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— GLOBAL NETWORK —

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Information presented in this brochure is subject to change without prior notice.

Available machines or machines shown may vary depending on optional equipment or periodic design changes.

The export of products defined as restricted commodities (or technologies) under Japan's "Foreign Exchange and Foreign Trade Act" requires an export license issued by the Japanese Government. Furthermore, similar licenses may be required for re-transfer, re-sale or re-export of such products, therefore please do not fail to contact JTEKT in advance.

In order to observe laws and regulations and prevent inappropriate export, re-sale and relocation, JTEKT has equipped all of our NC machine tools with devices that detect relocation. If this device is activated, the machine will cease operation and will not restart until it has been checked by JTEKT. JTEKT may refuse to restart the machine should it be deemed that such an action would amount to the inappropriate export of a commodity or technology, or violate export regulations. In such a case, JTEKT will not be liable for any damages arising from the refusal to restart machine operation and do not bear any liability to perform services pertaining to product warranty. Please contact your JTEKT representative for details. Always read manuals carefully before using any machinery to ensure safe and proper use.

Type of Machinery: Grinder
Model Number: SelectG7

SelectG7 SERIES Large Cylindrical Grinders

SelectG7-100
SelectG7-250
SelectG7-320
SelectG7-400



The pioneer of large workpiece grinding

High performance machine offering the ultimate in user-friendliness

Large Cylindrical Grinders

SelectG7



Major workpieces

Railway axles, various construction vehicle shafts
Wind-power gear shafts, printing rolls, etc.



Max. distance between centers . . . **4,000mm**

Max. loading mass between centers

SelectG7-100/250/320 **1,500kg**

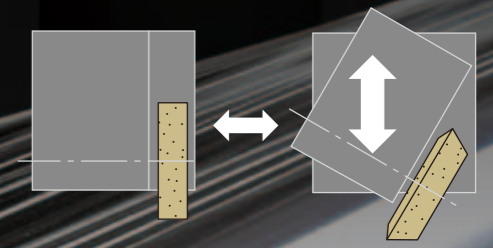
SelectG7-400 **3,000kg**

Max. grinding diameter **φ650mm**

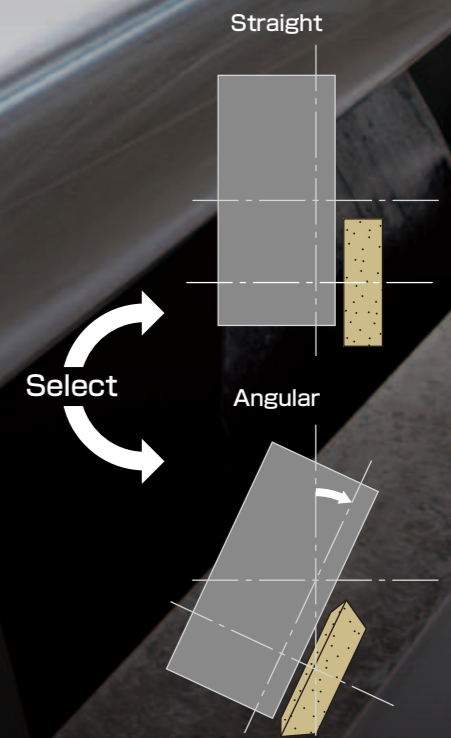
Patent pending for this machine
Photo of a SelectG7-320.
The machine in this photo has exhibition specifications.



■ Featuring an easy to operate angle head/straight slide wheelhead.



■ An economical machine that performs two types of grinding on one unit

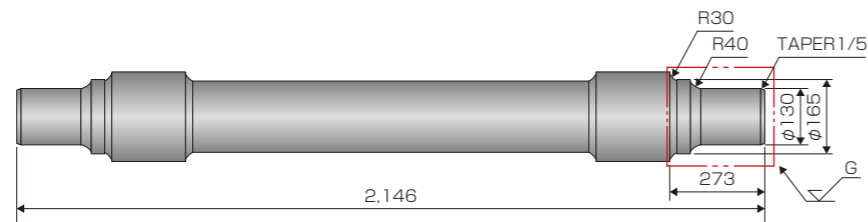


■ Straight grinder/angular grinder
Performing the tasks of 2 machines in 1

Unshakeable technology enabling the high accuracy grinding of large components

Stable high quality grinding

The stable grinding accuracy is what we want you to see



Angular wheel Plunge grinding example

[Grinding machine] SelectG7-320

Grinding conditions
 [Working wheel] 80A60J (φ760)
 [Wheel surface speed] 45m/s

Workpiece
 [Name] Wheel Shaft
 [Material] JIS A0 equivalent

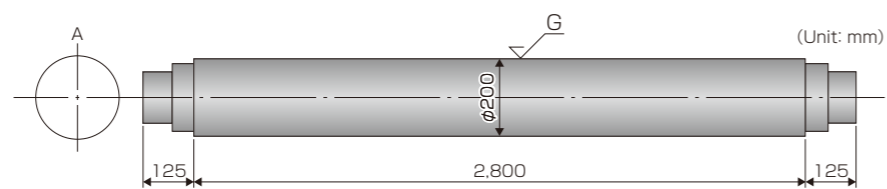
Grinding result
 Cylindricity 2~8μm (Cylindrical portion)
 Runout 0.005~0.008TIR (Cylindrical portion)
 Surface roughness 0.59~0.63μm (Cylindrical portion)
 0.82~0.97μm (Curved section)

