SteelTailor G3 - World Best Seller Gantry CNC Cutting Machine

Description:

1. For cutting large-sized thick metal plates and other heavy duty tasks; Satisfy customers’ needs for mass production.
2. Widely used in automobile, shipbuilding and engineering machinery industries, etc.
3. User-friendly operating system can largely lower the requirements for technicians.
4. Reliable software and hardware make the cutting precision get to what customers require.
Configuration:

- Rail: 22kg/m
- Lift: Strokes100mm
- CNC & THC: F2300T (Patented) integrated THC
- Gearing mode: Rack&Pinion
- Servo Drive:
- Other Electric Parts: Schneider
- Horizontal & Longitudinal Table Carrier: Towline
- Software: AngelBlade CAM Pro
- Water Table is Optional
- H-beam and towline groove are optional.

<table>
<thead>
<tr>
<th>Type</th>
<th>Steel Tailor G3</th>
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</thead>
<tbody>
<tr>
<td>Effective Cutting Width</td>
<td>3000mm</td>
</tr>
<tr>
<td>Effective Cutting Length</td>
<td>Rail Length- 3000- upto10500 (8000)Standard</td>
</tr>
<tr>
<td>Cutting Speed</td>
<td>Flame - 100-750mm/min</td>
</tr>
<tr>
<td></td>
<td>Plasma - Depend on plasma power</td>
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<tr>
<td>Cutting Thickness</td>
<td>Flame - 6-150mm</td>
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<tr>
<td></td>
<td>Plasma - Depend on plasma power</td>
</tr>
<tr>
<td>Positioning accuracy</td>
<td>0.2mm/10m</td>
</tr>
<tr>
<td>Repeatability</td>
<td>0.2mm/10m</td>
</tr>
<tr>
<td>Longitudinal drive system</td>
<td>Dual Drive</td>
</tr>
</tbody>
</table>

High Quality, High Performance, Superb Techniques Beyond All!

Keep High Positioning Precision for 10 Years!

A. The beam and slide are symmetrical and structured with square a tube, which ensures high stability in high-speed operation.

B. Beams are stress relieved after high temperature annealing, quarantines high cutting precision for a long time.

C. 22KG standard gantry rail, rack & pinion with 7 grade precision (Euro Standard) and specialized reducer make its positioning precision conform to ISO 8206-1991 and its diagonal error within 1mm under the range of 3m*10m.
A. Intelligent NC System (F2300T controller - self-developed and patented technology); (High stability, fast operation, built-in integrated THC function, easy operation and reduce troubles)

B. Simple electrical connection; (Just connect with AC220V power line, oxygen rubber pipe and fuel gas tube)

C. Oxy-fuel and plasma switch in 30 seconds; (Oxy-fuel or plasma cutting can be switched easily by exchanging the torch holder, which avoids reducing the effective cutting area)

D. Easy Installation:

install ➔ measure debugging ➔ put up crossbeam
Make Gantry Cutting Simple, More Simple

E. Optional medium-voltage regulator makes operator adjust air pressure easily.

Unique Design of Technical Details, Perfect Cutting Effect

A. ±45° bevel cutting, adjust angle at will.
B. Anti collision device to avoid damage to plasma torch.

C. Can update to 2 oxy-fuel torches for improving productivity. (Distance is adjustable.)
D. Multiple steel plates can be put on cutting table for improving productivity.
E. Heavy duty tasks and keep working for 24 hours/day.

**Cutting Sample Show Time**

G3 plasma cutting: 12mm/5mm

G3 plasma cutting: 5mm
AngelBlade CAM Pro Cutting Software Introduction

AngelBlade CAM Pro Cutting software was R&D in 2008, which can be used for flame, plasma, laser, waterjet cutting machines Cutting program edition.

AngelBlade CAM Pro supports more than 100 types of cutting codes, like Hypertherm, Messer, Esab, Koike, etc. over 100,000 sets of AngelBlade CAM have been used in the market.

Refer to world famous Cutting software, AngelBlade CAM Pro designed its function and operation for reaching a better user-effective experience.

At the same time, AngelBlade CAM Pro can save more cost for users!

AngelBlade CAM Pro Cutting software was made up of sui generis 3 functional modules:

- CAD Drawing cutting module
- CUT Nesting cutting module
- TEST NC code simulation module
AngelBlade CAM Pro Cutting Software CAD Main Functions & Feature

AngelBlade CAM Pro Cutting software CAD drawing module can finish the work of cutting parts shape drawing, editing, and support the cutting parts size scaling, copying, arraying, rotating, mirroring etc operation.
AngelBlade Cam Pro supports other formats CAD drawing files (e.g. CAM, DXF, DWG, IGES) import editorial export operation;
AngelBlade CAM Pro can optimize drawing;
AngelBlade CAM Pro supports users' parts drawing storage management;
AngelBlade Cam Pro supports processing setting to satisfy different processing requires;
AngelBlade CAM Pro can create parts process NC code.

CAD Drawing Cutting Module Functions

Parts Plotting Function:
According to the characteristics of cutting parts, AngelBlade CAM Pro cutting software can draw plotting function, and easy for operation.

Scale Display Function:
On the window of drawing, the scale will display, this scale can switch between metric system and British system.

Control Points Catching Function:
Convenience customers to catch control points.

Drawing Management Function:
Support processing coverage, marking coverage setting.

