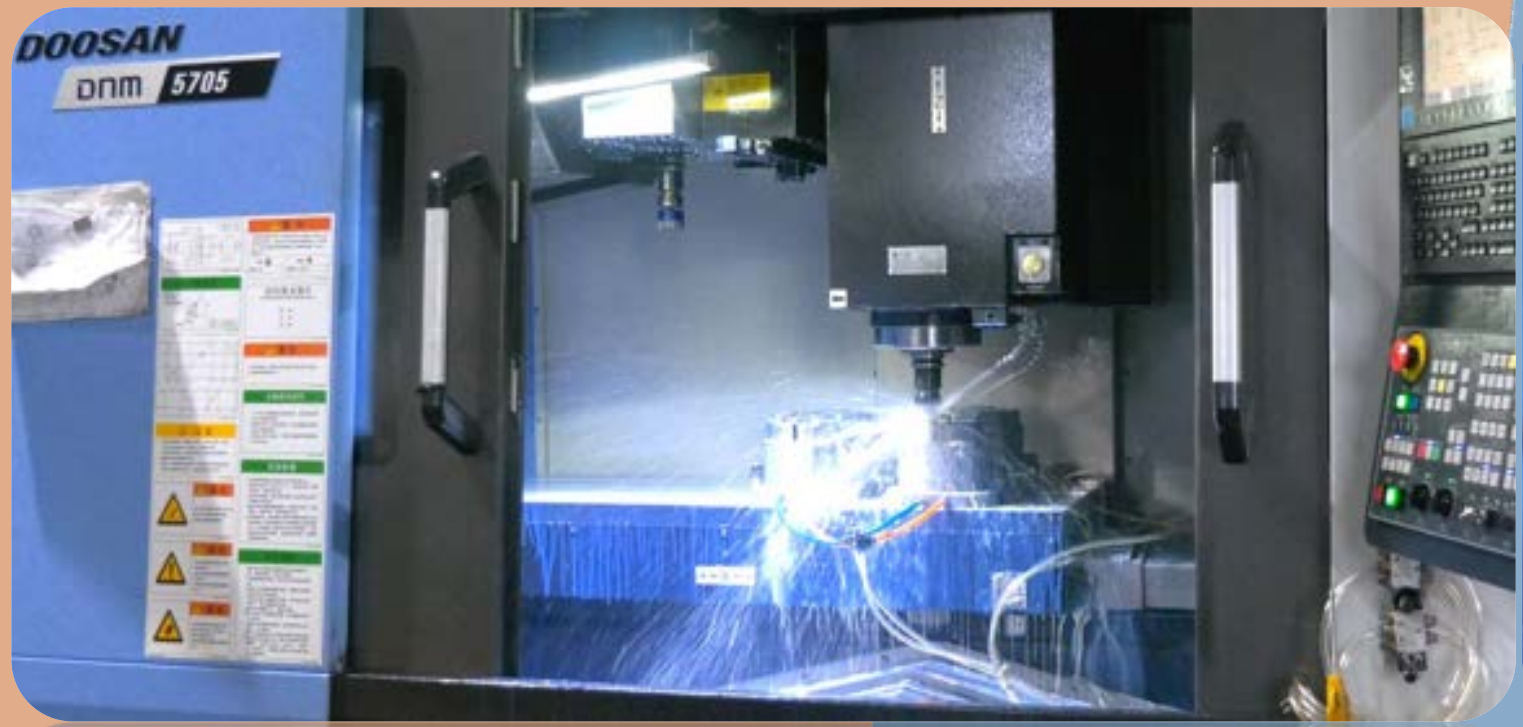
Matson Metal





HeBei Matson Metal Tech Co., Ltd

Matson Metal





5000 m2 new factory will be in use in next June.

HeBei Matson Metal Tech Co., Ltd

ABOUT US



Hebei Matson Metal Tech Co., Ltd.(Matson), based in ShiJiaZhuang, Hebei, has won a good reputation as an export-oriented manufacturer and supplier of OEM parts since its establishment in 2014.

Matson Metal specializes in the following industries: valve/pump parts, industrial machinery parts, automotive parts, civil usage parts, oil pipe fittings, food and agriculture machineries. We not only run a machining factory but also maintain partner relationships with foundries and forging plants so that we are qualified to supply parts in a wide range of materials such as stainless steel, duplex stainless steel, carbon steel, cast iron, aluminum, nickel alloy and etc. Per the requirements from our customers, we develop, purchase, manufacture and sales products, at the same time, we provide value-added services such as inspection, technical support.

Matson has a comprehensive management model, a professional project development team, and promotes a full-staff quality management model. We have won unanimous praise from foreign customers in terms of quality, price, delivery and service.

VISION, MISSION, VALUE

Matson Metal

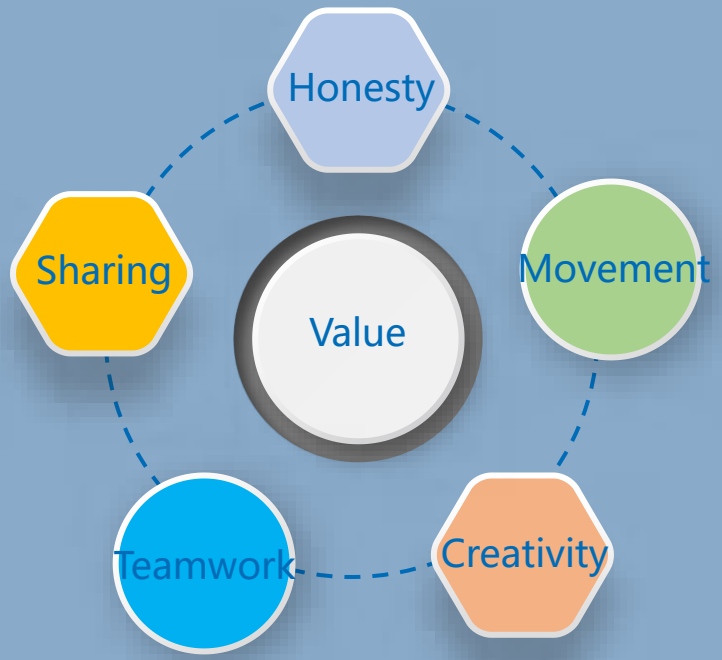
Vision:

- Be qualified to provide quick prototyping and large-scale production as a world-known manufacturer and supplier who provides of precision parts and assemblies.
- Clearly understand requirements from customers, effectively help on the supply chain manufactures for customers, additionally extend the value-added services requested by customers.

Mission:

- Committed to create value for customers, helping customers win competitive advantages with our high- quality parts and service.
- Committed to provide a desirable working place where the staff can realize their talents and enjoy career development.

Core Value:



MANAGEMENT POLICY AND TARGET

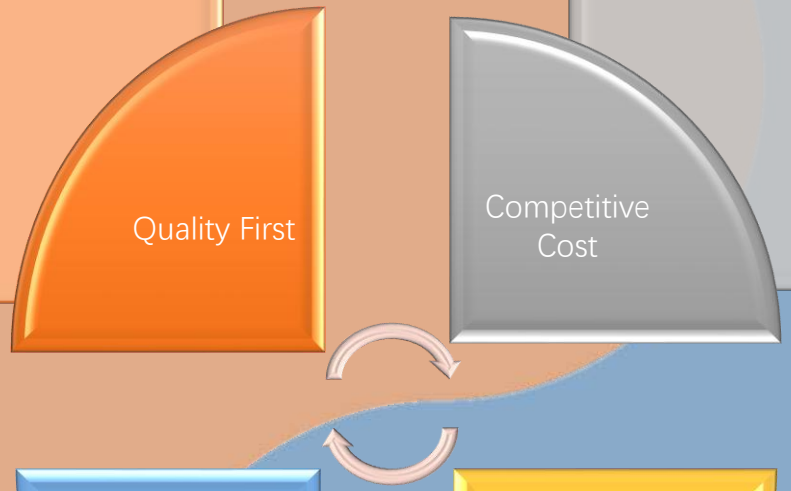
Matson Metal

Management Policy	Management Target	Environment Index	Safety Target
• Quality First, Teamwork, Honesty, Keep moving, Customer Satisfaction • Healthy, Safety, Environment Protection, Keep Improving, Striving for Excellence	• Inspection Pass: 95% • On-time Delivery： 95% • Customer Satisfaction: 95%	• Noise, exhaust gas and other pollutants are discharged in line with the standard, reducing environmental pollution; • 100% classified disposal of solid waste; • Save energy and reduce consumption, improve the utilization rate of resources and energy; • Environment Accident: 0	• Prevent fire accidents, reduce personal injury, and protect employee safety; • Prevent death and serious injury, minor injury ≤ 1 time/year.

CORE COMPETENCE

Matson Metal

①Good DPPM Statistics;
②Effective Quality Management;
③0 defect manufacture guideline;
④Product Traceability.



①Low Cost in a specific region;
②Lean Manufacturing;
③Strong Supply Chain, Reasonable Allocation of Resource Costs;

①DFM&DFA;
②AutoCad, Pro/E, Solidworks

①We make “ Respect every customer’s Intellectual Property ” our mission.;
②Safe IT frame.

CUSTOMER DISTRIBUTION

Matson Metal



SERVICES

Matson Metal

Machining

Turning, Milling, Planing,
Grinding, Drilling



Integrated Manufacturing Sources: Casting/Forging/Fabrication



Investment Casting
Shell Mold Process,
Sand Casting,
Die Casting
Forging;
Fabrication, Stamping, Welding



Integrated Surface Treatment Sources



Powder Coat
Spraying Plastics
Painting
Electrophoresis
Plating



QUALITY CERTIFIATION IMPROVING

Matson Metal

Set up in 2014;

ISO9001 certified in 2016;

ITFA16949 introduced to process control;

ISO9001 cert updated;

Three systems established and maintained in 2021;

Three system expected to be certified in 2022;





QUALITY CONTROL SYSTEM DOCUMENTS

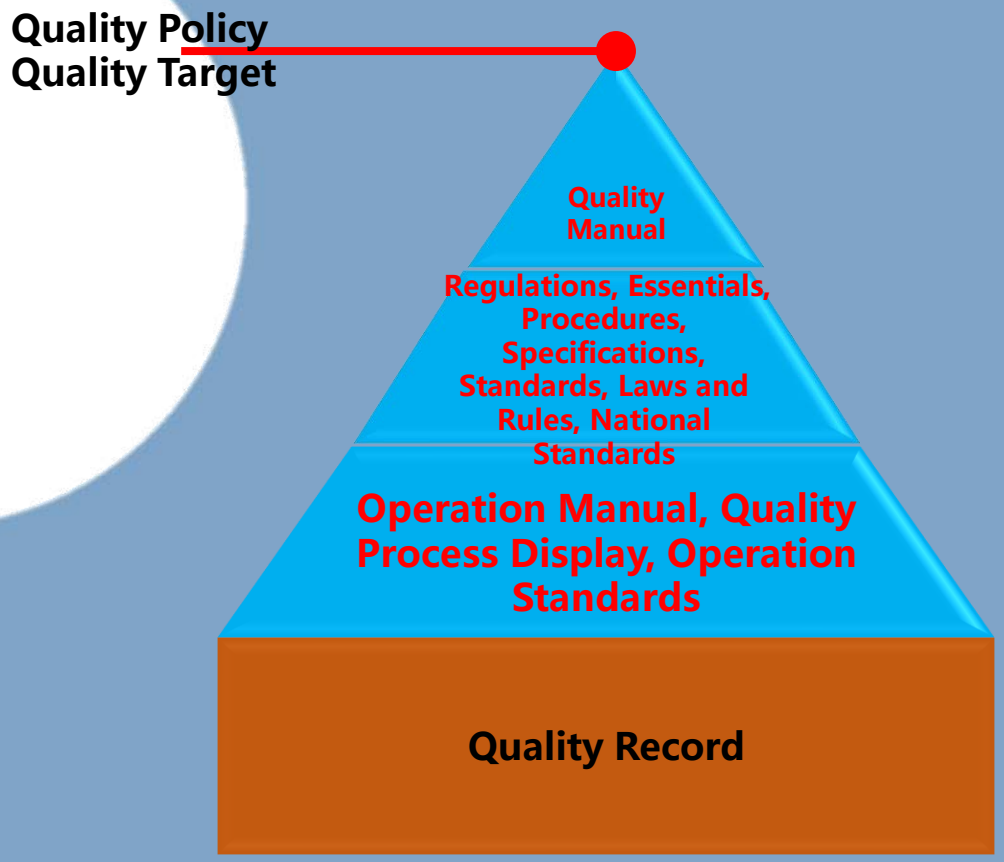
Matson Metal

1st layer document——Quality Manual;

2nd layer document——Describe methods for quality management(production, purchase) and the department activities;

3rd layer document——Describe operation methods and management in each department;

Quality Record——Proof of quality control.