An example of traverse grinding

[Grinding machine] SelectG7-320

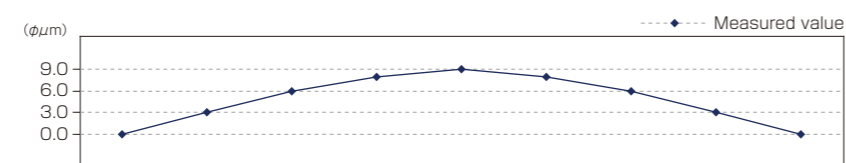
Grinding conditions
 [Working wheel] 3SG80I8VSG-1 (φ760mm)
 [Wheel surface speed] 30m/s

Workpiece
 [Name] Standard test piece
 [Material] SCM435



Cylindricity

	1	2	3	4	5	6	7	8	9
A	0.0	+3.0	+6.0	+8.0	+9.0	+8.0	+6.0	+3.0	0.0
B	0.0	+2.0	+6.0	+7.0	+9.0	+8.0	+5.0	+3.0	0.0



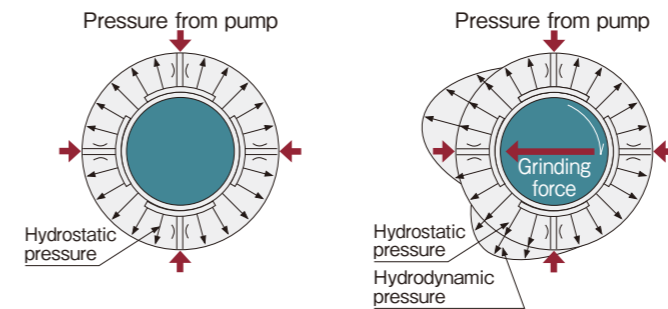
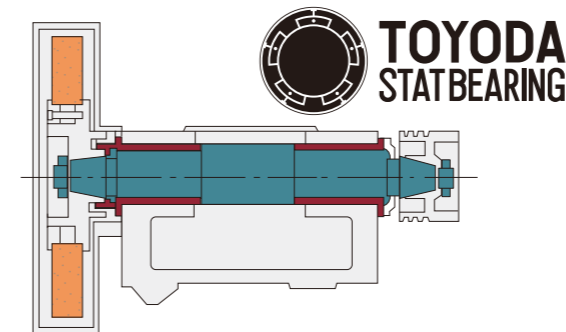
The number of the above is the result that execution of high accuracy scraping (option) and use of foundation bars. Listed values are not guaranteed.

A basic structure boasting high rigidity

High quality and high performance created by original technology

JTEKT's Proprietary TOYODA STAT BEARING

The heart of our wheel spindle is the TOYODA STAT BEARING. This bearing is uniquely designed as a hybrid bearing that combines static and dynamic pressure. Eliminating all metal-to-metal contact in the bearing reduces wear for machining longevity. It also features a highly rigid structure with excellent damping performance, which gives the spindle high rotational accuracy.

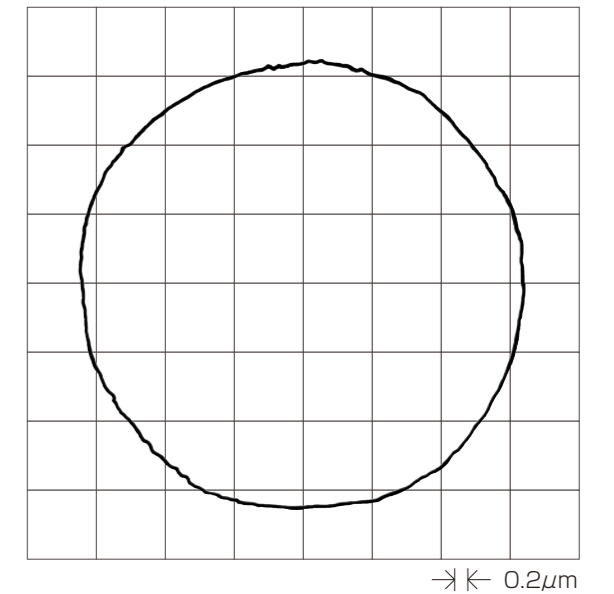


Spindle at rest
 Hydrostatic pressure lifts and holds the wheel spindle firmly at the bearing center position.

Rotation spindle
 Combination of hydrostatic and hydrodynamic pressures improves spindle rigidity and vibration absorbing performance.

