

OPTIONAL ACCESSORIES



Electro Magnetic /
Permanent Magnetic Chuck



Auto-Parallel Dressing
Attachment 2 Axes Full Auto
(Electrical Cross-Step Control/Down)



Cross / Vertical
Micrometer Attachment
(PSGS-3510AH, 3090AH-9H, 6090AH-9H)



Round Electro Magnetic Chuck



Inclinable Electro Magnetic /
Permanent Magnetic Chuck



Parallel Dressing
Attachment (PSDD)



Parallel Dressing Attachment
(Manual Type for PSGS, PSDD)
With the Exception of PSGS-1513DM,
1545M, 1545H, 1545AH, 2045M



Level Type Wheel Balancer



Wheel Flange



Window Type Splash Guard (PSGS)
(Cross Travel will shorten 30-50mm)



Dust-Suction
Cooling System (PSGS)



Automatic Paper Strip Filter
with / without Magnetic Separator

Rear Side Coolant Baffle (PSGS)



Cooling System



Cooling System with
Magnetic Separator



Radius and Angle Dresser

PROTH
PRECISION SURFACE GRINDER

Simple is the Best

2014.11.2008

CE EMC ISO 9001

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SADDLE SERIES



PSGS - 2040M



PSGS - 4060HR

* Machines are shown with optional equipments.

SPECIFICATION / MODELS			PSGS							
			1540M	1540M	2040M	1540M / 1540HR	2540M	3040M	3040HR	4060HR
General Capacity	Max. travel (working width)	mm	170x300	175x400	220x400	180x400	280x600	340x700	340x700	460x800
	Spindle center height from table	mm	420				500		600	
	Max. height from table top to bottom of grinding wheel	mm	320				320(H10)		420	
	Grinding surface of table	mm	150x350	150x450	200x450	150x450	250x600	300x600	300x600	400x800
Longitudinal Movement	Hydraulic table speed (rpm)	mm/min	Manual				3-25		1-25(3.3-25)	
	Intermittent cross feed approx. (mm/revolution)	mm/rev	Manual				0.1-7.5		0.1-10	
Cross Movement	Continuous cross feed approx. (mm/revolution)	mm/rev	Manual				800/100		1000	
	Hand feed per revolution	mm	5				4			
	Hand feed per division	mm	0.02							
Vertical Downfeed	Hand traverse approx. (mm)	mm/min	Manual				200		220	
	Hand feed per revolution	mm	1							
	Hand feed per division	mm	0.005							
Grinding Wheel	Dimension (D x W x B)	mm	160x10x31.75				350x25x127		350x30x127	
	Spindle wheel (mm)	mm	3000/3600				1500/1800			
Motor	Spindle motor		1.1kW/1.5HP		1.5kW/2HP		2.2kW/3HP		3.7kW/5HP	
	Hydraulic motor		Manual				0.75kW/1HP		2.2kW/3HP	
Weight	Net weight	kg	670	700	800	850	1350	1650	1600	2800
	Gross weight	kg	600	1020	1140	1100	1700	2100	2500	3400
Machine Size	Dimension (mm)	mm	161x150x110	171x150x110	171x150x110	171x150x110	171x150x110	171x150x110	171x150x110	171x150x110

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*Machine appearance will change depending upon different optional equipment selected.

*Optional motor with () is available at additional costs charge. Other special equipments may be provided upon specific requests from customers. Please contact us for more details.

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SADDLE SERIES



PSGS - 3050N



PSGS - 50100AHR

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SPECIFICATION / MODELS			PSGS		
			3050N	4050N	50100AHR
General Capacity	Max. travel (working width)	mm	340x700	460x800	560x1080
	Spindle center height from table	mm	560		
	Max. height from table top to bottom of grinding wheel	mm	380		
	Grinding surface of table	mm	300x600	400x800	500x1000
Longitudinal Movement	Hydraulic table speed	mm/min	1-25		
	Intermittent cross feed	mm/rev	0.1-10		
Cross Movement	Continuous cross feed	mm/rev	1000		
	Hand feed per revolution	mm	0.1mmx1/62x10		
	Hand feed per division	mm	0.001mmx1/62x10		
Vertical Overfeed	Rapid traverse approx. (mm)	mm/min	300		
	MPG per revolution	mm	0.1mmx1/62x10		
	MPG per division	mm	0.001mmx1/62x10		
Grinding Wheel	Dimension (D x W x B)	mm	350x30x127		
	Spindle speed (rpm)	rpm	1500/1800		
Motor	Spindle motor		3.7kW/5HP		7.5kW/10HP
	Cross servo motor		0.75kW/1HP		-
	Vertical servo motor		0.75kW/1HP		
	Hydraulic motor		0.75kW/1HP	2.2kW/3HP	2.2kW/3HP
Weight	Net weight	kg	2500	4300	4500
	Gross weight	kg	3000	5000	5200
Machine Size	Dimension (mm)	mm	3.6x2.05x2.2	3.5x2.05x1.95	3.75x2.12x1.95

