UNION MT
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A Superior World Class Machine Tool Manufacturer

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Company Mission

Mission An integrated enterprise providing customer solutions of world class products and efficiency service in their value chains with substantial and lasting gains.
Vision Happy enterprise to satisfy customer, company, employee and community.
Goal Being recognized as a world class company and last for hundreds.

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Company Values

4S: Happy customer, Happy employee, Happy shareholder and Happy society

Company Value

Customer Focus Striving to meet customer's demand and expectation, develop mutual and close benefit relation.

Lead Edge Advantage Step the edges of quality, technology, sales & marketing, management, manufacturing and etc.

Innovation The basis of success, encourage to challenge new technology and develop new methodology.

Employee Value

Teamwork Mutual trust, close support and help one another

Passion Value added on company and image.

Integrity Do the right things to develop business in order to bring the success of individual and company.

Accountability Responsible for due diligence and assure the complete responsibility.

Company Profile

About us

More than building machine tools, we care your investment on efficiency, productivity and requirements.

We develop machines and turn key solutions to suit your specific demands. In the meantime, offers expert capability and support for machining and automation application. Company strategy emphasizes offering the most updated, efficiency and high quality machines and service for global markets.

All the key managing members have over several decades of experiences in the fields of operations, sales, service and engineering.
President Paul Ling was Hardinge Taiwan major shareholder, managing director and one of key founders.
He also served as VP for Hardinge Asia Supply Plant.

We have good and strong strategic partners, consociation distribution channels and suppliers in machine tool business.

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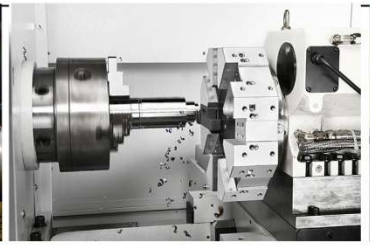
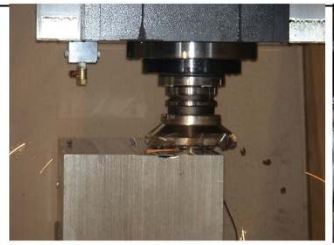
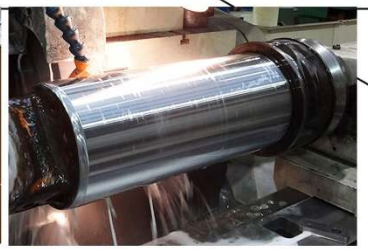
國合科技

union MechaTronic



Current Products

Transmission Gearbox

CNC Oil Country Lathe

CNC Multitask Large Lathe

Product Map

Incoming Products

CNC Grinder

CNC Machining Center

CNC Series Lathe

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Global experienced team in strategy, operation, engineering, quality and service excellence.

Customer focus with passion team work to satisfy the demands.

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CORE TECHNOLOGIES

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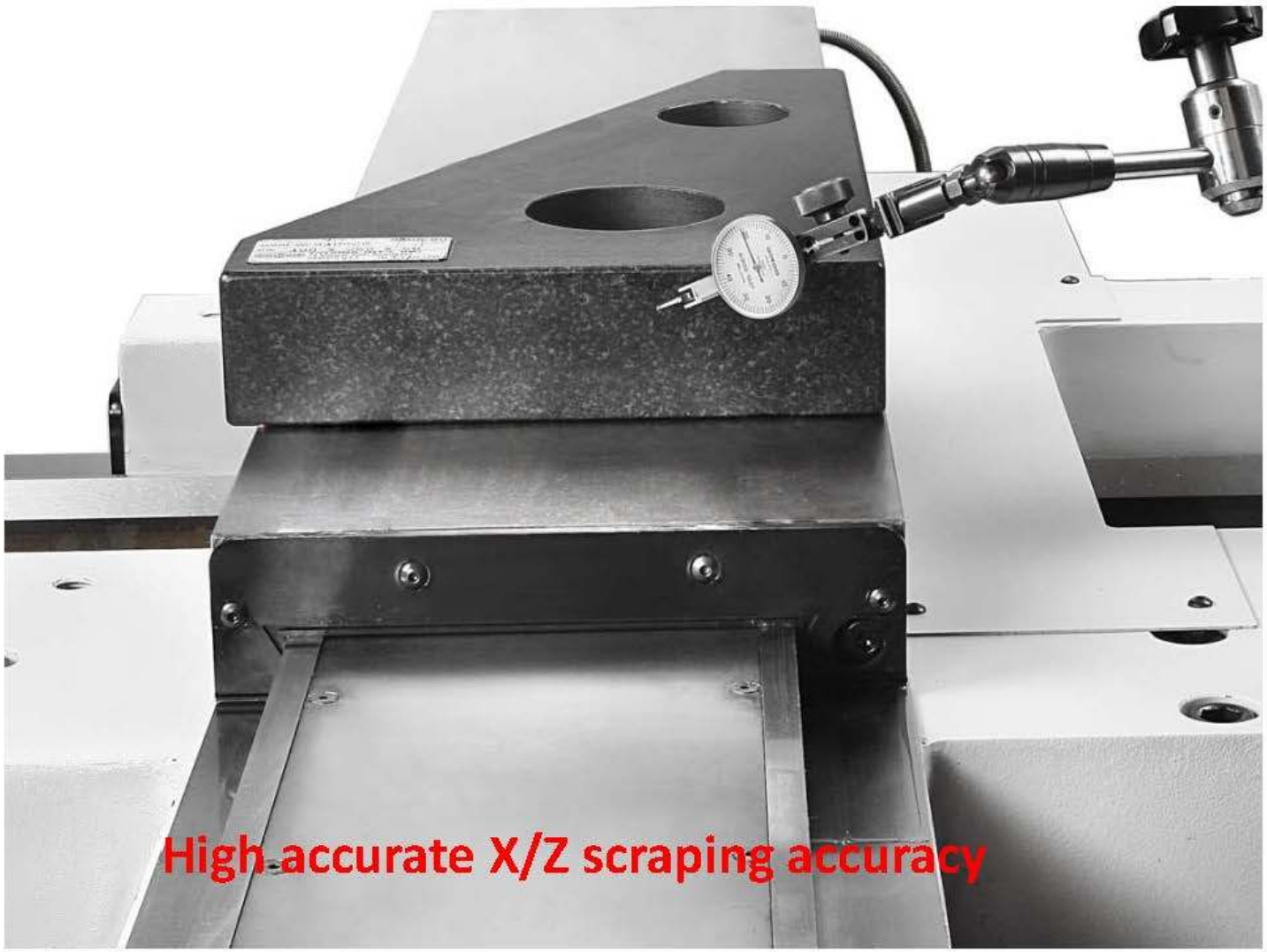

