



- Advanced processing equipment.
- Precision sheet metal welding parts serve well-known enterprises at home and abroad.
- Precision castings are supplied to DMG externally.
- More than 20,000 sets of machine tools manufacturing experience.
- CNC Machine Tool Assembly and Manufacturing Base
- Sheet Metal Welding Parts Production Base
- Large CNC Machine Tools Production Base
- Casting Production Base

Vertical 5-axis Machining Center

Product characteristics

MX650

- 5-axis linkage and full-closed loop control ensure it is suitable for processing complex surfaces of precision molds.
- Using forward direction cantilever and longitudinal cradle layout, the straight axis is separated from the processing area, and the best dynamic performance and convenient operation space are obtained.
- B and C axes are driven by precise worm wheel and worm, and Heidehan circular grating is used to improve accuracy retention.
- The tailstock unit of the worktable is matched to keep the high precision of the worktable under full load.



MX800

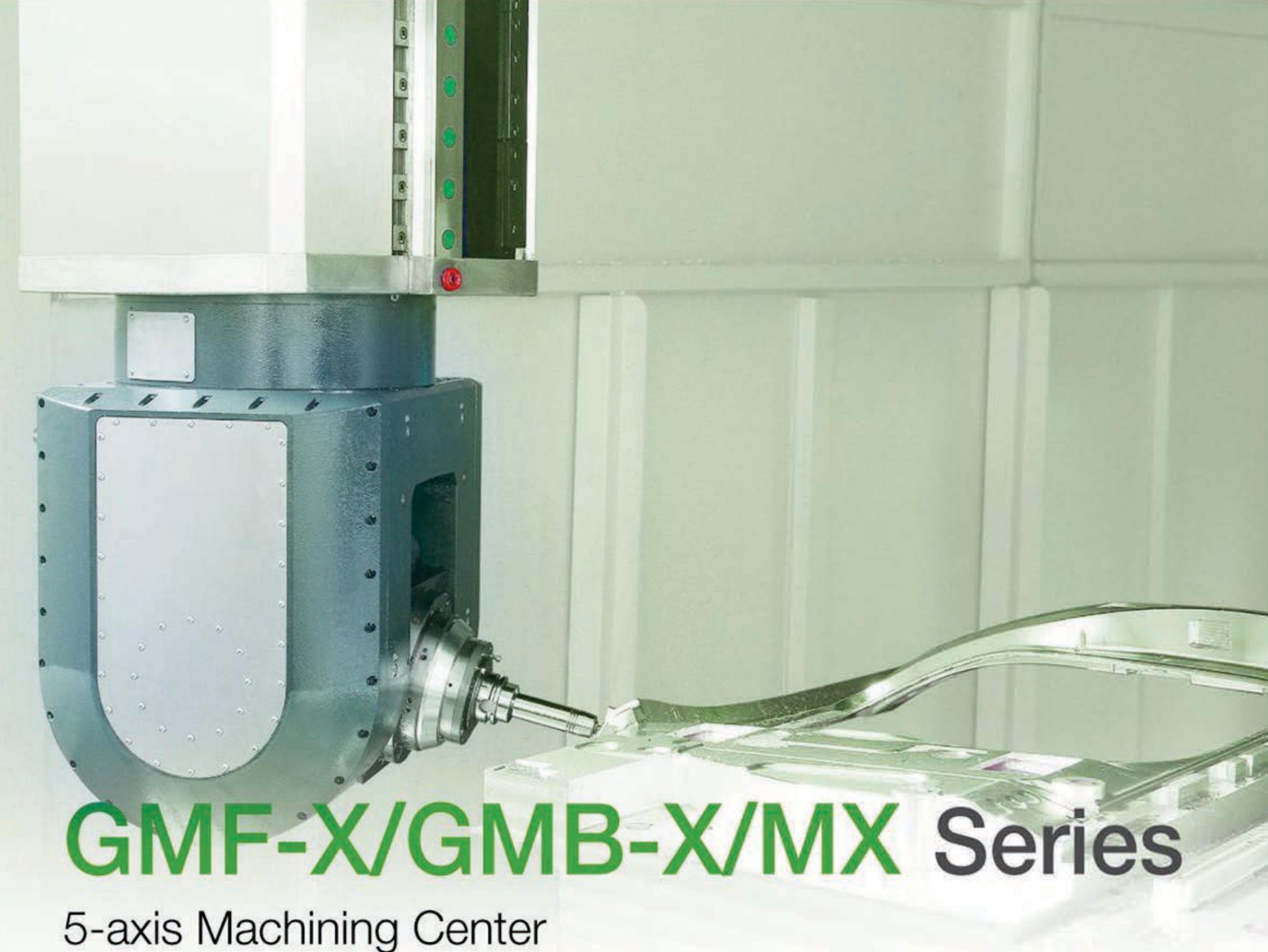
- Adopt bridge gantry structure, Y-axis dual drive, excellent dynamic performance.
- The A/C axis is directly driven by a linear motor, which has good dynamic performance, no wear and high precision retention.
- The three-axis screw is cooled by a nut, which effectively controls the thermal elongation of the transmission part and improves the thermal stability of the whole machine.