Wheel spindle rotational accuracy
0.016μm

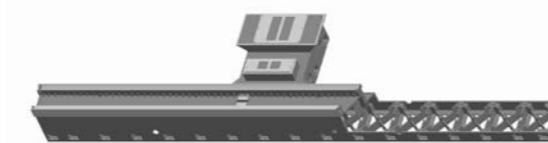
An Example of Lissajou's Figure



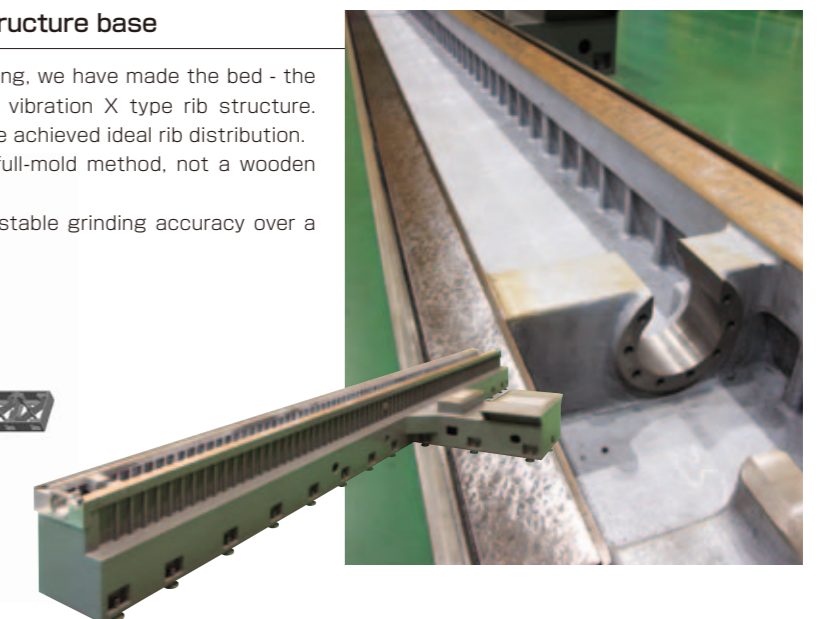
Highly rigid, low vibration X type rib structure base

To achieve long-term stable high accuracy grinding, we have made the bed - the foundation of the machine - a highly rigid, low vibration X type rib structure. Furthermore, through structural analysis, we have achieved ideal rib distribution. Due to X type rib structure characteristics, a full-mold method, not a wooden structure, is adopted.

By adopting this highly rigid, low vibration bed, stable grinding accuracy over a long period of time is possible.



X type rib structure



Unshakeable technology making the high accuracy grinding of large parts a reality

Engineering technology supporting high accuracy

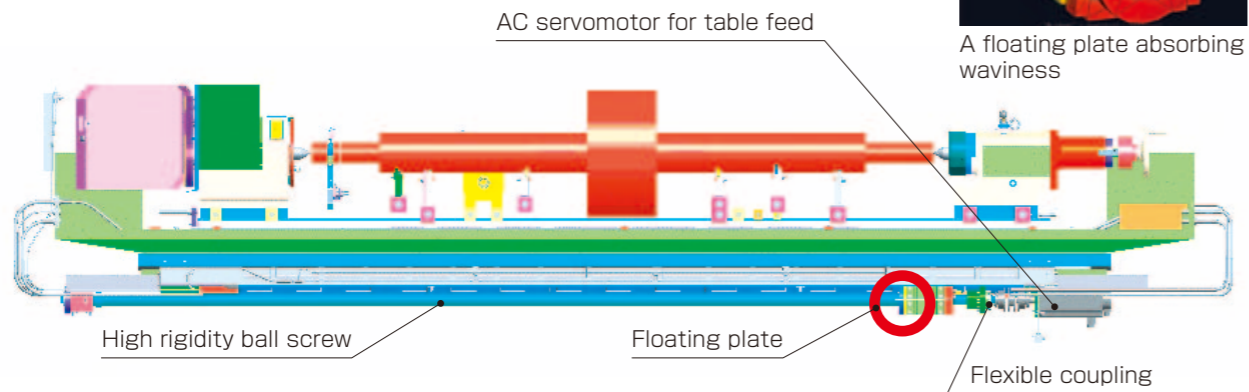
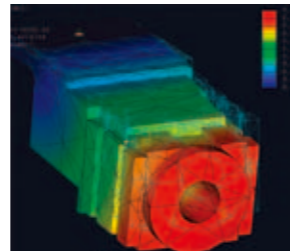
High grade scraping

To ensure that our customers use this machine with peace of mind for a long period of time, 'scraping' of both the wheelhead slide and table slide is performed at the hands of seasoned technicians. By adopting slides which have had "scraping" performed to prevent wear of slide faces with high straightness, we guarantee long-term stable grinding accuracy.



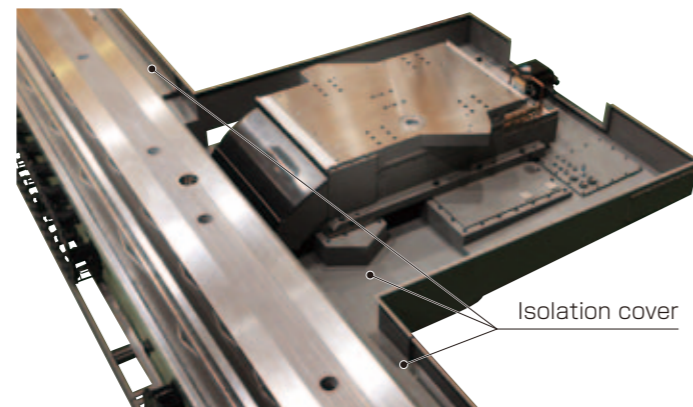
Table feed mechanism eliminating ball screw waviness

For the sake of making stable high accuracy grinding possible over a long period of time, a JTEKT original table feed mechanism is adopted. Straightness and surface texture is improved by not affecting the table with ball screw waviness.



