

 Rigid Lamphun Office

 Rigid Technologies Co. Ltd.

 Reliable Technology Sdn. Bhd.



**RIGID GROUP OF COMPANIES**

# COMPANY PROFILE

**“WE PLEDGE ALLEGIANCE TO YOU”**

**HONESTY - INTEGRITY - SINCERITY**



**WWW.RIGID-GROUP.COM**



**TO BE THE SUPPLIER OF CHOICE IN THE FIELD OF PRECISION ENGINEERING**



# **RIGID TECHNOLOGIES CO., LTD.**

**Company Name** : Rigid Technologies Co., Ltd.  
**Company Address** : 1347-8 Moo 13, Big Land Navanakorn, Tambol Klongneung, Amphur Klongluang, Pathumthani 12120, Thailand.  
**Year Established** : August 2002  
**Paid Up Capital** : THB 40,000,000.00  
**Banker** : Kasikorn Bank  
**Floor Area** : 9,500 Sq ft.  
**Principle Business** : Precision Plastic Mold Insert Fabrication  
 Precision Carbide Punches, Die, Jigs & Fixtures, Precision Tool & Die Fabrication, Sub-Assembly For Mechanical Parts  
**Quality Achievements** : ISO 9001:2008  
**Contact** : +66 (0) 2 908 1492-3  
**Email Address** : info@rigid.co.th  
**Website** : www.rigid-group.com



## **MACHINES:**

Preventive Maintenance is conducted by our staff and machinist on a regular basis, while we also hire experts from our supplier to conduct preventive maintenance of the machines within a certain time frame.

Most of our machines are directly imported from overseas like Japan and Switzerland thus we guarantee a high accuracy with our machines.

## **Manpower:**

- ✓ Highly Skilled Machinists / Operators
- ✓ Well Experienced Engineers (Planning Team)
- ✓ Versatile Programmers
- ✓ Teamwork Oriented

## **Planning MRP (fully customized and organized online software)**

- ✓ Plan - on how the job will be done through machining processes accordingly
- ✓ Follow - step by step procedure until completion
- ✓ Track - checking on the process up to the after service
- ✓ Checking the Job Status from the Initial Quotation to Delivery

## **INDUSTRIES WE SUPPORT**

- ✓ Semiconductor
- ✓ Electronics
- ✓ HDD
- ✓ Machined Parts for Automation & Automotive
- ✓ Spare Parts for Precision Tool & Die

**RIGID Group has been active in tools and dies making since 1994. We manufacture high precision parts namely connector mold inserts, dies, punches, jigs and fixtures, precision press tools and automation parts and sub-assembly for mechanical parts not only for local but also foreign affiliated electronic and semiconductor industries. We also incorporate precision mold fabrication into its range of products catering the local plastic molding industries as well as hard disc drive industries.**



**To be the SUPPLIER OF CHOICE in high precision tool and die industries by not only meeting, but far exceeding customer's expectation through**