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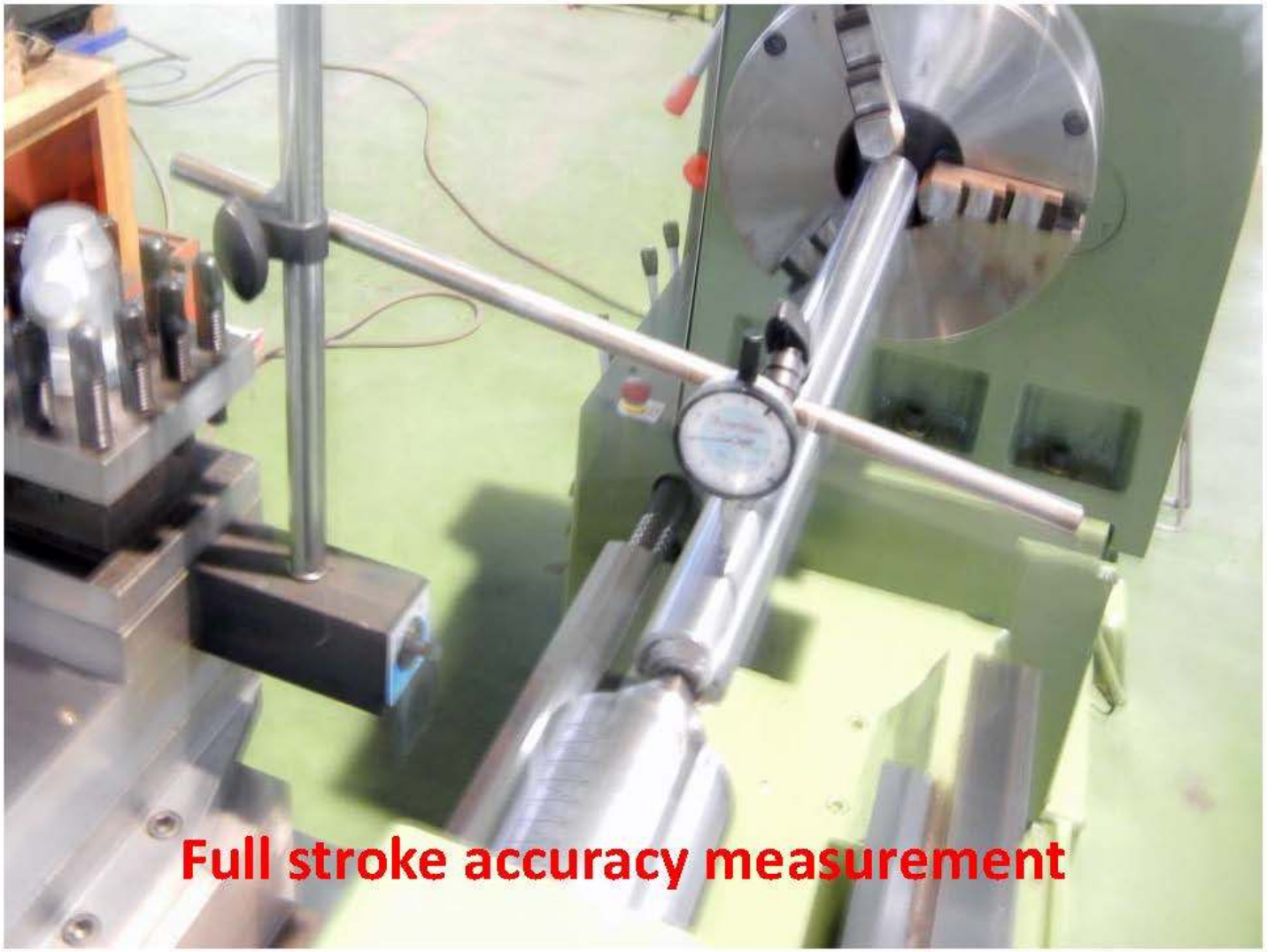