Isolation cover shutting out heat

The isolation cover that reduces heat displacement suppresses deformation of the bed by shutting out coolant, the main source of heat generation in grinders. This makes it possible to maintain stable accuracy over a long period of time.



An abundance of accessories specific to large component grinding

φ760mm ~ φ1,065mm wheel specifications

Option

We have prepared a wheel diameter of φ1,065mm to make the grinding of workpieces with significant swing possible. By using a wheel spindle with an even higher rigidity, machining with a wheel width of 300mm has been made possible.

Max. wheel specifications (wheel dia. × wheel width)

up to φ760mm × 300mm

up to φ915mm × 250mm

up to φ1,065mm × 200mm (straight only)



Example of φ915mm wheel

1,500kg workpiece mass specifications Object: SelectG7-100/250/320

We have prepared a workhead and tailstock able to accommodate a workpiece mass of 1,500kg, making the grinding of heavy workpieces possible.



* The workhead and footstock supporting 3,000kg workpiece are available for SelectG7.

Tailstock movement made easy with pneumatics

Option

We have provided a pneumatic system to make movement of the tailstock at set-up easy, thereby alleviating the burden on operators. This feature not only makes the work easy, but also reduces the amount of wear on the table top.

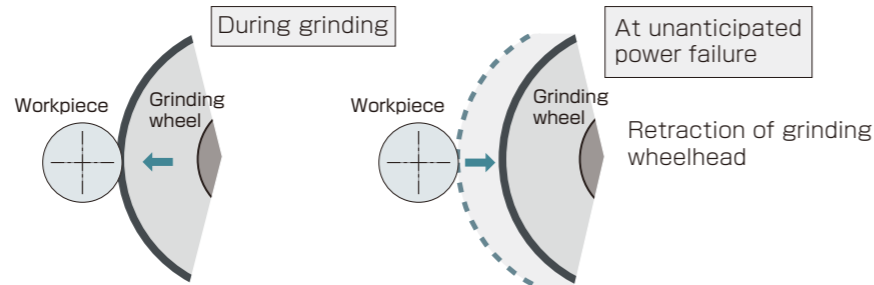


Reassuring operation

Improved reliability with TOYOPUC-GC70.

Protection against grinding wheel damage during power failure

The grinding wheel is separated from the workpiece if a power failure is detected, thereby protecting against grinding wheel damage.



Perfected guidance function

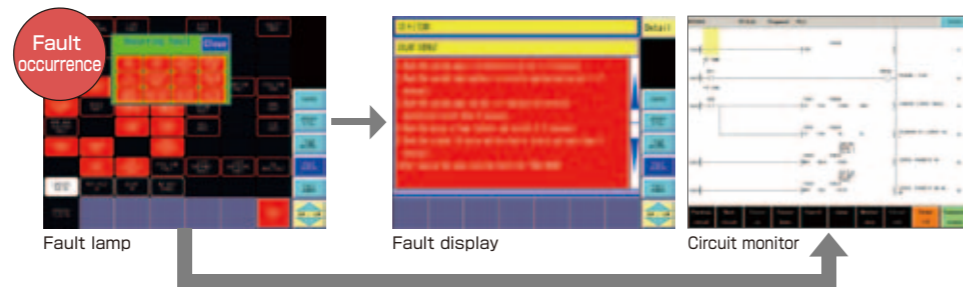
Setup change, maintenance details, input data explanation, etc. can be easily understood from the graphical operation screen, and operations can be carried out smoothly.



Position memory screen

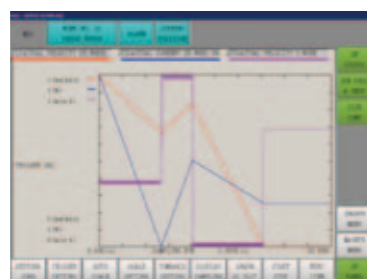
Simple fault diagnostics

Fault locations are diagnosed directly on the CNC screen from the error display and the circuit monitor.



Perfected preventative maintenance support function

Defective workpieces and machine malfunctions can be discovered early by comparing normal values sampled from electrical current, position deviations, speed data, etc.



