

TBS

Precision Engineering

founded in 1992

founded in 1992



March 2023

Add: 9 Solok Beringin MK12, 11960, Batu Maung, Penang, Malaysia Email: hachan@tbsprecision.com Tel: 6012 430 6526

TBS

Precision Engineering

founded in 1992

founded in 1992

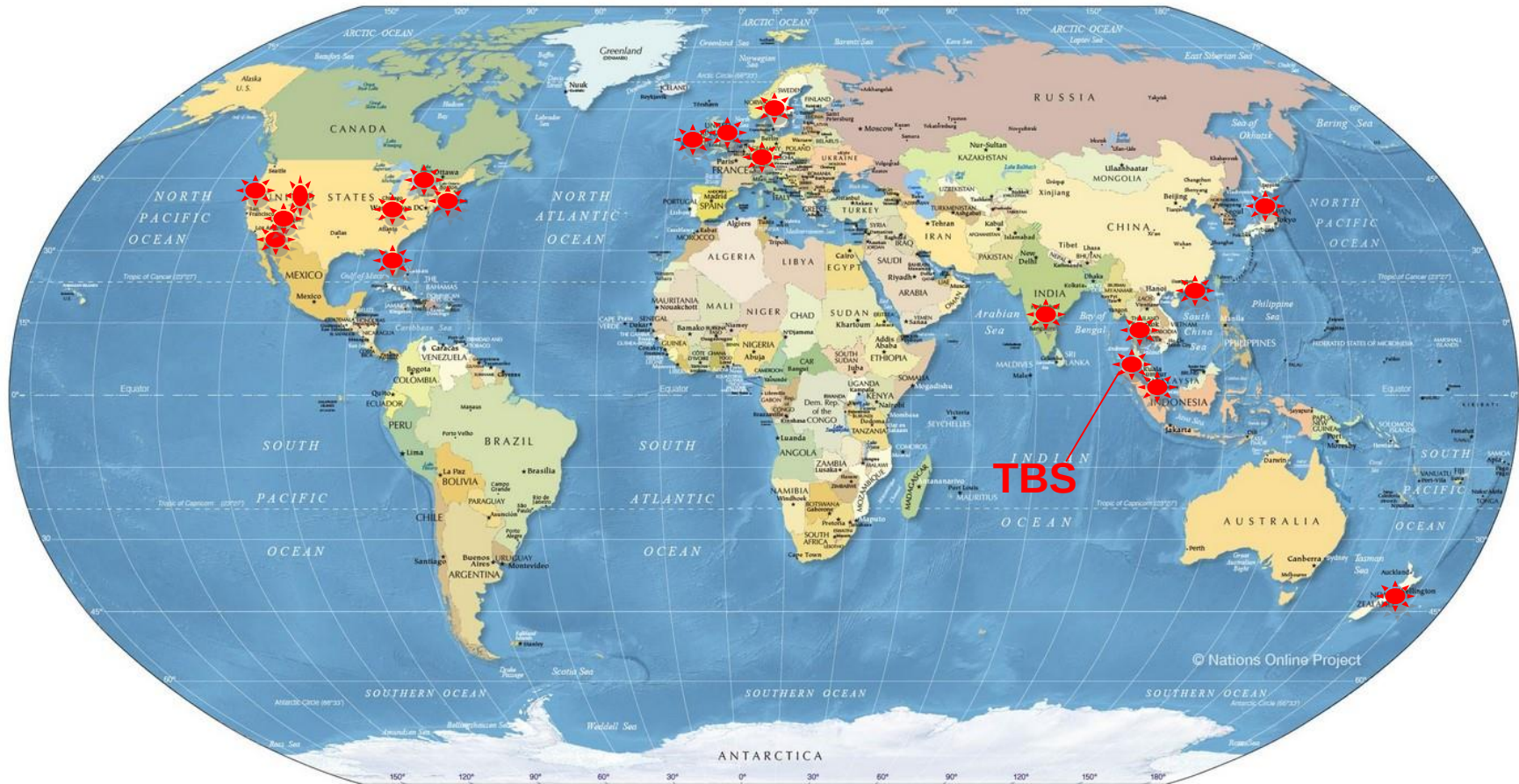
TBS Precision Engineering, founded in **1992**, is located in Penang, Malaysia and specializes in the **precision machining of metal and engineering plastic** components for a wide range of industries: **Medical, Life Science, Instruments, Aerospace, Oil & Gas, Automation, Photonics, Semiconductor Front and Back-End, and Automotive (Jigs & Fixtures).**

