost per part from the tools already on your shelf — before you spend on new ones.

The right machine, material and tools

Which machine should run this job? Will this material hold the finish the customer wants? Which cutter? Cimagrafi answers in minutes and money, before you commit.

Decision	What Cimagrafi tells you	Ask the assistant
Machine	Compare Machines prices the job on every machine in your shop, cheapest first: minutes and cost per part, cost at your quote quantities, setup and tool changes, and whether that machine can post the job at all. Each machine is judged on a copy of the job re-advised for its spindle, power, feed limits and rigidity, so your job is untouched until you choose.	"Which of our machines runs this job cheapest?"
Material	Every material in the stock library carries its price, density, cutting data for each cutter class and the finish it can hold on each class of machine. Mill prices the billet, advises the cutting data, and tells you before you accept the job whether the customer's finish can be held — and when it cannot, that the material or the machine must change.	"Will this job hold Ra 0.8 on the router?" "Feeds and speeds for this cutter in 7075?"
Cutters	Smart cutting data advises spindle speed, feeds, depth and stepover for the exact cutter, material and machine, with the reason for every value and its effect on power, tool life and cost. Tool Plan then picks the best cutter in your magazine for each operation.	"Which cutters in our magazine should this job use?"

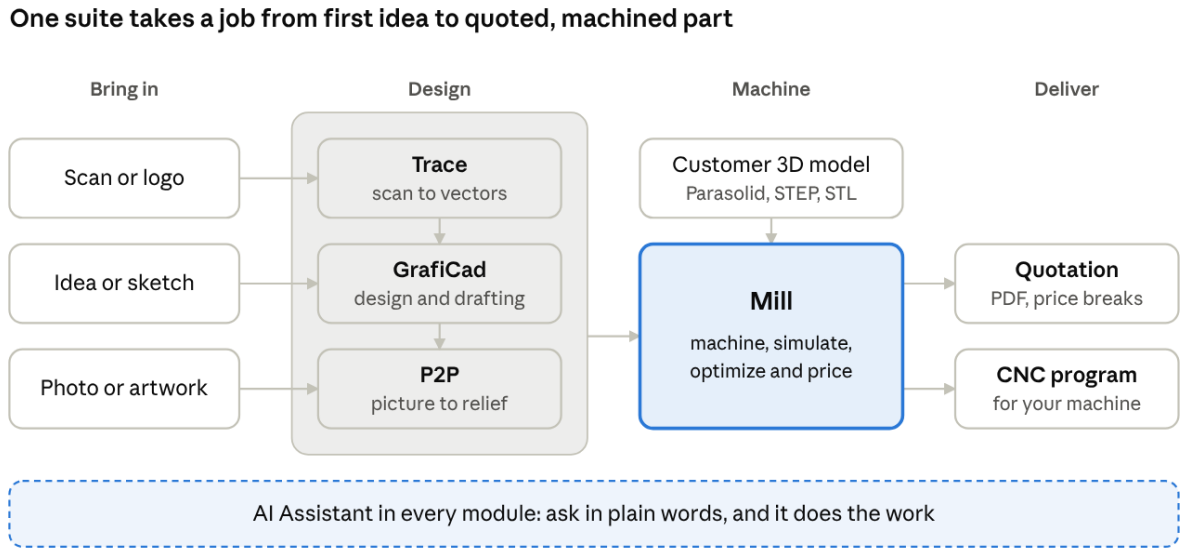


Smart cutting data: advice for 6061 aluminium with a carbide cutter, with the reason behind every value.

Ready on day one: Mill comes with starting libraries of materials, cutters and machine profiles built from makers' published cutting data, and every material row names its source. Replace any value with your own as your experience builds.

> **The advantage:** the right machine, material and cutter for every job — chosen on numbers, not habit.

At a glance



Whatever the job starts from — a scan, an idea, a photo or the customer's 3D model — it ends in Mill as a priced quotation and a program for your machine.

Just ask — the AI Assistant

Every Cimagrafi module has an AI Assistant docked beside your work. Tell it what you need in your own words, and it does the job with the same commands you would use — then shows you the result on screen.

In	You say	Cimagrafi does
Mill	"Find a cheaper way to cut this at Ra 1.6."	Compares faster ways to cut and keeps the ones that hold the finish
Mill	"Which of our machines runs this job cheapest?"	Prices the job on every machine, cheapest first
Mill	"Slice the surfaces every 2 mm."	Cuts the model into levels, ready to machine
GrafiCad	"Draw a 100 × 60 plate with four 8 mm holes 10 mm from the corners."	Draws it, to size
P2P	"Emboss the marked shapes 3 mm high and add a texture to the background."	Builds the relief
Trace	"Reduce the picture to four colours, remove the specks and trace the outline."	Cleans up the scan and vectorises it

- **Faster for experts** — one sentence replaces a string of menu clicks.
- **Easier for newcomers** — new staff become productive without learning every command first.
- **Always in control** — every change appears in the window as it happens.



GrafiCad — design that is ready to cut

GrafiCad is where parts, signs and artwork take shape. Everything you draw is clean, closed geometry that goes straight to the machine — no redrawing, no fixing.

