

All Total Solution in **WEI HONG**

www.gundrillweihong.com



Flat-bed Gun Drill System

FW series : 20 models



Chuck Type Gun Drill System

PW series : 4 models



Heavy Duty Boring & Trepanning

BTA series : 8 models



Trepanning Core Stay & Rapid Drill

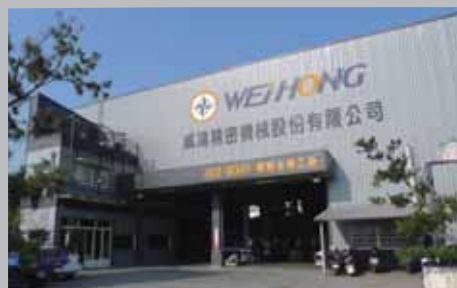
TPA series : 2 models



Complex Special Purpose System

FEB series : 1 models

We are the expert in deep hole processing.



Factory

Factory: **WEI HONG**
PRECISION MACHINERY CO., LTD.

No. 1065, Fong Jhou Rd., Shengang Section,
Taichung City 42949, Taiwan R.O.C.

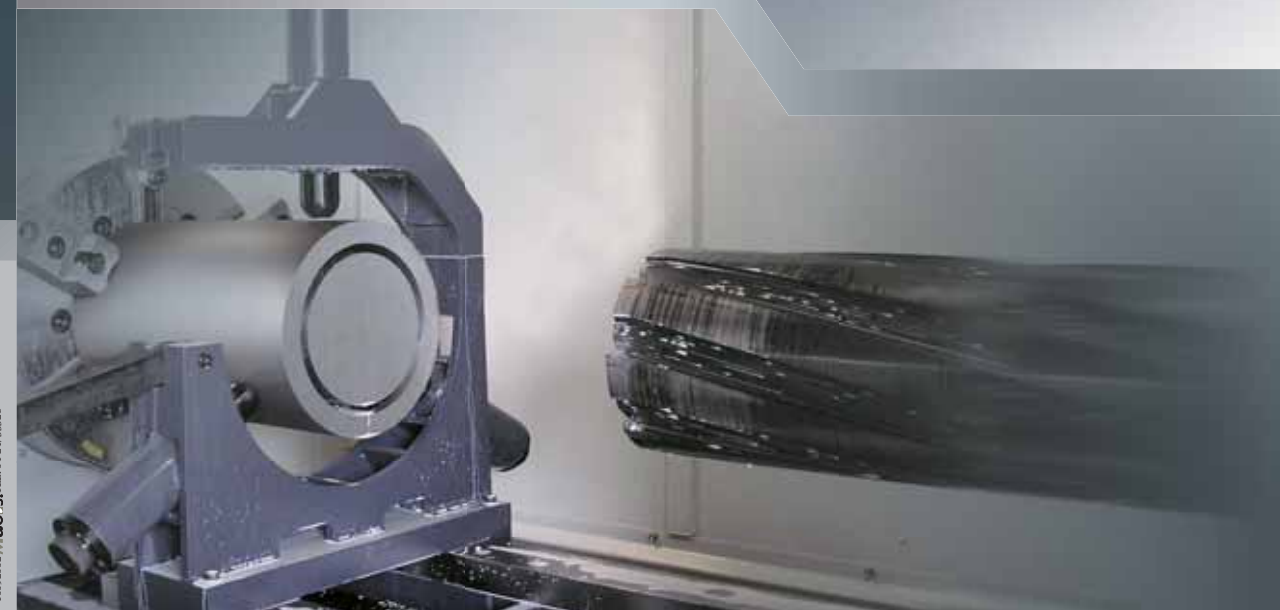
Trading Division: **WINFORT**
TRADING CO., LTD.

No. 81, Minsheng Rd., Shengang Section, Taichung City,
42950, Taiwan, R.O.C.

Tel: +886 4 2561 2331 / Fax: +886 4 2561 2301

E-mail: sales@winfort-trading.com

WEI HONG Deep Hole Drilling Machine Line UP



WEI HONG Precision Machinery Co., Ltd.
A Qualified ISO Certified Company



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10092002 / MAC / TEL: 04-26733326

Since being a processor,
then a machinery builder,
**we concentrate
in deep hole drilling technology.**

With more than 20 years experiences, **WEI HONG** accumulated plenty technic skills in various deep hole processing. We used the machines, we build machines now, we see insight of your demand.

▲ Core Technology in Application

WEI HONG involves in related **tooling application** and **total solution** for diverse deep hole machining. We apply our customers flexible engineering proposals to exert **WEI HONG** machines to achieve satisfied **cost- performance value**.

▲ Continuous Development & Research

WEI HONG always keeps researching leading technical craft. To advance machinery capability and to enhance high precision deep hole drilling, we invest **high end scientific digital software** to support **optimum machine design** and demonstrate **mechanism rigidity**.



WEI HONG TPA-1200 exhibited in IMTS 2010 by Mollart Brand.

▲ Quality Policy

WEI HONG employees high class measurement equipment. We regulate all skillful manufacturing sequences and practice inspection progress according to our internal documentary **SOP (Standard Operation Procedure)**. We ensured each test cut in fine finishing result.

