



Die-Casting Equipment List

Consolidated aluminum and zinc die-casting capacity across five owned manufacturing equipment groups.

50 DIE-CASTING MACHINES	46 ALUMINUM MACHINES	4 ZINC MACHINES	88-4,400 T CLAMPING RANGE
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Equipment Allocation by Manufacturing Group

Equipment group	Location	System	Aluminum machines	Zinc machines	Routing notes
Ningbo facility A	Ningbo, Zhejiang	TS	15	0	Large-tonnage aluminum route
Ningbo facility B	Ningbo, Zhejiang	TS	10	2	Aluminum and zinc routes / In-house spray process
Ningbo facility C	Ningbo, Zhejiang	ISO	9	0	Broad mid-tonnage coverage
Jiangsu facility	Jiangsu	ISO	6	0	Regional aluminum capacity
Ningbo facility D	Ningbo, Zhejiang	ISO	6	2	Aluminum and zinc routes / In-house spray process

Control note

The equipment list is generated from the same structured inventory used by the Ningbo Empire website. Automated validation blocks publication if aluminum, zinc or combined totals differ from the owner-confirmed source table.

Aluminum Die-Casting Machines - 46 Total

Clamping force	Quantity	Clamping force	Quantity	Clamping force	Quantity
130T	3	500T	3	1,000T	1
160T	3	530T	2	1,250T	2
180T	1	630T	1	1,300T	1
200T	2	700T	2	1,600T	2
280T	6	800T	5	1,800T	1
350T	1	840T	1	2,500T	1
400T	4	850T	3	4,400T	1

Full Aluminum Allocation by Site

Equipment group	Machine distribution
Ningbo facility A	180T x1 280T x2 400T x1 500T x1 530T x2 800T x2 840T x1 1,250T x1 1,600T x1 1,800T x1 2,500T x1 4,400T x1
Ningbo facility B	160T x2 200T x2 280T x1 400T x1 700T x1 800T x2 1,250T x1
Ningbo facility C	160T x1 280T x1 400T x1 500T x1 630T x1 800T x1 850T x1 1,000T x1 1,600T x1
Jiangsu facility	350T x1 400T x1 700T x1 850T x2 1,300T x1
Ningbo facility D	130T x3 280T x2 500T x1

Zinc Die-Casting Machines - 4 Total

Clamping force	Quantity
88T	1
100T	1
138T	1
160T	1

Downstream operation	Available manufacturing support
Tooling	Mold design, tooling manufacture and maintenance support
Machining	CNC machining for bores, datums, sealing faces, ports and interfaces
Surface treatment	In-house spray capability at identified routes; other finishes confirmed by project
Joining and assembly	Friction stir welding, inserts, project-defined assembly and functional checks
Inspection	CMM and project-specific dimensional or functional verification

Program routing examples	Primary equipment / process input
Automotive and battery housings	Projected area, casting weight, sealing and PPAP scope
Telecom and 5G enclosures	Fin geometry, RF faces, IP target and coating zones
Large structural castings	CAD model, projected area, load path and annual volume
Zinc precision components	Zamak grade, part weight, plating and cosmetic class

Use and Revision Control

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Scope: Equipment availability overview for supplier qualification and RFQ routing.

Project confirmation: Final machine assignment, production slot, alloy, tooling, secondary operations and inspection plan are confirmed during quotation.

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