QUALITY CONTROL PROCESS

Matson Metal

Supplier | Receiving | Production | Customer

SQA

- -Supplier Audit
- -Scorecard
- -SQE
- -MBR

IQC

- -IQC
- -AQL
- -CTQ Check
- -COC
- -Traceability

PQA

- -Part Verification
- -SPC Control
- -FAI
- -DCC
- -PQE
- -ECO
- -FMEA
- -MSA

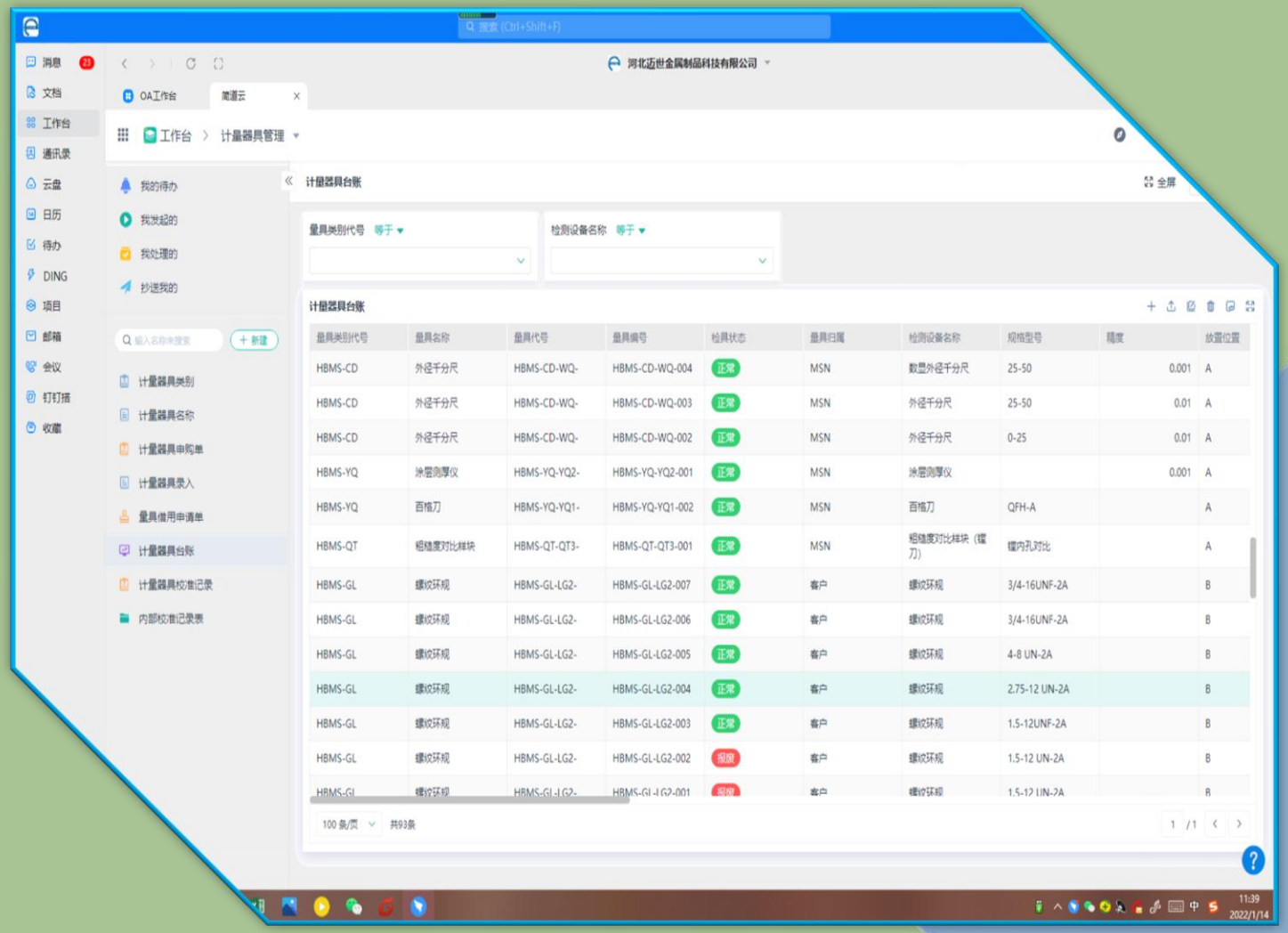
CQA

- -QBR
- -RMA
- -FAR

MEASURING INSTRUMENTS MANAGEMENT

Matson Metal

Built on the digital office software, the measuring instrument management module can automatically push the inspection plan and effectively ensure the validity of measuring instruments.





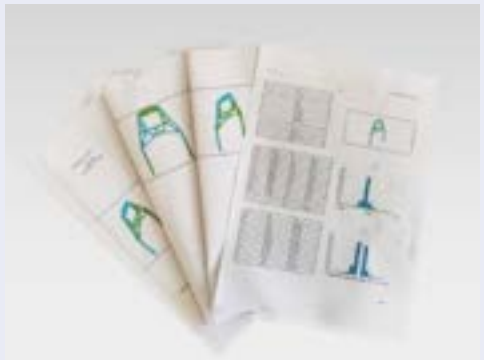
MEASURING INSTRUMENTS (balancing test if required.)

Matson Metal

				
Chemical Analysis	Metallurgical Evaluation	Hardness Test	Mechanical Property Test	Charpy Impact Test
				
MT	UT	RT	CMM	Profile Projector

INSPECTION REPORT

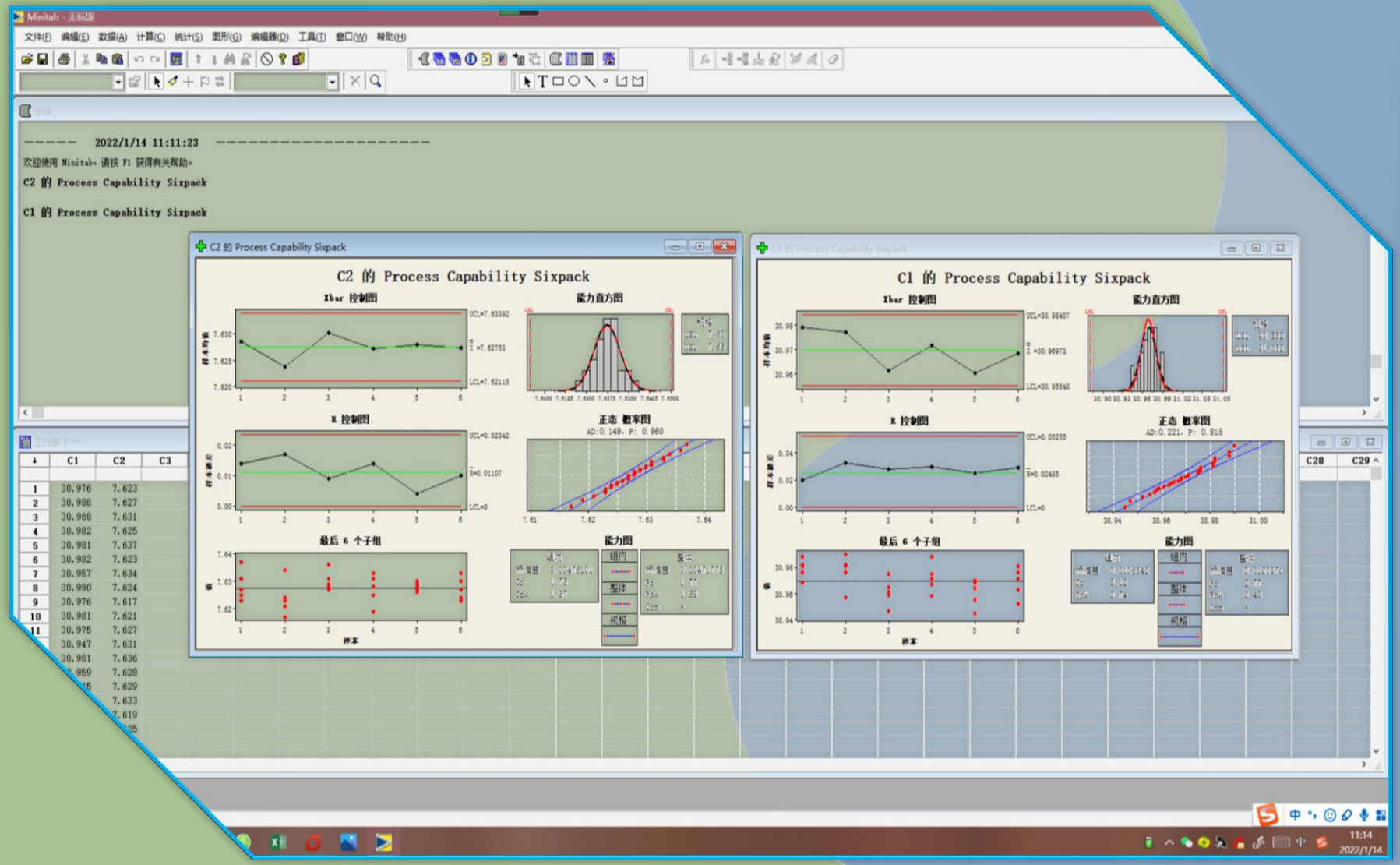
Matson Metal

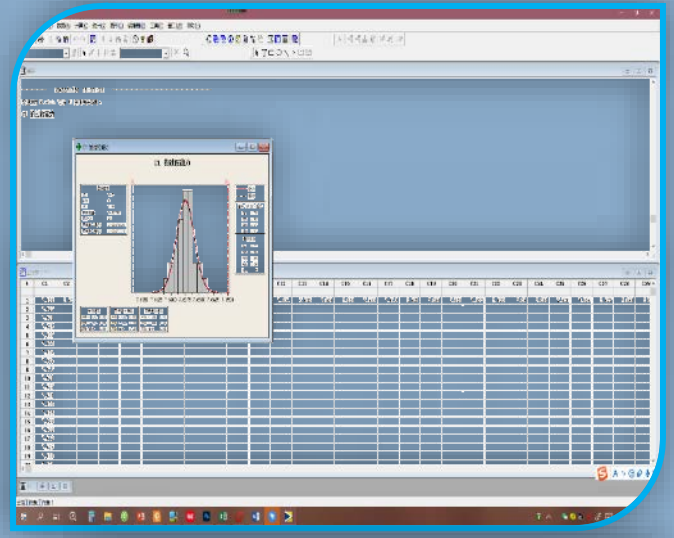
				
Dimension Inspection Report	Material Report	MT Report	RT Report	Hydro Test Report
				
3D Scanning Report	CMM Report	Third-party Inspection Report	Third-party Inspection Report	NDE Personnel Certs.