Annual revenue is **USD 2.5 million** operating on a production floor space of **15,000 square feet** with a workforce of **50+ employees** – plan to increase to **30,000 square feet** and **70+ employees** over 2023 / 2024.

ISO 9001 certified (since 2006), TBS continually upgrades its capacity and capability.

Customer base is split **50/50** between **direct overseas exports (Singapore, Thailand, New Zealand, Hong Kong, Singapore, Japan, India, Ireland, England, Sweden, Austria, Norway, Serbia, and USA)** and **local Contract Manufacturers based in Malaysia.**

IR2: 2 customer locations



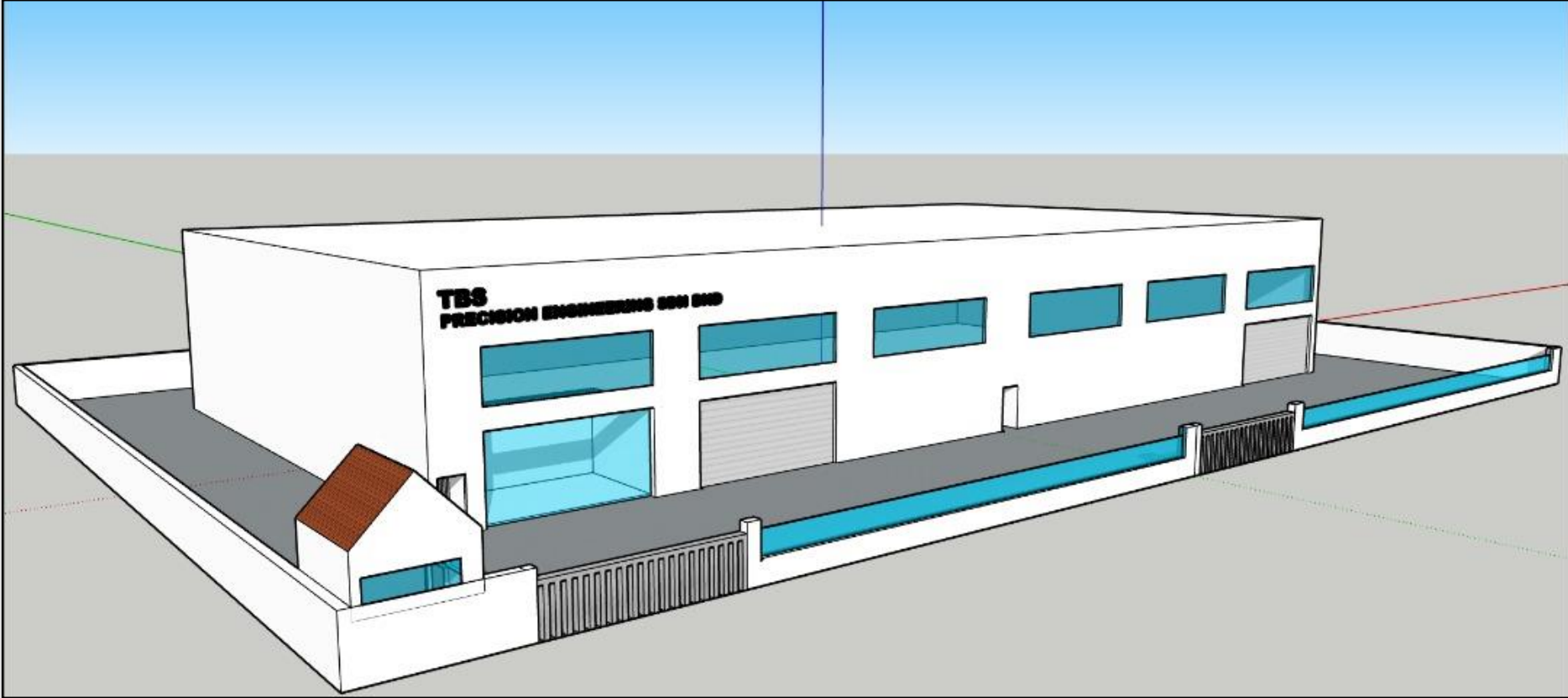
Add: 9 Solok Beringin MK12, 11960, Batu Maung, Penang, Malaysia Email: hachan@tbsprecision.com Tel: 6012 430 6526

