

281.870.1014

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after 20+ years in business
we still don't have a formal mission statement
but we still are working hard on
making things
easy
for you

metalab ■

practicam

practicad

practirev

making things. easy.™

Our services are at the heart of everything we do. In providing a solution for you – be it a software, a hardware, an equipment item, or anything else – we focus on providing all that you expect from this solution: design, implementation, training, and maintenance.



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For every one of our customers, we create an effective, efficient, economical, productive, custom manufacturing system which does exactly what their company needs. This focus is present and visible in everything we do.

For as long as you own and maintain any of our fully featured products, we will continue to provide our services – including lifetime free training at our site, technical support, updates and upgrades, and help with any other aspect of your operations.

Whenever you need an improvement or an addition to our product (a new fitting or a part, a new type of label, or simply a new product feature), your request is addressed free of charge (for a typical request within a fully featured package) and the speed of

these modifications is determined by their priority and importance to you and other customers.

Our goal is to treat you and your company fairly, and to grow with you.

We will do the same when you are faced with a new shop equipment or new production requirements – and practically, any time you need help in solving a problem.

Yes – we will be by your side.

Most important here is not the outstanding quality of our products, but our commitment to building a long-term relationship with you and your company.

This is why your needs define the limits of our services.

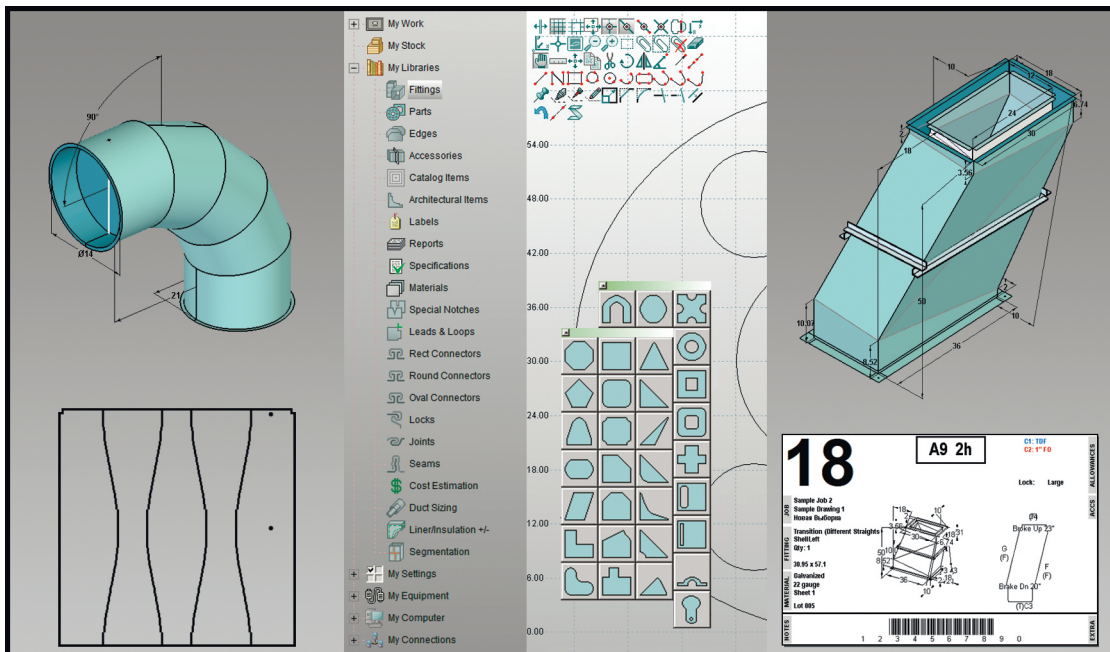
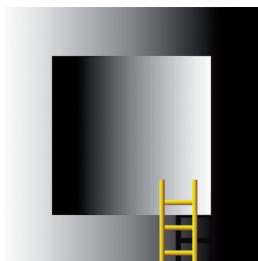
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PractiCAM™, our CAM and cost estimating software, offers you the most advanced manufacturing technology. Thousands of fittings, products, parts, shapes, patterns and accessories. **Most effective, efficient and economical solution for your shop.**



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PractiCAM libraries include over 4,000 fittings and over 2,000 flat shapes, covering round/rectangular/oval duct fittings (single and double wall), roofing elements, curb adapters, louvers, dormers, plenums, leader heads, industrial metal, architectural profiles and panels, ornamental products, one-of-a-kind items – the list continues to grow daily.