▲ International Tech Team

We cooperate with senior European gundrill manufacture and join the tech team to upgrad further application. **WEI HONG** enlarges machinery product range to integrate **international leading engineering** in deep hole field and moves on raising up your competition.



WEI HONG Model Guide

Remark: * Model with Enlarge Y axis Available
 • Standard Feature
 ○ Available Option
 Available by Specialized Application

Model	Drilling Diameter Ø					Drilling Depth					Off-center Drill	Angular Drill (B + W axis)	Milling & Tapping	Double Rotation (rotation for part & tool)	Part Core Remaining	Counterboring
	1.8 - 6 mm	3 - 25 mm	4 - 40 mm	30 - 150 mm	Max 300 mm	1000 mm ↓	1000 - 1500 mm	1500 - 2000 mm	2000 - 3000 mm	3000 mm ↑						
	0.07 - 0.24"	0.12 - 1"	0.16 - 1.6"	1.2 - 6"	max 12"	40" ↓	40 - 60"	60 - 80"	80 - 120"	120" ↑						
Flat-bed	FW-1000	-	•	○	-	-	•	-	-	-	•	-	○	-	-	-
	FW-1300	-	•	○	-	-	•	-	-	-	•	-	○	-	-	-
	FW-2000 *	-	•	○	-	-	-	•	○	-	•	-	○	-	-	-
	FW-2500 *	-	•	○	-	-	-	•	○	-	•	-	○	-	-	-
	FW-3000 *	-	•	○	-	-	-	•	○	-	•	-	○	-	-	-
	FW-2000BW *	-	•	○	-	-	-	•	○	-	•	•	•	-	-	-
	FW-2500BW *	-	•	○	-	-	-	•	○	-	•	•	•	-	-	-
	FW-3000BW *	-	•	○	-	-	-	•	○	-	•	•	•	-	-	-
Multiple spindles	PW-300-4D	○	•	-	-	-	•	-	-	-	-	-	-	○	-	-
	PW-600-4D	-	•	○	-	-	•	-	-	-	-	-	-	○	-	-
	PW-800-2D	-	•	○	-	-	•	-	-	-	-	-	-	○	-	-
	PW-1500	-	•	○	-	-	-	•	-	-	-	-	-	○	-	-
Heavy Duty	BTA-2000	-	-	-	•	-	-	-	•	-	-	-	-	-	-	-
	BTA-2500	-	-	-	•	-	-	-	•	-	-	-	-	-	-	-
	BTA-3000	-	-	-	•	-	-	-	•	-	-	-	-	-	-	-
	BTA-2000S	-	-	-	•	-	-	•	-	-	-	-	-	•	-	-
	BTA-3000S	-	-	-	•	-	-	-	•	-	-	-	-	•	-	-
	BTA-4000S	-	-	-	•	-	-	-	-	•	-	-	-	•	-	-
	BTA-5000S	-	-	-	•	-	-	-	-	•	-	-	-	•	-	-
	BTA-6000S	-	-	-	•	-	-	-	-	•	-	-	-	•	-	-
Core Stay	TPA-600	-	-	•	-	•	•	-	-	-	-	-	-	-	•	-
	TPA-1200	-	-	•	-	•	-	•	-	-	-	-	-	-	•	-
Complex	FEB-5050	-	-	•	•	-	-	-	-	•	•	○	•	-	-	-

* Contact Weihong Tech Division for availability & related proper application.

Gundrill

BTA

Trepan

Complex

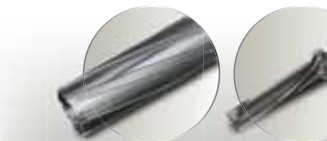
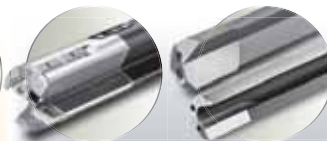
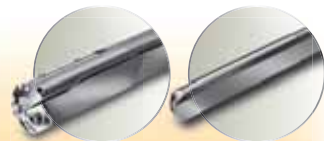
Efficient 3 Axis

Massive Shaft Drill

Heavy Duty Hole

Power Drill

Multi Purpose Master



Productivity Flat-bed



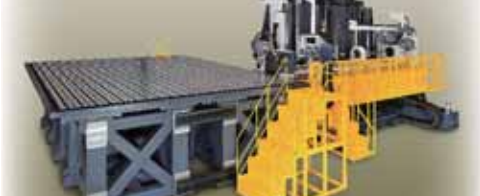
Productivity Chuck Type



Boring & Trepanning Association



Core Stay & Rapid Solid Drill



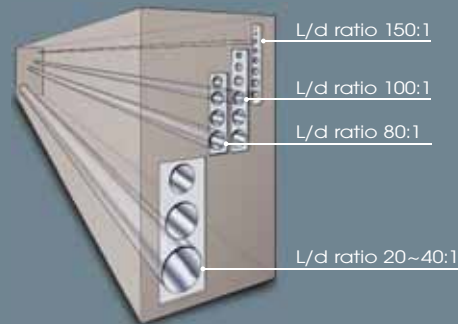
Gun Drill + BTA + Milling + Tapping

FW Series

Cutting Show Room

While Hole Length / Diameter Ratio Is Higher Than 20 times...

