Sheet metal CAD services for

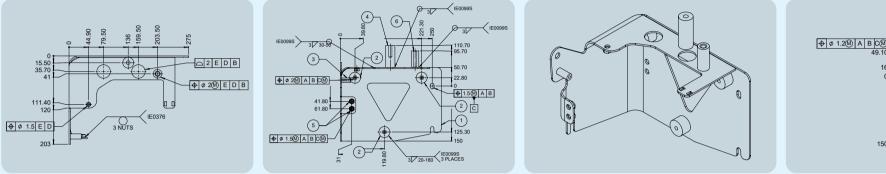
building products to ensure quality shop drawings

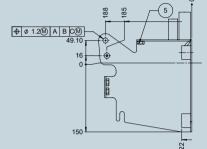
Building products industry generously employs sheet metal. These metal sheets are fabricated through operations such as bending, rolling, punching, cutting etc. to develop products of desired shapes. On the shop floor, the machine operators use detailed shop drawings to understand the design intent of the products and fabricate quality products.

Creating high-quality shop drawings

Fundamental details all sheet metal shop drawings should have

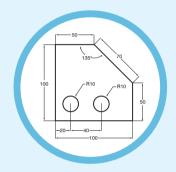
- Isometric views and exploded isometric views
- Information for weldments such as location, type, and length
- GD&Ts with manufacturing instructions
- Exact development view (Flat pattern) with bending notes & bending radius
- Assembly drawing if multiple parts are being manufactured and assembled







A non-negotiable checklist to perfect shop drawings



Follow standard dimensioning system



Include material details, thickness, type etc.

hitech 炎		NAME		DATE	PART NUMBER:	
	DRN	N Hitech		18/10/2021	Single Stair HRL_HRL001	
	CHD	CHD Hited		20/10/202		
	APPD					
The denomination of the limit of the state	PROJECT: Hitech HRL				Material: Stainless Steel Finish:	Revision: 2 Drawing Scale:
Unless Otherwise Stated, Linear Tolerance: ±1mm Parts Surface Finish: 3.2µm All Dimensions: mm	THIRD ANGLE		Sheet Size: A1		Powdercoated Matt Black	1:5 Shout
Drawing Produced In Accordance With AS 1100.101					Approx Weight 9.10 Kg	1 of 1

Clearly draw the title block with all necessary information



Understand the shop processes to avoid information clutter



revisions



Know your fabricator's tooling palette

Best practices for shop drawings and drafting

- Follow Design for Manufacturability (DFM) & Design for Manufacturability & Assembly (DFMA)
- Use simplified part features to reduce the production time and costs
- Confirm the drawing formats with your fabricator to ensure there is no reading or difficulties or design interpretation challenges

CAD platforms offer the accuracy and precision needed to create perfect shop drawings

But according to users, CAD software has unique challenges





creating significant design is a big concern





find difficulties with imported CAD files





collaborating with manufacturing/fabrication teams as a top challenge



faced issues in system performance while working with large CAD assemblies

Solutions that address all challenges



Adopting international standards like ANSI, TEMA, ASME, AWI etc.



Creating neutral CAD files for seamless data exchange: STEP/IGES etc.



Work with experienced outsourcing CAD partner



Creating CAD files from PDF, TIFF, sketches, .rvt to .dwg to digitize data in CAD and reuse it



Deploy high performance systems with licensed software products from Autodesk, Dassault Systèmes etc.

Hitech CADD Services' drafting experts are competent to deliver sheet metal fabrication drawings along with other manufacturing documents with first time right approach. We are capable to deliver SolidWorks models and drawings for a range of sheet metal building products.



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