Cycle patterns

Grinding cycle / wheel dressing cycle

	Grinding cycle	Wheel dressing cycle	
Angular wheel	 1. Plunge grinding with direct auto-sizing 2. Plunge grinding with indirect auto-sizing	 Curve wheel End taper (option) Point input (option) *2 (15 points or less)	
	 3. Plunge traverse grinding with direct auto-sizing 4. Plunge traverse grinding with indirect auto-sizing		
	 5. Plunge and shoulder grinding with direct auto-sizing 6. Plunge and shoulder grinding with indirect auto-sizing		
	 7. Plunge traverse and shoulder grinding with direct auto-sizing 8. Plunge traverse and shoulder grinding with indirect auto-sizing		
	 9. Plunge and curve (shoulder) grinding with direct auto-sizing (option) *1 10. Plunge and curve (shoulder) grinding with indirect auto-sizing (option) *1		
	 11. Plunge traverse and curve (shoulder) grinding with direct auto-sizing *1 12. Plunge traverse and curve (shoulder) grinding with indirect auto-sizing *1		
	 13. Taper plunge (right) grinding (option) *1		
	 14. Taper plunge traverse (right) grinding (option) *1		
	 1. Plunge grinding with direct auto-sizing 2. Plunge grinding with indirect auto-sizing		 Straight plane type Left curved convex type
	 3. Plunge traverse grinding with direct auto-sizing 4. Plunge traverse grinding with indirect auto-sizing		 Left side taper (option) Left curve (option)
	 5. Right end		 Point input (option) *2 (15 points or less)
	 6. Taper plunge (right) grinding (option) *1		
	 7. Taper plunge traverse (right) grinding (option) *1		

*1: Simultaneous 2-axes control specification (option) is necessary.

*2: Simultaneous 2-axes control specification (option) requirement depends on wheel shape and grinding accuracy. Please check with our sales staff.

* The auto-sizer (option) is necessary when using the direct auto-sizing cycle.

Machine specifications

Item	Unit	Specifications	SelectG7-100	SelectG7-250	SelectG7-320	SelectG7-400	
Distance between centers	mm		1,000	2,500	3,200	4,000	
Swing on table	mm	Common	φ660				
Grinding diameter	mm	Common	φ0~φ650				
Load between centers	kg	Common	1,500			3,000	
Center height	mm	Common	1,500				
Wheel	Wheel specifications	Common	Normal wheel Wheel width 75mm				
	Outside diameter	mm	Standard	φ760			
		mm	Special	φ915			
		mm	Special	P only: φ1,065			
	Max. width	mm	Special	300 (φ760)			
		mm	Special	250 (φ915)			
		mm	Special	200 (φ1,065)			
	Surface speed	m/s	Standard	30m/s (φ760)			
		m/s	Special	30m/s (φ915)			
m/s		Special	45m/s (φ760, φ915, φ1,065)				
Wheelhead feed	Specifications	Common	Cylindrical roller slide, ball screw				
	Rapid feedrate	m/min	Common	φ15			
	Smallest input increment	mm	Common	φ0.0001			
	Feed slide	—	Common	Straight			
Table		Common	V-flat slide, ball screw				
	Rapid feedrate	m/min	Common	10	8	6	6
	Smallest input increment	mm	Common	0.0001			
	Swivel angle	°	Standard	3	2	1.6	1.4
Workhead	Type	Standard	Fixed spindle				
	Center	—	Standard	MT No.6			
	Max. rotation speed	min ⁻¹	Standard	140 (Fixed spindle)			60
	Smallest input increment	Degrees	Common	0.0001			
Tailstock	Type	Standard	Manual type				
	Center	—	Standard	MT No.6			
	Stroke	mm	Standard	Manual handle adjustment 45			
Power voltage	V	Common	ower supply voltage: 200 control voltage: DC24				
Motor	Wheel spindle	kW	Standard	22 (4P)			
		kW	Special	30 (4P) Wheel surface speed 45 m/s only			
	Workhead spindle	kW	Common	3.1 (Servomotor)			
	Wheelhead feed	kW	Common	4.3 (Servomotor)			
	Table feed	kW	Common	5.0 (Servomotor)			
	Wheel spindle bearing oil pump	kW	Common	0.75 (4P)			
	Hydraulic oil pump (option)	kW	Common	0.75 (4P)			
	Lubrication pump	kW	Common	0.2 (4P)			
Lubrication unit (for wheelhead feed)	kW	Common	0.09				
Tank capacity	Bearing oil	L	Common	70			
	Hydraulic oil (option)	L	Common	35			
	Lubrication oil	L	Standard	20			
	Lubrication oil (for wheelhead feed)	L	Common	6			
	Coolant	L	Common	500*			
Net mass (Maximum full cover specifications)	kg	Common	16,500	20,900	22,900	25,200	
Floor space (width × depth)	mm	Standard	6,100×2,840	9,100×2,840	10,500×2,840	12,100×2,840	
Floor space (width × depth) Full cover spec.	mm	Special	6,600×2,840	9,600×2,840	11,000×2,840	12,600×2,840	

The above data may be limited by accessories, tooling, etc.