PractiCAM's extensive variety of **material and labor saving features** includes:

Fully integrated built-in CAD system and **import/export of DXF files.**

Extensive sets of custom label and report templates, including any possible combinations of parameters, sorting and ordering methods, template sizes, formats and visual appearances.

Fully automated specifications, supported by a flexible and robust system of **custom shop allowances and material libraries** including an unlimited number of materials, wraps, liners and utilizing custom material stocks.

Direct and true handling of all accessories (damper rods/plates, turning vanes, radial vanes etc.) and an **ability to catalog any non-duct item.**

Advanced automatic nesting. Automatic and interactive blank segmentation for oversized products.

Direct seamless data download from PractiCAD™ to PractiCAM, and from PractiCAM – to every cutter and coil line available worldwide.

Instant, precise, integrated cost estimating system available.

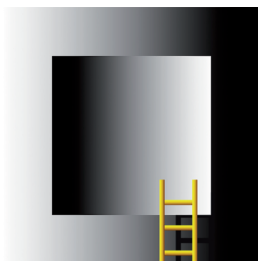
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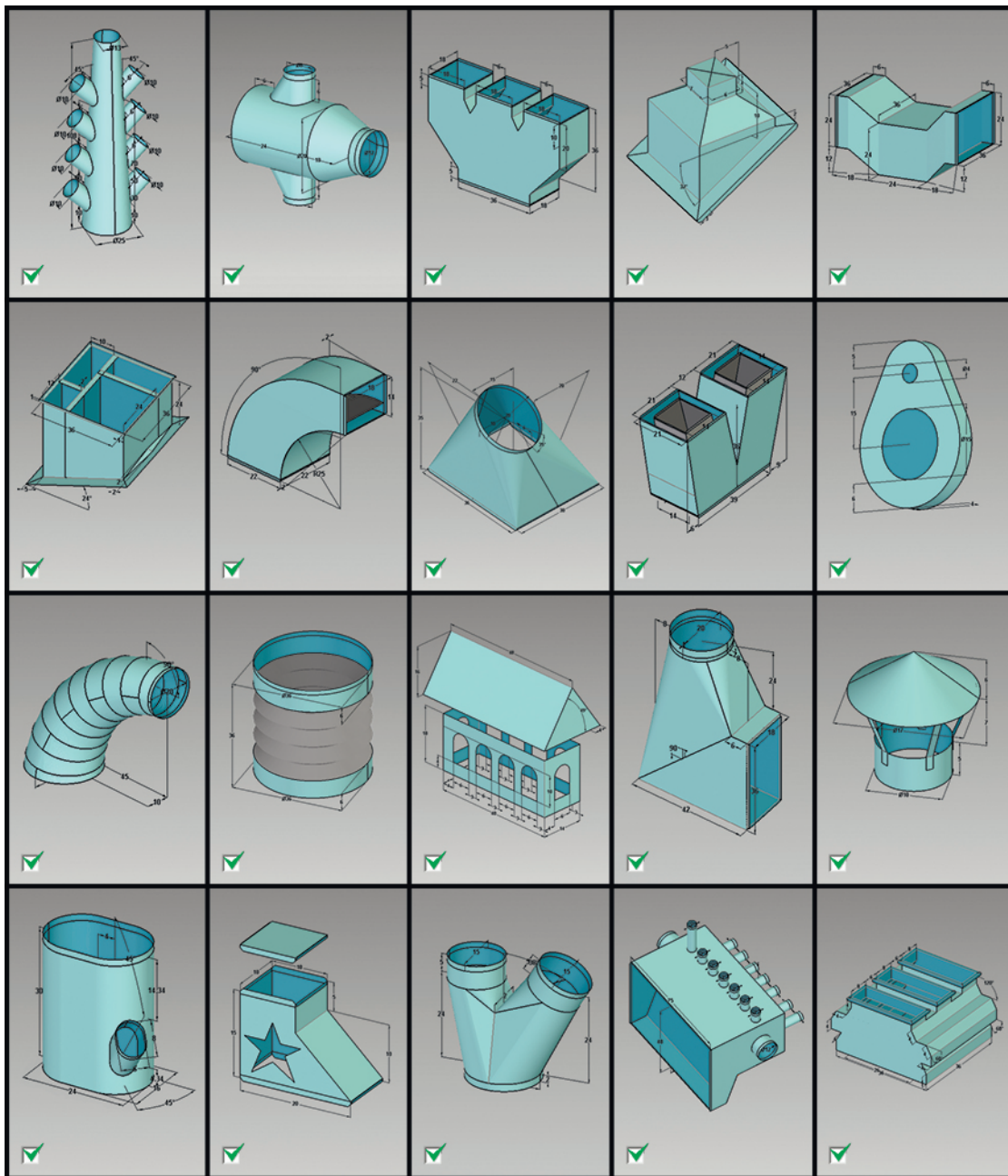
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PractiCAM™ has the largest fitting libraries in the world (4000+ items), covering almost every imaginable product and including libraries of virtually all major manufacturers of duct and cutting equipment – and product libraries of every major competitor.