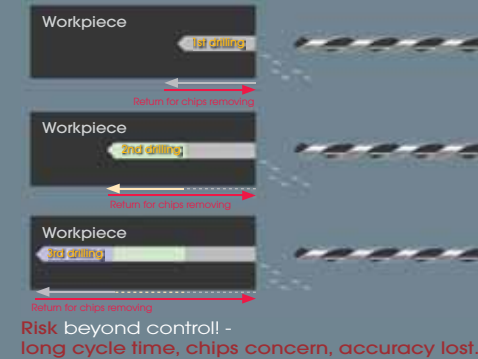
Length / diameter Ratio for Deep Hole



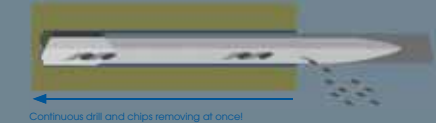
About Deep Hole Processing...

More and more high-tech components require high precision and complicated engineering, whether in heavy industrial or precise unit, such as aero-space, energy equipment, mechanism part & die mould, or precision medical, automotive and I/T consuming part. The deep holes processing is the key factor to decide the **faster**, more **efficient** and **preferable** quality in whole processing. For **deep hole in L/d 20**, **WEI HONG** provide trustable application and machinery products to guide your earlier success.

Conventional Twist Drill



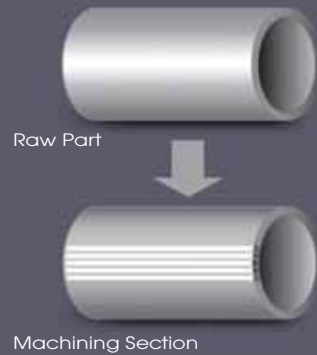
WEI HONG Gundrill



All in Once Pass by WEI HONG Gundrill

- Hole Straightness **0.2mm** per 500mm (when L/d≤50)
- Hole Diameter Tolerance **0.02mm**
- ID Surface Roughness **Ra 3.2μm**
- Burr-free** Intersections
- Consistent reproduction** from hole to hole

Mechanism Part



Workpiece:

Giant Roller
for plastic flattening

Material **SS41**

Machine Model:

FW2513

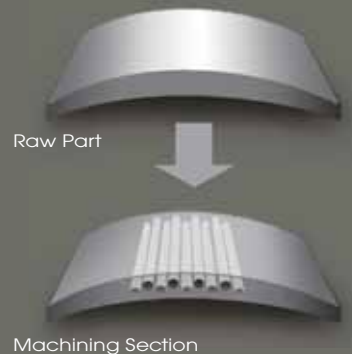
Drilling Dimension: **Ø24mm * L 2400mm**

Drill L/d ratio: **100** times

Demo Highlight:

High rigidity of FW series allows **heavy workpiece loading** and whole X axis travels full within **full bed scope support**. Referring to this giant roller weighted **17 tons**, its critical deep drill in **L/d 100** times and accurate PDC connected holes can be satisfyingly handled only by Wei Hong gundrill machines.

Aerospace Part



Workpiece:

Turbine Blade
for aircraft

Material **Aluminum**

Machine Model:

FW1000

Drilling Dimension: **Ø5.02mm * L 350mm**

Wall Thickness: **1.26mm** between Holes

Demo Highlight:

Intensive structure components with lightweight are decisive tech for aero industrial. The precise deep drills with **L/d 70** (L 350 / ø 5.02 mm) and the **tiny pitch** affect the qualification for this turbine part. **WEI HONG** FW coordinates **mechanism dynamic accuracy** and the **senior application engineering** to support customer free from parts damage (hole breakage) and raise up his production.

PW Series

Cutting Show Room



Heavy Industrial Foundry



Raw Part



Machining Section


Material **OFC**

Workpiece: Electrode
Machine Model: PW600
Drilling Dimension: $\varnothing 37.5\text{mm} \times \text{L } 355\text{mm}$
Productivity Improved: **500 %** (compared to turning)

Demo Highlight:

The high malleability and soft physic feature of OFC (Oxygen Free Copper) create machining risks, such as chips melting and frequent tooling breakage. **WEI HONG** exerts professional application to optimize customer's cutting condition and increase productivity. The standard **extra high pressure coolant flow** maintains satisfied cut quality.

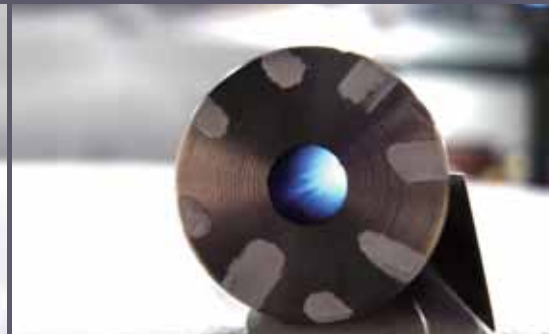
Precision Instrument



Raw Part



Machining Section


Material **SUS304**

Workpiece: Float Tube
for industrial thermometer
Machine Model: PW8002DS
Drilling Dimension: $\varnothing 7\text{mm} \times \text{L } 700\text{mm}$
Straightness Accuracy: **0.07mm** (for full hole depth 700mm)

Demo Highlight:

This deep hole is precise tunnel for thermograph float to move up and down level. This classic part in hard stainless with **L/d 100 times required critical straightness, roundness** and **delicate surface**. **WEI HONG** PW with dual rotation system (rotating at part and tool) performs excellent accuracy in continuous production.