The main specifications and technical parameters

Machine type	MX650	MX800
Revolving stage		
Worktable size(Opposite side) mm	600	800
Worktable bearing kg	350	1000
T-slot width mm	5-14*100	7-14*100
Itinerary		
Angle for B axes	-40°/+110°	±120°
Angle for C axes	360°	360°
Travel for X axes mm	650	800
Travel for Y axes mm	550	900
Travel for Z axes mm	500	650
Distance from spindle nose to table surface mm	140-640	100-750
Spindle		
Taper bore type	BT40	HSK A63
Spindle speed rpm	15000	15000
Main motor power kW	11	11
Feed speed		
Fast Feed Speed (X/Y/Z) m/min	36	48/48/36
Maximum rotation speed of B-axis rpm	25	60
Maximum rotation speed of C-axis rpm	25	90
Tool magazine		
Tool magazine capacity Tools	40	30
Maximum tool diameter mm	φ75	φ120
Maximum tool length mm	200	300
Maximum tool weight kg	8	8
Tool changing time sec	2.5	2
Accuracy		
Positioning accuracy (X/Y/Z) mm	0.008	0.008
Repeated positioning accuracy (X/Y/Z) mm	0.005	0.005
Positioning accuracy (B/C) sec	±5	±5
Repeated positioning accuracy (B/C) sec	±2	±2
Numerical control system		
Numerical control system	HEIDENHAIN TNC640	HEIDENHAIN TNC640
Air supply		
Air supply pressure bar	6-8	6-8
Air pressure flux L/min	280	280
Other		
Machine tool weight T	8	20
Overall dimension(L x W x H) mm	4520×3960×3340	3700×4400×3800

*The above specifications and parameters, the company has the right to change the design, if there is any change, without notice.



Quality and service

Quality inspection

The company possesses advanced precise machining equipments and high-accuracy detecting equipments, providing powerful guarantee for quick realization of advanced technical schemes. The company owns perfect quality management system and has passed the certification of ISO9001-2015 Quality Management System CE. Intertek and has been effective operating its quality management system. The company emphasizes on process control, strengthens technological management, optimizes production flow continuously and improves production efficiency to fulfill lean production and enhance enterprise competitiveness.

1. Inspection of assembly process
2. Inspection of large parts
3. Laser inspection
4. Ballbar detection
5. Three coordinates detector



Bridge Type 5-axis Gantry Machining Center

Product characteristics

- 5-axis linkage and full-closed loop control ensure it is suitable for processing complex surfaces of precision molds.
- Z oriented box in box type symmetric structure ensures balanced cutting stress, and slight thermal deformation.
- The screw nut is cooled to effectively restrains thermal extension.
- With German KESSLER AC swinging head and tuning fork type structure, AC axles are driven by torque motor.