* May differ depending on customer's specifications

CNC unit specifications

TOYOPUC-GC70

●: Standard □: Option

Item	No.	Specifications	Accessories
Controlled axes	1	X-axis (wheelhead feed)	●
	2	Z-axis (table feed)	●
Display unit	3	12 inch TFT color (Japanese)	●
	4	12 inch TFT color (English)	□
File management	5	Structured data management (pregrinding, grinding and maintenance)	●
	6	Grinding data patterns: Max. 64 (30processes/pattern, Max. 1,920 processes)	●
Coordinate setting	7	Position memory (various)	●
Compensation function	8	Backlash compensation	●
	9	Size compensation	●
Display	10	Operation monitor display	●
	11	Manual switch and lamp display	●
	12	Sequence circuit monitor	●
	13	Sequence circuit edit	●
	14	Operation procedure display	●
	15	Display of items for inspection and maintenance	●
	16	Metric display	●
	17	Inch display	□
Operation	18	Canned cycle	●
	19	Test cycle	●
	20	Wheel dressing cycle	●
	21	Return cycle	●
	22	Single block	●
	23	Grinding step skip	●
	24	Rapid feed override 0, 10, 50, 100%	●
	25	Grinding feed override 0-150%, 10% step	●
	26	Wheel dressing feed override 0-150%, 10% step	●
	27	Program No. search start	●
Auto-sizer	28	Auto-sizer control unit	□
Programming function	29	Simple automatic decision (plunge, traverse grinding)	●
	30	NC data format input	●
Maintenance	31	Wheel change prediction display	●
	32	Min. wheel dia. display	●
	33	Self diagnosis	●
	34	Alarm history display	●
	35	Batch backup function	●
Counter (Display within display screen)	36	Production counter	●
	37	Quality check counter	●
	38	Wheel dressing interval counter	●
	39	Wheel forming cycle counter	●
Cycle time display (Display within display screen)	40	Machine operation hours	●
	41	Processing cycle time	●
	42	Grinding cycle time	●
	43	Wheel dressing time	●
Others	44	MDI enable/disable key switch	●
	45	Automatic compensation of wheel dressing amount	●
	46	USB memory I/F	●
	47	Wheel return at power failure	●

Accessory list

SelectG7 accessories main common standard accessories

Note: Standard accessory not included if option A is selected.

●: Standard accessory ○: Option A □: Option B

Unit	No.	Name	
Common standard accessories	1	High rigidity bed with isolation cover	
	2	2-piece type table	
	3	Table feed unit	
	4	Wheelhead (with straight/angular switch function, swivel bar method)	※1
	5	Wheelhead feed unit	
	6	Pump unit (wheel spindle bearing oil, lubrication oil)	
	7	Lubrication oil unit (for wheelhead feed)	
	8	Tools (Jack wrench, special tool for normal wheel)	
	9	CNC TOYOPUC-GC70 JTEKT-made	
	10	TOYOPUC-GC70 specific flash memory (JTEKT-made, 1pce, backup data entered.)	
	11	One electric control unit set	
	12	Step at wheel change side (without hand rail)	

※1: Only straight (P) specifications for wheels with diameters of 1,065mm. Switchover function not included. Wheelhead swivel bar necessary at wheelhead swivel. (Only wheelhead swivel bar method) Please notify us of the required quantity if you wish to procure more than one.

SelectG7 accessories

Note: Standard accessory not included if option A is selected.

●: Standard accessory ○: Option A □: Option B

Classification	No.	Name	Remarks	Provided
Workhead	1	Dead spindle stepless speed change workhead		●
	2	Dead spindle infinitely variable speed workhead (C axis specifications)		○
	3	Live & dead spindle workhead (Variable speed, swivel type)	※1	○
	4	Carbide tipped center (MT No.6)		●
Tailstock	5	Manual type tailstock Manual handle type		●
	6	Hydraulic type tailstock	※2, ※3, ※4	○
	7	Air type tailstock travel simplification (including air devices)	※5	□
	8	Carbide tipped center (MT No.6)		●
Wheelhead	9	φ760mm 22kW (including wheel spindle heat exchanger)	surface speed 30m/s	●
	10	φ915mm 22kW (including wheel spindle heat exchanger)	surface speed 30m/s	○
	11	Select from φ760mm 22kW or 30kW (including wheel spindle cooler)	surface speed 45m/s	○
	12	Select from φ915mm 22kW or 30kW (including wheel spindle cooler)	surface speed 45m/s	○
	13	Select from φ1,065mm 22kW or 30kW (including wheel spindle cooler)	surface speed 45m/s	○
	14	Wheel peripheral speed variable speed Select from 22 kW or 30 kW		□
	15	Standard width wheel guard φ760mm (Max. 75mm width), without manual handle		●
	16	Standard width wheel guard φ915mm (Max. 75mm width) / φ1,065mm (Max. 75mm width), without manual handle		○
	17	Wide width wheel guard φ760mm (Max. 300mm width) / φ915mm (Max. 250mm width) / φ1,065mm (Max. 200mm width), with manual handle		○
	18	Normal wheel OD×width: φ760mm×75mm, for straight	※6 surface speed 30m/s	●
	19	Normal wheel OD×width: φ760mm×150mm / φ760mm×225mm / φ760mm×300mm, for straight	※6 surface speed 30m/s, 45m/s	□
	20	Normal wheel OD×width: φ915mm×75mm / φ915mm×150mm / φ915mm×225mm, for straight	※6 surface speed 30m/s, 45m/s	□
	21	Normal wheel OD×width: φ1,065mm×75mm / φ1,065mm×150mm, for straight	surface speed 45m/s	□
	22	Wheel flange for φ760mm (for 75mm width, round nut, no plating)	※7 Special-purpose flange to match wheel width. Combination changes for every 10mm of wheel width, so please inform us of the width of your wheel.	●
	23	Wheel flange for φ760mm (max. width: 300mm, round nut, no plating)	※7	□
	24	Wheel flange for φ915mm (max. width: 225mm, round nut, no plating)	※7	□
	25	Wheel flange for φ1,065mm (max. width: 150mm, round nut, no plating)	※7	□
26	Front guard fixed type (up to 75mm width)		●	
27	Front guard manual compensation (up to 75mm width)		□	
Hydraulic /pneumatic devices	28	Hydraulic oil pump unit		□
Coolant nozzle	29	Flexible coolant nozzle		●
Coolant supply unit	30	Coolant supply unit (350L, 0.75kW coolant pump, without coolant confirmation device)		●
	31	Coolant supply unit (500L, MGE180B, 1.5kW coolant pump, without coolant confirmation device)		○
	32	Bed/table washing	including washing pump	□
	33	Coolant confirmation device		□
	34	Sizer cooling	※8	□