TBS shall expand to double its size during 2023
(acquired the neighboring building)

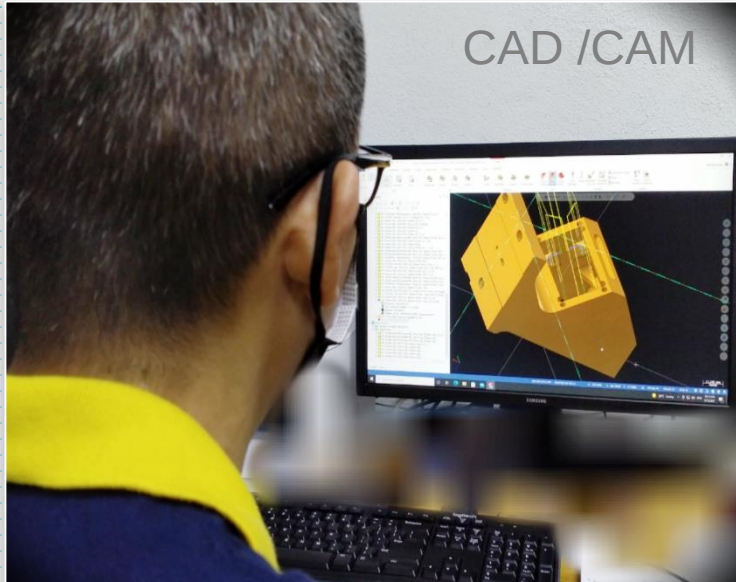


TBS in 2023

(double floor space from 15,000 sq ft to 30,000 sq ft)



TBS Precision Engineering



Recent addition: Tool Pre-Setter (Nov 2022)



TBS Precision Engineering

Core competency is in the precision machining of medium to high mix, low to medium volume, complex parts (4 to 8 axis).



