

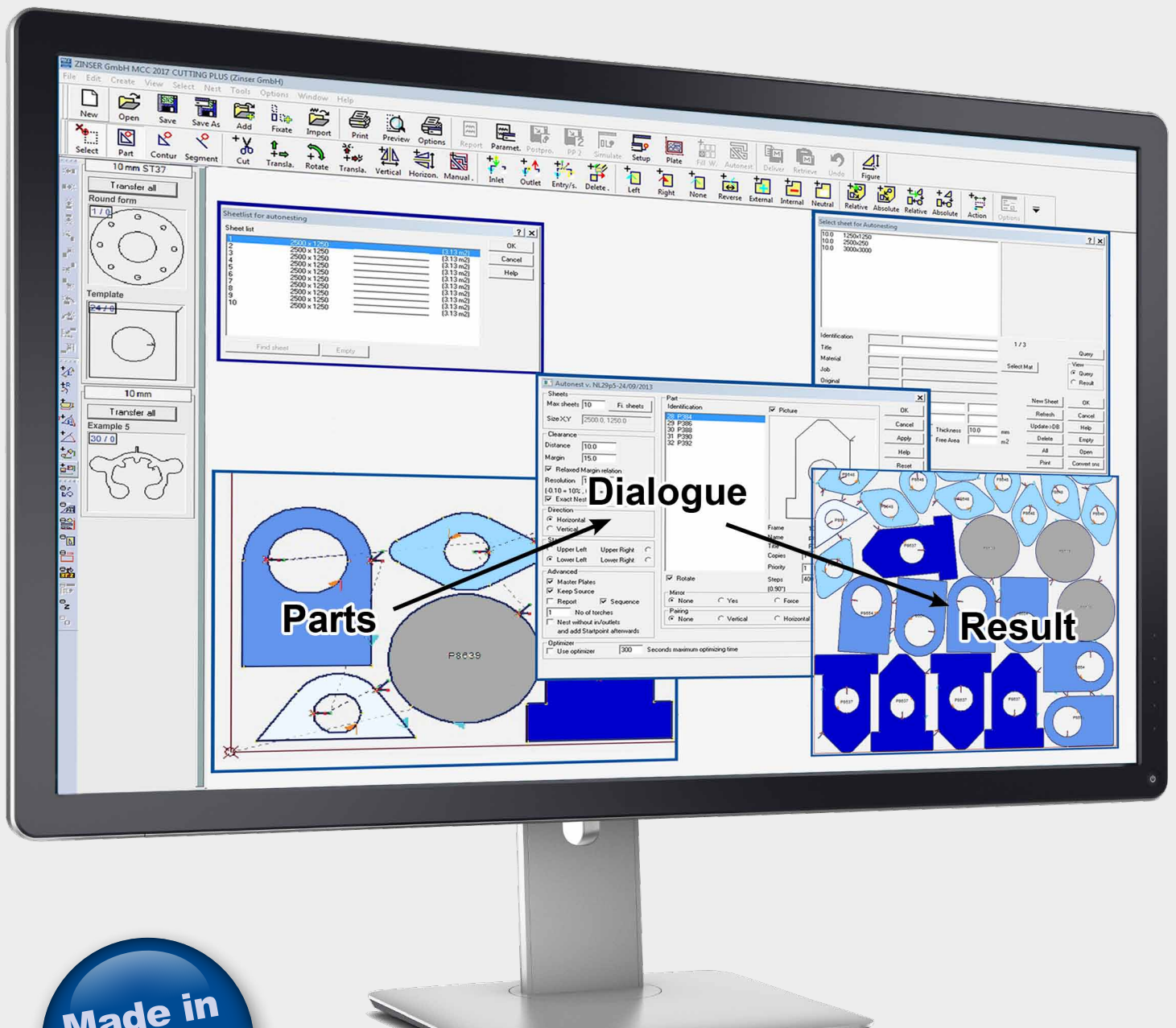
CUTTING  
WELDING

SINCE 1898



# ZINSER MCC 20

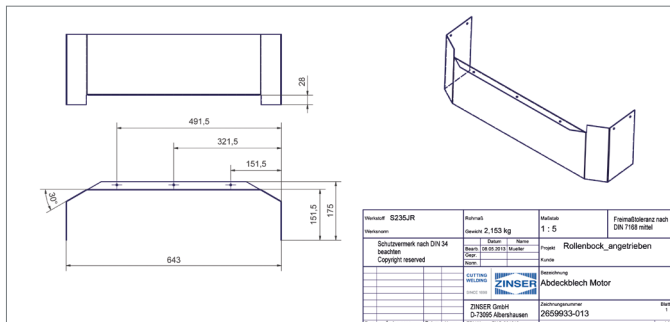
Programming software for cutting systems