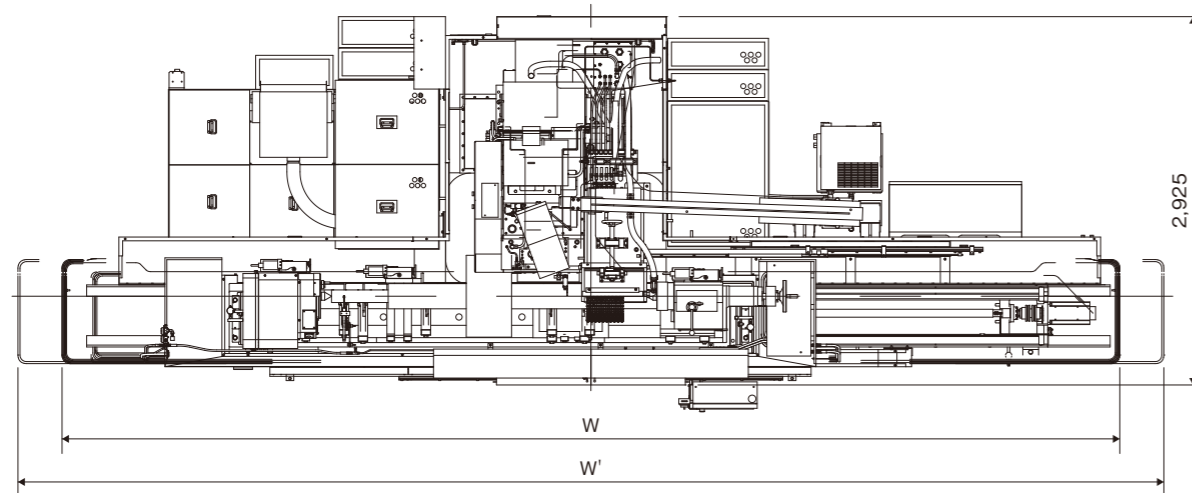
Classification	No.	Name	Remarks	Provided	
Wheel dresser	35	Wheel dresser (mounted to workhead)	※9	●	
	36	Wheel dresser (mounted to table)	※9	□	
	37	Wheel dresser (mounted to tailstock)	※9	□	
	38	Diamond roll type wheel dresser (mounted to workhead)	※5, ※9	○	
	39	Diamond roll type wheel dresser (mounted to table)	※5, ※9	○	
	40	Diamond roll type wheel dresser (mounted to tailstock)	※5, ※9	○	
	41	Formed diamond (shank dia.: φ11mm)		●	
	42	Rotary diamond (dia.: φ100mm)		○	
	Tools	43	General tools (drivers, wrenches, hexagon allen wrench)		□
		44	Special tools (digital type tension meter, pin wrench for diamond roll)		□
45		wheel lifting bracket common to φ760mm, φ915mm, φ1,065mm		□	
46		Shipping brackets		●	
47		Shipping brackets for overseas		□	
48		Wheel balancing stand common to φ760mm, φ915mm, φ1,065mm		□	
49		Wheel balance arbor, wheel flange round nut specification		□	
50		Jib crane for wheel change (500kg specification)		□	
Rest		51	Manual 2-point type rest Select from φ20 ~ φ200mm, φ150 ~ φ300mm, φ250 ~ φ400mm or φ300 ~ φ450mm		□
Drive fittings		52	Driving dog manual clamping type, available in φ80 ~ φ90mm, φ90 ~ φ100mm, φ100 ~ φ115mm, φ115 ~ φ135mm, φ135 ~ φ150mm, φ150 ~ φ170mm, φ170 ~ φ190mm		□
	53	3-jaw scroll chuck 7"1/2	※10	□	
	54	Independent 4-jaw chuck 16"	※10	□	
	55	4-slot face plate, φ410mm	※10	□	
Temporary holder	56	Workpiece temporary holder (One each of right and left, φ20~φ200mm)		□	
Workpiece holder	57	Workpiece holder (shoe: select from φ150~φ180mm, φ180~φ220mm, φ220~φ260mm or φ260~φ300mm)		□	
Auto-sizing device	58	High accuracy large-dia. auto-sizer (JTEKT-made, CNC built-in amp, 3P, φ10 to φ160mm)※2		□	
Lateral locator	59	Automatic lateral locator (mounted on wheelhead, Metrol-made, stroke end proximity switch check specification) ※2		□	
High accuracy performance	60	Wheelhead cut-in high accuracy specification (Linear scale specification)		□	
	61	High accuracy scraping (minimum middle convex specifications)	※11	□	
Others	62	Dust collector (Showa CRD-1500R, 1.5kW, 15/18m³/min, (50/60Hz))	※12	□	
	63	Dust collector mounting (stand alone, including duct on cover, only fully enclosed cover with ceiling)		□	
Cover	64	Insertion cover (without ceiling, oil pan front insertion type cover on table)		●	
	65	Manual front coolant splash prevention cover (without ceiling, manual open/close type simple cover)		○	
	66	Fully enclosed coolant splash prevention cover (with ceiling, manual front open/close type cover)		□	
	67	Wheel safety cover (automatic hydraulic type)	※2	□	
	68	Step (wheel change side, available with handrail)	※13	□	
	69	Step (pulley side, available with/without handrail)		□	
Control unit	70	100V outlet to the outside terminal box (mounted outside of control cabinet)		□	
	71	Flash memory for TOYOPUC-GC70 only (made by JTEKT)		□	
	72	Lighting device (spot lighting)		□	
Paint color	73	Operation panel (TOYOPUC-GC70)	※14	●	
	74	Standard paint color: silver metallic, dark grey metallic		●	
75	Specified color other than our standard specified color. However, color of accessory, pump unit, etc. is dark gray.	Contact our sales when changing the pump unit, coolant tank and control cabinet to the specified color.	○		
Customer run-off	76	JTEKT's standard test piece grinding		□	
	77	Customer test piece grinding (including tooling arrangement)		□	
Instruction manual	78	Machine specification sheets, operation manual, maintenance manual (one each) ※15		●	
Special control Special cycle	79	Simultaneous 2-axis control, including floating plate (Z axis only)	※16	□	
	80	Step wheel dressing (15-point or less)		□	
	81	Curve crowning cycle		□	