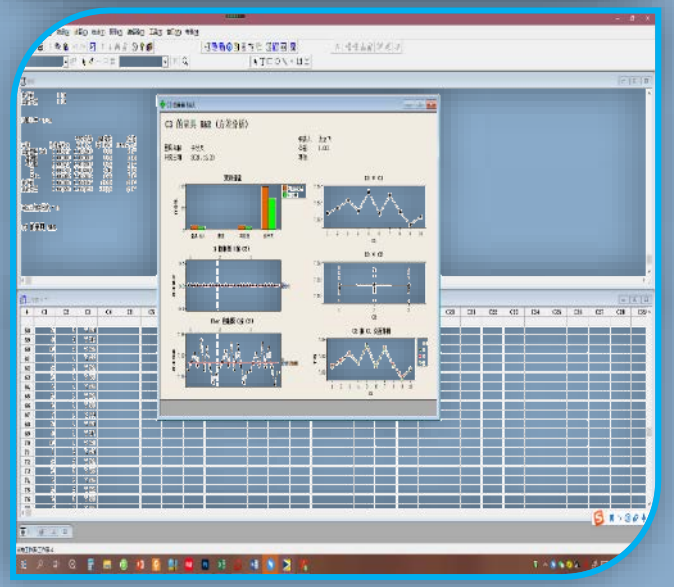
QUALITY ANALYSIS SOFTWARE

Matson Metal

Based on Minitable application practice, SPC analysis and MSA analysis are carried out. Statistics is used to analyze the production process and the rationality of the selection of measuring instruments.

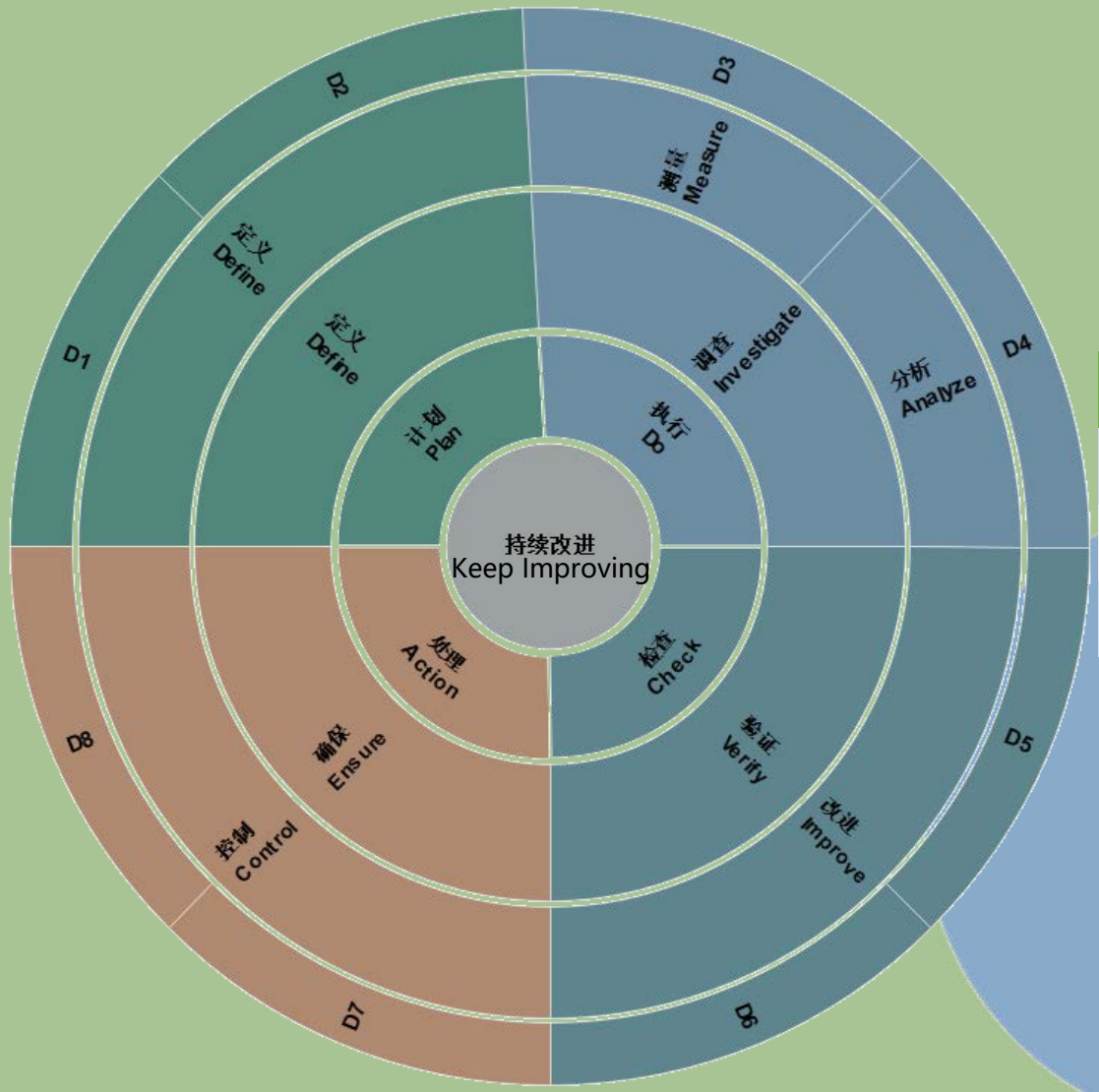






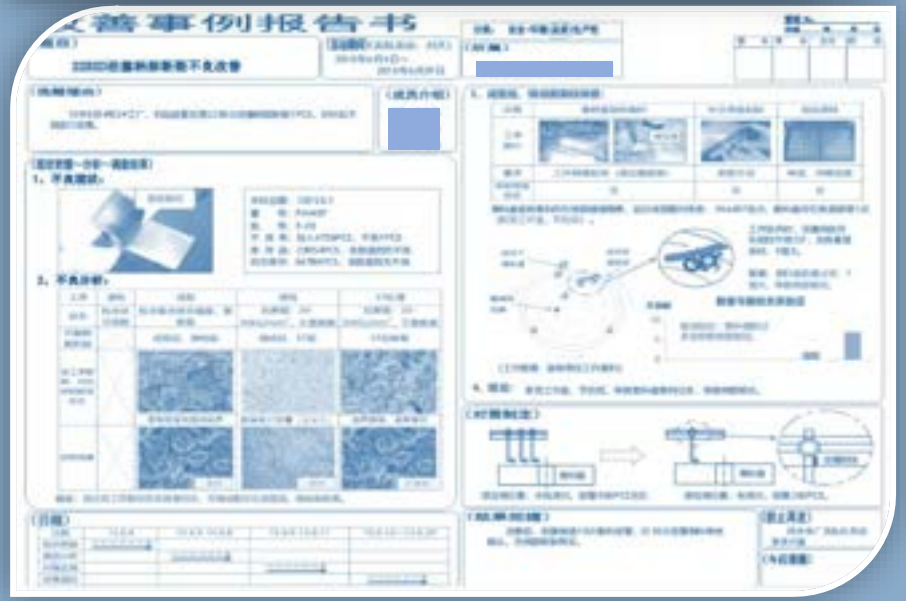
KEEP IMPROVING

Various tools and methods will be used for improving per customers' requirements.



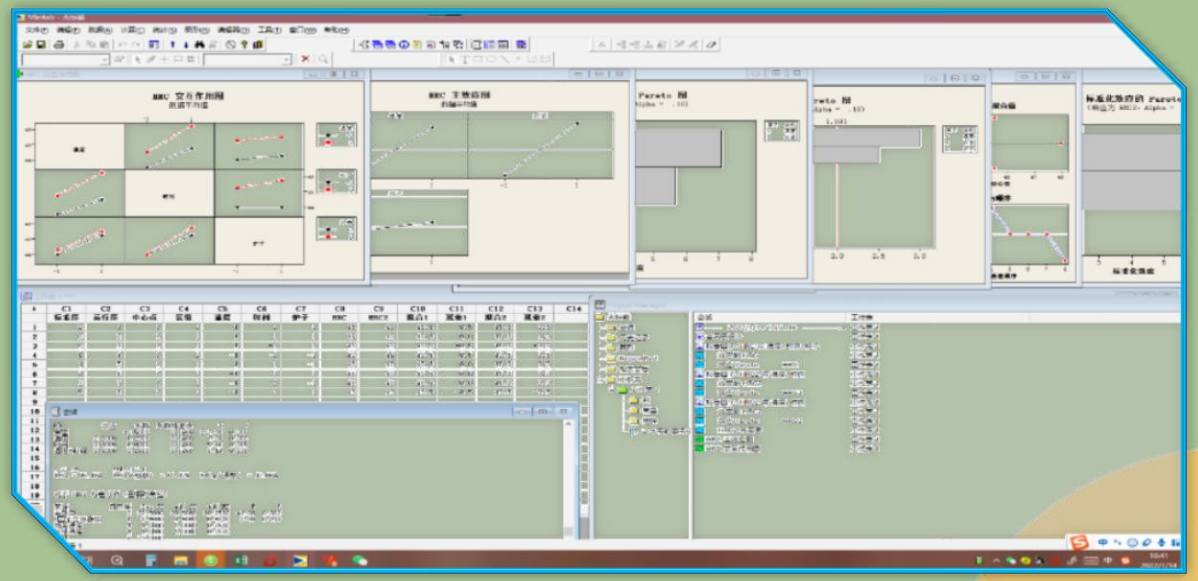
8D
DMAIC
RRCA/MP(DIVE)
PDCA





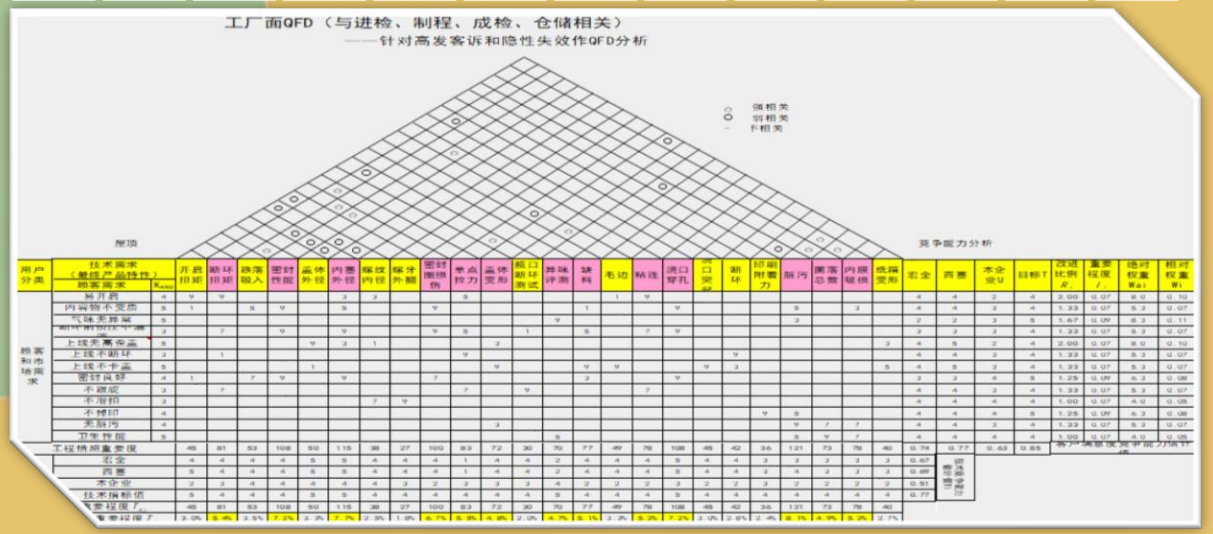
DEVELOPMENT AND DESIGN

Based on Minitable application practice, DOE will be carried out, fasting locating the parameters design and validation in the development phase.