Made in  
Germany

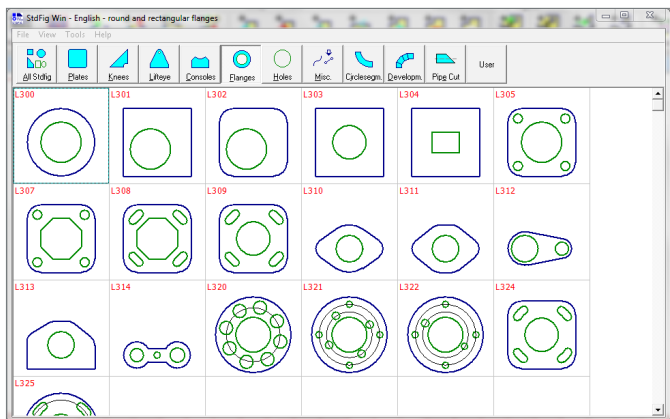
Since 1898

## Advantages with ZINSER MCC 20



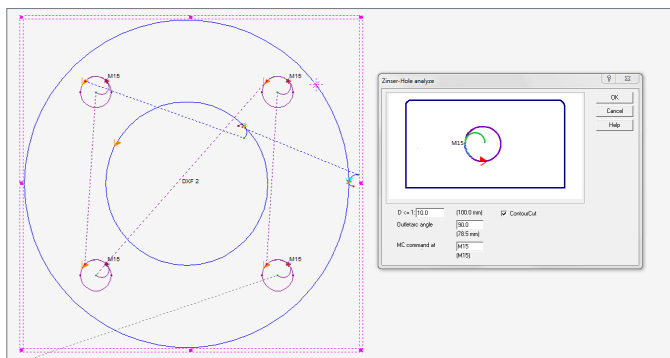
## Import DWG/DXF files with just one click

The ZINSER MCC 20 software operates with the latest DWG/DXF converter. It also offers an import tool for DSTV-files. Thus your existing CAD files can be easily and quickly imported. Afterwards the included elements are checked, converted to contours or parts, updated with technology parameters and added to the nesting plan.



## More than 140 standard geometries available

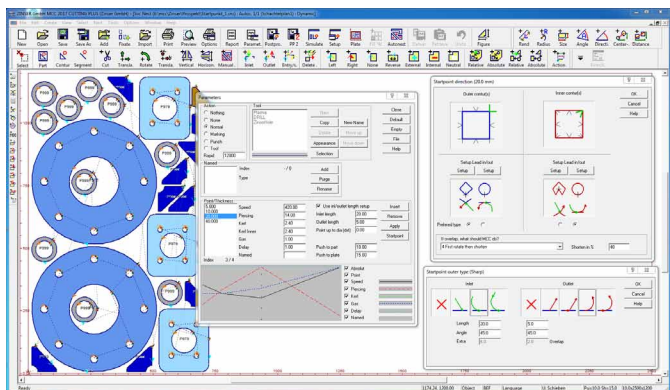
With the ZINSER MCC 20 software more than 140 standard contours are available. From simple rectangular or round geometries to various flanges and pipe unfoldings a high number of different shapes can be configured. This simplifies your workflow and considerably reduces the required amount of time.



## Drilling and ZINSER Hole Technology

ZINSER MCC 20 simplifies drilling, countersinking and tapping for the ZINSER CNC controller.