- **Draw with precision** — lines, arcs, circles, polygons, holes and freehand sketches, with 14 snap modes that land every point exactly where you mean it.
- **Typography built in** — a large font library and full text editing, in any direction, ready for engraving and sign making.
- **Shape it fast** — move, rotate, scale, mirror and stretch; trim, blend and chamfer corners; offset outlines, add shadows and ridges.
- **Save material** — nest parts automatically to get more pieces from every sheet.
- **Stay organised** — layers you can show, hide and reorder; dimensions that document the design.
- **Find drawings at a glance** — GrafiCad drawings show as thumbnails and previews in Windows Explorer.

> **The advantage:** one design, from first sketch to machine-ready outline, in a single tool your team already knows.

Mill — machining made smarter

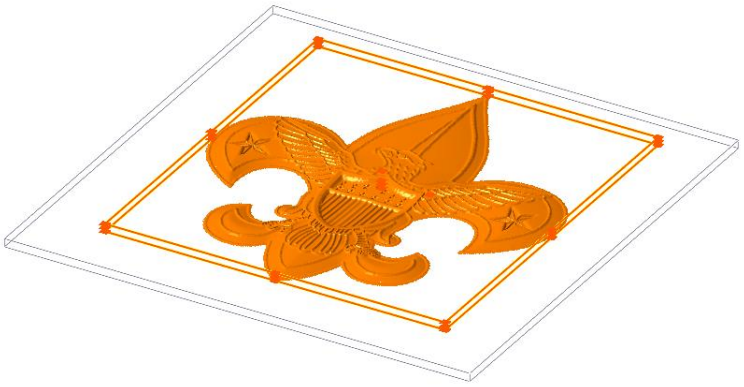
Mill turns drawings and 3D models into proven CNC programs for 2- to 5-axis milling, and helps you choose how to cut before you commit machine time.

- **Open the customer's model directly** — Parasolid and STEP solids, STL meshes and DXF drawings load in one step, placed on the stock and ready to work. Drag a file onto the window to open it.
- **Slice any 3D model** — cut a solid or mesh into levels and machine it as clean 2½-axis contours.
- **Sketch on the stock** — add a quick outline right on the billet, without going back to the drawing.
- **2- to 5-axis milling** — one system for every job, from 2D profiles and 2½-axis pockets to 3-axis surfaces and 4- and 5-axis machining.
- **Every strategy you need** — facing, profiling, pocketing and area clearing around islands, trochoidal pockets and slots, drilling, boring and tapping cycles, and 3D surface finishing.
- **Planned for your machine** — every job remembers the machine it is planned for; its spindle speed, power and feed limits shape the cutting data and the toolpaths.
- **No surprises at the machine** — every depth is checked against the stock, and the cut is simulated on screen before the program is sent.
- **Ready for your machines** — post-processors for a wide range of controllers, from routers and engravers to 5-axis machining centres.

> **The advantage:** better cutting data, fewer trial runs and programs that work the first time.

P2P — from picture to part

P2P (Picture to Part) turns flat artwork, photos and outlines into 3D reliefs you can machine — for signs, plaques, moulds, medals, furniture and decorative panels.



The same relief in solid view, ready to send to Mill.

- **Emboss** — raise any outline into a relief, with rounded, flat or shaped profiles.
- **Shade analysis** — turn a photo or picture into relief depth.
- **Textures and weaves** — fill backgrounds from a library of textures, or add woven and Celtic-knot patterns.
- **Surfaces** — sweep profiles along paths, revolve and extrude, smooth and bend.
- **Assemble** — combine several components into one model, then move, rotate and scale them directly on screen.
- **Repeat with ease** — every step is recorded, so a design can be edited and rebuilt instead of started again.
- **Straight to Mill** — send the finished relief to Mill for machining.

> **The advantage:** artistic 3D work without a 3D modelling specialist.

Trace — from scan to clean vectors

Trace converts scanned drawings, logos and photos into smooth, accurate outlines ready for GrafiCad and Mill.

- **Outline and centreline tracing** — outlines for shapes and filled areas, centrelines for engraving and single-line work.
- **Smooth curves** — fitted lines and arcs, not jagged pixel steps.
- **Clean up first** — reduce colours, pick colours with a magic wand, remove specks and straighten the image before tracing.
- **Edit and align** — adjust the result, snap it to guides and organise it in layers.
- **One click to design** — send the vectors to GrafiCad or Mill.

> **The advantage:** customer artwork becomes production geometry in minutes, not hours of redrawing.



Why Cimagrafi

Advantage	What it means for you
Know your margin	Every quote is built from real cutting time and your own rates, with nothing hidden at zero.
AI-based quotations	Ask for a price in plain words; get an explained quotation letter in minutes.
Lower cost per part	Built-in optimization finds faster, cheaper ways to cut that still hold the finish.
Use what you own	Tool Plan picks the best cutters from your own magazine before you buy new ones.
Right machine, right material	Compare machines and check materials in minutes and money before you accept a job.
One suite, one workflow	Design, trace, model, machine and quote in one family of tools that share their work seamlessly.
AI in every module	Ask in plain words; the assistant runs the job and shows you the result.
Opens what customers send	Parasolid, STEP, STL, DXF, pictures and scans.
No more dongles	Software licensing: activate online, or with a licence file where there is no internet. Nothing to plug in, nothing to lose.
Your work is safe	Drawings and jobs from earlier versions open as before.
Proven	35 years of Cimagrafi in workshops all over the world.

Cimagrafi 26 runs on current Windows PCs and installs in minutes — choose only the modules you need.

About Cimagrafi

Cimagrafi is owned and developed by **GraphiTech Ltd.** and **Shtooltz Ltd.**

Learn more at www.graphitech.net.

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