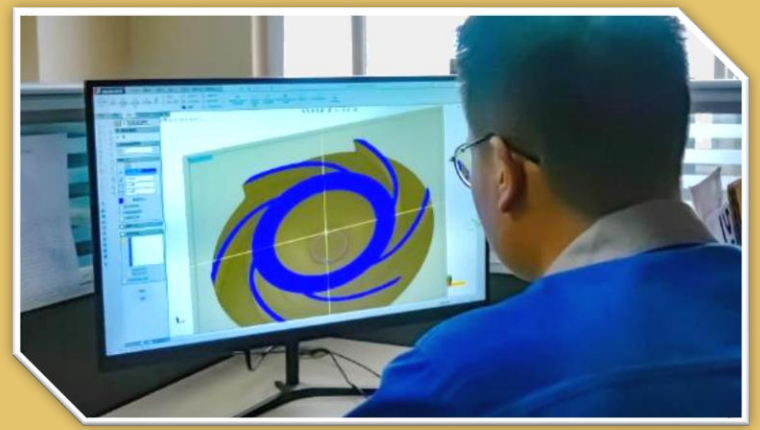


Starting from customers' requirements, Matson Metal carries out QFD to design the products that meet the requirements.

Survey → Validation → E/S → Select CTQ Value → Input → Improve CTQ Value → Improve Design → Determine CTQ → Determine E/S → Evaluate E/S → Input → Project Improvement → Inconformity Management



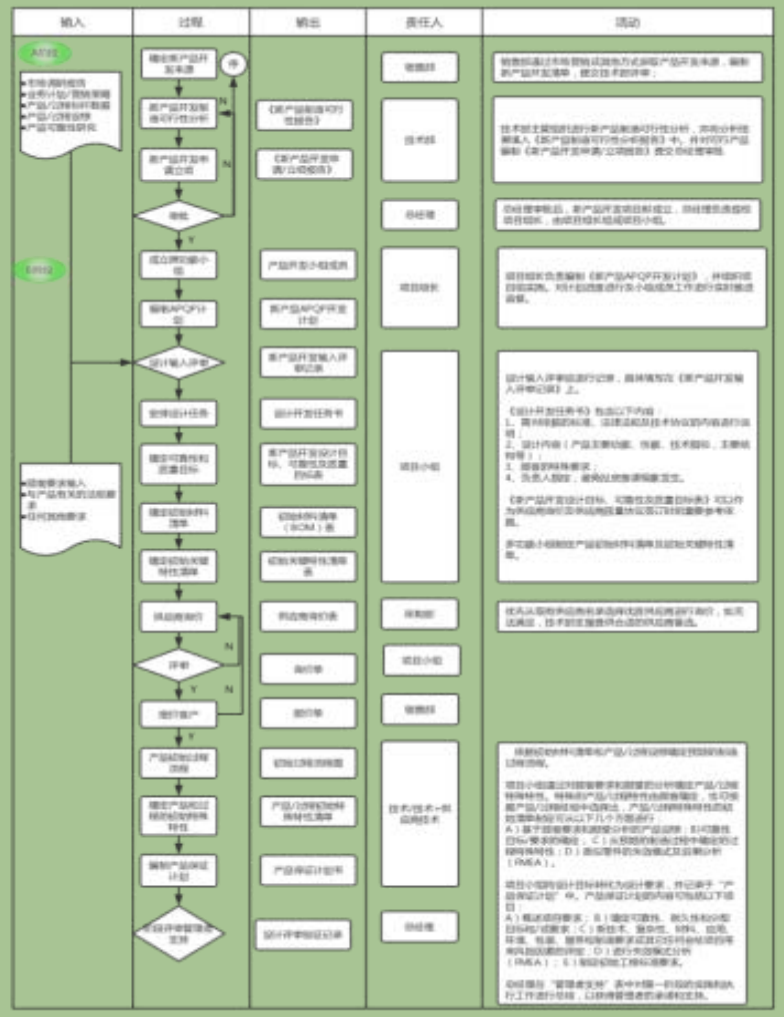
Design Software: Auto CAD、Solidworks、Pre、UG

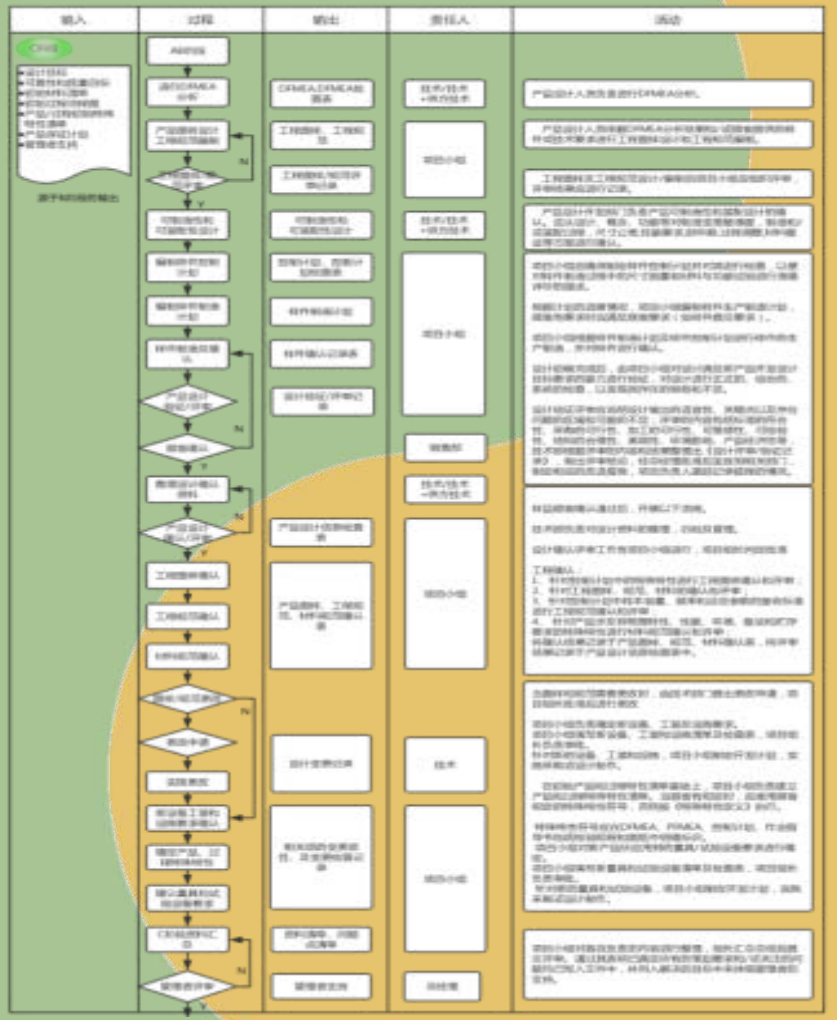


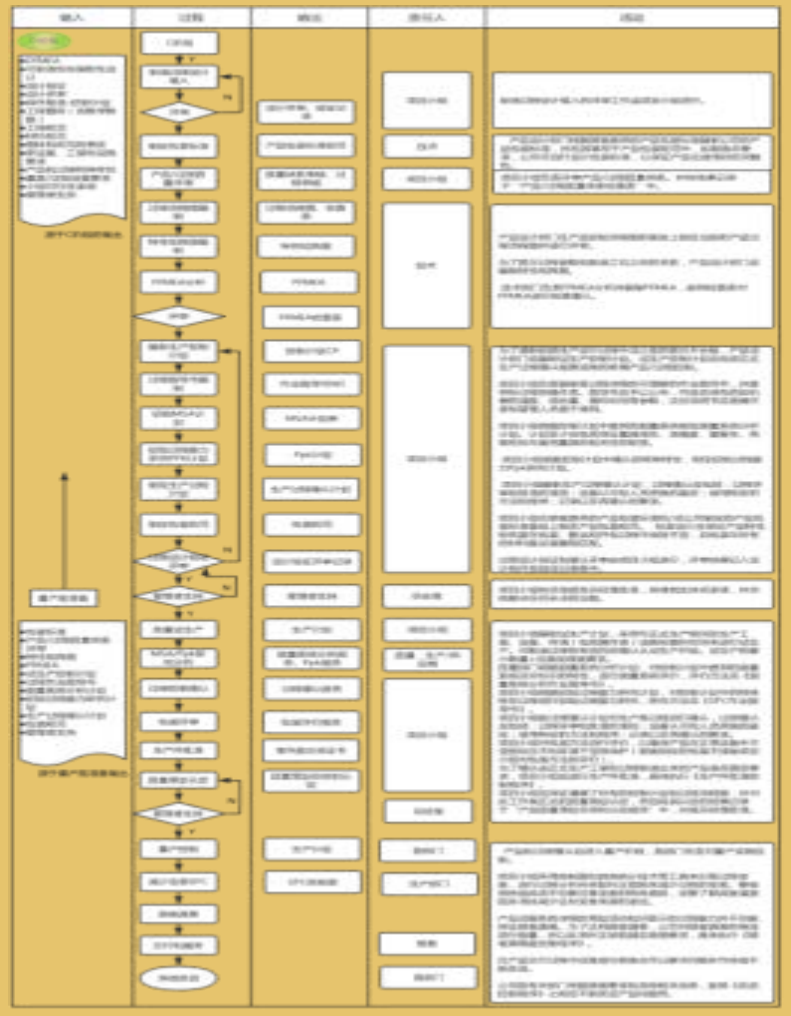
PRODUCT DEVELOPMENT PROCESS

Matson Metal

Based on IATF16949, Matson Metal has a mature product development process which is divided into 4 phases. In each phase, there will be suitable tools and method which our staff monitor and control, so that the production progress and quality could be ensured. We are committed to provide customers products with high quality at competitive cost.