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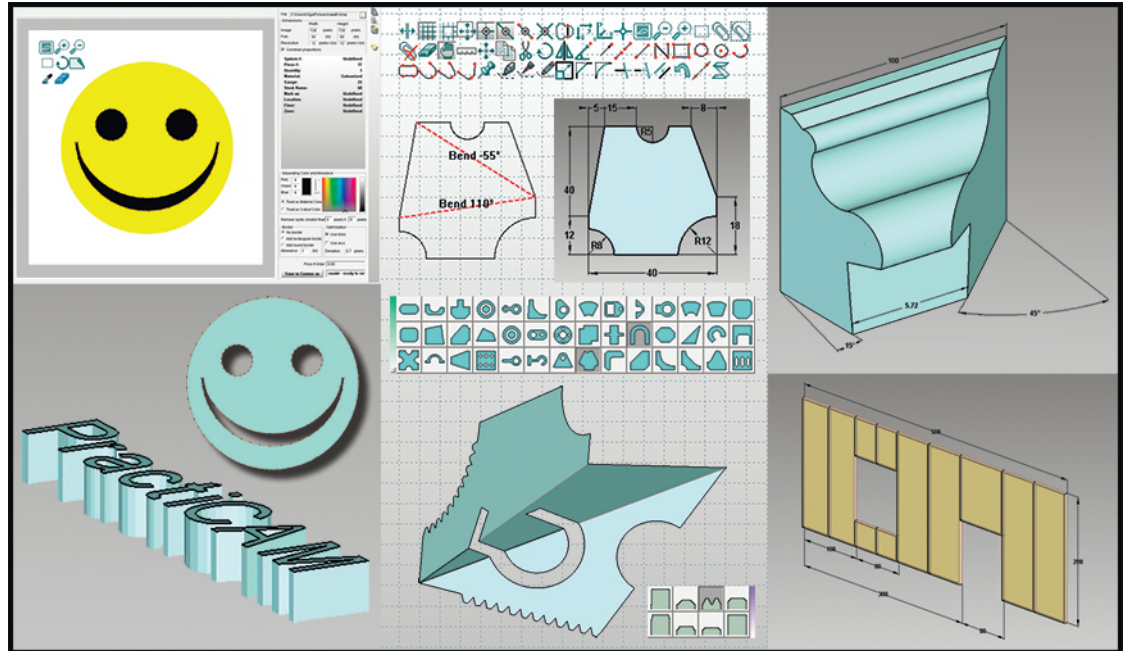
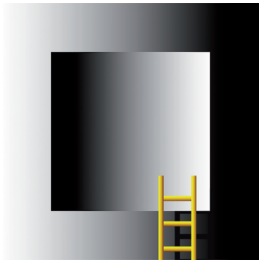


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Growth and expansion of our product libraries is completely customer-driven. We guarantee a perfect fitting layout,

done to your manufacturing standards – or we'll build a new fitting for you, free of charge (same goes for parts).