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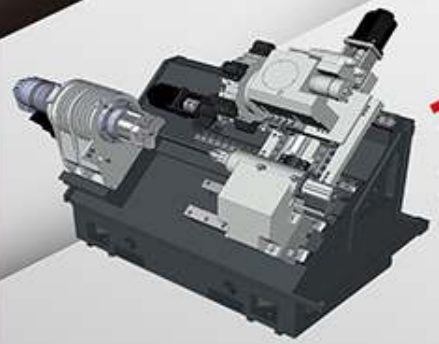

CNC Turning Center High Speed SL Series

- Leads you optimal performance through high rigidity linear guide and superb cutting efficiency.
- SL series range SL1500/2000/2500/3000 meet your demand.
- Equipped with variety optional, such as live tooling turret, Y-axis, load/unload and sub-spindle to work on turning, milling, drilling and automation tasks at the same time increase the machining capacity.

CNC Turning Center Heavy Duty SC Series

- Brings you optimal performance through high rigidity box way and maximum cutting capability.
- SC 2000/2500/3000/4000/5000/6000/8000 series range meet you demand.
- With turning diameter Ø1020 mm still fits into 40' HQ container save your transportation cost.

TITAN and TITAN CNC Heavy Duty Lathe Series

- One piece bed and base design together with three points spindle bearing layout, provides heavy duty and hard turning for metal cutting industry.
- Distance between centers 2 to 16 m and swing over bed 830 to 1800 mm are specified to your demand.
- Customized specifictions are available.

TITAN and Titan CNC Oil Country Lathe Series

- One piece bed and base design, feature the large spindle bore (Ø6", 9", 12", 15", 18").
- Better threading, cutting capability and dual chucks application for long pipes or flanges to use in the oil, gas and machinery industry.

PRODUCTS

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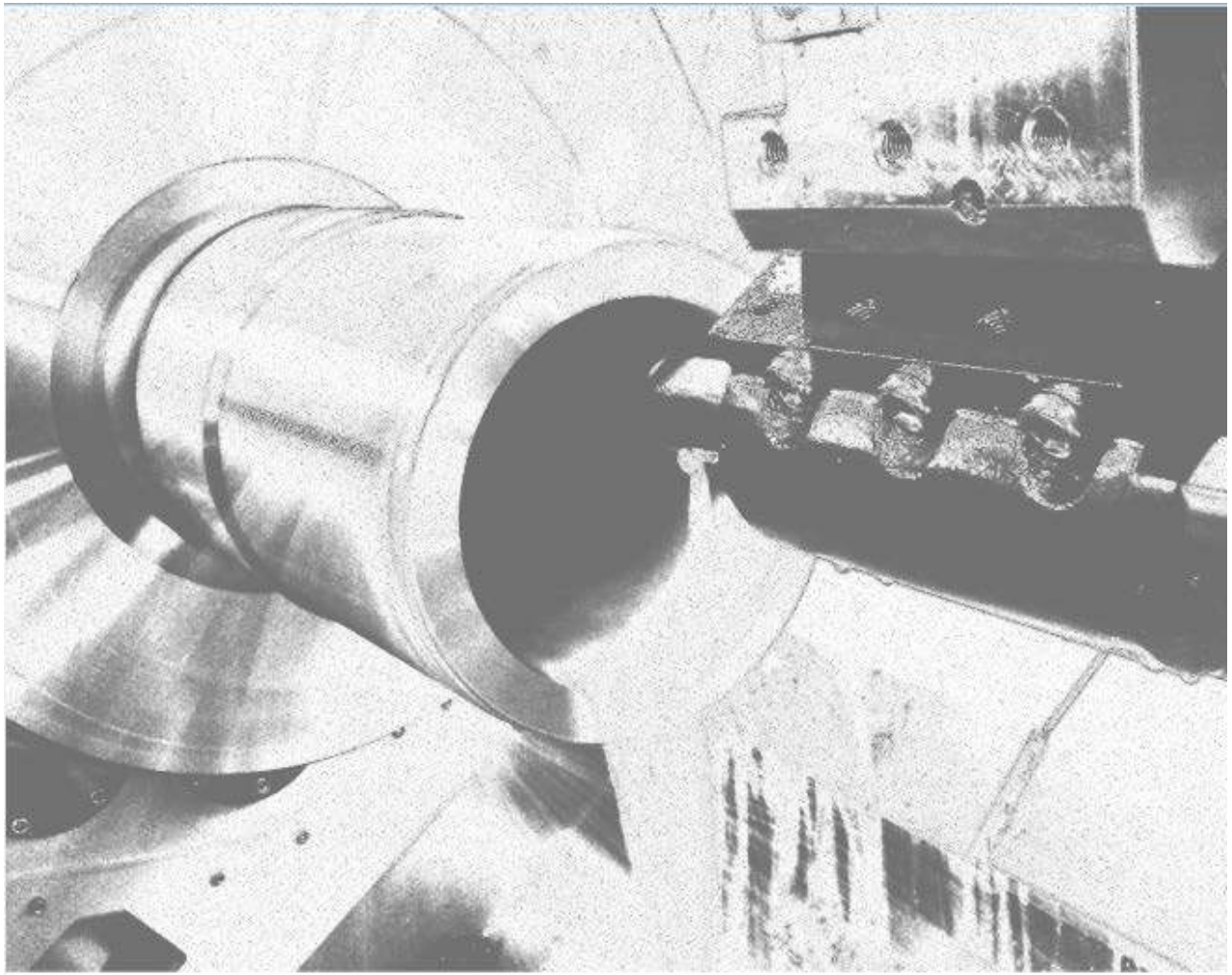