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COLUMN SERIES



PSGC - 50100A/R

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SPECIFICATION / MODELS		PSGC							
		50100A/R	50120A/R	50150A/R	50130A/R	50150A/R	50220A/R	50250A/R	
General Capacity	Max. grinding wheel diameter	mm	360x1150	360x1250	360x1500	360x1250	360x1500	360x2200	360x2500
	Spindle center height from table	mm	700						
	Max. height from table top to bottom of mandrel wheel	mm	522						
	Grinding surface of table	mm	500x1000	500x1200	500x1500	600x1200	600x1500	600x2200	600x2500
Longitudinal Movement	Hydraulic table speed	mm/min	1-25						
	Standard cross feed approx. (Automatic)	mm/rev	0.1-15						
	Continuous cross feed approx. (Automatic)	mm/min	2000/2400						
	Hand feed per revolution	mm	5						
Cross Movement	Hand feed per division	mm	0.02						
	Rapid traverse approx. (mm/min)	mm/min	220						
	Hand feed per revolution	mm	0.25						
	Hand feed per division	mm	0.002						
Grinding Wheel	Dimension (φxHxW)	mm	355x50x127						
	Spindle speed	mm/min	1500/1800						
Motor	Spindle motor		7.5/11kW/10/15hp						
	Hydraulic motor		3.7kW/5hp						
Weight	Net weight	kg	5800	6100	7000	8200	9300	10600	12500
	Gross weight	kg	6900	7500	8500	9600	10900	12600	15600
Machine Size	Dimension (mm)	mm	3200x700x960	4000x700x960	4700x700x960	4600x800x960	4700x800x960	5200x800x960	7200x800x960

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COLUMN SERIES



PSGC - 50120A/R

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SPECIFICATION / MODELS		PSGC											
		50100A/R	50120A/R	50130A/R	50150A/R	50150A/R	50150A/R	50220A/R	50250A/R	50250A/R	50250A/R	50250A/R	50250A/R
General Capacity	Max. grinding wheel diameter	mm	360x1200	360x1250	360x1250	360x1250	360x1250	360x1250	360x1250	360x1250	360x1250	360x1250	360x1250
	Spindle center height from table	mm	700										
	Max. height from table top to bottom of mandrel wheel	mm	522										
	Grinding surface of table	mm	700x1500	700x2000	700x2500	700x3000	800x1500	800x2000	800x2500	800x3000	900x1500	900x2000	900x3000
Longitudinal Movement	Hydraulic table speed	mm/min	1-25										
	Standard cross feed approx. (Automatic)	mm/rev	0.1-15										
	Continuous cross feed approx. (Automatic)	mm/min	2000/2400										
	Hand feed per revolution	mm	5										
Cross Movement	Hand feed per division	mm	0.02										
	Rapid traverse approx. (mm/min)	mm/min	220										
	Hand feed per revolution	mm	0.25										
	Hand feed per division	mm	0.002										
Grinding Wheel	Dimension (φxHxW)	mm	355x50x127										
	Spindle speed	mm/min	1500/1800										
Motor	Spindle motor		7.5/11kW/10/15hp										
	Hydraulic motor		3.7kW/5hp										
Weight	Net weight	kg	10000	10000	11000	12400	10200	11100	12000	12900	10500	11500	12500
	Gross weight	kg	11500	12300	13100	14900	12800	13700	14600	15500	13000	14000	15000
Machine Size	Dimension (mm)	mm	4700x4000	5000x4000	5300x4000	5700x4000	5000x4000	5300x4000	5600x4000	5900x4000	5000x4000	5300x4000	5600x4000

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DOUBLE COLUMN PLANNER SERIES



PSGP-1215AHR

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SPECIFICATION / MODELS		PSGP									
		1015AHR	1025AHR	1035AHR	1050AHR	1060AHR	1065AHR	1215AHR	1230AHR	1235AHR	
General Capacity	Max. travel over bed/metal	mm	1000x100	1000x150	1000x200	1000x150	1000x150	1000x150	1000x150	1000x150	1000x200
	Wheel bottom to table (vertical feed)	mm		0-750							
	Spindle center height from table	mm		approx. 1100							
	Max. height from base top to bottom of standard wheel	mm		845							
Longitudinal Movement	Grinding surface of table	mm	1000x150	1000x200	1000x250	1000x300	1000x400	1000x500	1000x600	1200x150	1200x200
	Hydraulic table speed (rpm)	mm/min					2-25(1-25)				
Cross Movement	Distance between the columns	mm			1200				1400		
	Horizontal cross feed-apprx. (mm/min)	mm/min				0.1-35					
	Vertical cross feed-apprx. (mm/min)	mm/min				3000					
	Feed feed per revolution	mm		5		10		5			
	Feed feed per division	mm		0.02		0.05		0.02			
Vertical Downfeed	Feed traverse speed-apprx. (mm/min)	mm/min				220					
	Up feed per revolution					0.1mm/1/5x10					
	Up feed per division					0.02mm/1/5x10					
Grinding Wheel	Dimensions (DxWxD)	mm				510x100x203					
	Spindle speed (rpm)	rpm				1150					
Motor	Horizontal head spindle motor					11/15, 18.5kW/1520, 25HP					
	Vertical head spindle motor					7.5kW/10HP					
	Hydraulic motor				7.5kW/10HP	11kW/15HP	15kW/20HP	22.5kW/30HP	7.5kW/10HP		
Weight	Net weight	kg	10000	13500	17500	22000	36500	40000	44500	14000	14500
	Gross weight	kg	13000	17000	21500	26500	41000	45000	49500	17000	18000
Machine Size	Dimensions (mm)	mm	5142x943	6242x943	7342x943	8442x943	11242x943	15642x943	15642x943	6242x943	7342x943

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* Machine expenses will change depending upon different applications and selected.