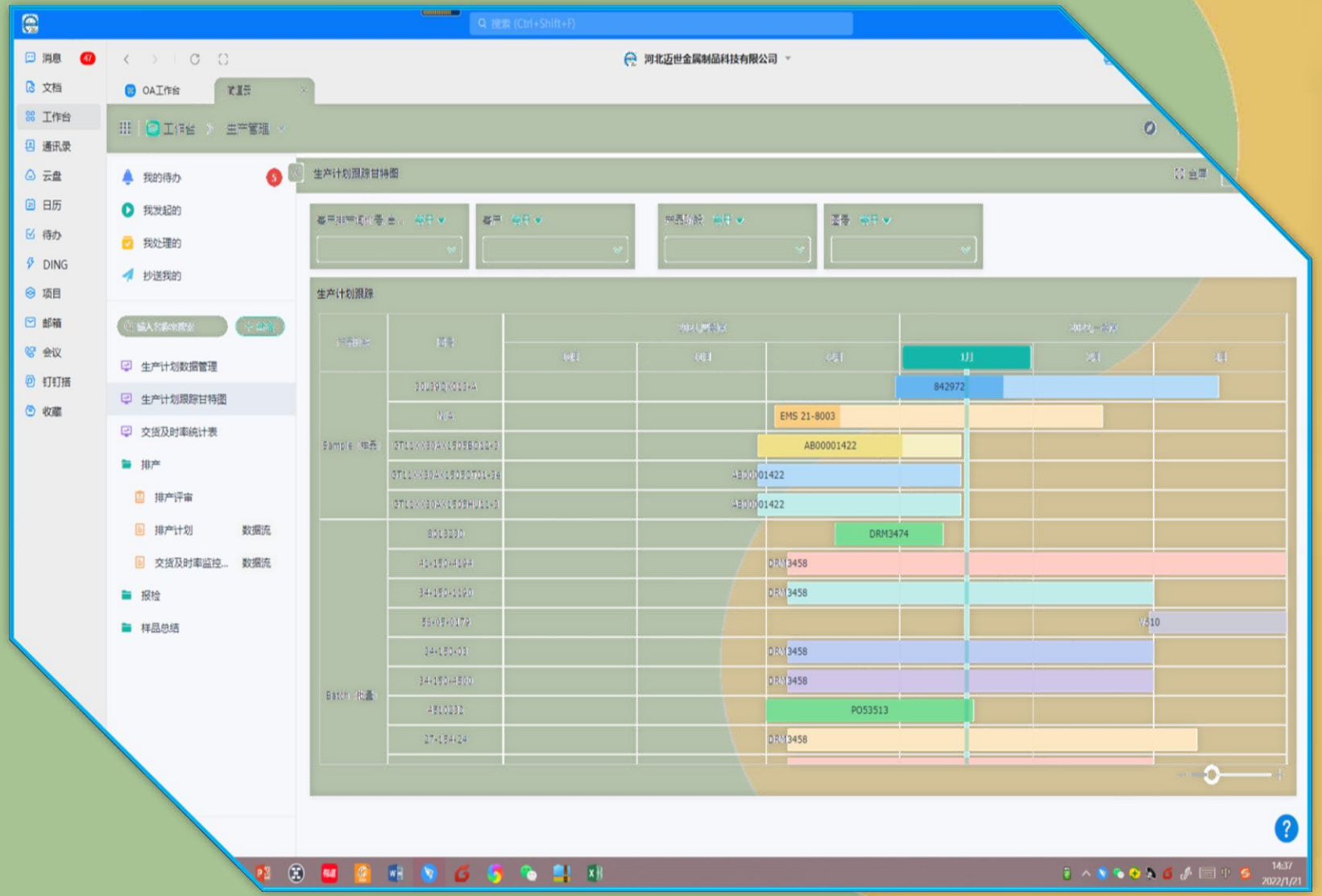




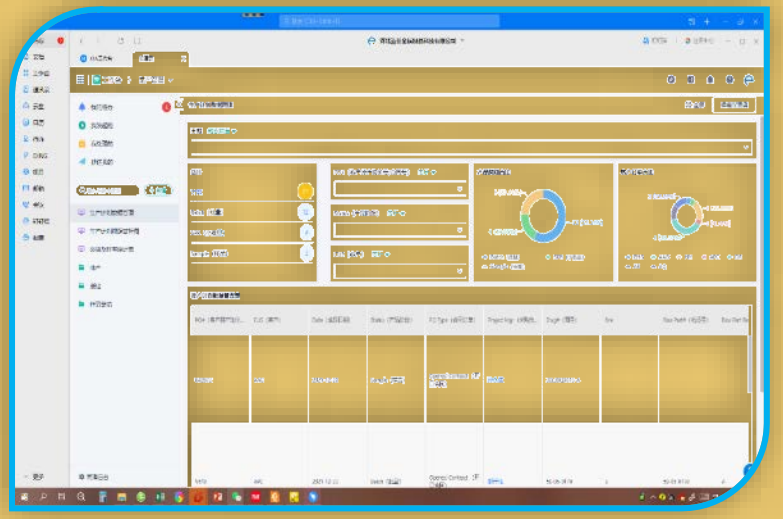
PRODUCTION MONITORING AND CONTROL

Matson Metal

Built on the digital office software, the production monitoring and control process could create real-time to do list and forewarn production progress so that to ensure the on-time delivery.

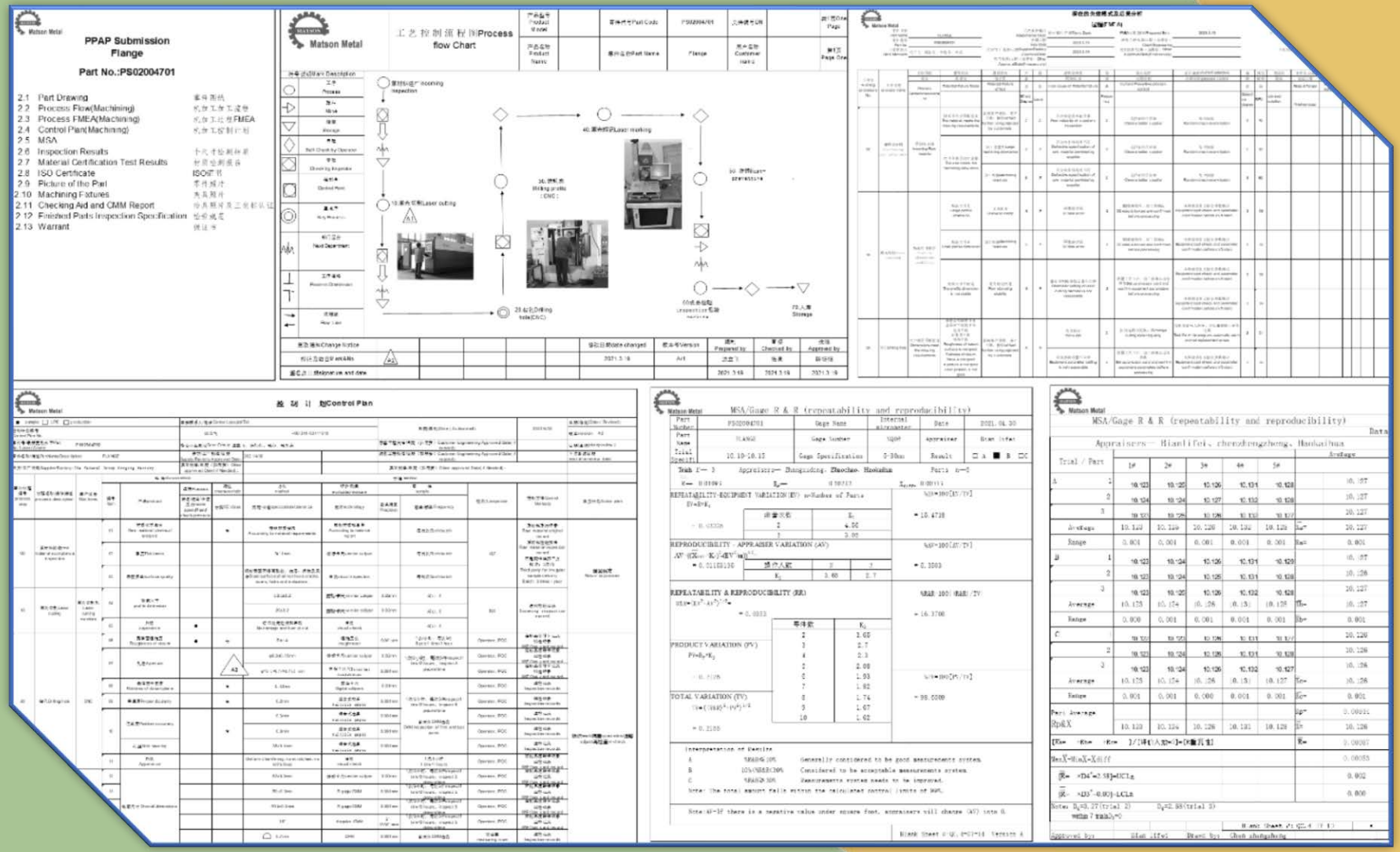






PROCESS DOCUMENT DISPLAY

With reference to the five core tools of IATF16949, PPAP document will be done to ensure production process design and quality control.







MACHINING CAPABILITY

Matson Metal

Material / Specification	Steel (All Grades)	Stainless Steel (All Grades)	Aluminum (All Grades)	Bronze/Brass (All Grades)	Else (Titanium, Hastelloy)	Iron (All Grades)	Plastic
Size (Sheet)	1,016x508x636	1,016x508x636	1,016x508x636	1,016x508x636	1,016x508x636	/	1,016x508x636
Size (Bar)	φ500x210	φ500x210	φ500x210	φ500x210	φ500x210	/	φ500x210
Size (Casting)	3500mm*3500mm	3500mm*3500mm	1500mm*1500mm	700mm*700mm	500mm*500mm	4000mm*4000m	600mm*600mm
Weight (Casting)	10000Kg	10000Kg	200Kg	200Kg	120Kg	5000Kg	2Kg
Size (Forging)	3000mm*3000mm	3000mm*3000mm	3000mm*3000mm	1200mm*1200mm	800mm*800mm	/	/
Weight (Forging)	15000Kg	15000Kg	1500Kg	2000Kg	800Kg	/	/
Machining Tolerance	±0.0004in	±0.0004in	±0.0004in	±0.0004in	±0.0004in	±0.0004in	±0.0004in
Machining Roughness	Ra 0.8-1.6	Ra 0.8-1.6	Ra 0.8-1.6	Ra 0.8-1.6	Ra 0.8-1.6	Ra 0.8-1.6	Ra 0.8-1.6

The above specification is for reference. For any needs, feel free to contact us.