Module Operating Function:
Support user defined modules, modules rotating, mirroring, copying, moving, arraying etc editing operation.

Drawing Storage management Function:
Support users drawing storage management, users can classify their usual parts in user parts storage to easy manage and neat processing parts.

Processing Path Parameter Setting Function:
Freely auto processing patch setting window, easy for processing patch building.

Drawing File Switch Function
Support the 3rd parts drawing import and export operation.
AngelBlade CAM Pro Cutting Software
Introduction CUT Main Functions & Feature

AngelBlade Cam Pro nesting module can mass nesting for multiple parts on reactangle playyes or remainder plates. Support short line cutting continually, auto co-edge, and bridging technology. This module function can reduce a lot piercing times to improve using ratio, and raise cutting speed efficiency. Support manual nesting and auto nesting. Support multiple plates and remainders nesting. Support optimizing cutting management. Quick create multiple CNC codes for all kinds of CNC cutting equipments. High speed and more effective.

CUT Nesting Module Functions

Drawing Storage parts Functions:
It has file parts and storage parts interposition function. Users can drawing parts or user storage parts add into present nesting processing.

Cutting Program Management Function:
Increase program manangement function. When save each nesting mission, it will save as users’ program name, and auto create program file, parts file, nesting table file, remainder file, path setting file and CN code are included together. But also it can auto translate other form file (e.g. DWG, DXF, IGES) into CAM file. Easy for user to copy and process on other places.

Auto Path Creating Function:
Drawing can have auto patch creating function, more clear setting and easier operation.

Nesting Table Function:
With nesting program, which can be pre-choosing nesting table setting. It can improve the nesting speed and plates using ratio.

Nesting Table Function:
Improved auto nesting parameters setting function, with kerf setting in auto parameter setting table to satisfy co-edge and kerf make-up cutting.

Kerf Make-up Module Function
Added nesting parts kerf make-up display function, it can check the real distance when parts nesting. The interference of the parts can be checked intuitively. And it can create uncompensated NC codes.

Bridging Function:
Bridging function can reduce piercing times during cutting, can protect torch and reduce processing timing. Bridging function supports marking bridging. It can bridge multiple parts in one shot.

Co-edge Cutting Function:

Only cut once for co-edge parts’ co edge side (whole co-edge). Start cutting position will be set at the finished parts edged automatically, no need to piercing again. It can reduce cutting timing and reduce wasting of plates.

Short Line Continually Cutting Function:
Added short lines continually cutting function. The short lines can be cut from the first part’s lead out line to the next part’s lead in line that can reduce the piercing times and reduce the consumable wasting.

**Automatically Create Remainders & Remainder Cutting Function:**

It can create a remainder plate data file after cutting materials automatically. And it can add NC code on the end of remainder cutting code. This function can make sure after finishing the cutting parts, the remainder plate can be cut automatically. The remainder material can be used on remainder nesting material.

**Multiple Torches Nesting Function:**

Support multiple torch processing, which can auto nesting with the torch number user supplied.

**Remainder Plates Revolve Function:**

Added remainder plates revolve function on the window of plates data. When use nesting remainders, user can revolve remainder plate to set the torch position and start cutting position.

**Auto Nesting Function:**

Multiple plates auto nesting function had adopted advanced auto nesting strategy of pre-nesting program. It can make nesting speed faster, and more effective using plates. And it supports parts combination nesting, fasten the nesting speed.

**AngelBlade CAM Pro Cutting Software**

**Introduction Test main Function**

AngelBlade CAM Pro Cutting software TEXT NC code simulation module can create the above modules’ NC code to make PC do the test cutting. It supports continually or one step simulation, and can change following display cutting track. It can modify NC code during simulation process. It can check the NC code correctness and reasonability.

AngelBlade CAM Pro cutting software TEST NC code simulation module improves production efficiency, and it can calculate the cost of productive process.

**Test Simulation main Functions**

**TEST Function Simulation Modes:**

It can support single step operation, one by one step following, and can support modify the NC code during simulation process, and can check the NC code correctness and reasonability to improve production efficiency.

**Working Hour Partition Function & Process Cost Estimate Function:**

It has process cost estimate function. According to NC code process mission to calculate cost. It can use on production hours calculation and cost management.
Introduction Postprocessor Main Functions & Features

Due to different CNC cutting machines’ controller need different assistant codes, which is form NC code, or the different of program starting and ending files, it will make different NC codes, which have to be modified manually for the next process. In order to make sure AngelBlade CAM Pro cutting software can suite different CNC controllers, it has a postprocessor to modify related parameters, according to users’ CNC controllers. It translates correct code for the user controller.

AngelBlade CAM Pro Drawing Nesting Working Flow

![Diagram showing the workflow of AngelBlade CAM Pro Drawing Nesting Working Flow]

User Drawing Storage Management
AngelBlade CAM Pro Cutting Software
Introduction Practical Application

Cut Drawing Module
Co-edge Nesting Function

Bidging Cutting Function
Auto Path Creation

Mix Nesting, Co-edge & Non touch Nesting
Dialog Mode Lead-in & Lead-out Modify

Manually / Automatically Nesting
Multiple Torches Nesting Function

Support straight line and outline cutting edge

Auto Remainder Cutting Edge Function

Remainder Material Nesting Function
Combination Parts Nesting Function

NC Code Simulation Function
Working Hour Partition Function & Process Cost Estimate

NC Postprocessor Function