Sporting Part



Raw Part



Machining Section



Wall thickness of hole-hole is only 1.2mm!


Material **Aluminum**

Workpiece: Pneumatic Component
for bicycle shock absorber
Machine Model: PW3004DS
Drilling Dimension: $\varnothing 3\text{mm} \times \text{L } 200\text{mm}$
Wall Thickness: **1mm** (from hole to OD)

Demo Highlight:

Such deep small holes with 1.2mm tiny thickness between holes were normally handled by EDM discharging, it results in long cycle time and poor surface roughness. **WEI HONG** PW process all **3 off-center holes** with special- made fixture, the drill in **premium straightness** ensures customer's advantage to get his continuous orders.

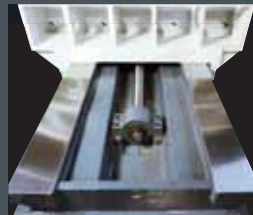
FW Series



▲ One-piece base in **sturdy ribs** constructed is the key casting element to perform ever lasting **dynamic accuracy** and **deformation resistant**.



▲ **Parts carrier stability guarantee!** Whole X axial loading area are fully supported upon machine major base.



▲ All 3 axis are solid box way design to ensure the **steady feeding**.

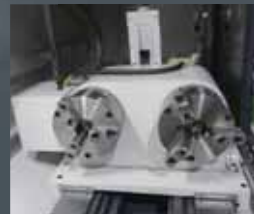


▲ **Ultra large capacity** 1400L coolant tank along with **paper filtration** is standard features for all FW and PW series.

PW Series



▲ **Productivity multiplication** is guarantee for regular bars (according to related part dimension). **simultaneous processing** by multi- spindles are available in Wei Hong PW series.



▲ **Double rotation system** provides superior machining quality in **hole straightness**, **concentricity** and **roundness**.



▲ **WEI HONG** Application Engineering Division provides **ideal turn-key solution**, such as **specialized fixture** for job with **off-center drill**.



▲ Full splash guards are available as option.

FW Series Specification

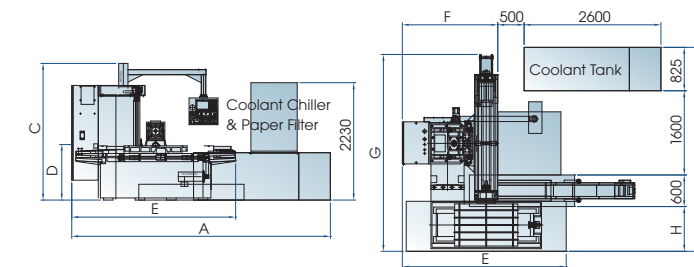
*Black lines for metric *Blue lines for inch

	Model	FW-1000	FW-1300	FW-2010	FW-2013	FW-2016	FW-2510	FW-2513	FW-2516	FW-3010	FW-3013	FW-3016
Drilling capacity	Diameter (STD)	Ø 3 - 25mm / Ø 0.08 - 1"										
	Diameter (OPT)	Ø4 - 40mm / Ø 0.16 - 1.6"										
	Depth	1000mm / 40"			1500mm / 60" (STD) 2000mm / 80" (OPT)							
Spindle	Spindle Motor	3.75kW / 5HP	7.5kW / 10HP									
	Spindle Speed	100 - 8000rpm										
Parts Holding	Working Table	800 * 1200mm 32" * 47"	800 * 1500mm 32" * 60"	1200mm * 2260mm 47" * 89"			1200mm * 2710mm 47" * 107"		1200mm * 3270mm 471" * 129"			
	Table Loading	3000kgs 6600lb	4000kgs 8800lb	15000kgs 33000lb			18000kgs 39600lb		21000kgs 46200lb			
Tavel	X axis	1000mm / 40"	1300mm / 51.2"	2000mm / 80"			2500mm / 100"			3000mm / 120"		
	Y axis	800mm / 32"	800mm / 32"	1000mm / 40"	1300mm / 51.2"	1600mm / 63"	1000mm / 40"	1300mm / 51.2"	1600mm / 63"	1000mm / 40"	1300mm / 51.2"	1600mm / 63"
	Z axis	1650mm / 65"	1650mm / 65"	2200mm / 87" (STD) 2800mm / 110" (OPT)								
Controller		Mitsubhishi / Fanuc										

* All specification subject to change without notice.

