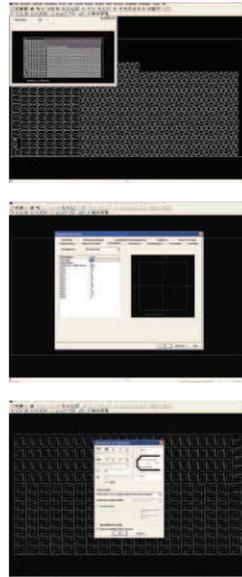
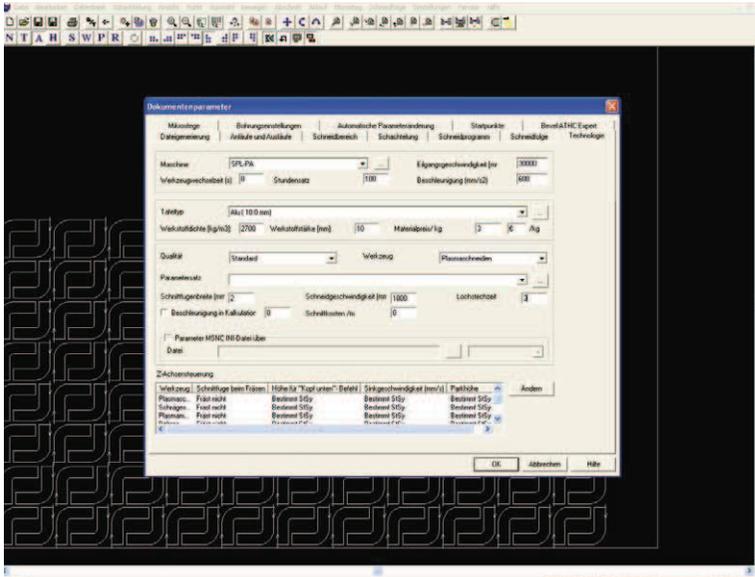


AsperWin® 3.5 Quality hole enabled

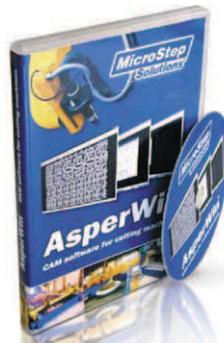


MicroStep CAM software *AsperWin* is the result of 15+ years of intense development and continuous customer driven improvement in the area of software applications for CNC machinery. It unifies the practical programming experience with long-term user know-how and an intuitive, transparent way of operation.

AsperWin provides tools for easy and fast creation of NC programs for different cutting technologies. Basic pack dedicated to straight cutting can be extended by a variety of specialized modules designed for particular cutting applications (e.g. bevel cutting, pipe cutting, multi-torch cutting) and eventually fitted to special customer requests. With its transparent menu structure

and enhanced functions *AsperWin* represents a modern and powerful tool for NC programming.

A network version allows to install *AsperWin* on a network drive with enabled access from several workstations. Licence is herewith not limited to just one user or computer while cost is significantly reduced.



AsperWin® Basic

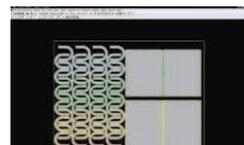
AsperWin Basic is the essential CAM module of MicroStep machines. After loading drawings of parts it provides pcesses drawings of parts in DXF and other formats, interactive nesting function and automatic generation of NC code.

AsperWin® Basic Net

AsperWin Network licence allows to install *AsperWin* on network drive with enabled access from several workstations. Licence is herewith not limited to just one user or computer while cost is significantly reduced.

Multi-torch cutting

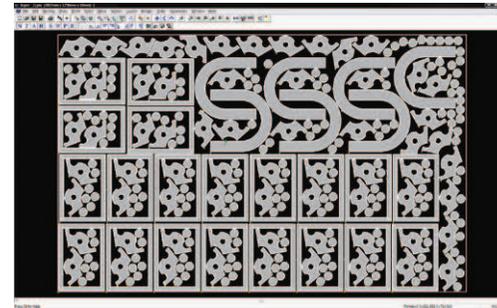
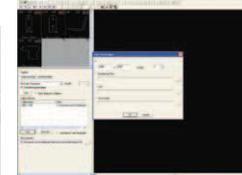
Multi-torch cutting module allows performing of simultaneous cuts with several torches with possibility of parallel, tapered and also non-parallel tapered cutting (in case of long trapeziums).



Nesting

AsperWin automatic nesting module enables effective creation of nests with a big number of different cut parts to achieve best possible utilization of material with minimum waste. The module uses several geometrical nesting

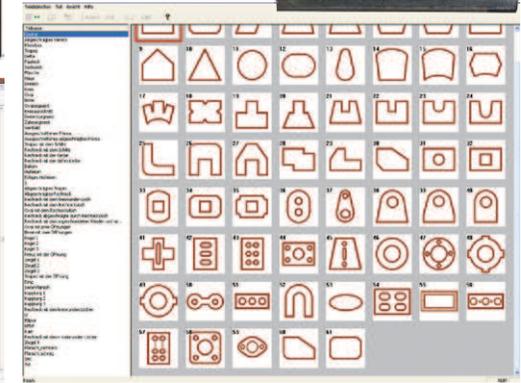
methods and has ability to process separate part groups on defined areas of plate as well as whole sheets while respecting defined criteria like material properties or information from database system.



WSelect

AsperWin macro library *WSelect* contains extensive collection of macros of adjustable standard shapes which can be exported to DXF or loaded directly into *Asper* for processing. *WSelect* offers the majority of commonly used components from simple geometrical shapes to complicated flanges, tags a. o. Each macro can be saved in as many configurations

as required for later quick import into CAM, without the necessity of using a CAD program. Furthermore, MicroStep as a producer of control system and all related software is able to supply also customer specific macros on demand.



AirSelect

Software module *AirSelect* for ductwork manufacturers enables fast and comfortable design of HVAC components. The extensive library contains adjustable shapes of a variety of commonly used parts in the HVAC industry. Besides basic shapes of rectangular and round fittings the library contains also pipe elbows, symmetric and asymmetric toes, offsets etc. Rec-

tangular sectional parts are compliant with DIN 18379.



Bevel cutting

AsperWin - Bevel cutting module is dedicated for machines equipped with a beveling tool station which enables movement in 5 axes: X, Y, Z, A (endless rotation) and B (tilting of torch up to 50°). The module supports 3 methods of starting of the beveled cut: piercing with angle, tilting of torch after piercing at piercing point and tilting of torch during initial part of the lead-in. By

means of a „Bevel ATHC Expert“ the module can select appropriate torch height control methods for individual parts or a group of parts according to their size and shape. Besides simple beveled edges also Y-cuts and variable bevels are supported.

