

BOFEN

Mold Manufacturing Solutions

Product Catalog

**Quality builds our future,
Customers drive our market success.**

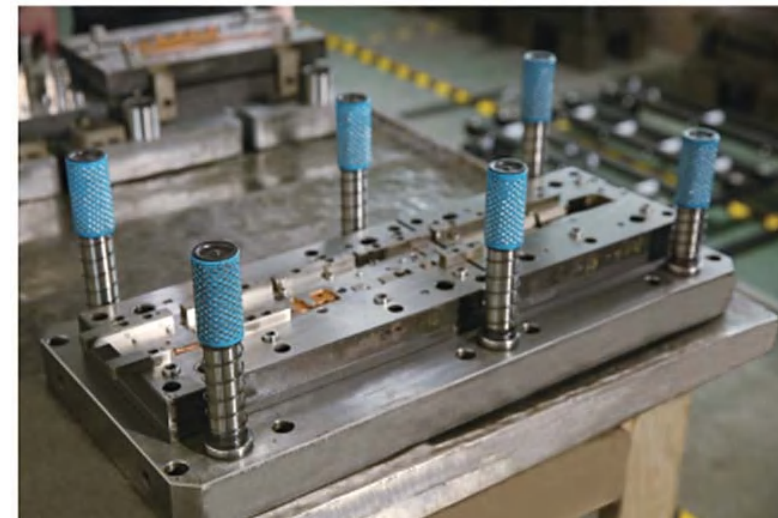


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Tooling & Mold Development



Key Process



COMPANY INTRODUCTION

Zhejiang Bofen Mechanical & Electrical Co., Ltd is established in 1998 in Yueqing City, Wenzhou, China, with a total gross floor area of 50,000m².

Focused mainly on molded case circuit breaker system production, the company is expanding its business into diversified fields including intelligent circuit breaker system integration. Boasting nearly 30 years of experience in stamping, welding, riveting, and independent in-house mold development, Bofen holds comprehensive capabilities for the design and manufacturing of MCCB hardware. The company has developed into a diversified group enterprise with sister companies including Zhejiang Deling Technology Co., Ltd and Yueqing Deling Mechanical & Electrical Co., Ltd.

Bofen serves as the Executive Vice President Unit of the Mold Branch under the Yueqing Electric Appliance Industry Association. It has been recognized as a leading local enterprise, National AAA Credit Enterprise, Yueqing Top 50 Enterprise and Yueqing Star Enterprise. “Bofen” brand has been awarded the title of Zhejiang High-Quality Product.

Guided by our management philosophy — Pursue excellence, strive for perfection, and contribute to society — we keep moving forward.

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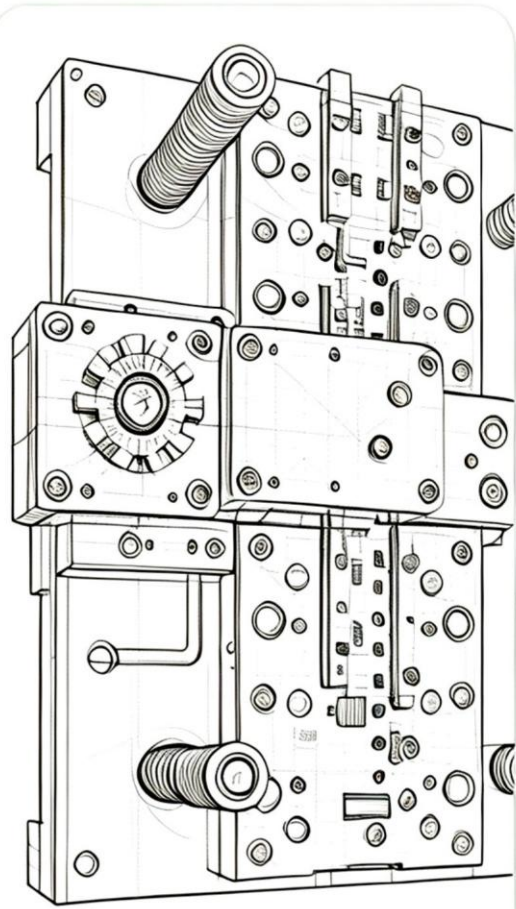
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One-Stop Molding Service