Industry: Semicon
Diameter 1.00 mm, Gold plated



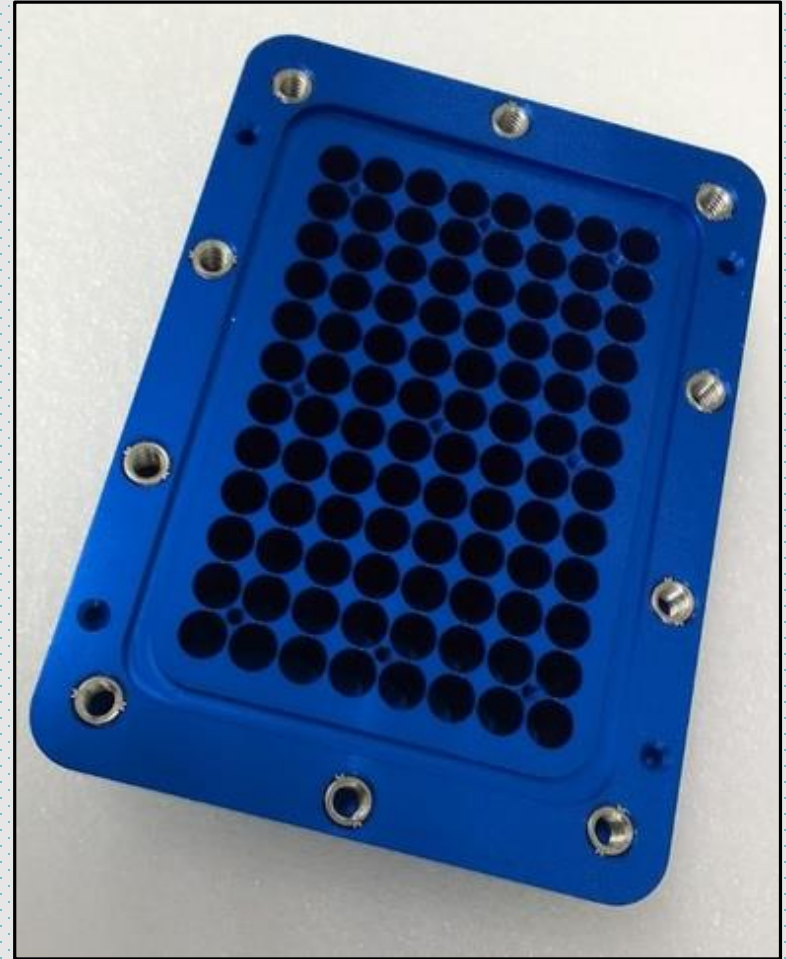
Industry Medical
Material: 17-4

TBS Precision Engineering



Use: Junction Box cover

Material: Gold anodized aluminum



Industry: Life Science

Material: Blue anodized aluminum with stainless steel threaded inserts.