In addition to fittings of every kind, PractiCAM™ can make a variety of other products: parts, signs, architectural profiles, wall panels and assemblies, machine building, ship building and construction elements and parts, and metal art.



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PractiCAM part libraries, infinitely expandable and customizable, are largest in the world (2000+ parametric shapes). Parts can be combined, layered, edited – with all part manipulations supported by a fully featured 2D CAD editor.

Any part can be bent and viewed in 3D; any edge (or any shop allowance – from tabs to connectors) can be added to any contour (inner or outer).

Direct (one touch) import/export of DXF layout drawings; import of DWG files, all with automatic features: material/gauge assignment and sorting for multiple parts, generation of lead-in/lead-out segments, and nesting after the import.

You can take a scan or a photograph, process it, and cut it – our fast

raster-to-vector conversion creates a cutting contour for any area of your chosen image. Flexible control parameters for contour selection, line smoothness, image cleanup and final appearance make your final product perfectly fit to your requirements.

You can design and make any sign of any size, flat or 3D, using any font available on your computer (including any symbols or special fonts)

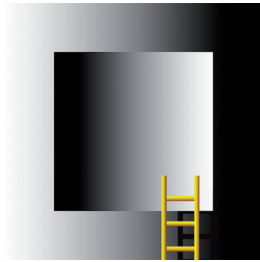
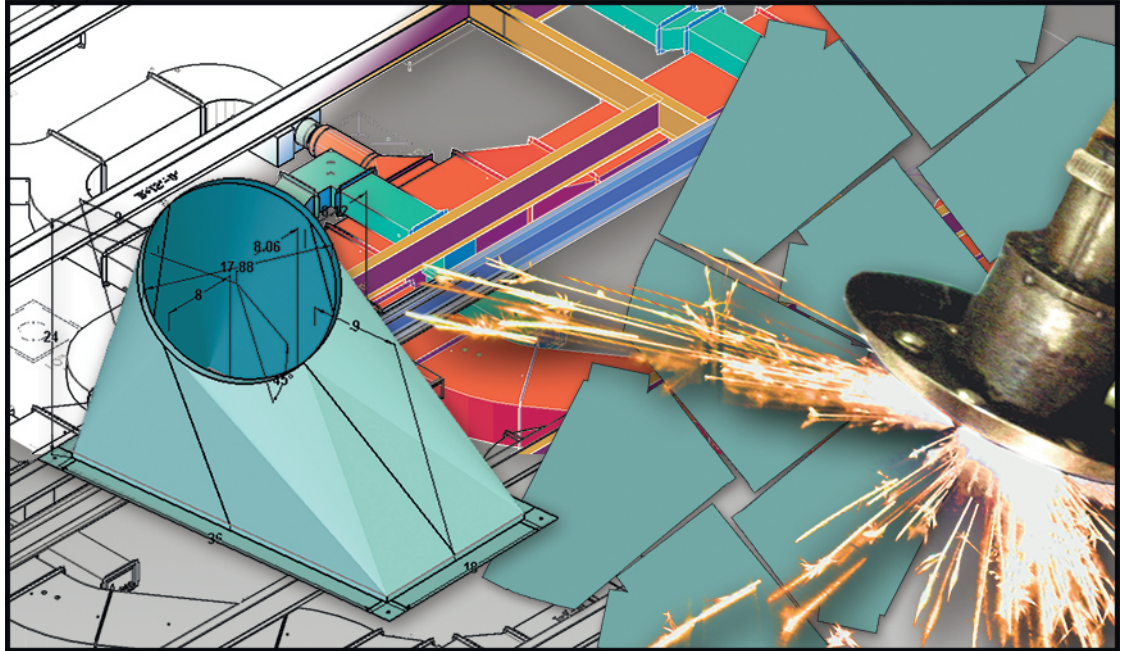
With PractiCAM's easy-to-use profile editor, you can construct and miter any architectural profile or a cornice – without ever having to manually calculate anything.