From Mode Design to Component Production



01 Mold Design & Development



02 Precision Manufacturing



03 Trail Quality & Control



04 Component Manufacturing

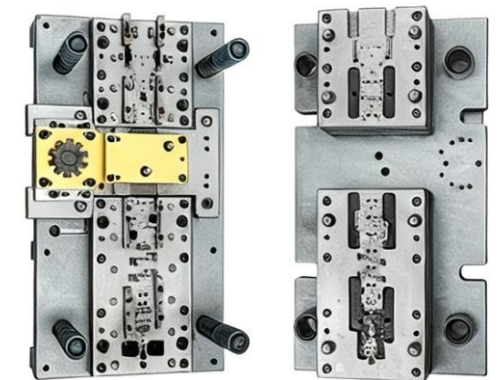
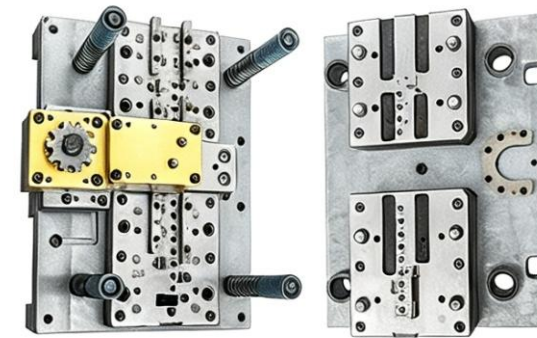
✓ **High Precision Mold Design**
Durable Mold Steel & Long Service Life

✓ **Stable Quality for**
Automated Mass Production



Progressive Stamping Dies

From Mode Design to Component Production



Product Overview

Progressive stamping dies are high-efficiency tooling. In one die set, metal coils/strips sequentially undergo blanking, bending, drawing and other operations across multiple stations, delivering finished parts at the final station.

As core tooling for automated mass-production of electrical-industry precision metal components, we design and manufacture stamping dies of diverse complexity, including high-precision progressive dies and compound forming dies. Micron-level machining accuracy ensures consistent, stable product performance.

Our Die Series

Precision Progressive Die

High-speed stamping for small, complex electrical components.

Multi-Station Progressive Die

Integrates punching, bending & flanging for one-step forming.

Long-Service-Life Progressive Die

Surface-treated premium die steel for millions-cycle operation.

Application: Empower the Electrical Industry

- **Intelligent Nesting Design**
Software-based simulation optimizes nesting to maximize material utilization.
- **High-Speed Precision Machining**
High-precision equipment delivers accurate mold components and stable high-speed stamping performance.
- **Premium Die Materials**
Adopt SKH-9, SKD11 high-speed steel and hard alloys for improved wear resistance and longer service life.
- **Rigorous Inspection & Trial Run**
Full-dimensional inspection plus strict trial-run validation ensures stable mass-production.



Thermoset Injection Molds

From Mode Design to Component Production



Product Overview

Specializing in BMC, SMC and DMC thermoset molding, our molds produce high-strength, heat-resistant, well-insulated components complying with electrical standards.

Suitable for circuit-breaker insulators, bases and switch housings. High-precision molding and strict QC deliver reliable solutions for efficient, safe, miniaturized electrical equipment.

Application: Circuit-breaker Insulating Base

Made of high-strength insulating DMC material, it features excellent arc-resistance and mechanical strength as a critical component for safe breaking in low-voltage distribution systems.