TBS Precision Engineering



Industry Medical
Material: Steel



Industry: Instruments
Material: Aluminum

TBS Precision Engineering

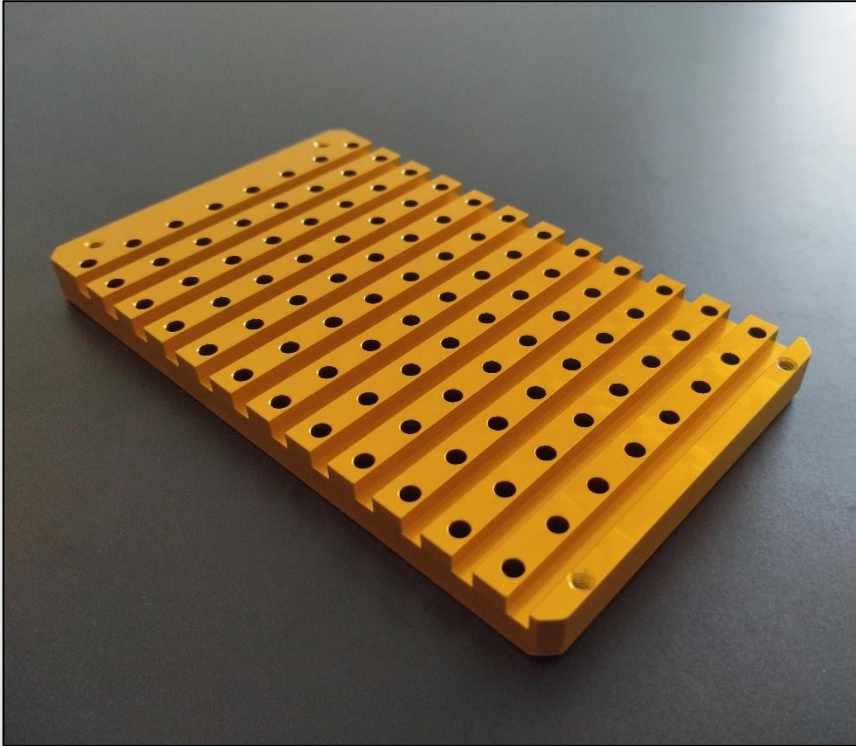


Industry: Medical
Material: Aluminum body
with Stainless Steel pins



Industry: Instruments
Material: Acrylic

TBS Precision Engineering



Industry: Medical
Material: Gold anodized aluminium



Industry: Life Science
Material: PEEK

TBS Precision Engineering



Industry: Dental instruments
Material: Satin nickel plated brass



Industry: Gas Monitoring & Measurement
Material: Aluminum

TBS Precision Engineering



Industry: Aerospace, Radar Gimbal coupling
Material: 17-4

Note: Helical Spiral Cut (flexible coupling)