SC 8000 Series

CNC Horizontal Turning Center

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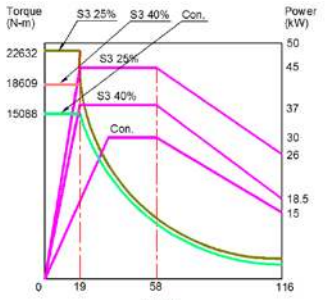
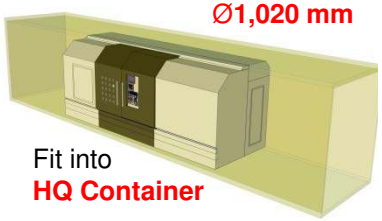
Difference Begins From Concepts

CAPACITY	SC 8010	SC 8020	SC 8030	SC 8040
Max. swing diameter	1100 mm (43.31")			
Swing over saddle	1020 mm (40.16")			
Max. turning diameter	1020 mm (40.16")			
Max. turning length	1020 mm (40.16")	2020mm (79.53")	3020 mm (118.90")	4020 mm (158.27")
Chuck size	18" (Optional 20" / 21" / 24" / 32")			
SPINDLE				
Spindle nose	A2-11 (Optional A2-15 / A2-20)			
Hole through spindle	A2-11 160 (6.30") / A2-15 205 (8.07") 230 (9.06") / A2-20 305 (12.01") 360 (14.17")			
Spindle motor peak power	37 kW (50 HP)			
Spindle peak torque	22632 Nm @19 rpm S3 25%			
X & Z AXIS				
X axis travel	540 mm (21.26")			
Z axis travel	1120 mm (44.09")	2120mm (83.46")	3120 mm (122.83")	4120 mm (162.20")
X axis rapids	12 m/min. (472 ipm)			
Z axis rapids	16 m/min. (630 ipm)			
X axis servo motor	X axis 9 kW (12 HP)			
Z axis servo motor	Z axis 5.5 kW (7.4 /HP)			
Slide way type	Box Way			
TURRET				
Turret type	Servo drive 12 stations			
Square tool shank size	40 mm (1.57")			
Boring tool shank size	80 mm (3.15")			
TAILSTOCK				
Quill center taper	MT #6			
Quill diameter / travel	200 mm (7.87") / 210 mm (8.27")			
Tailstock base travel	800 mm (31.50")	1800mm (70.87")	2800 mm (110.24")	3800 mm (149.61")





Rigid Bed and Base

- Enhanced one piece base and bed structure assure excellent rigidity for heavy duty and precision turning.
- Well hardened, precision ground bed ways and wider guide span feature machine stability and longevity.

Heavyduty and Big Bore Spindle

- Well designed bearing layout of spindle with taper roller bearings and four steps spindle speed ranges ensure heavy duty cutting performance, maximum torque 22632 Nm.
- Spindle big bore capability provide from 6"/8"/9"/12"/14" for versatile cutting conditions.

