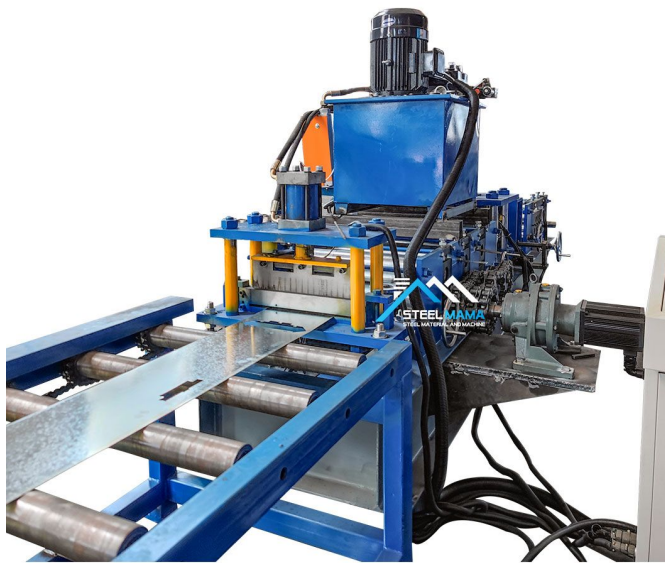


Sheet-Metal Press-Die Manufacturing

Complete Turnkey Business Proposal



Made-in-China supplier reference: real sheet-metal press-die manufacturing equipment.

target machine compatibility	released drawing design gate	trial sample acceptance	tool record traceability
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Prepared for investment planning in Afghanistan and regional export markets. Final specifications, pricing, civil works, and utility loads require supplier quotation and site survey.

Executive Summary

Designs and manufactures blanking, piercing, bending, drawing and progressive dies for sheet-metal products through part and press review, strip layout, tool-steel machining, die-set assembly, tryout, part measurement and controlled correction.

Why this project fits Afghanistan

- Tooling must be designed around the target production machine and released buyer drawing.
- First-off samples, measured dimensions and repeat-cycle evidence must be accepted before production release.
- Start with one high-demand product family and retain tool drawings, settings and maintenance records.

Sanaatchi delivery scope

- Factory setup planning, supplier pre-qualification, and technical comparison
- Complete production-line and individual equipment supply
- Factory layout, utilities, civil-work coordination, installation, and commissioning
- Raw-material sourcing, trial-batch qualification, and repeat supply planning
- International logistics, customs documentation, operator training, spare parts, and after-sales support

Recommended configuration

Begin with simple brackets, hardware or panel components for one press range. Confirm sheet grade and thickness, press tonnage/bed/stroke, coil or blank feed, strip layout, burr direction, bend radius, springback, sensors and production volume before tooling.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Sheet-metal press dies	Named press and feed, sheet grade/thickness, part drawing, strip layout, operations, die-set size, tonnage, burr/bend and cycle requirements	Metal furniture, appliance, electrical enclosure, construction hardware and vehicle-component workshops

Supplier scope, dimensions, material grade, target-machine compatibility, sample acceptance, utilities and delivery must be confirmed before purchase.

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Part/strip-layout CAD station	Plans material use and operations	Press/feed match
2	CNC/EDM die machining	Cuts punches and die blocks	Edge/clearance
3	Die-set assembly bench	Fits guides, springs and sensors	Repeatable alignment
4	Grinding/tryout station	Tunes cutting and forming surfaces	Burr and bend quality
5	Press tryout and gauges	Validates stamped parts	Dimensions and cycle

Equipment models are indicative and will be matched to the selected capacity, local raw-material tests, available utilities, and preferred automation level.

Reference Equipment Gallery



Made-in-China supplier reference: real sheet-metal press-die manufacturing equipment.



Made-in-China supplier reference: second real machine configuration for sheet-metal press-die manufacturing.

Images are supplier references for configuration discussion; final equipment appearance and model may differ.

Plant, Raw Materials & Utility Requirements

Raw materials

- Tool steel, die sets, punches, springs, guide posts, sensors, fasteners, grinding consumables, lubricants, gauges and sheet test stock

Utilities & infrastructure

- Stable three-phase power, guarded machining, calibrated measuring tools, covered material/tool storage and safe lifting/handling
- Documented maintenance, critical wear spares, approved coolants/lubricants and product-specific safety controls

Quality, safety and environmental controls

- Approve strip layout and exact press data before cutting tool steel
- Control cutting clearance, die-set alignment, punches, guide posts, sensors, bend radii, burr and springback
- Try out using the contracted sheet; measure parts, burr, cracks, form, feed reliability and tool wear through repeat cycles

A final factory layout must reserve safe forklift routes, maintenance clearances, raw-material segregation, finished-goods storage, fire protection, ventilation, and future expansion space.

Indicative Investment & Implementation Plan

LOW-ENTRY CONFIGURATION

Sheet-metal dies must be matched to the press, feed and sheet. Tool cost rises sharply with progressive operations, sensors, draw depth and tolerance.

Component	Indicative range	Notes
CAD/CAM, CNC/EDM and die-set equipment	US\$70k-240k	Simple-to-medium die family
Grinding, assembly, tryout and gauges	US\$30k-120k	Quality and press fit
Trial stock, correction and wear spares	US\$15k-60k	Part-specific validation
Indicative entry total	US\$115k-420k	Production presses, coil line and building excluded

Implementation sequence

Phase 1	2-5 weeks	Confirm product specification, representative raw material, buyer, capacity, site and utilities
Phase 2	3-7 weeks	Run supplier trials with the buyer material and freeze the balanced machine, tooling and utility scope
Phase 3	8-22 weeks	Manufacture or refurbish, inspect, document and ship the contracted equipment
Phase 4	3-12 weeks	Install, commission, train operators and pass material-specific acceptance tests

Ranges are planning targets for a low-cost entry configuration, exclude land, and remain subject to confirmed capacity, supplier quotation, freight, duties, exchange rates and site conditions.

Next Steps & Contact Information

Recommended next steps

- Confirm target products, hourly output, and packaging formats
- Test representative raw materials and document quality requirements
- Complete site survey covering electricity, water, fuel, drainage, roads, and warehouse space
- Request comparable technical and commercial quotations from shortlisted suppliers
- Finalize financing, logistics, installation, training, and spare-parts plan

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Research and image references

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