Layout dimension

unit: mm



	A	B	C	D	E	F	G
FW-1000	5000	4000	2600	1050	3200	2000	3800
FW-1300	5300	4700	2600	1200	3700	2000	4500
FW-2010	6500	6000	3500	1200	5000	2200	4800
FW-2013	6500	6000	3800	1200	5000	2200	4800
FW-2016	6500	6000	4100	1200	5000	2200	4800
FW-2510	7000	6000	3500	1200	5000	2200	4800
FW-2513	7000	6000	3800	1200	5000	2200	4800
FW-2516	7000	6000	4100	1200	5000	2200	4800
FW-3010	7500	6000	3500	1200	5000	2200	4800
FW-3013	7500	6000	3800	1200	5000	2200	4800
FW-3016	7500	6000	4100	1200	5000	2200	4800

PW Series Specification

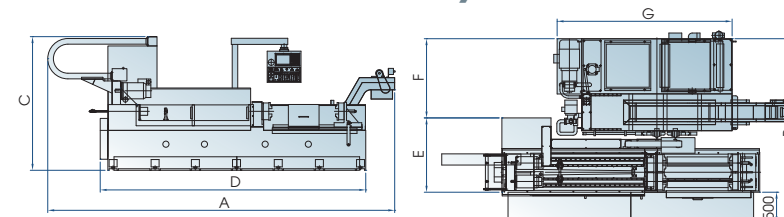
*Black lines for metric *Blue lines for inch

Model	PW-300-4D	PW-600-4D	PW-800-2D	PW-1500
Drilling capacity	Diameter (STD) $\varnothing 3 - 25\text{mm} / \varnothing 0.08 - 1"$			
	Diameter (OPT) $\varnothing 1.8 - 6\text{mm} / \varnothing 0.07 - 0.23"$			
	Depth 300mm / 12"			
Spindle	Spindle Motor	3.75kW / 5HP	7.5kW / 10HP	7.5kW / 10HP
	Spindle Speed	100 - 12000rpm	100 - 8000rpm	100 - 8000rpm
	Number of Spindles	4	4	1
Parts Holding	3-jaw Chuck	7", manual	7", manual (STD) 10" manual (OPT)	10" manual (STD) 12" manual (OPT)
	Tavel Z axis	700mm / 28"	1000mm / 40"	1200mm / 47"
Controller		Mitsubishi / Fanuc		

* All specification subject to change without notice.

* Customized drilling depth (Z axis) and spindle numbers are available according to appointed application.

Layout dimension



unit: mm

	A	B	C	D	E	F	G
PW-300-4DS	3600	3200	2300	3000	1400	1300	2200
PW-600-4D	4300	3700	2200	3500	1500	1700	2700
PW-800-2D	4100	3600	2200	2900	1300	1800	2700
PW-1500	6200	3600	2200	5400	1300	1800	2700

BTA Series

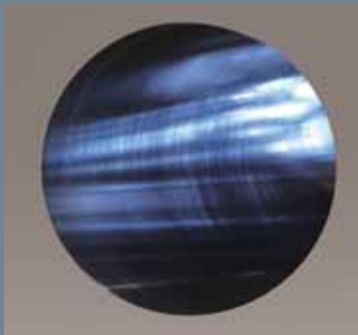
Cutting Show Room



High Speed Train Parts

Raw Part

Machining Section



Chips show the fine finishing cut.

Material **S45C**

Workpiece: Wheel Shaft
for plastic flattening
Machine Model: BTA2500
Drilling Dimension: $\varnothing 60\text{mm} \times \text{L } 2250\text{mm}$
Drill feed rate: **95 mm / min**

Demo Highlight:

Compared to most of conventional turning and other BTA machines with slow parts rotation, **WEI HONG** BTA series provides very **safe operation mode** for deep and medium diameter hole processing in long bar. Tool rotation allows faster velocity and cut feed to reach **fine finishing** and straightness.

Automotive Parts

Raw Part

Machining Section



Workpiece: Gear Shaft
for automotive transmission
Machine Model: BTA500-2D (customized model)
Drilling Dimension: $\varnothing 33\text{mm} \times \text{L } 245\text{mm}$
Drill feed rate: **240 mm / min**

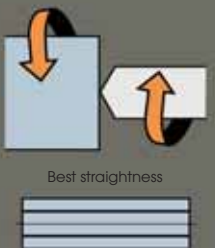
Demo Highlight:

Massive volume auto part manufacturing never stops enhancing productivity. The customer required 90 secs to complete 2 parts, **WEI HONG** specially built BTA with twin spindles to advantage customer's application methods, its cutting results satisfaction by 65 secs for both 2 pieces, particularly in fine surface finishing. Specialized **2 spindles** ease loading and **double the production**.

We Insist Highest Efficiency and Qualified Deep Hole Straightness.

WEI HONG BTA-S Models

Double Rotation

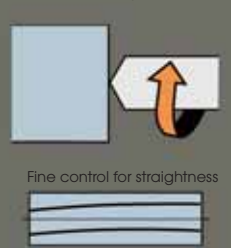


Rotation at Part & Drill

- Double rotation to guide **best drill straightness**
- rapid tooling feed**
- Shortest cycle time** for single piece.
- Recommended for medium weighted parts for massive & precise production.

WEI HONG BTA Models

Rotating drill



Rotation at Drill

- Tool rotation acts **rapid cut feed**
- Heavy parts firmly clamped and stay steadily, even with irregular OD shape. Pre-machining for part OD is not necessary. **Free from run-out concern.**
- Recommended for heavier weighted parts for massive & precise production.