Wall panels and wall assemblies can be built effortlessly, from custom elements, including doors and windows, all editable “on-the-fly”.

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The key to computer-aided manufacturing is the ease and efficiency of the data flow from the design stage to the fabrication stage.

PractiCAM™ seamlessly handles data coming from various CAD sources and going to any industrial equipment.



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The direct seamless data download from PractiCAD™ to PractiCAM and from PractiCAM to the fabrication equipment is the main source of PractiCAM's power.

All data from PractiCAD, a complete set of exhaustive information about fittings, grills, hangers, flex – everything constructed, selected and prepared according to your drafting and manufacturing standards – comes into PractiCAM directly, carrying with it every detail of the engineering concept, in a strict accordance with job specifications. No manual input is required – and the automated download process eliminates virtually all errors and inconsistencies.

If cost estimation is included in your workstation setup, all cost estimates and reports are automatically

generated upon download.

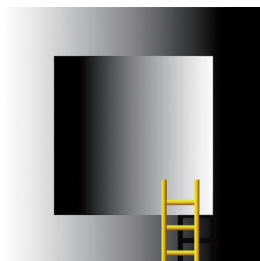
PractiCAM can drive virtually every CNC cutting machine on the market, including standard and high definition plasma cutters, oxy-fuel cutters, lasers, and waterjets – as well as insulation, liner, and other specialty cutters. In addition, PractiCAM can drive pipe cutters – and, of course, it can drive all major brands of coil lines and spiral machines.

PractiCAM can simultaneously drive multiple machines from multiple manufacturers – and even send to one cutter a job prepared for another machine.

For any customer in good standing, we will create a CNC driver for any of his machines, old or newly purchased, free of charge.

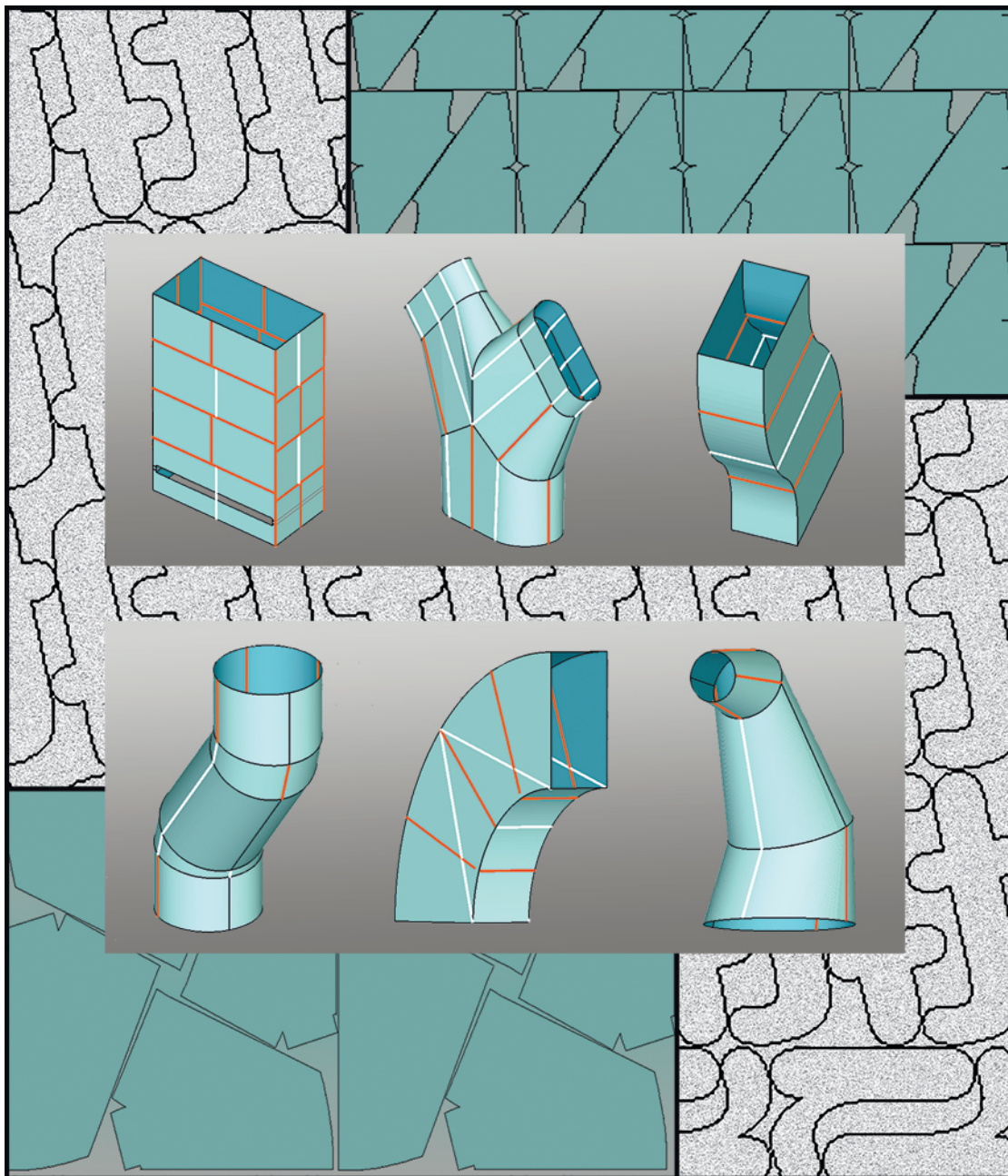
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PractiCAM™ offers advanced automatic and interactive nesting with many material and labor saving features – stock part fill-in, symmetrical insulation/liner nesting, gauge substitution, scrap utilization – and control over every aspect of the nesting process.