The main specifications and technical parameters

Machine type		GMB2520LX	GMB2530LX	GMB4030LX	GMB5030LX
Worktable					
Worktable size	mm	2500×2000	2500×3000	4000×3000	5000×3000
Worktable bearing	T/m²	20T	8T/m²	8T/m²	8T/m²
Worktable T-slot		28	28	28	28
Range of work					
Gantry width	mm	2600	3800	3800	3800
Triaxial itinerary X/Y/Z	mm	2500×2000×1000	2500×3000×1000	4000×3000×1000	5000×3000×1000
Distance from spindle nose to table surface	mm	250-1250	250-1250	250-1250	250-1250
Spindle					
AC pendulum head		Germany Kessler	Germany Kessler	Germany Kessler	Germany Kessler
Spindle speed	rpm	18000	18000	18000	18000
Spindle taper bore type		HSK-A63	HSK-A63	HSK-A63	HSK-A63
A axis angle		±105°	±105°	±105°	±105°
C axis angle		±240°	±240°	±240°	±240°
Main motor power	kW	S1:56, S6:70	S1:56, S6:70	S1:56, S6:70	S1:56, S6:70
Maximum torque of spindle	Nm	S1:90, S6:111	S1:90, S6:111	S1:90, S6:111	S1:90, S6:111
Drive feed					
Fast Feed Speed (X/Y/Z)	m/min	15/20/20	15/20/20	12/20/20	12/20/20
Accuracy of machine tools					
Positioning accuracy (X/Y/Z)	mm	0.015/0.015/0.008	0.015/0.018/0.008	0.02/0.018/0.008	0.02/0.018/0.008
Repeated positioning accuracy (X/Y/Z)	mm	0.012/0.012/0.006	0.012/0.015/0.006	0.015/0.015/0.006	0.015/0.015/0.006
Other					
Weight	T	36	46	52	56
Total power capacity	KVA	100	100	100	100
Overall dimension (about)	mm	7000×7300×5100	7500×8500×5100	9000×8500×5100	10000×8500×5100

* Worktable load capacity GMB2520LX is the overall workbench
The above specifications and parameters, the company has the right to change the design, if there is any change, without notice.



Fixed Beam 5-axis Gantry Machining Center

Product characteristics

- 5-axis linkage and full-closed loop control ensure it is suitable for processing complex surfaces of precision molds.
- The Z axis four wire rail structure has small friction resistance and good accuracy.
- With German KESSLER AC swinging head and tuning fork type structure, AC axles are driven by torque motor.



Structure characteristics

The main specifications and technical parameters

Specifications			30 Series			34 Series				38 Series		42 Series	
Machine type	Unit	GMF4030BLX	GMF5030BLX	GMF6030BLX	GMF4034LX	GMF5034LX	GMF6034LX	GMF8034LX	GMF6038LX	GMF8038LX	GMF6042LX	GMF8042LX	
Worktable													
Worktable size	mm	4000×2500	5000×2500	6000×2500	4000×2500	5000×2500	6000×2500	8000×2500	6000×3000	8000×3000	6000×3000	8000×3000	
Worktable load capacity	T	24	28	32	24	28	32	36	36	41	36	41	
Worktable T-slot size		11-28×200+2-28×180			11-28×200+2-28×180				15-28×200		15-28×200		
Processing scope													
Inner distance of double columns	mm	3000			3400				3800		4200		
Triaxial itinerary X/Y/Z	mm	4200×3500×1000	5500×3500×1000	6500×3500×1000	4200×3900×1000	5500×3900×1000	6500×3900×1000	8500×3900×1000	6500×4300×1000	8500×4300×1000	6500×4700×1000	8500×4700×1000	
Distance from spindle nose to table surface	mm	305-1305			305-1305				205-1205		205-1205		
Spindle													
AC head		Germany Kessler			Germany Kessler				Germany Kessler		Germany Kessler		
Max. rotating speed of spindle	rpm	18000			18000				18000		18000		
Spindle taper bore type		HSK-A63			HSK-A63				HSK-A63		HSK-A63		
A-axis swing angle		±105°			±105°				±105°		±105°		
C-axis swing angle		±240°			±240°				±240°		±240°		
Main motor power	kW	S1:56, S6:70			S1:56, S6:70				S1:56, S6:70		S1:56, S6:70		
Maximum torque of spindle	Nm	S1:89, S6:111			S1:89, S6:111				S1:89, S6:111		S1:89, S6:111		
Drive feed													
Fast Feed Speed (X/Y/Z)	m/min	12/15/10	10/15/10		12/12/10	10/12/10			10/12/10		10/10/10		
Accuracy of machine tools													
Positioning accuracy (X/Y/Z)	mm	0.02/0.02/0.014		0.025/0.02/0.014	0.02/0.022/0.014		0.025/0.022/0.014	0.028/0.022/0.014	0.025/0.022/0.014	0.028/0.022/0.014	0.025/0.022/0.014	0.028/0.022/0.014	
Repeated positioning accuracy (X/Y/Z)	mm	0.012/0.010/0.008		0.02/0.01/0.008	0.012/0.015/0.008		0.02/0.015/0.008	0.022/0.015/0.008	0.02/0.015/0.008	0.022/0.015/0.008	0.02/0.015/0.008	0.022/0.015/0.008	
Other													
Weight	T	47	53	60	49	55	63	74	69	83	71	85	
Total power capacity	KVA	100	100	100	100	100	100	100	100	100	100	100	
Overall dimension (about)	mm	10300×6700×6350	13100×6700×6350	15100×6700×6350	10300×7100×6350	13100×7100×6350	15100×7100×6350	19100×7100×6350	15100×7500×6350	19100×7500×6350	15100×7900×6350	19100×7900×6350	