Other Conventional BTA

Rotating heavy workpiece



Rotation at Part

- Holding **unbalance concern** always bothers deep hole drilling. OD turn – BTA – ID turn process takes **complicated load/unload** and **more expense**.
- Heavy part rotation allowed only very **slow speed**.
- Long time operation**, **Accuracy Lost**, **High Handling Cost**

BTA Series



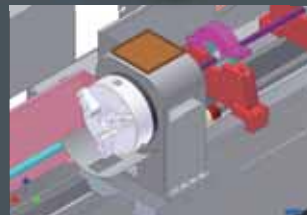
▲ Spindle transmission with **durable gears** made by world class grinding technology are equipped as standard in all BTA models to output **powerful torque**.



▲ Tool shank is fully supported by **spindle type steady rest** (option) as vibration damper, the tool **firmly move forward** in **rapid feed** for precise deep drill.



▲ **WEI HONG** Application Division is capable to organize special **boring and trepanning** for bigger and strict finishing projects.



▲ Fixed-type tool holding block ensure the cutting tool **support rigidity** and allows **high coolant pressure** supply to activate **strong chip removable capability**.

BTA Series Specification

*Black lines for metric *Blue lines for inch

Model		BTA-2000	BTA-2500	BTA-3000
Drilling capacity	Diameter (STD)	Ø 30 - 120mm / Ø 1.2 - 48"		
	Diameter (OPT)	Ø 30 - 150mm / Ø 1.2 - 60"		
	Depth	2000mm / 80"	2500mm / 100"	3000mm / 120"
Spindle	Spindle Motor	37.5 kW / 50HP		
	Spindle Speed	10 - 1200rpm, 2 steps (STD) 10 - 950rpm, 4 steps (OPT)		
Parts Holding	3-jaw Chuck	16" manual (STD) 20" manual (OPT)		
Tavel	Z axis	2650mm / 104"	3700mm / 146"	4750mm / 187"
Controller		Mitsubishi / Fanuc		

* All specification subject to change without notice.

BTA-S Series Specification

*Black lines for metric *Blue lines for inch

Model		BTA-2000S	BTA-3000S	BTA-4000S	BTA-5000S	BTA-6000S
Drilling capacity	Diameter (STD)	Ø 30 - 120mm / Ø 1.2 - 48"			Ø 30 - 150mm / Ø 1.2 - 6"	
	Diameter (OPT)	Ø 30 - 150mm / Ø 1.2" - 6"			N/A	
	Depth	2000mm / 80"	3000mm / 120"	4000mm / 160"	5000mm / 200"	6000mm / 240"
Spindle	Main Spindle Motor (for tool)	37.5kW / 50HP				
	Main Spindle Speed (for tool)	10 - 1200rpm, 2 steps (STD) 10 - 950rpm, 4 steps (OPT)			10 - 950rpm, 4 steps	
	Sub Spindle Motor (for part)	26kW / 35HP				
	Sub Spindle Speed (for part)	10 - 200rpm, stepless				
Parts Holding	3-jaw Chuck	16" manual (STD) 20" manual (OPT)			20" manual	
Tavel	Z axis	3700mm / 146"	4750mm / 187"	5800mm / 228"	7000mm / 280"	8000mm / 320"
Controller		Mitsubishi / Fanuc				

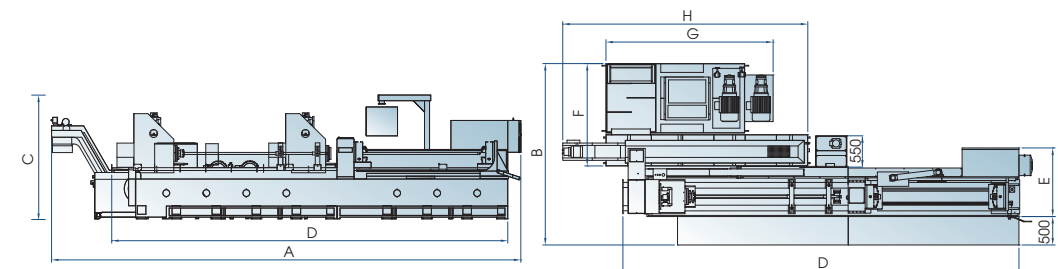
* All specification subject to change without notice.

* Customized spindle numbers are available according to appointed application.

Layout dimension

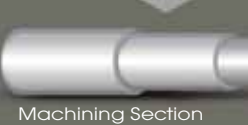
unit: mm

	A	B	C	D	E	F	G	H
BTA-2000	8300	3200	2200	6700	1200	1800	3000	4400
BTA-2500	10300	3200	2200	8700	1200	1800	3000	5100
BTA-3000	11300	3200	2200	9700	1200	1800	3000	6400
BTA-2000S	11300	3200	2200	9700	1200	1800	3000	5400
BTA-3000S	12300	3200	2200	10700	1200	1800	3000	6400
BTA-4000S	14300	3200	2200	12700	1200	1800	3000	7400
BTA-5000S	16300	3200	2200	14700	1200	1800	3000	8400
BTA-6000S	18300	3200	2200	16700	1200	1800	3000	9400



TPA Series Cutting Show Room

Mechanism Spindle Parts



OD 400mm / ID 250mm
applied for spindle sleeve,
bearing ring



OD 223mm / ID 120mm
applied for smaller sleeve or
others



OD 93mm
applied for spindle shaft or
others rods



Use all materials served in different purposes



chips from
powerful
trepanning

Workpiece:

Sleeve and Shaft
for mechanism spindle

Machine Model:

TPA1200

Drilling Dimension:

Ø250mm* L1200mm

Cycle Time Saved:

96%

(compared from 1hr to original 32hr process)

Demo Highlight: Shorter cycle, environmental and more income! WEI HONG TPA is the most admired model to process sleeve jobs. Compared to long- winded operation and repeating load / unload by turning center, TPA accomplishes sleeve ID by once drill. Instead of waste disposal in conventional turning solution, the core materials stay for other shaft or rod usage.