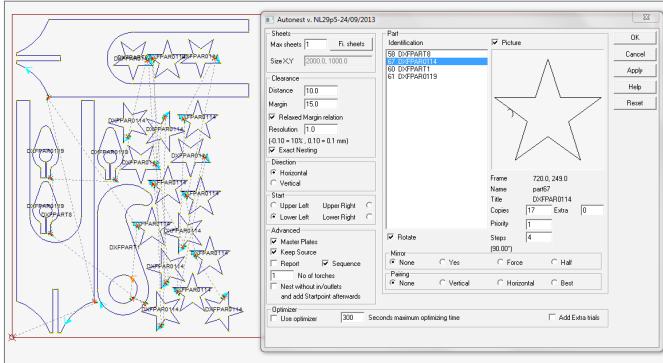
The ZINSER Hole Technology is supported for Hypertherm and Kjellberg systems through the complete workflow - from ZINSER MCC 20 to the post-processor and CNC controller.



## Starting point

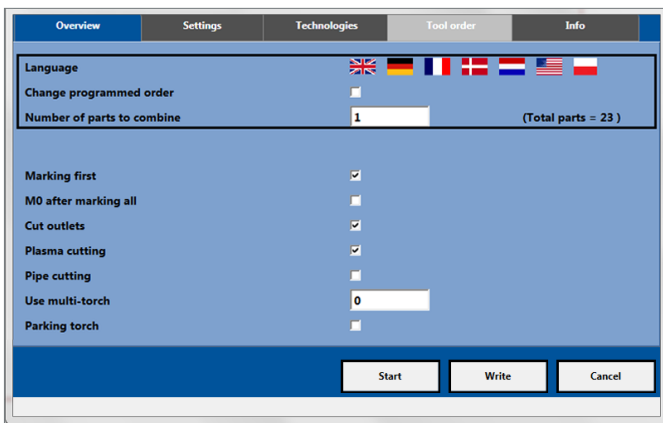
The starting point function allows to automatically define the starting points for external and internal contours. Inlet and outlet (length, direction) can be set depending on the type of contour (sharp-edged or round).

This automatic function can be repeated at any time. This enables an automatic optimization of the trim cuts of each nesting plan.



## Automatic nesting/sheet utilization

Via automatic nesting a maximum sheet utilization can be achieved. A manual readjustment is possible at any time. To minimize your material costs automatic nesting offers many functions.



## Post-processor

The post-processor saves the NC code in an appropriate format for the CNC controller. Besides ZINSER formats, post-processors for other controllers are also available.

Depending on the post-processor an extended simulation of the operational steps is possible.

MCC Evaluation Project120

File Settings Display Help

Overview

Settings

Information

Need

Dataset Plasma H373

Current 50 A

No	Name	Count	Part picture	Tool	Distance (m) (all par)	Time (min:sec) (all p)	Area (m <sup>2</sup> ) / weight (kg)	Time from part 1	Cost from part (€)
1	DNF 2	20		Cut Mark Punch Drill Rapid Piercing	1.438 (28.760) 0.000 (0.000) 0.000 (0.000) 0.833 (16.655) 6 (120)	0:55 (10:50) 0:00 (0:00) 0:00 (0:00) 0:04 (1:33) 0:31 (10:24)	Part 0.03 (m <sup>2</sup> ) / 2.286 (kg) All parts 0.58 (m <sup>2</sup> ) / 45.723 (kg)	Part 1:30 All parts 30:13	Part 6.72 All parts 134.44

Sheet values

Sheet utilization

Gas consumption

Sum distance and times

Total requirements

Width (mm)	2000.00	Min (mm)	15.84	Consumption (l)	1495.00	Cutting length (m)	28.76	Number parts	120
Length (mm)	1000.00	Min (mm)	64.71	Consumption (l)	1424.81	Cutting time (min:sec)	18:16	Number parts	1
Thickness (mm)	10.00	Min (mm)	1228.96	Consumption (l)	2.28	Mark length (m)	0.00	Weight all parts (kg)	45.72
Area (m <sup>2</sup> )	2.00	Min (mm)	915.42	Consumption (l)	2.28	Marking time (min:sec)	0:00	Material cost (€)	68.59
Density (kg/m <sup>3</sup> )	7.85	Part X (mm)	201.18	Consumption (l)	0.00	Drill length (m)	0.00	Set-up time (min:sec)	10:00
Weight (kg)	157.20	Part Y (mm)	94.71	Part H	0.00	Drilling time (min:sec)	0:00	Utilization time (min:sec)	40:13
	Sheet utilization (%)	29.33	Sum cost gas (€)	4.86	Rapid length (m)	18.36	Utilization cost (€)	670.21	
			Sum of cost (€)	1.31	Rapid time (min:sec)	1:31		803.42	