Our Core Advantages

- **Advanced Design**
Mold & runner-flow analysis. Optimized cooling for high-efficiency molding.
- **Rigorous Inspection & Trial Run**
Full-dimensional inspection plus strict trial-run validation ensures stable mass-production.
- **Precision Machining**
CNC, slow-feed wire-cut EDM; ± 0.005 mm accuracy, precise mold & full-part interchangeability.
- **Premium Mold Materials**
S136/NAK80/P20 steels with advanced heat-treatment, delivering high hardness & wear-resistance for extended mold service life.

Thermoplastic Injection Molds

From Mode Design to Component Production



Product Overview

We design and manufacture thermoplastic molds for diverse materials and processes.

From high-volume precision injection molding to high-strength insulator forming, our professional mold solutions enhance product quality and production efficiency for multiple industries.

Application: Mini Circuit-breaker Housing

- High molding efficiency for mass-volume production with stable yield.
- High dimensional accuracy; snaps, mounting bosses and locating holes are formed in one shot, ensuring good part interchangeability.
- Various surface finishes (gloss, matte, texture) achieved directly during molding, minimizing post-processing.



Our Core Advantages

Thermoplastic Injection Molds

Works with mainstream thermoplastics: PP, ABS, PC.

Precision-machined for high-volume efficient injection molding, ensuring stable dimensions and consistent part quality.

Full-process Service

Full-service scope: project evaluation, design, mold manufacturing, commissioning and after-sales maintenance. End-to-end professional support for streamlined production.

Customized Design Service

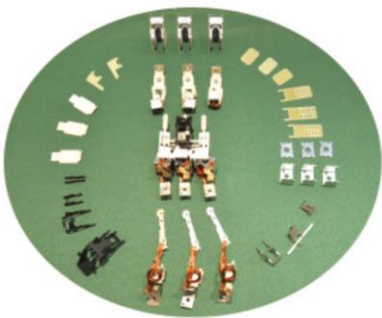
Tailor-made mold structure and cavity design for various industries, catering to custom-production of simple-to-complex special-shaped parts.

MCCB Mental Components Manufacturing

Zhejiang Bofen Mechanical & Electrical Co., Ltd strives to be the excellent circuit breaker parts supplier. Our leading products include the metal fittings of the air switch M1 series moulded-case circuit breaker, the leakage MILE series moulded-case circuit breaker, the electronic type (intelligent) M1EL series moulded-case circuit breaker, automatic reclosing M5EL series moulded-case circuit breaker.

Standard	Comply with the national standards (custom-made is available on request)
Features	The mechanical life of all models is 50% longer than the national standard.
Product materials	The contact is from Shanghai PEOPLE Electric, the bimetal is from Foshan FSTB, the copper material is from Huifeng T2/T3, all fasteners are made of cold rolled steel sheets #45, welding position adopts silver soldering paste
Technology	Fine blanking technology is used in product external leakage part. Soldering is made by high frequency spot welder and automatic welding and are strictly follow the process documents.
Equipment	Over 70% products have realized automatic production
Technlcal team	We have a technology team which can independently develop and manufacture mold and product.
Management team	We aim to create a more and systematic management team by relying on professional management team. We guarantee to produce high quality circuit breaker parts by promising to strictly follow the standard, select high quality raw material, adopt advanced production technology and create professional technology and management team.

M1-63 Mental Components



M1-63 导电系统
M1-63 conductive system



M1-63L 静触头
M1-63L static contact



M1-63L/M 跳扣
M1-63L/M tripping device



M1-63L/M 大支架
M1-63L/M big support



M1-63L/M 杠杆
M1-63L/M lever



M1-63L/M 上连杆
M1-63L/M upper connecting rod



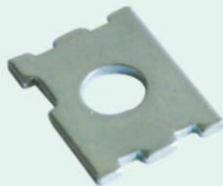
M1-63L/M 下连杆
M1-63L/M lower connecting rod