Productivity Comparison

WEI HONG
TPA series

turning center



1 hour =



Finished part



Rest material used for other part



Higher Efficiency!



Extra Income!



32 hours =



Finished part



Poor Productivity!

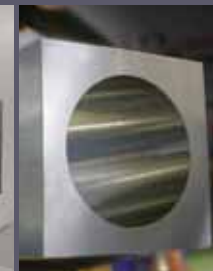


Paying add to store more materials.

Mechanism Cylinder Parts



Machining Section



Workpiece:

Cylinder Housing
for hydraulic cylinder

Machine Model:

TPA600

Drilling Dimension:

Ø120mm* L 240mm

Chip Removable:

1400%

(compared to conventional milling processing for off- center hole)

Demo Highlight: Big blind holes with irregular shape or off- center parts are normally operated by slow step- milling. The solid drill application on Wei Hong TPA series machines cut faster and remain better surface accuracy for to ease next boring procedure while necessary.

Effectiveness Comparison

WEI HONG
TPA series

Normal machining center



4 min =

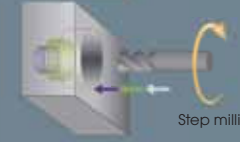
Finished part



Efficient Production!
Effective Competition!



40
60 min =



Step milling



Loosing competition!



TPA Series



▲ Tool rotation system provides **safety operation** and achieves optimum **higher cut feedrate**. Flexible to adapt various irregular shape parts and off-center hole processing, **free from balance gravity bother**.



▲ **WEI HONG Application Division** seizes the technology to design and produce trepanning tools.



▲ **Enlarged chip disposal space** built inside of machine. Chip conveyor lay in casting base and remove chips smoothly. (2 chip conveyors equipped for TPA1200)



▲ High pressure coolant system ease chips removable. **Ultra large capacity** coolant tank along with **paper filtration** is standard feature.

TPA Series Specification

*Black lines for metric *Blue lines for inch

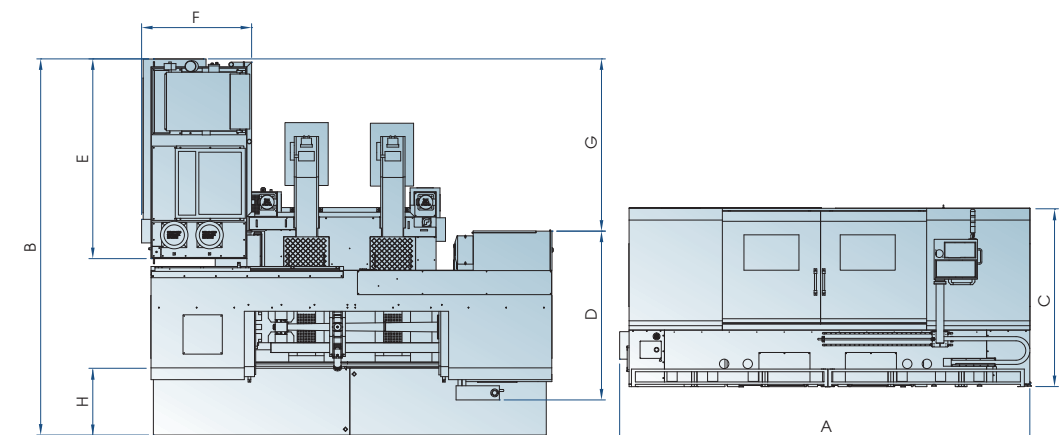
Model		TPA-600	TPA-1200
Drilling capacity	Diameter (Blind hole)	Ø 120mm / Ø 4.7"	Ø 150mm / Ø 6"
	Diameter (Core-stay)	Ø 250mm / Ø 10"	Ø 300mm / Ø 12"
	Depth (Unilateral)	300mm / 12"	600mm / 24"
	Depth (Bilateral)	600mm / 24"	1200mm / 48"
Spindle	Spindle Motor	37.5kW / 50HP	
	Spindle Speed	10 ~ 950rpm	10 ~ 850rpm
	Spindle Taper	BT50	
Parts Holding	3-jaw Chuck	Standard: 18" Optional: 21"	Standard: 21" Optional: 24"
	Steady Rest	Ø 100 - 400mm / Ø 4" - 16"	Ø 100 - 400mm / Ø 4" - 16" (STD) Ø 400 - 600mm / Ø 16 - 24" (OPT)
Tavel	Z axis	1200mm / 48"	2300mm / 90"
Controller		Mitsubishi / Fanuc	

* All specification subject to change without notice.