MACHINE LIST – Workshop 1

Matson Metal

No	Name	Model	Manufacturer	Qty	Machining Scope
1	Vertical Machining Center	DV-1166	SuZhou DY	1	1100x620x600mm
2	Vertical Machining Center	DV-855+5	SuZhou DY	1	800x500x550mm
3	CNC Lathe	CN-K560/2000	NanFang Machine	1	Φ630*2000
4	CNC Lathe	KS50/1000	NanFang Machine	1	Φ500*1000
5	CNC Lathe	CKS66/450	NanFang Machine	2	Φ320*450
6	CNC Lathe	CAK63200	ShengYang Machine	2	Φ600x2000
7	CNC Lathe	T5.2-1000Q	ShengYang Machine	1	Φ320x1000
8	Bench Drill	ZS4125		1	
9	Bench Grinder	SIS-T200		1	
10	Wire Drawer	Z5040		1	
11	Welding Machine	NBC-500		1	
12	Number Engraving Machine			1	
13	Laser Marking Machine	MHG320		1	
14	Ultrasonic Cleaner			1	
15	Pressure Test Machine	YFB-DL-400		1	
16	Air compressor	BMVF7.5		2	
17	Salt Spray Test Machine			1	
18	PMI			1	

MACHINE LIST – Workshop 2

Matson Metal

No	Name	Model	Manufacturer	Qty	Machining scope
1	Turning Milling Compound Machine	M08SY-II	Tsuyoshi, Japan	1	Φ280*380
2	Turret CNC Lathe	VTplus-15	Victor Taichung	1	Φ260*420
3	Turret CNC Lathe	FCL-200HT	Fushuo, Taiwan	1	Φ300*479
4	Turret CNC Lathe	SKT100	Weiya, South Korea	1	Φ260*330
5	Turret CNC Lathe	LBR-370	OKUMA, Japan	1	Φ370*500
6	Turret CNC Lathe	Vturn-26	Victor Taichung	1	Φ380*610
7	Turret CNC Lathe	TNC-30NL	Yoshioka, Taiwan	1	Φ500*1150
8	Turret CNC Lathe	FBL-300	Fushuo, Taiwan	1	Φ510*594
9	Turret CNC Lathe	CKS5080	NanFang Machine	1	Φ510*800
10	General CNC Lathe	CN-560B/2000	NanFang Machine	1	Φ600*2000
11	Vertical CNC Lathe	TUD-13	Toshiba, Japan	1	Φ1600*800
12	Vertical Machining Center (with 4-axis)	DNM5705	Doosan, South Korea	1	1050*570*510
13	Vertical Machining Center (with 4-axis)	DA-10	Aigma, Taiwan	1	1000*560*600
14	Vertical Machining Center (with 4-axis)	VMC-106	Aigma, Taiwan	1	1000*600*600
15	Vertical Machining Center (with 4-axis)	TMV-850A	DongTai, Taiwan	1	800*500*500
16	Vertical Machining Center	TQ-850E	XiaMen Daikin	1	850*500*500
17	Vertical Machining Center (with 5-axis)	V8	NanTong GuoSheng	1	800*500*500
18	Vertical Machining Center (with 4-axis)	2W1400	WuHan HuaYou	1	1400*540*550
19	Wire Cutting	DK7735	Taizhou Jiangzhou CNC	10	350*450*400
20	Wire Cutting	DK7735	Taizhou Jiangzhou CNC	1	550*650*800
21	Vertical Drill	Z5040	NingXia Dahe	1	Φ40
22	Bench Drill	ZS5020	ZheJiang Xiling	1	Φ20
23	Laser Marking Machine			1	
24	Ultrasonic Cleaner			1	

Materials We Can Machine

Matson Metal

Carbon Steel	A105, A216, WCC, WCB A350 LF2-A352 LCC/LCB A350 LF3-A352 LC3 A217 WC6, WC9	Nickel Alloy	Alloy 20
			Inconel 600, 625
			Inconel 800, 625
			Monel Alloy 400，K500
			Hastelloy CA/C22/C276/B2 / B3 / B4 /
Stainless Steel	A182 F316/316L-A351 CF8M/CF3M	Others	Aluminum
	A351 CN7M		Copper/Bronze
	DUPLEX Stainless Steel		Titanium
	F304/304L		Iron
	Uranus@45N		Else: Tantalum, Zirconium, Stellite, Utlimet, Colmonoy, Triballoy

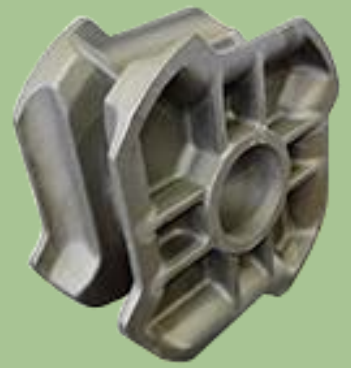
PRODUCT DISPLAY

Matson Metal

Machined Casted Steel Part







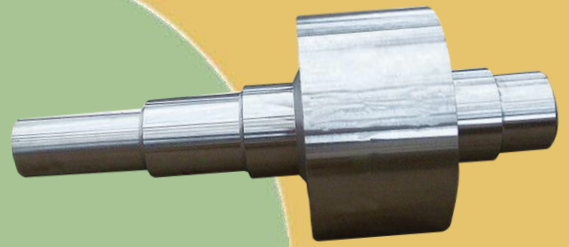


PRODUCT DISPLAY

Matson Metal

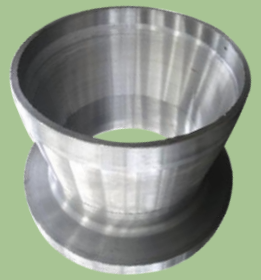
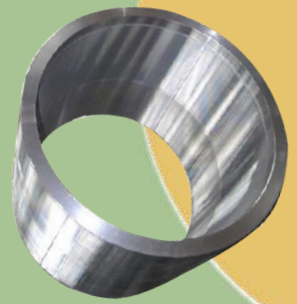
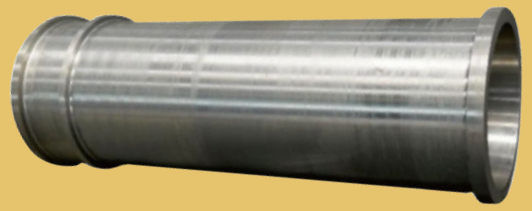
Machined Forged Steel Part





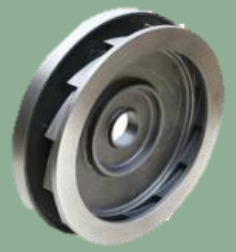
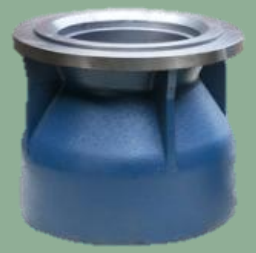
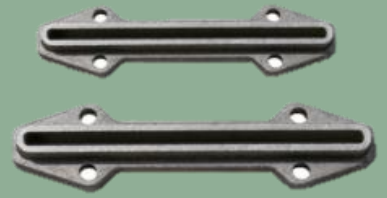




PRODUCT DISPLAY

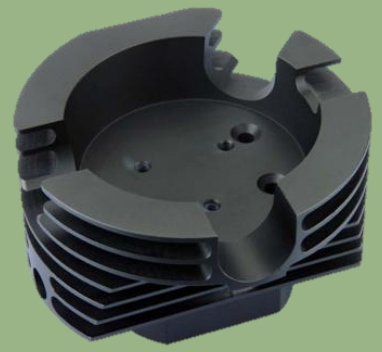
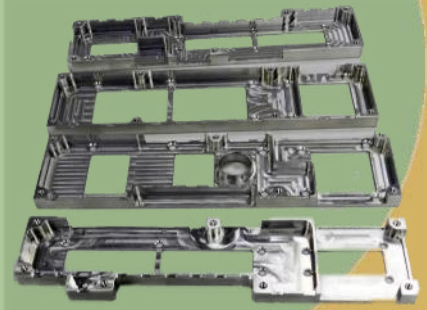
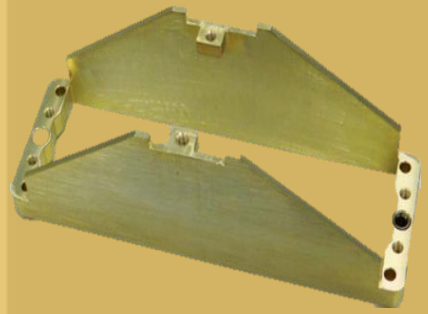
Matson Metal

	Pump Parts	Valve Parts	Compressor Parts	Machinery Parts
Machined Casted Iron Parts	  	  	  	  

CASE STUDY

Matson Metal

Difficulties Research and Solution:

Illustration					
Industry	Medical	Medical	Electronics	Electronics	Automobile industry
Material Type	Aluminium	POM	Aluminium	Brass	stainless steel
Technical Difficulties	✓ Complex surface and structure. ✓ Can be damage easily.	✓ Temperature can affect the dimension. ✓ Pressure can affect the dimension control. ✓ This part can get distorted after machining .	✓ Burr free inspection by 40x scope. ✓ Wall is too thin. ✓ Hole diameter tolerance is +/-0.01mm.	✓ Wall's thickness is only 1mm. ✓ This part can get twisted by machining. ✓ This part can get twisted by fixture pressure.	✓ Depth of the hole is 150mm, and the tolerance is +/-0.02mm. ✓ Hard burr in the cross hole. ✓ 3D machining.

INVESTMENT CASTING

Matson Metal

Investment Casting

Process Introduction

Wax Mold Proces				
	Wax mold making（mannual）	Wax mold making（automatic）	Wax mold repairing	Wax Mold Assly
Shell Making				
	Grain Analysis To the sand	Slurry Dipping（Mannual）	Slurry Dipping（Automatic）	Shell Drying
Melting				
	Dirt Removal	Test Coupon Collection	Chemical Elements Test	Pouring
Cleaning				
	Gate Removal	Grinding	Shot Blasting	Sizing

INVESTMENT CASTING EQUIPMENT LIST

Matson Metal

Investment Casting

Equipment List

FOUNDRY MAIN FACILITY
High Frequency Induction Furnace: 3 Sets, (Capacity 100KGSx2 and Capacity 150KGSxl)
Burning Furnace 3 Sets
Wax Injection Molding Machine: 12 Sets
Automatic Shell Molding Equipment
De-Wax Steamer: 2 Sets
Sand Blasting Machine: 9 Sets (Heavy Hang X 5, Rotary Tumbling X2, High Pressure:2)
Conveyer Type Drying Line For Wax Pattern Dipping And Stuccoing (2000M, 10000 trees)
Heating Fan Drying Furnace(Chamber): 1 Set (Size: 3 M x 2M x1.5M)
Knock-out Machine: 2 Sets
Cutting Machine: 5 Sets
Grinding Machine: 10 Sets
Polishing Machine: 20 Sets

Equipment Display



Automatic Wax Pattern Made Machine



Automatic Dipping Machine



Fast-drying Room



Removable Pouring Vehicle

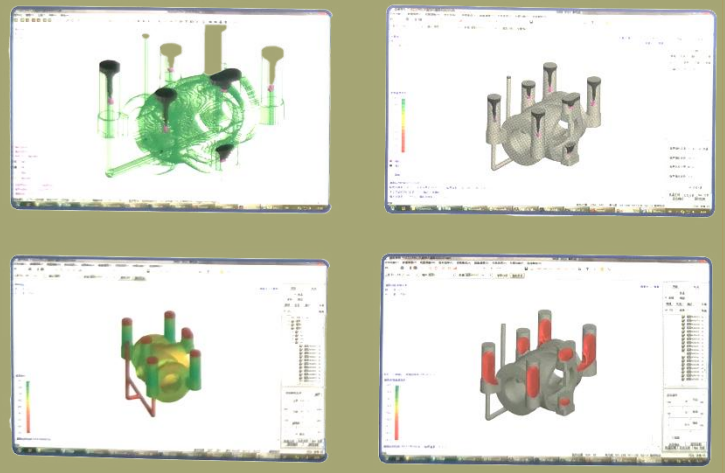
INVESTMENT CASTING ENGINEERING CAPABILITY

Matson Metal

Investment Casting

Engineering Capability

ProCAST casting Simulation Software



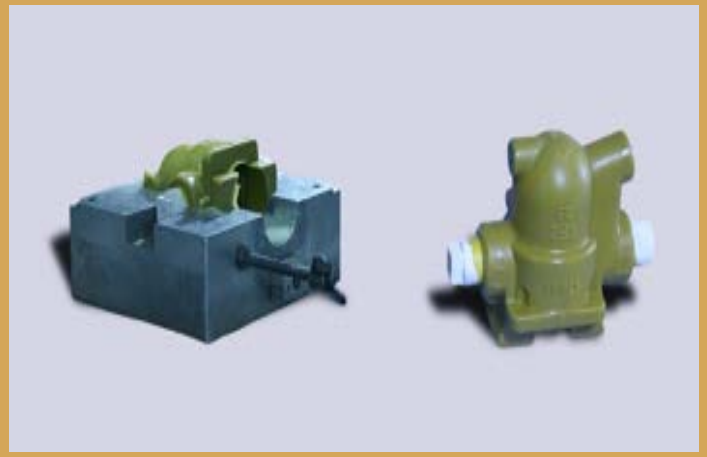
Using ProCAST can shorten the time of developing casting specimens, ensure the internal quality of casting and reduce the casting cost.