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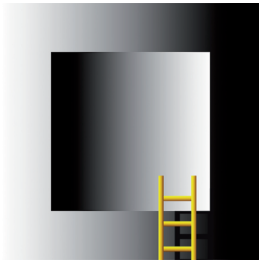
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All oversized products can be segmented automatically by flexible scenarios and/or interactively with an

automatic placement of segmenting seams, with proper trimming of contour intersections.

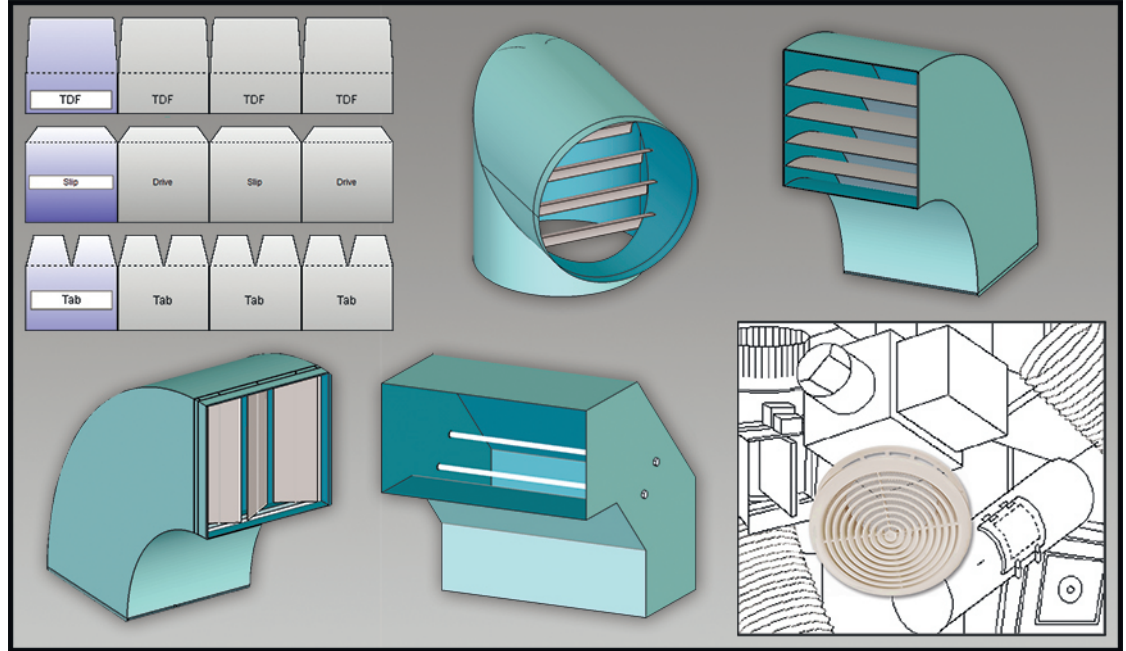


To automate your work, PractiCAM™ does not ignore your work concept; instead, it addresses automation requirements within each and every aspect of your workflow, and does it for each and every detail of your production process.



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PractiCAM production standards are supported by the most flexible and most extensive specification system in the industry – all rules are set in plain English, with an unlimited level of manufacturing sophistication. We automate everything – from material, gauge, allowance selection to placement of accessories and reinforcements – and, of course, all aspects of your data download workflow.

Our flexible and robust system of custom shop allowances is unmatched by anyone – connectors, locks, joints, seams, notches are all directly and parametrically modifiable in our 2D CAD editor, to any degree of complexity, with full control over every contour segment of every allowance, automatic notching, notch variety, repeated and extended edge treatment, and allowance intersections.

Direct handling of all accessories and reinforcements – dampers, turning vanes, radial vanes, tie rods and other stiffeners – includes true 3D view of the accessory installed on a fitting, and the ability to manufacture it.

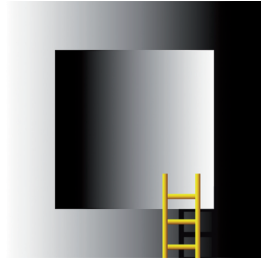
All accessories and accessory-related hardware (clips, corners, gaskets, flanges, collars, bolts, screws, rivets etc.) can be included in reports and cost estimates.

PractiCAM makes it possible to cut fastening holes and plates (including those for tie rods), make inserts and vane rails, cut and trim vanes.

Any non-duct items can be created and customized (including types of entities, descriptions, images, and parameters), catalogued, priced, reported, and included in cost estimates.

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Every aspect of PractiCAM™ is infinitely expandable and customizable, and PractiCAM labels and reports are not an exception. Extensive sets of custom label and report templates can handle any of your company requirements.