*The above specifications and parameters, the company has the right to change the design, if there is any change, without notice.



German KESSLER
AC swinging head



German HEIDENHAIN
TNC640 system



Laser tool setting instrument



Automatic chip removing device

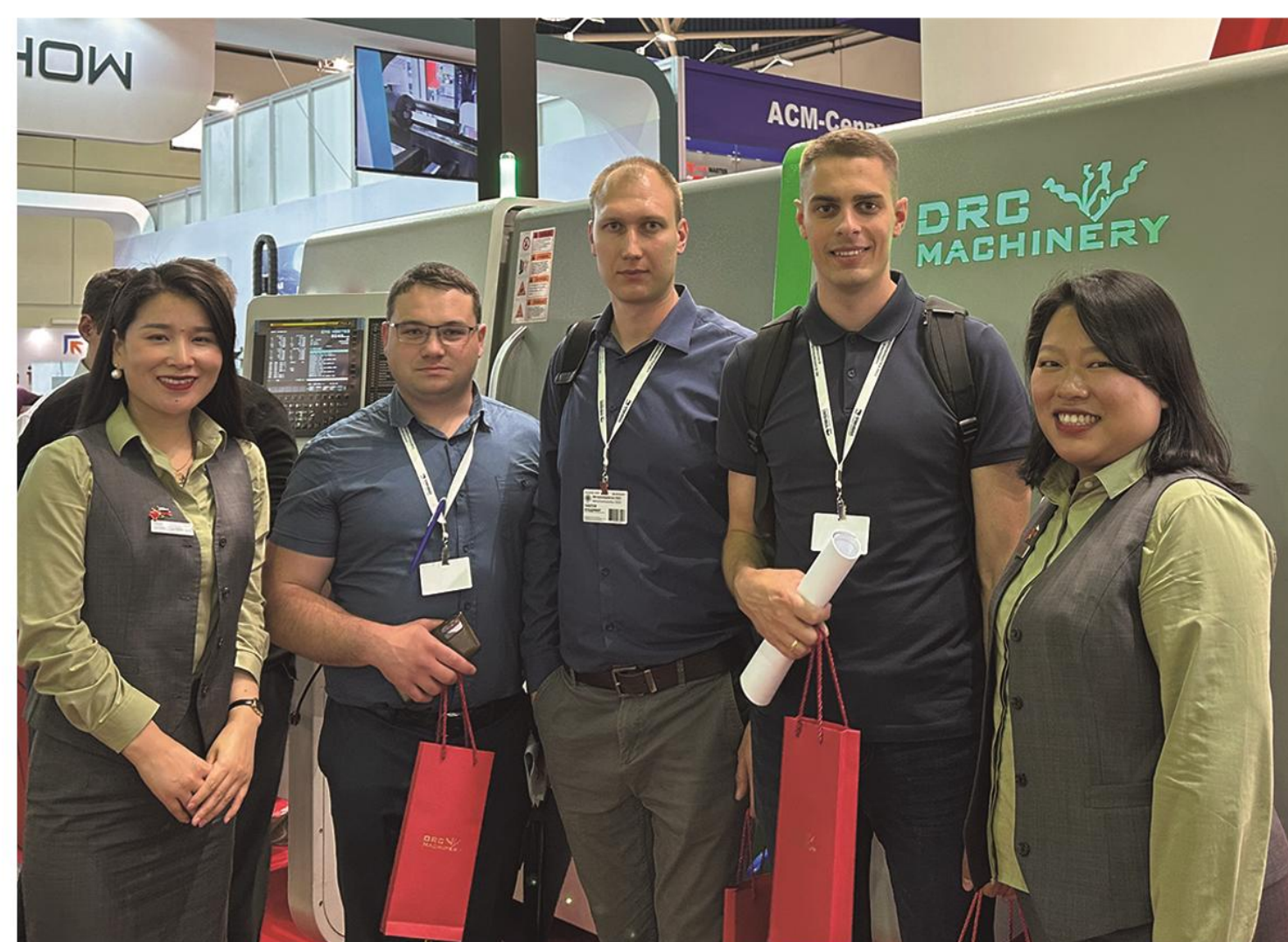


Water cooler



Oil path, gas path

参加展会 Attend Exhibition



OUR EXHIBITION

- CIMT
- Canton Fair
- EMO World Machine Tool
- International Machine Tools
- International Intelligent Manufacturing Equipment Expo



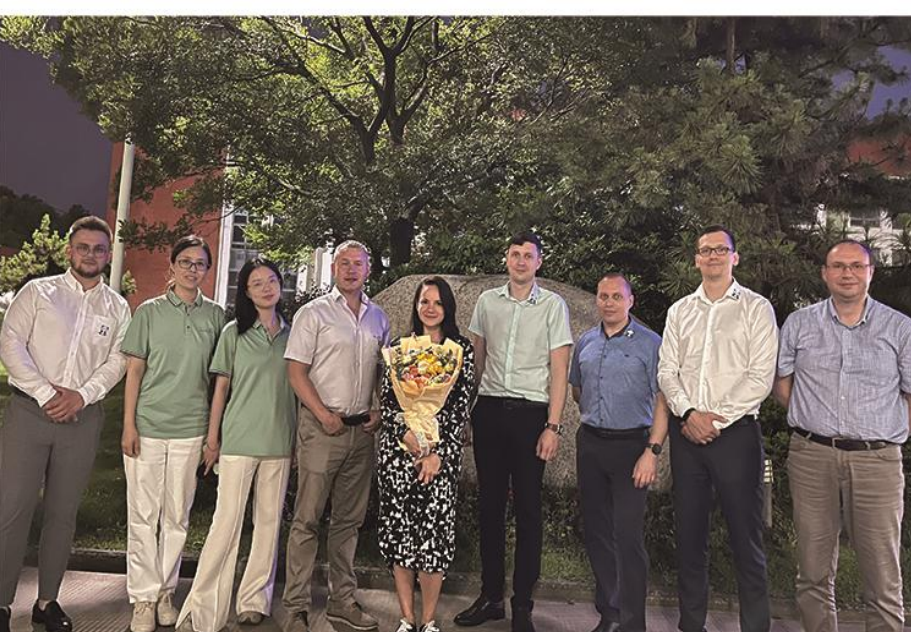
CUSTOMER VISIT



Dalian R&C Machinery Co., Ltd.

www.drcmachinery.com

大客户拜访 VIP CUSTOMER VISIT



**DRC
MACHINERY**



20年专注机械制造领域，中国机床工具行业30强企业，20000余台机床制造经验。

企业使命：在追求全体伙伴物心双幸福的同时，创建感动客户的中国精密设备工贸平台，为实业兴国和社会进步做贡献。

企业愿景：百年荣程，为中国精密设备遍布全世界，实现百年强国梦而努力奋斗。

20 years focus on the field of machinery manufacturing, China's top 30 machine tool industry enterprises, more than 20,000 machine tool manufacturing experience.

Enterprise mission: While pursuing the happiness of all partners, we will create a Chinese precision industry and trade platform that moves customers and contribute to the development of the country and social progress.

Enterprise vision: A hundred years of prosperity, for China's precision equipment all over the world, to realize the dream of a hundred years of power and strive.

-Integrity-诚信

-Professional-专业

-Thanksgiving-感恩

-Altruism-利他

-Passion-激情

-Innovation-创新