Industry Medical
Material: 17-4

TBS Precision Engineering



Industry: Semicon
Material: Aluminium, laser engraved



Industry: Instruments
Material: Aluminum

TBS Precision Engineering

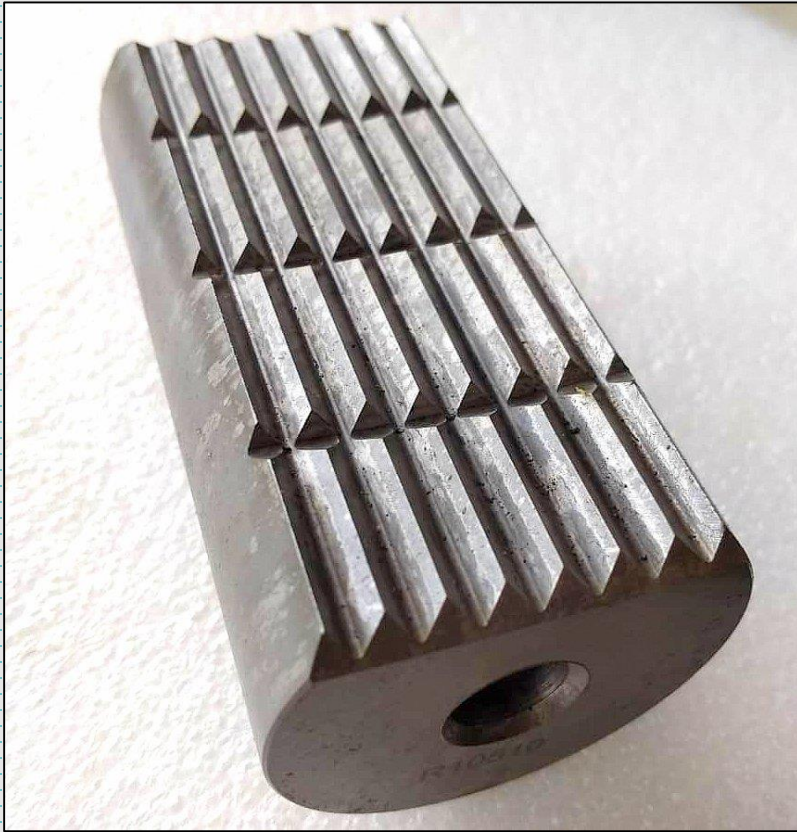


Industry: Oil & Gas
Material: Steel



Industry: Oil & Gas
Material: Steel

TBS Precision Engineering

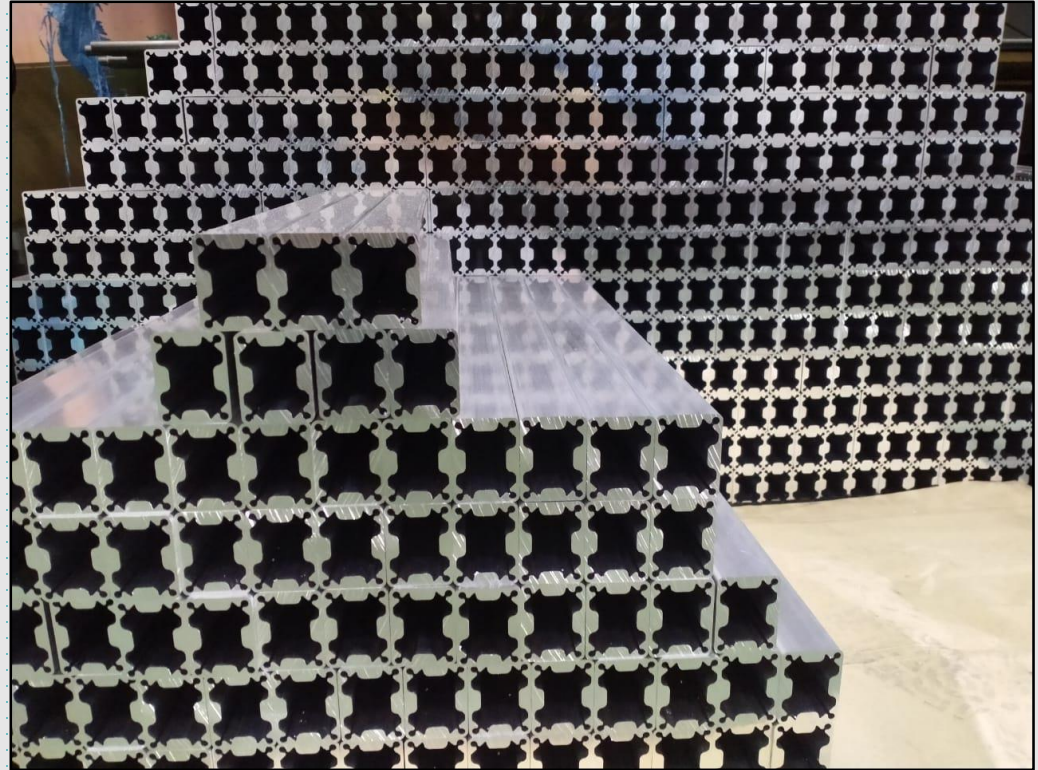


Industry: Oil & Gas
Material: Case hardened steel



Industry: Instruments
Material: Aluminum with machined hazard symbol

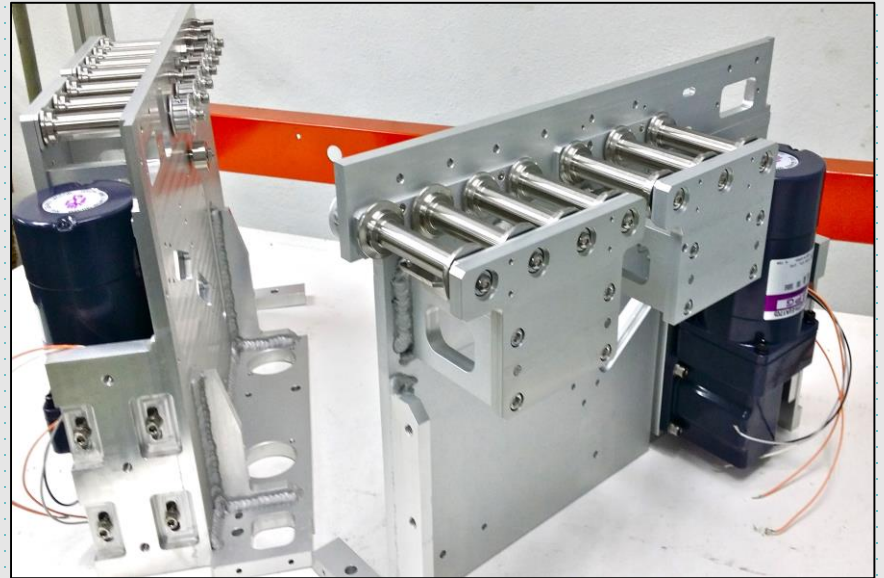
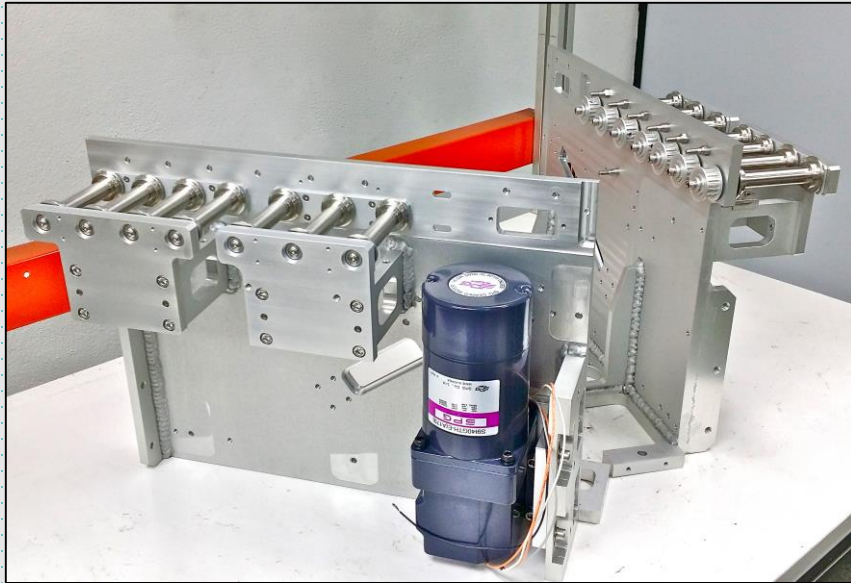
TBS Precision Engineering