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PractiCAM labels and reports are very similar at least in one way: they can include any conceivable information about the data stored in PractiCAM database.

Both labels and reports include any possible parameter, any method of sorting and ordering, any template size, and any visual appearance.

Fully dimensioned and tagged product images, both 2D and 3D, industry standard bar codes, special marks for separating groups of products into easily distinguishable units for tallying, shipping, and tracking are some of the PractiCAM label features.

PractiCAM can produce a label for every product it makes (including not only duct, but everything else), and any aspect and any parameter of any label

template can be customized to your specifications.

PractiCAM reports cover every aspect of job tracking, shipping, accounting, material handling, and provide all possible data compilations you may need. PractiCAM report components can be organized, grouped, sorted, subtalled and totalled to fit your reporting requirements.

PractiCAM instant cost estimating system (available for fully featured systems) allows you to create and use a multitude of estimating approaches simultaneously (including built-in SMACNA tables). It generates and reports material and labor costs accounted for within shop/field aspects, with the ability to export the estimates to Excel spreadsheet.

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MetaLab International Inc. • cad, cam, estimating systems and equipment for sheet metal fabrication, hvac applications general manufacturing and construction ship building, machine building and repair signmaking, ornamental and fine art metalwork completely custom goods and services

Our company is a leading developer of CAD, CAM, estimating systems for HVAC/Sheet Metal/Mechanical Contractors worldwide. We specialize in fully integrated and automated industrial solutions, from design to fabrication.

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Our product suite currently includes:

- PractiCAM** CAM software for HVAC and Sheet Metal Estimating software
- PractiCAD** 3D BIM software for Sheet Metal/Piping (AutoCAD-based) 3D BIM software for Sheet Metal/Piping (Revit-based) NavisWorks integration software
- PractiCAD MEP** Full design suite (includes all of the above components)

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