Workholding Capability

- More workholding options as air, hydraulic and rear manual chuck options provide long workpieces machining capability.
- Friendly access load and unload long workpiece for more efficiency.

Turret Application

- Servo 12-station turret, with wider tool disc width 220 mm, 750 mm assure heavy cutting capability; VDI 50/ BMT 75 live tooling turret are available for different machining applications.
- Robust boring bar Ø 80 mm for larger drilling capability.

Robust Tailstock

- Robust tailstock structure with MT#6 taper provide heavy-duty cutting and drilling capability.
- Programmable tailstock, live quill, hydraulic steady rest are available options.

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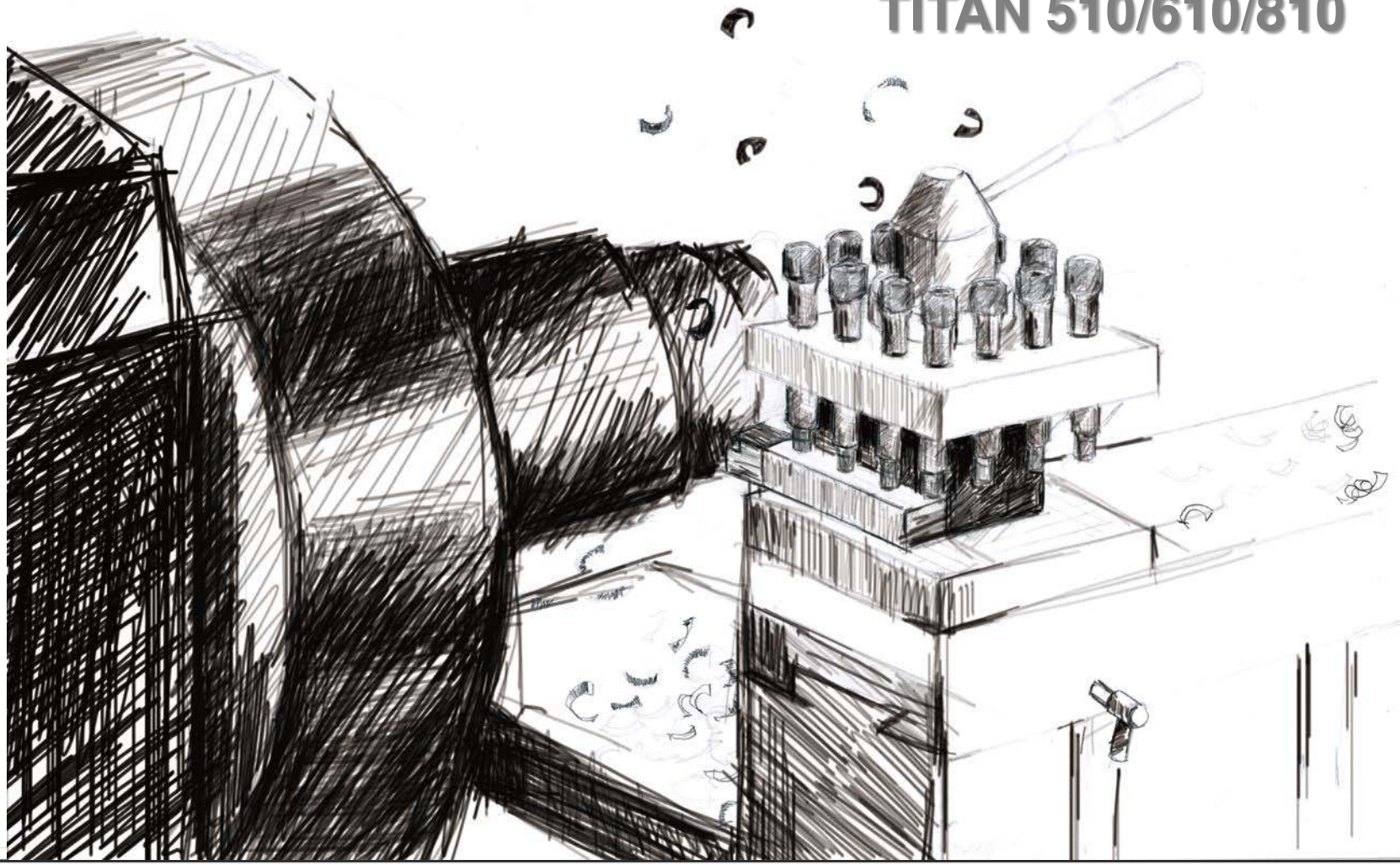
BIG BORE SERIES
TITAN 510/610/810