M1-63M 静触头
M1-63M static contact



M1-63L/M 磁轭板
M1-63L/M magnetic yoke plate



M1-63L/M 磁轭板
M1-63L/M magnetic yoke plate

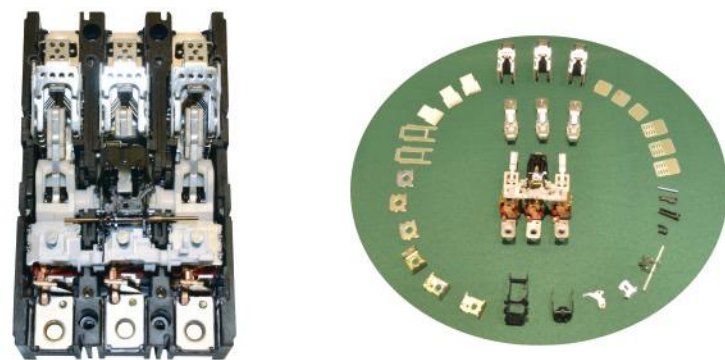


M1-63L/M 再扣
M1-63L/M re-tripping device



M1-63L/M 锁扣
M1-63L/M latched device

M1-100 Mental Components



M1-100L 导电系统
M1-100L conductive system



M1-100L 静触头
M1-100L static contact



M1-100M 静触头
M1-100M static contact



M1-100L/M 大支架
M1-100L/M big support



M1-100L/M 杠杆
M1-100L/M lever



M1-100M 静支架
M1-100M static support



M1-100L/M 再扣
M1-100L/M re-tripping device



M1-100L/M 跳扣
M1-100L/M tripping device



M1-100L/M 锁扣
M1-100L/M latched device



M1-100L/M 上连杆
M1-100L/M upper connecting rod

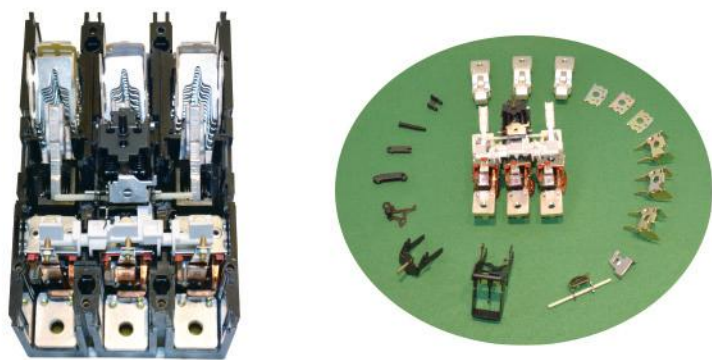


M1-100L/M 下连杆
M1-100L/M lower connecting rod



M1-100L/M 磁轭板
M1-100L/M magnetic yoke plate

M1-225 Mental Components



M1-225M 导电系统
M1-225M conductive system



M1-225M 导电系统
M1-225M conductive system



M1-225M 静触头
M1-225M static contact



M1-225L 静触头
M1-225L static contact



M1-225M 大支架
M1-225M big support



M1-225L 大支架
M1-225L big support



M1-225L/M 杠杆
M1-225L/M lever



M1-225L/M 再扣
M1-225L/M re-tripping device



M1-225L/M 锁扣
M1-225L/M latched device



M1-225L/M 下连杆
M1-225L/M lower connecting rod



M1-225L/M 上连杆
M1-225L/M upper connecting rod



M1-225L/M 磁轭板
M1-225L/M magnetic yoke plate



M1-225M 静支架
M1-225M static support



M1-225L/M 磁轭板
M1-225L/M magnetic yoke plate

M1LE-100 Mental Components



M1LE-100M A相热元件
M1LE-100M A-phase thermoelement



M1LE-100M B相热元件
M1LE-100M B-phase thermoelement



M1LE-100M C相热元件
M1LE-100M C-phase thermoelement



M1LE-100M 动触头
M1LE-100M moving contact



M1LE-100M 静触头
M1LE-100M static contact