Layout dimension

unit: mm

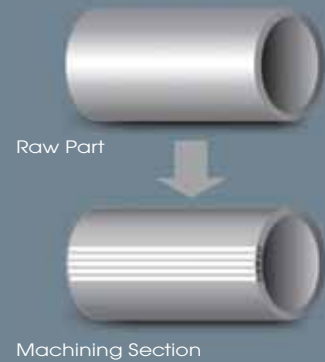
	A	B	C	D	E	F	G	H
TPA-600	3400	2800	2400	1700	1300	2000	1300	500
TPA-1200	5200	5000	2300	2500	2200	1400	2200	850



FEB Series Cutting Show Room



Mechanism Part



Workpiece: Giant Roller
for mechanism part

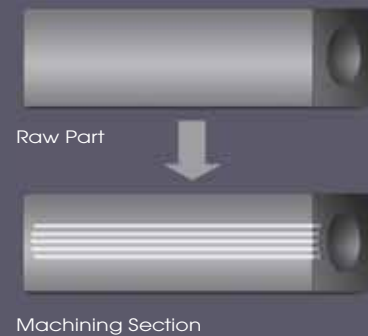
Machine Model: FEB-5050

Drilling Dimension: $\varnothing 16\text{mm} * L1750\text{mm}$
connected drill from 2 sides

Drill L/d ratio: **110 times** (for unilateral drill)

Demo Highlight:
WEI HONG FEB-5050 presents **excellent loading** and **dampener capability** for deep drill recoil force. The total hole depth 3500mm for 2-sided drill in wide gap L/d ratio 110 times and thin pitch only 18mm from hole to hole become very tough engineering. Spending for more then 10 months in many other methods, customer fulfilled the successful cut presentation by **WEI HONG** FEB-5050.

Mechanism Part



Workpiece: Extension Ram
for vertical turning lathe mechanism

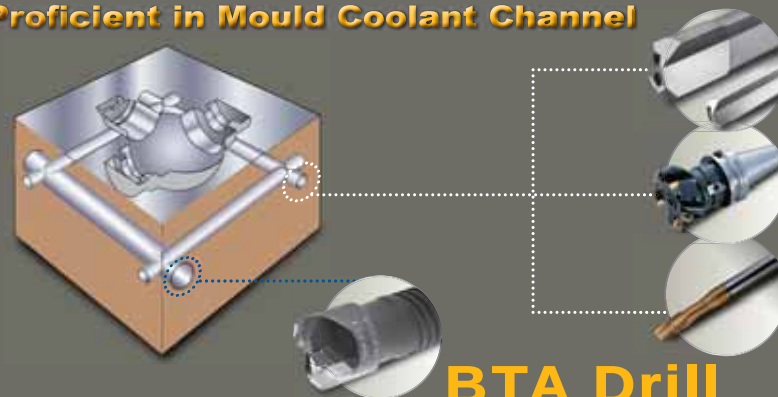
Machine Model: FEB-5050

Drilling Dimension: $\varnothing 19\text{mm} * L3600\text{mm}$

Drill L/d ratio: **190 times** (for unilateral drill)

Demo Highlight:
This is a high precision huge ram to hold power tooling spindle for vertical turning lathe. The raw part comed with bumpy surface which caused the risky tooling vibration while drilling. **WEI HONG** FEB exerted **milling attachment** to machine contact datum for tool bush and cutting surface, then accomplished all 9 deep holes drilling at once. **Once loading** and **all process passed**.

Proficient in Mould Coolant Channel



Gun Drill
+
Milling
+
Tapping

BTA Drill



Automotive mould as illustrated

All-in-One



FEB-5050

FEB Series



FEB5050 Specification

*Black lines for metric *Blue lines for inch

Model		Gundrill System	BTA System	Milling System
Drilling capacity	Diameter	Ø 4 - 40mm / Ø 0.16 - 1.6"	Ø 30 - 100mm / Ø 1.2 - 4"	–
	Depth	5000mm / 197"	4000mm / 157"	–
Spindle	Spindle Motor	11kW / 15HP	37.5kW / 50HP	11kW / 15HP
	Spindle Speed	10 - 6000rpm	10 - 1200rpm	50 - 4000rpm
	Spindle Taper	–	–	BT40
Parts Holding	Working Table	6000mm * 4800mm / 236" * 189"		
	Table Loading	50000kgs / 110000lb		
Tavel	X axis	5000mm / 197"		
	Y axis	2000mm / 80"		
	Z axis	5300mm / 209"		–
	W axis	–		400mm / 16"
Rapid Feed	X axis	4m/min / 157ipm		
	Y axis	4m/min / 157ipm		
	Z axis	8m/min / 314ipm		–
	W axis	–		10m/min / 390ipm
Controller		Mitsubhishi / Fanuc		

* All specification subject to change without notice.



▲ All the casting are constructed in **strong ribs** interlaced to perform **superior cutting rigidity** for heavy duty jobs.

▲ Combine **gundrilling**, **BTA** configuration and **milling / tapping** system multiple functions provide total solution, especially for deep connected coolant channel for giant mould or huge mechanism components.



▲ Enlarge working table design provides **solid support as a rock**, heavy large parts stay on FEB fixed loading table (foundation required).



▲ Table supportive bracket are fully foundry in tight ribs constructed. The whole casting bracket will be **built-in concrete foundation** to bear heavy loading.



▲ Specialized coolant system provides powerful support for long time machining.