Machined aluminium extrusions

TBS Precision Engineering

Mechanical Sub-Assembly



TBS Precision Engineering

Mechanical Assembly



TBS Precision Engineering

Mechanical Assembly



TBS Precision Engineering

CNC Milling  = more than 3 Axis

	Brand	Model	Axis	Comment	Travel (mm)
1	DMG	CMX 50U	 3+2	CNC Milling	500 x 450 x 400
2	DMG	CMX 50U	 3+2	CNC Milling	500 x 450 x 400
3	Enshu	ES 401	 3+2	CNC Milling	500 x 350 x 350
4	Pratic	PYB-4500	3	CNC Milling	4500 x 600 x 500
5	Dahlih	MCV-860	 4+1	CNC Milling	800 x 600 x 600
6	Enshu	WE 30V	 4+1	CNC Milling	500 x 350 x 350
7	Mazak	VCN-430B	3	CNC Milling	430x510x760
8	Dahlih	MCV-1200	3	CNC Milling	1200 x 500 x 600
9	Mori Seiki	Dura-Center	3	CNC Milling	800 x 450 x 500
10	Feeler	VMX-E	3	CNC Milling	760 x 420 x 510
11	Feeler	VMX-E	3	CNC Milling	760 x 420 x 510
12	Feeler	QM-22A	3	CNC Milling	600 x 400 x 350

TBS Precision Engineering

CNC Turning & Turn Mills  = more than 3 Axis

	Brand	Model	Axis	Comment	Travel (mm)
1	Nakamura	Tome WT-150	 8	CNC Turn Mill, Double Turret & Spindle	Ø 150 x 450
2	Star	SB 20R	 7	Auto-Lathe	Ø 20 X 150
3	Star	SB20R Type E	 7	Auto-Lathe	Ø 20 X 150
4	Star	SB20R Type E	 7	Auto-Lathe	Ø 20 X 150
5	Mazak	QT-Compact	 4	CNC Turn-Mill	Ø 340 x 535
6	Mazak	QTE-200	2	CNC Turning	Ø 350 x 520
7	Nakamura	Tome TMC-15	3	CNC Turn-Mill	Ø 150 x 220
8	Nakamura	SC 150	3	CNC Turn-Mill	Ø 400 x 250
9	Nakamura	SC 200	3	CNC Turn Mill	Ø 300 x 260
10	Femco	HJ 28	2	CNC Turning	Ø 250 x 600
11	Hyundai	SKT 100	2	CNC Turning	Ø 200 x 150