M1LE-100M A型零线
M1LE-100M A-type zero line



M1LE-100M A型零线
M1LE-100M A-type zero line



M1LE-100M 大支架
M1LE-100M big support



M1LE-100M 再扣
M1LE-100M re-tripping device



M1LE-100M 上连杆
M1LE-100M upper connecting rod



M1LE-100M 下连杆
M1LE-100M lower connecting rod



M1LE-100M 衔铁
M1LE-100M armature



M1LE-100M 杠杆
M1LE-100M lever

M1LE-225 Mental Components



M1LE-225M A相热元件
M1LE-225M A-phase thermoelement



M1LE-225M B相热元件
M1LE-225M B-phase thermoelement



M1LE-225M B相热元件
M1LE-225M B-phase thermoelement



M1LE-225M B型零线
M1LE-225M B-type zero line



M1LE-225M 动触头
M1LE-225M moving contact



M1LE-225M 静触头
M1LE-225M static contact



M1LE-225M 大支架
M1LE-225M big support



M1LE-225M 杠杆
M1LE-225M lever



M1LE-225M 再扣
M1LE-225M re-tripping device



M1LE-225M 上连杆
M1LE-225M upper connecting rod

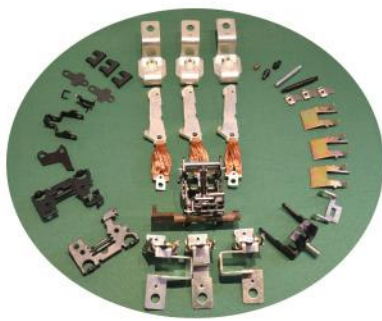


M1LE-225M 下连杆
M1LE-225M lower connecting rod



M1LE-225M 衔铁
M1LE-225M armature

M1-400/630/800
M1LE-400/630
Mental
Components



M1LE-400M A相热元件
M1LE-400M A-phase thermoelement



M1LE-400M B相热元件
M1LE-400M B-phase thermoelement



M1LE-400M C相热元件
M1LE-400M C-phase thermoelement



M1-100M 静触头
M1-100M static contact



M1-400M 动触头
M1-400M moving contact



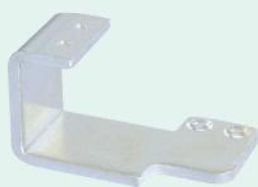
M1LE-400M B型零线
M1LE-400M B-type zero line



M1-630M 导电系统
M1-630M conductive system



M1-800H 导电系统
M1-800H conductive system



M1LE-630M C相(后)
M1LE-630M C-phase (rear)



M1LE-630 A相导体(后)
M1LE-630 A-phase conductor (rear)

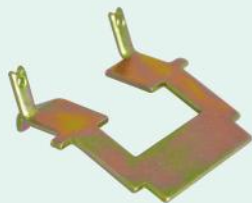
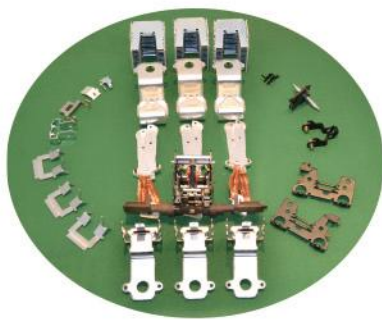


M1LE-400 A相导体(前)
M1LE-400 A-phase conductor (front)



M1LE-630M C相导体(右)
M1LE-630M C-phase conductor (right)