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Design Feature

Big Bore Spindle

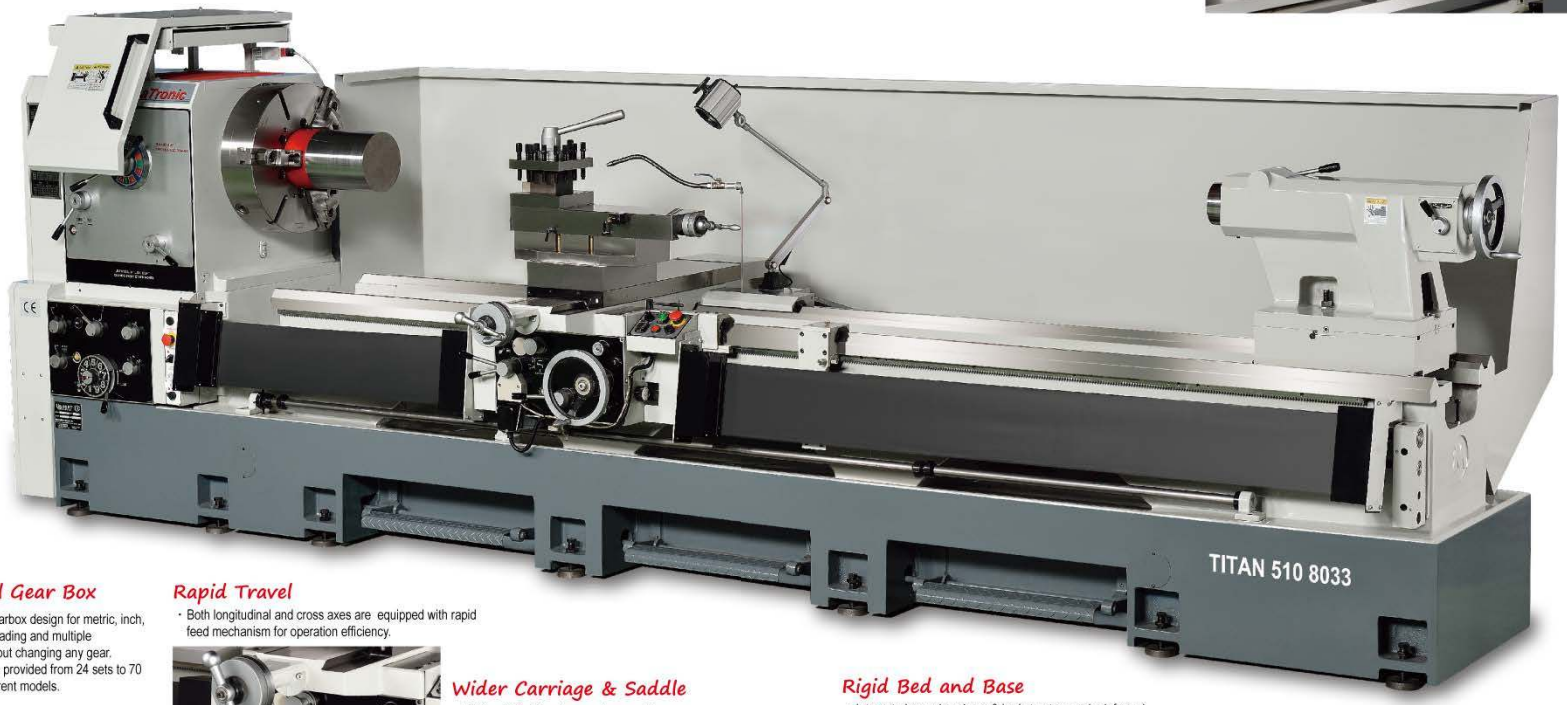
- Three points bearing layout of spindle with taper roller bearings and 12 or 16 steps spindle speed ranges ensure heavy duty cutting performance.
- Spindle big bore capability provide from 6"/8"/9"/10"/12"/15"/18" for versatile cutting conditions.

Rigid Headstock

- Symmetrical headstock & enhanced ribs increase rigidity and reduce thermal displacement.
- Spindle, gears and shafts are made of steel alloy and carburized heat treatment for longevity.

Robust Tailstock

- Robust tailstock structure with MT#6 or MT#7 quill provide heavy-duty cutting and drilling capability.
- Easy & smooth tailstock travelling through cam followers or rack mechanism.
- Two speed range of Titan 610/810 tailstock for operation efficiency.



Universal Gear Box

- Universal gearbox design for metric, inch, DP, MP, threading and multiple threads without changing any gear.
- Multi threads provided from 24 sets to 70 sets by different models.

Rapid Travel

- Both longitudinal and cross axes are equipped with rapid feed mechanism for operation efficiency.

Wider Carriage & Saddle

- Wider width of carriage and cross slide assure contact area ratio to increase cutting stiffness and moving longevity.
- The supplement carriage slide provide heavy duty cutting capability for Titan 610/810.

Rigid Bed and Base

- Integrated one piece base & bed structure and reinforced design ribs assure excellent rigidity and superb dampening capability for heavy duty and fine turning.
- Hardened and precision ground bed ways and wider bed width 510/610/810mm feature machine stability and longevity.