TBS Precision Engineering

Equipment List – Conventional Machines and CAD/CAM

Category	Maker	Model	Travel (mm)	Units
Conventional Lathe	Yam	-	300 x 1000	3
Centre-less Grind	Paragon	RC-18B	20 x 2000	1
Conventional Milling	Acu Rite	-	300 x 600 x 300	3
Conventional Grinding	Quiptop	-	200 x 300 / 350 x 600	2
Gear Hobbing	ZMC	-		1
Wire Cutting	SSG	-	250 x 300	1
CAD/CAM	Siemens U.G & Mastercam	-	-	1
CAD	Mega CAD	-	-	1

TBS Precision Engineering

Equipment List – Metrology

Category	Maker	Model	Travel (mm)	Resolution (μm)	Units
CMM	Brown & Sharpe	Global Performance	500 x 700 x 500	1	1
Profile Projection system	Micro-Vu	-	120 x 450	1	1
DynaScope Measuring System	Vision	-	120 x 120	1	1
Roughness Tester	Mitutoyo	SJ-201	-	-	1
Linear Height	Mitutoyo	-		1	1
3 Point Mic (Set)	Mitutoyo	-	Ø 20~100	2	1
A wide range of handheld measuring tools: Calipers, Micrometers, Pin Gages, Thread Plug Gages, Thread and Ring Gages and Block Gages.					

**ISO 9001
certified since
2006**

Certificate of Approval

This is to certify that the Management System of:

**TBS Precision Engineering Sdn.
Bhd. (620672-H)**

9, Solok Beringin Mk12, 11960 Batu Maung, Penang, Malaysia

has been approved by LRQA to the following standards:

ISO 9001:2015

Approval number(s): ISO 9001 – 0048982

The scope of this approval is applicable to:

Manufacture of high and semi-precision metal and engineering-plastic components.



TBS Precision Engineering

CNC Turning Capabilities

Diameter (mm)	(+/- μm)	Material
0.5 – 10	5	Copper Based Material : BeCu, Brass, etc Nickel Based Material : Inconel 600~700, etc Stainless Steel : 300 series, 400 series, 17-4, etc Aluminum : 2000 series to 7000 series Ferrous Material : Tool steel, AISI 1020, 1018, 1010, 12L14, etc Engineering Plastics: Delrin, POM, Peek, Nylon, Teflon, etc Others : Titanium, etc
10 – 50	5	
50 – 100	5	
100 – 300	10	

CNC Milling Capabilities

GD & T	(+/- μm)	Material
	20	Copper Based Material : BeCu, Brass, OFC Cu, etc Nickel Based Material : Inconel 600~700, etc Stainless Steel : 300 series, 400 series, 17-4, etc Aluminum : 2000 series to 7000 series Ferrous Material : Tool steel, AISI 1020, 1018, 1010, 12L14, etc Engineering Plastics: Delrin, POM, Peek, Nylon, Teflon, etc Others : Titanium, etc
	20	
	5	
	10	

TBS Precision Engineering

2023 to 2024 expansion plan

- Acquired second building to increase manufacturing area from 15,000 to 30,000 sq.
- Develop and engage with customers for long term projects.
- Upgrade key staff's skills
- Number of employees to increase to 70+ employees (current is 50+)

TBS Precision Engineering Sdn Bhd

(Company Number 620672-H)

9, Solok Beringin Mk 12

11960, Batu Maung, Penang, Malaysia.

Tel : +604 6262776 Fax : +604 6262508

www.tbsprecision.com

Contacts

Mr. Chan Hock Aun

Business Development Manager

Mobile : +6012 430 6526

Email : hachan@tbsprecision.com

Mr. Tan Boon Hock

Managing Director

Mobile: +6012 483 3669

Email: hock@tbsprecision.com