M1-400/630/800
M1LE-400/630
Mental
Components



M1-630/800 衔铁
M1-630/800 armature



M1-630H 右压板
M1-630H right pressing plate



M1-630H 右压板
M1-630H right pressing plate



M1LE-630A 型零线
M1LE-630A-type zero line



M1-400S/L 静触头
M1-400S/L static contact



M1LE-400MB 型零线
M1LE-400MB-type zero line



M1-630M 热元件
M1-630M thermoelement

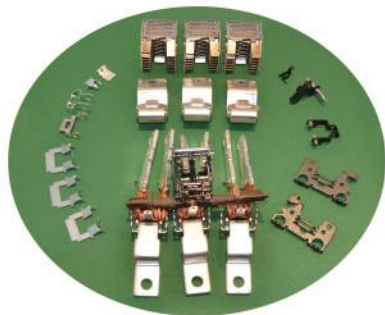


M1-630M 静触头
M1-630M static contact



M1-800M 静触头
M1-800M static contact

M1-400/630/800 M1LE-400/630 Mental Components



M1-400/630/800大支架
M1-400/630/800 big support



M1-400/630/800右夹板
M1-400/630/800 right clamp plate



M1-400/630/800右夹板
M1-400/630/800 right clamp plate



M1-400/630/800杠杆
M1-400/630/800 lever



M1-400/630/800跳扣
M1-400/630/800 tripping device



M1-400/630/800下连杆
M1-400/630/800 lower connecting rod



M1-400/630/800再扣
M1-400/630/800 re-tripping device



M1-400/630/800大锁扣
M1-400/630/800 big latched device



M1-400H压板
M1-400H pressing plate



M1-400H连杆支架
M1-400H connecting rod support



M1-630/800连杆支架
M1-630/800 connecting rod support



M1-400H衔铁
M1-400H armature

Automatic Reclosing MCCB Mental Components



255智能型机构部分
255 intelligent mechanism part



255自动重合闸动触头
255 automatic reclosing moving contact



255智能型动触头
255 intelligent type moving contact



255自动重合闸A相导电杆
255 automatic reclosing A-phase conducting rod



255自动重合闸B相导电杆
255 automatic reclosing B-phase conducting rod



255自动重合闸C相导电杆
255 automatic reclosing C-phase conducting rod



255智能型静触头
255 intelligent type static contact



255智能型脱扣器
255 intelligent release



255漏电零线
255 leakage zero line

All types of Red vulcanized paper, Nomex paper, Insert Insulation Materials

			
M1-63L/M铁芯红钢纸 M1-63L/M iron-core red vulcanized paper	M1-225L/M铁芯红钢纸 M1-225L/M iron-core red vulcanized paper	M1-100H静红钢纸 M1-100H static red vulcanized paper	M1-225 S静红钢纸 M1-225S static red vulcanized paper
			
M1-225L/M导向片 M1-225L/M guide piece	M1-100H静布片(小) M1-100H static cloth (small)	M1-100H静布片(大) M1-100H static cloth (big)	M1-63L/M罗米克纸 M1-63L/M Nomex paper
			
M1-100L后插片 M1-100L rear insert	M1-225H罗米克纸 M1-225H Nomex paper	M1-225L前插片 M1-225L front insert	M1-225M前插片 M1-225M front insert
			
M1-225L中插片 M1-225L middle insert	M1-225L后插片 M1-225L rear insert	M1-400H前插片 M1-400H front insert	M1-400H导向片 M1-400H guide piece

All types of Arc chutes Inserts insulation materials

		
M1-100H中插片 M1-100H middle insert	M1-100L中插片 M1-100L middle insert	M1-100H后插片 M1-100H rear insert
		
M1-63L/M前插片 M1-63L/M front insert	M1-63L/M后插片 M1-63L/M rear insert	M1-400H中插片 M1-400H middle insert
		
M1-100L灭弧室 M1-100L interrupter	M1-63L灭弧室 M1-63L interrupter	M1-225L灭弧室 M1-225L interrupter
		
M1-225H灭弧室 M1-225H interrupter	M1-400H灭弧室 M1-400H interrupter	M1-63H灭弧室 M1-63H interrupter