Please notic some specifications, accessories, pictures, appearances and etc. are optional accessories according to different model.

Quality is Our Culture

- Smart and complete inspection procedures bring you the consistency machine in trust!
- Spindle run-in procedures assure the smooth gear shifts, gear rotating, spindle running and stable temperature control.
- Dynamic balancing on machine inspection for extending spindle, bearings and gears longevity.

Cutting is Our Talent

- Big bore and large size parts applications for oil, energy, hydraulic and shipbuilding industries.
- Heavy duty cutting & efficiency chip removal capacity.
- Machining Rate Per Minute is 761.8 mL /min for Titan810.

Model	Titan 810	Titan 610	Titan 510
Material	JIS S45C	JIS S45C	JIS S45C
Part Size	Ø 292 x 200	Ø 273 x 200	Ø 200 x 200
Spindle Speed	173 rpm	119 rpm	270 rpm
Feed Rate	0.48 mm/rev	0.60 mm/rev	0.4 mm/rev
Cut Depth	10 mm	10 mm	8 mm
Machining Rate	761.8 mL/min	612.4 mL/min	542.9 mL/min

The cutting results indicated in this catalog are examples that would not be obtained due to in different cutting settings, environmental conditions, product configuration and measurement.

Precision is Our Nature

- Geometry accuracy aligning control within our own strict world class standard.
- Squareness accuracy between X and Z axis is within 0.01mm.
- Noise control guarantee to meet human health and comfortable.