- ✓ ON-TIME & PROMPT DELIVERY
- ✓ COMPETITIVE PRICING
- ✓ SHORT LEAD TIME
- ✓ BEST PRODUCT QUALITY

**with integrated quality conceptions to assist all our valued customers meeting higher productivity and yield.**



# OUR MACHINE LIST

Updated 2/2020

# MACHINE PHOTOS

MACHINE	MODEL NUMBER	TABLE SIZE	ACCURACY	UNITS
<b>CNC Milling</b>				
CNC EXPERT	SV-50DT	X500 Y430 Z340	± 10µm	8 UNITS
CNC EXPERT	SV105S	X1050 Y600 Z600	± 10µm	1 UNIT
HAAS	VF-2	X900 Y360 Z600	± 10µm	1 UNIT
HAAS	VF-4-SE	X1270 Y508 Z635	± 10µm	1 UNIT
<b>CNC High Speed</b>				
ISPER	HSP 443 SKY	X400 Y400 Z300	± 2µm	1 UNIT
<b>CNC Lathe</b>				
TSUGAMI	M08SY	X221 Z400 Y50	± 10µm	1 UNIT
GOODWAY	GLS-2000LYS	X215 Z250 Y70	± 10µm	1 UNIT
GOODWAY	GLS-200M	X210 Z520	± 10µm	1 UNIT
<b>Wire EDM</b>				
MITSUBISHI	PA20SM	X500 Y450 Z250	± 3µm	1 UNIT
MITSUBISHI	FA10S ADVANCE	X300 Y250 Z200	± 3µm	1 UNIT
MITSUBISHI	NA1200	X400 Y350 Z200	± 3µm	1 UNIT
MITSUBISHI	NA1200 Advance	X400 Y350 Z200	± 2µm	1 UNIT
HNZF	HF320MZQ	X350 Y450 Z300	± 20µm	1 UNIT
<b>Drilling EDM</b>				
CASTEK	SD16BPTW	X300 Y250 Z200	± 20µm	2 UNITS
ELENIX	CT300FX	X300 Y200 Z280	± 10µm	1 UNIT
<b>Sinker EDM</b>				
CREATOR	CJ-230	X200 Y150 Z250	± 5µm	1 UNIT
MITSUBISHI	FP80V-A	X300 Y250 Z240	± 3µm	2 UNITS
<b>Micro 3D EDM</b>				
SARIX	SX-100-HPM	X200 Y150 Z250	± 1µm	2 UNITS
<b>Surface Grinding</b>				
OKAMOTO	ACC-350II	X350 Y150 Z200	± 3µm	3 UNITS
OKAMOTO	ACC-450AV	X450 Y150 Z250	± 3µm	1 UNIT
OKAMOTO	ACC-450CV	X450 Y150 Z250	± 3µm	1 UNIT
OKAMOTO	ACA-450DX	X450 Y150 Z250	± 3µm	1 UNIT
OKAMOTO	ACC-52DX	X500 Y250 Z300	± 3µm	1 UNIT
SEEDTEC	1224	X600 Y350 Z300	± 3µm	1 UNIT
OKAMOTO	L-450B	X450 Y150 Z200	± 3µm	1 UNIT
<b>Others</b>				
JAGURA (Pin Grinding)	JAG-02SP	X150 Y100	-	1 UNIT
DIN VERTICAL BANDSAW	S-400	X600 Y500	-	1 UNIT
DIN SEMI-AUTO BANDSAW	UE-250V	X250 Y415	-	1 UNIT
ARGO MILLING	ARGO 1	X600 Y300 Z300	-	2 UNITS





QA FACILITY LIST & PHOTOS

MACHINE	MODEL NUMBER	TABLE SIZE	UNITS
COORDINATE MEASURING MACHINE			
WENZEL	LH 5-6-4	X500 Y600 Z400	1 UNIT
VISION MEASURING MICROSCOPE (QUICK SCOPE)			
DR. SCHNEIDER	WM1 300 S	X300 Y200 Z200	1 UNIT
DIGITAL MEASURING MICROSCOPE			
KUNOH	MKM250	X180 Y105 Z11	1 UNIT
PROFILE PROJECTOR			
TOPCON	VP-30D	X100 Y50	3 UNITS
VIDEO PROJECTOR			
JATEN	VP1	X100 Y100	1 UNIT
HEIGHT MASTER			
TRIMOS	V302+	Z300	1 UNIT
TRIMOS	V304+	Z300	2 UNITS
MICROSCOPES			
NIKON	C-PS	150x Scale	1 UNIT
NIKON	C-PS	100x Scale	1 UNIT
NIKON	C-PS	80x Scale	5 UNITS



TREATMENT SERVICES

HEAT TREATMENT / HARDENING:

- OIL QUENCHING
- VACUUM HARDENING
- INDUCTION HARDENING
- TEMPERING
- STRESS RELIEVING
- CARBURIZING
- NITRIDING
- SOFT NITRIDING
- SUB-ZERO
- ANNEALING

We have selected premier vendors who are qualified and experienced for the most type of heat and surface treatment with ISO Certification catering both local and foreign entities.



SURFACE TREATMENT / COATING & PLATING

PROCESS	SPECIFICATIONS
Electroless Nickel	+5~+10µm
Flash Chrome	+3µm
Passivation	+0µm
Clear Anodizing	-5~-10µm
Black Anodizing	+10~+20µm
Hard Anodizing	+10~+20µm
Blackening	+5µm
Hard Chrome	+5~+10µm
Zinc Plating (Electro-galvanizing)	+5~+10µm
Tufftriding	+5~+10µm
Bright Chrome	+5~+10µm
Titanium Coating	TiN (Gold)
	TiCN
	DLC (Black)
	ADLC (Diamond)
Painting	Available with various colors.





# ASSEMBLY AND LAPPING SECTION

We have dedicated personnel whose job is to perform precision mirror lapping within critical functional areas. They both use bare hand or pneumatic grinder with the lapping wood or cotton buds and diamond compounds, each diamond compounds has its own grits.

The spare parts are processed with different machining processes and acquire the standard parts in the market. Once everything is completed, it will be ready for sub-assembly based on the mechanical assembly drawing provided by the customers.