※1: Please use No. 36 or No. 39 if swivelling the workhead. ※2: No. 28 is necessary. ※3: Pedal operation specification is optional. ※4: Confirmation device is optional.
 ※5: Pneumatic devices are necessary. ※6: Angular wheel (20° angle) also available.
 ※7: For different wheel widths, a special wheel flange is necessary. Wheel flange plating specifications is also available. Please contact our sales staff.
 ※8: No. 32 is necessary. ※9: Return the table swivel angle to 0° when using No. 35~40. ※10: No. 3 is necessary.
 ※11: Since addition after installation is difficult, please ask to our sales department. ※12: No. 63 is necessary. ※13: Step front of machine shall be supplied from customer.
 ※14: Please contact our sales staff to request a general purpose operation panel. ※15: One set of electric control drawings (unbound) is attached to the control cabinet.
 ※16: For simultaneous 2-axis control, the optional cycle patterns must be added in the grinding and wheel dressing cycles

Machine layout

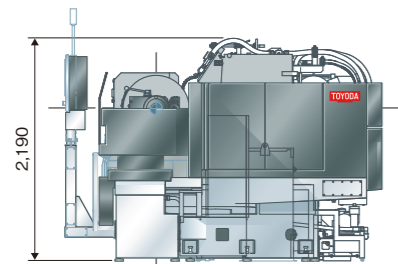
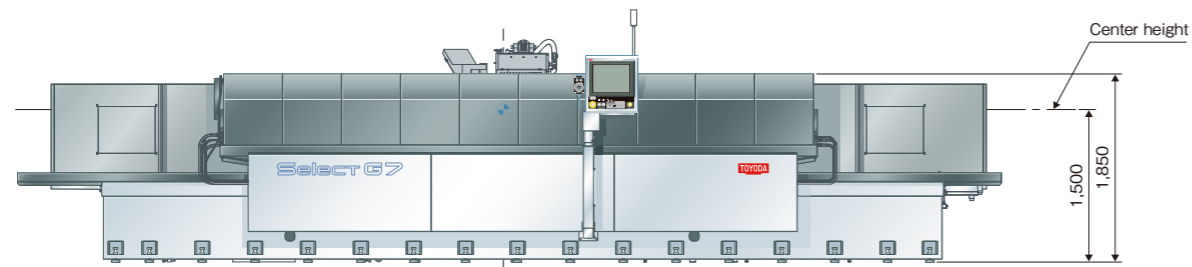
Select G7

Layout plan (unit : mm)



	SelectG7-100	SelectG7-250	SelectG7-320	SelectG7-400
W (mm)	5,400	8,400	9,800	11,400
W' (mm)	6,100	9,100	10,500	12,100

Standard insertion cover



These illustrations show machine images.

Manual front coolant splash prevention cover **Option**



Fully enclosed coolant splash prevention cover **Option**