Comment

Version 1.0.0.5 06.04.2017

Error message

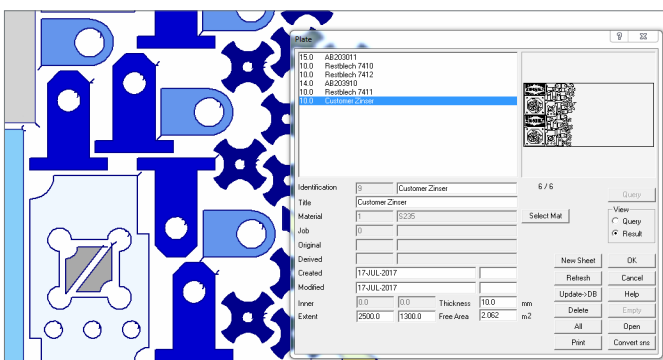
PLASMA

07-07-2017 08:41

## Calculation program

Based on the NC code the program calculates the working distances and required cutting time. Afterwards, taking into account the cutting parameters of the machine, the program generates an exact cost analysis.

Each calculation can be adjusted and saved as PDF file. Besides the nesting plan the files contain all relevant information including the possibility to display comments for specific operational steps.



## Database

The ZINSER MCC 20 database function allows the management of parts, metal sheets, materials and nesting plans. The data of various elements can be saved and later accessed as needed.

A big advantage of using the ZINSER MCC 20 database is the possibility to create a metal sheet inventory. Thus partly used metal sheets can be reactivated for later cutting tasks resulting in increased efficiency and less waste of material.

# Available in three versions:

	Light	Standard	Plus
<b>Nesting</b>			
Manual: shift, rotating, copy, mirroring, matrix, collision control	•	•	•
Automatic: entry of the number of parts via dialogue		•	•
Automatic: combinable with manual nesting, multi-torches, optimizer, mirroring, groups, metal sheet list			•
Auto nesting manual / Multi-torch nesting			
<b>CNC-technology</b>			
Setting of starting point / Lead-in and lead-out (dependent on material and material thickness)			
Multistage lead-in and lead-out manual / Special lead-in and lead-out for holes			
Displaying of the kerf / Display of coloured parts / Toolbar large icons	•	•	•
Cutting sequence manual			
Processes: cutting, punching, marking			
Templates for lead-in and lead-out			
Lead-in: helical / Lead-out: overlapping or along the contour			
Cutting sequence automatic		•	•
Processes: user-specific cutting data and free definable parameters			
Triangles / Loops / Offset			
Multistage lead-in and lead-out via template			
Triangles / Loops with machine commands / Pre-piercing / Marking with parts title			
Plasma bevel / 3-torch bevel / Multi-torch cutting / Drilling / ZINSER Hole Technology			•
Bridges / Common cut / Chain cut / Common cut combinable with chain cut			
Machine profiles			
<b>Geometry</b>			
Standard figures / Creating and splitting of parts	•	•	•
Point reduction (Biarc) / Measuring of parts / Breaking and inserting bars		•	•
Insertion of: bevel, radius, notch			
<b>Data base</b>			
Parts and nesting plans / Material and remnant management / Creating orders			•
<b>File and data format</b>			
Supported document types: SNS (MCC nesting), DXF, TXT, RTF / Import: DXF	•	•	•
Import: DWG/DXF, DSTV, DIN-EIA, ESSI, IGES		•	•
Export: DXF, EMF, BMP			
<b>User interface</b>			
MDI (edit several nesting plans simultaneously)			
Preview of: SNS, DWG/DXF, DSTV, DIN-EIA, ESSI, IGES	•	•	•
Simulation of the cutting process			
<b>Other</b>			
Postprocessors for all ZINSER controls and for many other controls	•	•	•
Undo, e.g.: delete, shift, rotate,...			
Report systems with time, path, weight and area calculation		•	•
Import via drag and drop			
Graphic simulation of CNC program (important for professional and vocational schools)			
New report system MCC Calc			•

**For machines designed to cut round pipes (e.g. ZINSER 1306) the additional version ZINSER MCC 20 Pipe is available. Please feel free to ask us!**

**Contact us for further information:**

**CUTTING  
WELDING**

SINCE 1898



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