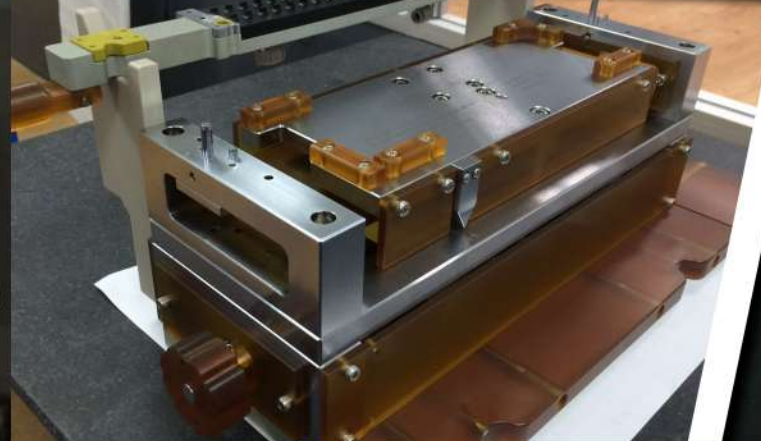


## OUR PRODUCT PHOTOS



### MATERIALS THAT CAN BE PROCESSED BY OUR MACHINES:

- ✓ Aluminum
- ✓ Stainless Steel
- ✓ Brass
- ✓ Engineering Plastics
- ✓ Copper
- ✓ Carbide (Cemented Carbide)
- ✓ Steel



OUR PRODUCT PHOTOS



**Company Address** : 21,23,25, Lorong Nagasari 5,  
Taman Nagasari, 13600 Perai,  
Butterworth, Penang, Malaysia.  
**Year Established** : April 1994  
**Floor Area** : 7,500 Sq ft.  
**Principle Business** : Precision Plastic Mold Insert Fabrication  
Precision Carbide Punches, Die,  
Jigs & Fixtures, Precision Tool & Die Fabrication,  
Sub-Assembly For Mechanical Parts  
**Quality Achievements** : ISO 9001:2015  
**Email Address** : [planning@reliabletechnology.com.my](mailto:planning@reliabletechnology.com.my)  
**Website** : [www.rigid-group.com](http://www.rigid-group.com)

## **OUR MAJOR MACHINES**



MACHINE	MODEL NUMBER	TABLE SIZE	ACCURACY	UNITS
<b>CNC Milling</b>				
FANUC	ALPHA-T14iELe	X500 Y430 Z340	± 10µm	1 UNIT
FANUC	A-T21iFLB	X500 Y430 Z340	± 10µm	1 UNIT
CNC EXPERT	SV-50DT	X500 Y430 Z340	± 10µm	1 UNIT
CNC EXPERT	SV-76S	X500 Y430 Z340	± 10µm	1 UNIT
CNC EXPERT	SV-110S	X500 Y430 Z340	± 10µm	1 UNIT
<b>Profile Grinding</b>				
WASINO	GLS-135B	X150 Y100 Z250	± 3µm	1 UNIT
<b>Wire EDM</b>				
MITSUBISHI	NA1200	X300 Y250 Z200	± 3µm	1 UNIT
SODICK	SP200L(O) LN1W	X300 Y250 Z200	± 3µm	1 UNIT
SODICK	SLN400G SPW	X400 Y350 Z250	± 3µm	1 UNIT
CHARMILLES	2030 SI-TW	X320 Y220 Z116	± 3µm	1 UNIT
MITSUBISHI	FA10PSM	X350 Y250 Z220	± 3µm	1 UNIT
HNZF	HF320MZQ	X350 Y450 Z300	± 20µm	1 UNIT
<b>Drilling EDM</b>				
CASTEK	SD22PTW	X300 Y250 Z200	± 20µm	1 UNIT
CASTEK	MD-20A	X300 Y250 Z200	± 20µm	1 UNIT
SODICK	K3HN	X300 Y400 Z220	± 3µm	1 UNIT
<b>Sinker EDM</b>				
CREATOR	CJ-230	X200 Y150 Z250	± 5µm	1 UNIT
MAKINO	EDGE 2	X300 Y250 Z240	± 3µm	2 UNITS
SODICK	AQ35L	X355 Y254 Z254	± 3µm	1 UNIT
SODICK	AQ40L LN2	X400 Y300 Z270	± 3µm	1 UNIT
<b>Surface Grinding</b>				
OKAMOTO	ACC-350II	X350 Y150 Z200	± 3µm	3 UNITS
OKAMOTO	ACC-64DX	X450 Y150 Z250	± 3µm	1 UNIT
OKAMOTO	ACC-450CV	X450 Y150 Z250	± 3µm	3 UNITS
OKAMOTO	PFG450 DXC-V	X350 Y150 Z200	± 3µm	1 UNIT
OKAMOTO	PFG450 AL	X350 Y150 Z200	± 3µm	1 UNIT
PARKER MAJESTIC	2Z6X18	X350 Y150 Z200	± 3µm	3 UNITS
JONES & SHIPMAN	540	X600 Y350 Z300	± 3µm	3 UNITS
<b>Others</b>				
MANUAL TURNING	CH430X1000	X600 Y500	± 20µm	1 UNIT
MANUAL MILLING	LC-185TM	X250 Y415	± 20µm	1 UNIT
MANUAL MILLING	LC-185TM	X600 Y300 Z300	± 20µm	1 UNIT
MANUAL MILLING	JF-183T	X600 Y300 Z300	± 20µm	1 UNIT