No	Group	ITEM / MODEL	TITAN "810" SERIES 1400	TITAN "810" SERIES 1600	TITAN "810" SERIES 1800	TITAN "610" SERIES 1170	TITAN "610" SERIES 1270	TITAN "610" SERIES 1370	TITAN "510" SERIES 860	TITAN "510" SERIES 960	TITAN "510" SERIES 1060
1	Capacity	Center Height	1385 mm 54.53"	1485 mm 58.46"	1585 mm 62.40"	1270 mm 50.00"	1320 mm 51.97"	1370 mm 53.94"	1180 mm 46.46"	1230 mm 48.43"	1280 mm 50.39"
2		Distance Between Centers	2000 / 3000 / 4000 / 5000 / 6000 / 7000 / 8000 / 9000 / 10000 / 11000 / 12000 mm 78.74"/118.11"/157.48"/196.85"/236.22"/275.59"/314.96"/354.33"/393.70"/433.07"/472.44"			1500/ 2000/ 3000 / 4000/ 5000 / 6000/ 7000/ 8000 mm 59.06"/78.74"/118.11"/157.48"/196.85"/236.22"/275.59"/314.96"			1800 / 2300/ 3300 / 4300/ 5300 / 6300/ 7300/ 8300 mm 70.87"/90.55"/129.92"/169.29"/208.66"/248.03"/287.40"/326.77"		
3		Swing Over Bed	1400 mm 55.12"	1600 mm 62.99"	1800 mm 70.87"	1170 mm 46.06"	1270 mm 50.00"	1370 mm 53.94"	860 mm 33.86"	960 mm 37.80"	1060 mm 41.73"
4		Swing Over Cross Slide	990 mm 38.98"	1190 mm 46.85"	1390 mm 54.72"	860 mm 33.86"	960 mm 37.8"	1060 mm 41.73"	620 mm 24.41"	720 mm 28.35"	820 mm 32.28"
5		Swing Over Gap	1680 mm 66.14"	1880 mm 74.02"	2080 mm 81.89"	1600 mm 62.99"	1700 mm 66.93"	1800 mm 70.87"	1000 mm 39.37"	1100 mm 43.31"	1200 mm 47.24"
6		Width of Bed	810 mm 31.89"			610 mm 24.02"			510 mm 20.08"		
7		Widthe of Gap	784 mm 30.87"			570 mm 22.44"			570 mm 22.44"		
8		Width of Carriage	1000 mm 39.37"			925 mm 36.42"			730 mm 28.74"		
9		Width of Cross Slide	350 mm 13.78"			300 mm 11.81"			280 mm 11.02"		
10		Bed way	2 V Ways and 3 Flat Ways			2 V Ways and 3 Flat Ways			3 V Ways and 1 Flat Way		
11	Spindle	Spindle Bore	160 mm / (205/ 230/ 260/ 305/ 380/ 460 mm Option); 6.30" (8.07"/ 9.06"/ 10.24"/ 12.01"/ 14.96"/ 18.11" Option)			160 mm / (205/ 230/ 260/ 305/ 380/ 460 mm Option); 6.30" (8.07"/ 9.06"/ 10.24"/ 12.01"/ 14.96"/ 18.11" Option)			153 mm 6.02" / (230 mm 9.06" Option)		
12		Spindle Nose	A2-15 / (A2-20 Option)			A2-11 / (A2-15, A2-20 Option)			A2-11 / (A2-15, Option)		
13		Spindle speeds	4- 420 rpm / (7- 266 rpm Option)			4- 420 rpm / (7- 266 rpm Option)			8- 680 rpm / 7-500 rpm		
14		Spindle Speed Range	16 steps			16 steps (12 steps Option)			12 Steps		
15		Spindle Motor	15 kW 20 hp / (22.5 kW 30 hp, 30 kW 40 hp, 37.5 kW 50 hp Option)			15 kW 20 hp / (22.5 kW 30 hp, 30 kW 40 hp, 37.5 kW 50 hp Option)			15 kW 20 hp / (22 kW 30 hp Option)		
16	Feed Mechanism	X Axis Cross Slide Travel	600 mm 23.62"			600 mm 23.62"			510 mm 20.08"		
17		Compound Slide Travel	370 mm 14.57"			370 mm 14.57"			330 mm 12.99"		
18		Z Axis Longitudinal Travel	2000 / 3000 / 4000 / 5000 / 6000 / 7000 / 8000 / 9000 / 10000 / 11000 / 12000 mm 78.74"/118.11"/157.48"/196.85"/236.22"/275.59"/314.96"/354.33"/393.70"/433.07"/472.44"			1500/ 2000/ 3000 / 4000/ 5000 / 6000/ 7000/ 8000 mm 59.06"/78.74"/118.11"/157.48"/196.85"/236.22"/275.59"/314.96"			1800 / 2300/ 3300 / 4300/ 5300 / 6300/ 7300/ 8300 mm 70.87"/90.55"/129.92"/169.29"/208.66"/248.03"/287.40"/326.77"		
19		X Axis Traverse Motor	1 hP (2 hP Option)			1 hP (2 hP Option)			1/4 hp		
20		X / Z Axis Traverse Speed	X: 1.1 m/min 43.31 ipm Z: 2.1 m/min 82.68 ipm			X: 1.1 m/min 43.31 ipm Z: 2.1 m/min 82.68 ipm			X : 1.8 m/min 7.09 ipm Z : 3.8 m/min 14.96 ipm		
21		Square Tool Shank Size	40 mm 1-1/2"			40 mm 1-1/2"			32 mm 1-1/4"		
22		X Axis Cross Feed	0.03 - 3.52 mm/rev			0.03 - 3.52 mm/rev			0.025 - 0.35 mm/rev		
23		Z Axis Longitudinal Feed	0.06 - 7.04 mm/rev			0.06 - 7.04 mm/rev			0.05 - 0.7 mm/rev		
24		Inch Thread	0.25- 30 TPI (70 sets) / D.P. 1-120 TPI (70 sets)			0.25-30 TPI (70 sets) / D.P.1-120 TPI (70 sets)			2-28 TPI (36 sets) / D.P.4-56 TPI (36 sets)		
25		Metric Thread	1-120 mm (62 sets) / M.P. 0.25-30 mm (53 sets)			1-120 mm (62 sets) / M.P.0.25-30 mm (53 sets)			0.8-14 mm (38 sets) / M.P. 0.5-7 mm (24 sets)		
26	Tailstock	Quill Taper	MT #6 (MT#7 Option)			MT #6			MT #6		
27		Quill Diameter	200 mm 7.87"			150 mm 5.91" (200 mm 7.87", Option)			120 mm 4.72"		
28		Quill Travel	305 mm 12.01"			305 mm 12.01"			250 mm 9.84"		
29	Machine Dimension	Weight	13000/ 14100/ 15200/ 16300/ 17400/ 18500/ 19600 kg			7800/ 8300/ 9300/ 10300/ 11300/ 12300/ 13300/ 14300 kg			5700 / 6100 / 6800 / 7600 / 8400 / 9200 / 10000 / 10800 kg		
30		Length	4740/ 5740/ 6740/ 7740/ 8740/ 9740/ 10740/ 11740/ 12740/ 13740/ 14740 mm 186.61"/225.98"/265.35"/304.72"/344.09"/383.46"/422.83"/462.20"/501.57"/540.94"/580.32"			3600/ 4100/ 5100/ 6100/ 7100/ 8100/ 9100/ 10100 mm 141.73"/161.42"/200.79"/240.16"/279.53"/318.90"/358.27"/397.64"			3750 / 4250 / 5250 / 6250 / 7250 / 8250 / 9250 / 10250 mm 147.64"/167.32"/206.69"/246.06"/285.43"/324.80"/364.17"/403.54"		
31		Width	2170 mm 85.43"			2050 mm 80.71"			1740 mm 68.50"		
32		Height	1590 m 62.60"			1540 mm 60.63"			1438 mm 56.61"		

Please be aware the continuous performance improving policy, we have the rights to change specifications, data, options, appearance and etc. without prior notice.

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