Rapid Prototying Manufacturing(RRM)



By using rapid prototyping system, We can greatly shorten the production cycle, manufacture complex parts and reduce the cost of research & development of new products

Ceramic Core Application



As to those parts with complex shape and structure or difficult to be shaped, ceramic core will be applied to simply the process and increase the inspection-pass precent.

INVESTMENT CASTING CAPABILITY AND MATERIAL

Matson Metal

Investment Casting

Capability and Material

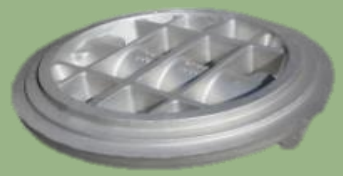
Casting capacity	Weight:0.005-80Kg
	Size:650mmx650mm
	Tolerance:ISO8062 CT4-6
Stainless Steel	ASTM: CF3, CF3M, CF8, CF8C, CF8M, CG8M,CN3MN,CF10, CH10, CH20, CK20, CN7M, CD4MCu,CA15, CB7Cu-1, CB7Cu-2, CA6NM, HH, HK:
	EN: 1.4107, 1.4317, 1.4308. 1.4309, 1.4552. 1.4408, 1.4409, 1.4581:
	BS: ANC3A, ANC3B, ANC4B, ANC4C:
	JIS: SCS1, SCS2, SCS2A, SCS13, SCS14
Low Alloy Steel	WC4. WC5. WC6, WC9, 70. 8Q, 1.6220, 1.7220
Carbon Steel	A27. 415-205, 450-240. WCA. WCB. WCC, LCA, LCB, LCC. GS-38, GS-45, GS-60, SC410SC450, SC480, 1.0416, 1.0446, 1.0619, 1.7357, 1.7379

INVESTMENT CASTING PRODUCT DISPLAY

Matson Metal

Investment Casting

Product Display

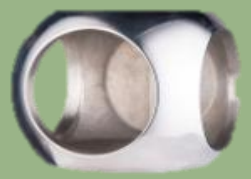
Special Alloy				
	CG8 Valve Body	C95800 Valve Body and Bonnet	Monel Butterfly Valve Body	Aluminum Bronze Valve Body
Pump Parts				
	Impeller	Housing	Housing	Housing
Valve Parts				
	Discs	Nozzle	Disc Holder	Valve Cage
Fittings				
	Extension Tube	Bottom Bracket	Extension Tube	T-branch Pipe

INVESTMENT CASTING PRODUCT DISPLAY

Matson Metal

Investment Casting

Product Display

For Valve				
	Globe Valve Body	Butterfly Valve Body	Gate Valve Body	Ball Valve Body
Balls				
	One-way Ball	3-way Ball	3-way Ball with Ears	One-way Ball with Ears带耳轴球
For Machinery				
	Flame Arrester	Adaptor	Thrust Plate	Piston

SAND CASTING CAPABILITY AND MATERIAL

Matson Metal

Sand Casting Capability and Material

Product Specifications	Material	
Sand Casting: 20-2000kgs/pc	ASTM A216	WCB, WCC...
	ASTM A352L	CA, LCB, LCC, LC1, LC2, LC3, CA6NM..
	ASTM A217	WC1. wC5, WC6, WC9, C5, C12, C12A, CA15...
	ASTM A351	CF3, CF8, CF3M, CF8M, CF8C, CF10,CK20, CF10MC, CN7MCN3MN.CG6MN, CG8M, CK3MCUN, CG3M...
	ASTM A487	4A, 4B, 4C...
	ASTM A494	M35-1, M35-2, N12MV, CW12MW, CWGMC...
Pressure Up to 2500LBS	ASTM A747	CB7Cu-1, Cu7Cu-2...
	ASTM A890	CD4MCu, CD3MCuN..
	ASTM A995	CD4MCUN, CE8MN, CD6MN, CD3MN, CE3MN, CD3MWCuN...
	NICKEL	NICKEL 200, NICKEL 201...
Alloy Steel Castings	NICKEL-COPPER	MONEL 400, MONEL 405, MONEL 500...
Stainless Steel Castings	NICKEL-CHROME ALLOY	INCONEL 600, INCONEL 601. INCONEL 625, INCONEL 718...
Carbon Steel Castings	EN 10213	1.0619, 14308, 1.4408, 1.4309, 1.4409, 1.7357, 1.7379...

SAND CASTING

Matson Metal

Sand Casting

Resin Sand Casting

Molding				
	Sand Mixing	Sand Testing	Molding	
Cores Making				
	Cores	Foundry Blacking	Mold/Core Reparing	Closing
Melting				
	Pig Iron	Chemical Test	Nodulizing	Pouring
Cleaning				
	Shaking Out	Gate Removal	Grinding	Shot Blasting

SAND CASTING

Matson Metal

Sand Casting

Resin sand Equipment List

category	Serial number:	Equipment name:	Equipment model:	number
Modeling line	1	▲Cast cooling line	HL-II(H)06L-2L40-S29	ZX-02
	2	▲ air cushion micro vibration compaction molding machine	Z148F1	ZX-03/04
	3	▲ full automatic pouring machine	HAPII-50	JZ-01
	4	▲ automatic molding machine	AMF-II(H)06L	ZX-01
	5	Single row sand mold cooling belt conveyor	B=0.9M L=29M	PD-01
	6	Resin sand casting cooling line	X2.5*1.7-10	ZX-09
	7	Mold conveyor (loop)	Y2130	ZX-05
Core making	8	Core shooting machine	Z956S	ZX-1
	9	Manual core making machine		ZX5
	10	Manual core making device	Oil pressure 80	ZX-3
melting	11	▲ medium frequency induction melting furnace	1T/h	RH-1
	12	Electromagnetic chuck	MW5—150L	GL-21
	13	Charging truck	2T	GL-18/20
	14	Dosing management system	V1.0	GL-23
	15	Ladle	0.5/1/1.5/2 T	JB-1/9
	16	Cooling tower	DBNL3-300	LQ-4
	17	Tilting pouring machine	TZJZJ-Q-1000	JZ-02
	18	Medium frequency induction melting furnace	2T/h	RH-3
Sand treatment	19	▲ high speed tilt rotor sand mixer	TM250-160	HS-1
	20	▲ resin sand mixer	S2515	HS-2
	21	Plate chain bucket elevator	NE30	DT-3
	22	Closed disc feeder	Y4420B	GL-2/4
	23	Belt feeder	Y417-2000	GL-9
	24	Belt conveyor	Y337-39397	PD-2
	25	Low pressure feeding device	Y953-3	GL-13
	26	Bucket elevator	TDQ225	DT-4

category	Serial number:	Equipment name:	Equipment model:	number
Sand treatment	27	Secondary air separator	FX100	ZS-3
	28	Secondary regenerator	CBG100	ZS-2
	29	Boiling cooling bed	S89C-10	LQ-2
	30	High efficiency bucket elevator	GTD500-15000	DT-1
	31	Through type magnetic separator	S955	CX-5
	32	Fine hexagonal screen	S4313	SS-1
	33	Cooling tower	DBNL3-100	LQ-3
	34	Screw feeder	Y4420-1250	GL-5
	35	Belt conveyor	Y337	PD-18
	36	pneumatic tube conveyor	QS181	GL-17
	37	burner	RSQ-40	R-1
	38	Conveying vibrating sand falling machine	L252-H	LS-1
	39	New sand pressure feeding device	Y912	GL-12
	40	Suspension belt permanent magnet separator	S997II	CX-1
	41	Blade sander	S3660	SS-1
	42	Permanent magnet pulley	S997A	CX-2
	43	Vibrating boiling cooling bed	S8660	LQ-1
	44	Vibrating feeder	Y476-1300	
	45	Vibrating Sand dropping machine	L1210	LS-3
	46	Vibrating crusher	ZXPS100	ZS-1
	47	Vibrating screen sander	ZS100	SS-2
	48	Vibrating conveyor	Y347-3000	PD-15
clear	49	Pouring riser remover	30T	PW-3
	50	Vertical grinding machine		SL-1/2
	51	shot blasting machine	Z957	PW-2
	52	Riser separator	40T	PW-3
	53	Channel type catenary shot blasting machine	Z956	PW-1
	54	Small grinder		SL-3/8
	55	Mold conveyor	1t/60	SS-9

SAND CASTING PRODUCT DISPLAY

Matson Metal

Sand Casting

Product Display



Name	valve body
Material	WCB
Weight	190Kg
Size	549mm x 350mm x 344mm



Name	valve body
Material	LCC
Weight	235 Kg
Size	545mm x480mm x 490mm



Name	Flow tube
Material	CF8
Weight	1225 Kg
Size	806mm x 647mm x 576mm



Name	valve body
Material	CF3M
Weight	2130 Kg
Size	886mmx 755mm x 590mm



Name	impeller
Material	CH20
Weight	1575 Kg
Size	900mmx400mm



Name	Insuiated sleeve valve
Material	CN7M
Weight	137 Kg
Size	356mm 423mm x 305mm

SAND CASTING

Matson Metal

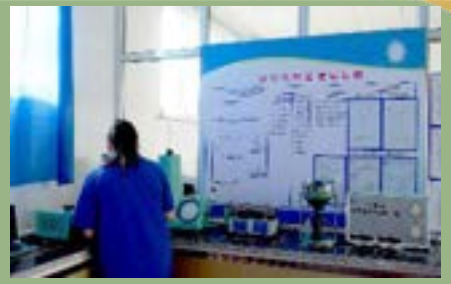
Sand Casting

Green Sand Casting

Molding



Green Sand





Core Making



Shell Core



Sand Test

Automatic Molding Line

Melting



Pig Iron



Physical Test



Pouring



Cooling

Cleaning



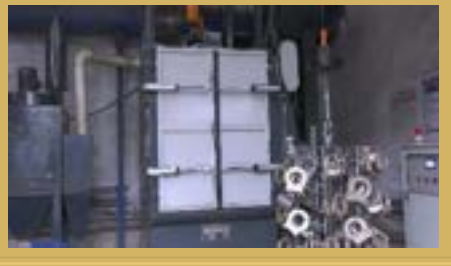
Shaking Out



Gating System Removal



Grinding



Shot Blasting

SAND CASTING

Matson Metal

Sand Casting

Green sand Equipment List

Main Equipment:

FBO III x1;FDNX-1;Z148 molding Line--1（Flask Size:1200mmX800mm）

0.5 MT furnance x6,1.5 MT furnance x 4;Sand treatment System x3;Shell mold machines x20



SAND CASTING PRODUCT DISPLAY

Matson Metal

Sand Casting

Product Display

for Fire Equipment	Automotive Parts	for Valve and Pump	for Agriculture Machine	for Construction Machine
				
				
				
				

FORGING

Matson Metal

Forging

Process Introduction

			
			
Cutting	Heat	Forging/Grind Ring	Heat Treatment

FORGING

Matson Metal

Forging

Material

Material	ASTM	UNS	DIN	GB
Carbon Steel	A105(N)	K03504	1.046	30Mn (25Mn)
	A350 LF2	K03011	1.0508	20Mn2
	A350 LF3	K32025	1.5639	3.5Ni
	A350 LF9	K22036	-	2Ni1Cu
Alloy Steel Stainless Steel	F11	K11587	1.7335	15CrMo
	F22	K21590	1.738	12CrMo1V
	F5	K41515	1.7362	1Cr5MoGB1221
	F9	K90941	-	Cr9Mo1
	F91	K90901	1.4903	1Cr9Mo1VNb
	F6a	S41000	1.4006	1Cr13
	F6NM	S41500	1.4313	-
	F304	S30400	1.4301	0Cr18Ni9
	F304L	S30403	1.4306	00Cr19Ni11
	F316	S31600	1.4401	0Cr17Ni12Mo2
	F316L	S31603	1.4404	00Cr17Ni14Mo2
	F316Ti	S31635	1.4571	-
	F310	S31000	1.4821	1Cr25Ni20
	F321	S32100	1.4541	0Cr18Ni9Ti
	F347	S34700	1.455	0Cr18Ni11Nb
	F51 / 2205	S31803	1.4462	00Cr22Ni5.5Mo3N
	F53 / 2507	S32750	1.441	00Cr25Ni7Mo4N
	F55 / ZERON100	S32760	1.4501	00Cr25Ni7Mo4WCuN
	F44 / 254-SMO	S31254	1.4574	-
	F904L	N08904	1.4539	-
Nickel Base Alloy Special Alloy	NICKEL 200	N02200	2.4066	N6
	NICKEL 201	N02201	2.4068	N6
	MONEL 400	N04400	2.436	-
	MONEL K-500	N05500	2.4375	-
	HASTELLOY B	-	-	NS321
	HASTELLOY B-2	N10665	2.4617	NS322
	HASTELLOY C	-	-	NS333
	HASTELLOY C-276	N10276	2.4819	NS334
	INCONEL 625	N06625	2.4856	NS336
	INCONEL 718	N07718	2.4668	GH4169
	INCOLOY 825	N08825	2.4858	NS142

FORGING

Matson Metal

Forging

Equipment List

NO.	Equipment Name	Model	Equipmentongin	Equipmentspecification	Oty
1	Electroslag furnace	10 tons furnace	Northeastern University	~10 tons	1
2	Electroslag furnace	8 tons furnace	Weifang Aoling	~8 tons	1
3	Table heating furnace	RT9-105x105x240/150KW	Zhongnan Furnace Co., Ltd	1050x1050x2400	6
4	Table heating furnace	RT9-I00xl00x220/120KW	Zhongnan Furnace Co., Ltd	1000x1000x2200	2
5	Table heating furnace	RT9-110xll0x240/160KW	Zhongnan Furnace Co., Ltd	1100x1100x2400	4
6	Table heating furnace	RT9-I20xlll0x240/180KW	Zhongnan Furnace Co., Ltd	1200x1100x2400	3
7	Table heating furnace	RT9-120xll0x300/210KW	Zhongnan Furnace Co.. Ltd	1200x1100x3000	1
8	Table heating furnace	RT12-90x85x340/240KW	Zhongnan Furnace Co., Ltd	900x850x3400	4
9	Table heating furnace	RT12-110x110x260/220KW	Zhongnan Furnace Co., Ltd	1100x1100x2600	3
10	Table heating furnace	RT9-170xll0x360/240KW	Zhongnan Furnace Co., Ltd	1700x1100x3600	1
11	Sawing machine	GB4280	Zhejiang Xieli	~ 800mmx800mm	1
12	Sawing machine	GB42100/170	Zhejiang Chenlong	~1700mmxl000mm	2
13	Sawing machine	GB42100	Zhejiang Chenlong	~1000mmx1000mm	4
14	Gantry type milling machine	TX20	Qingdu Yongli	~1600mmx3000mm	2
15	Gantry type milling machine	TX20	Qingdu Yongli	~2000mm x3000mm	2
16	CNC lathe	CNC6130-A	Ningbo Minghe	~φ300mm x3000mm	1
17	Horizontal lathe	CW61125B	Xinsheng Anyang	~φ1250mmx3000mm	3
18	Table type milling and bonng machine	XT800x2380	Shanghai Tailing	~ 800mmx2380mm	1
19	Horizontal end milling machines	ZHX-WJ-800A	Fangtai Machinery Co., Ltd	~ 3400mmx800mm	3
20	Shaping machine	BY60100A	Changsha Machinery Co., Ltd	~ 1000mm	1
21	Roll grinder	M84125B	Xianfeng Machinery Co., Ltd	~φ1300mmx5000mm	1
22	Swing-arm drilling machine	Z3080	Zhongjie Machinery Co., Ltd	~φP80mmx2500mm	1
23	Horizontal lathe	CS6140	Shenyang 1st Machinery Co., Ltd	~φ400mmx1500mm	3
24	Cylindrical grinder	M1332BX1500	Shanghai Machinery Co.,Ltd	~φ320mmx1500mm	2
25	Digital boring machine	TPX6113	Kunming Machinery Co., Ltd	2000mmx2000mmx2000mm	4
26	Gantry processing center	2452	Yongju Precision Technology Co., Ltd	2500mmx1600mmx5000mm	1
27	Gantry processing center	3015	Dingtai Precision Machinery Co., Ltd	1600mmx3000mmx800mm	1
28	CNC boring and milling machine	KBT-11WA	KURAKI Machinery Co.. Ltd	1800mmx1600mmx1600mm	1
29	8onng and milling machine for CNC double rotors	FM2050	Yongju Precision Technology Co., Ltd	2000mmx5000mmxl700mrn	1
30	Vertical machining center	1060	Dingtai Precision Machinery Co., Ltd	500mmx600mmxlOOOmm	1
31	CNC gantry machining center	FD-183255F	Yongju Precision Technology Co., Ltd	3000mmx1800mm	1
32	NC bonng and milling machining center	VBT130	Taiwan Jovejin Technology Co., Ltd.	2000mmx2000mmxl500mm	1
33	Gantry processing center	GMFB1826	Shanen Technology Co., Ltd.	1800mmx2600mmx1200mm	1

Surface Treatment

Matson Metal

Surface Treatment

Process Introduction

Hang on	• Product Protection
Skim	• Spray degreasing • Soaked in ultrasonic degreasing
Water washing	• Two process of water washing
Neutralization	• Plastic titanium adjustment
Electroplating、	• Zinc phosphating film
Water washing	• Two process wash in pure water
Passivation	• Electrophoretic coating
The hanging fixture	• Drying, Protection Removal, Cleaning
Material Recycling	• Four process of recycle
Inspection	• AQL1.0
Packing/outbound	• Packing

Processing the largest size

E-coating---1: = 2.0 m * 0.7 m * 1.4 m;

E-coating---2 : =2.8m * 0.8m * 1.6m;

Powder spraying : =2.8m * 0.4m * 1.4m;

Maximum machinable single hanging workpiece weight : ≤100kg

No.	Equipment List	Purchase Date	Productivity	Load Rate
1	Alkaline Hanging Galvanization Automatic Production Line	2007-11	6 Tons/Shift	60%
2	Rolling Galvanization Automatic Production Line	2007-11	6 Tons/Shift	80%
3	Automatic Passivation Production Line	2007-11	6 Tons/Shift	55%
4	Rolling Galvanization Automatic Production Line	2008-06	3 Tons/Shift	80%
5	Rolling Nickeling Production Line	2009-04	3 Tons/Shift	50%
6	Acid Handing Plating Automatic Production Line	2009-05	8000 Pcs/Shift	70%
7	Acid Handing Plating Automatic Production Line	2010-03	8000 Pcs/Shift	60%
8	Anodizing Automatic Production Line	2010-05	12000 Pcs/Shift	50%
9	Hard Chrome Automatic Production Line	2010-10	4000Pcs/Shift	80%
10	Zinc Aluminum Coating Automatic Production Line	2010-12	5 Tons/Shift	50%
11	Hard Chrome Automatic Production Line	2012-03	4000 Pcs/Shift	80%
12	Acid Handing Plating Automatic Production Line	2012-09	8000 Pcs/Shift	70%
13	Acid Zine Nickel Automatic Production Line	2013-05	8000 Pcs/Shift	20%
14	Electrophoresis Automatic Production Line	2014-12	30000 Pcs/Shift	10%
15	Automatic Powder Coat Production Line	2016-05	4000 Pcs/Shift	60%

Surface Treatment

Matson Metal

Surface Treatment

Equipment Display



Electroplating Production Line



Painting Production Line



Automatic Powder Coat Production Line



Electrophoreses Production Line

Surface Treatment

Matson Metal

Surface Treatment

Testing Ability

Passed the experimental test, examples

- Neutral salt spray test :Sheet metal stamping parts 1000H

  Casting parts (Standard: ASTM B117)500H
- Cyclic corrosion test: 10 weeks cycle(Standard: DBL.7381.21)
- Cyclic corrosion testing (Cast Iron) : 6weeks cycle(Standard: CETP-00.00-L-467)



Material	Cast Iron
Plating Thickness	25-35um
Performance	Cyclic Corrosion Test 1008H



Material	Cast Steel
Plating Thickness	80-120um
Performance	Cyclic Corrosion Test 1680H



Material	Aluminum
Plating Thickness	40-120um
Performance	Cyclic Corrosion Test 1008H

SURFACE TREATMENT PRODUCT DISPLAY

Matson Metal

Surface Treatment

Product Display



Painting on Fabricated Part



Painting on Investment Casting Part



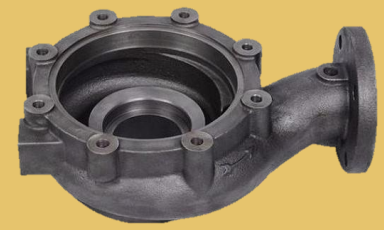
Painting on Sand Casting Part



Primer



Finish Painting



Varnish





Electrophoretic Paint





Powder Coat

SURFACE TREATMENT PRODUCT DISPLAY

Matson Metal

Surface Treatment

Product Display



Nickel Plating



Tin Plating



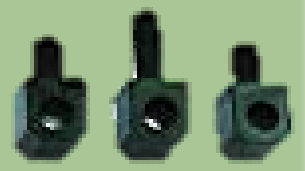
Silver Plated



The Black Zinc Nickel



Aluminum Oxide



The Black Zinc



Chrome Plated



Zinc Nickel Color



Zinc Nickel Alloy



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