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DOUBLE COLUMN PLANNER SERIES



PSGP-1020AHR

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SPECIFICATION / MODELS		PSGP									
		1235AHR	1240AHR	1255AHR	1260AHR	1522AHR	1530AHR	1540AHR	1555AHR	1560AHR	
General Capacity	Max. travel over bed/metal	mm	1400x150	1400x150	1400x150	1400x150	1900x230	1900x150	1900x150	1900x150	1900x150
	Wheel bottom to table (vertical feed)	mm		0-750				100-800(250-1000)			
	Spindle center height from table	mm		approx. 1100				approx. 1100(1350)			
	Max. height from base top to bottom of standard wheel	mm		845				850			
Longitudinal Movement	Grinding surface of table	mm	1200x200	1200x400	1200x500	1200x600	1500x270	1500x300	1500x400	1500x500	1500x600
	Hydraulic table speed (rpm)	mm/min					2-25(1-25)				
Cross Movement	Distance between the columns	mm			1400				2000		
	Horizontal cross feed-apprx. (mm/min)	mm/min				0.1-35					
	Vertical cross feed-apprx. (mm/min)	mm/min				3000					
	Feed feed per revolution	mm	5			10					
	Feed feed per division	mm	0.02			0.05					
Vertical Downfeed	Feed traverse speed-apprx. (mm/min)	mm/min				220					
	Up feed per revolution					0.1mm/1/5x10					
	Up feed per division					0.02mm/1/5x10					
Grinding Wheel	Dimensions (DxWxD)	mm				510x100x203					
	Spindle speed (rpm)	rpm				1150					
Motor	Horizontal head spindle motor					11/15, 18.5kW/1520, 25HP					
	Vertical head spindle motor					7.5kW/10HP					
	Hydraulic motor		7.5kW/10HP	13kW/17.5HP	15kW/20HP	18.5kW/25HP	13kW/17.5HP	15kW/20HP	22.5kW/30HP	22.5kW/30HP	
Weight	Net weight	kg	23000	37500	41000	45500	34500	36000	45000	50000	50000
	Gross weight	kg	27500	41000	46000	51500	37000	40000	49500	55000	55000
Machine Size	Dimensions (mm)	mm	6442x943	11242x943	13462x943	15642x943	6642x543	8442x543	11242x543	13462x543	15642x543

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OVER ARM SERIES



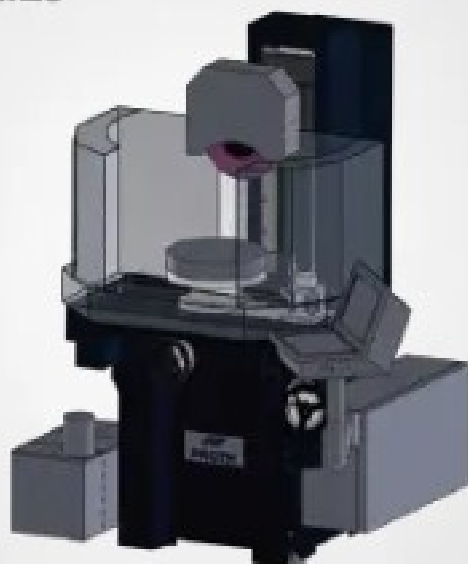
PSGO - 75025A/IR

* Machines are shown with optional equipments.

SPECIFICATION / MODELS			PSGO			
			60150AHR	70100AHR	75025AHR	8100AHR
General Capacity	Max. Workpiece Length (mm)	mm	600x1650	810x1650	810x2250	810x2150
	Spindle center height from table	mm	700(850)			
	Max. height from table top to bottom of standard wheel	mm	522			
	Grinding surface of table	mm	600x1500	750x1500	750x2200	750x2000
Longitudinal Movement	Hydraulic table speed (mm/min)	mm/min	1-25			
	Intermittent cross feed approx. (Automatic) (mm/min)	mm/min	0.1-15			
Cross Movement	Continuous cross feed approx. (Automatic) (mm/min)	mm/min	2000/2400			
	Hand feed per revolution	mm	5			
	Hand feed per division	mm	0.02			
	Rapid traverse approx (mm/min)	mm/min	200			
Vertical Downfeed	Hand feed per revolution	mm	0.25			
	Hand feed per division	mm	0.0025			
	Dimensions (mm)	mm	355x50x127			
	Spindle speed (rpm)	rpm	1500/1800			
Motor	Spindle motor		7.5/11kW / 10/15HP			
	Hydraulic motor		5.6kW / 7.5HP			
Weight	Net weight	kg	9200	11000	12500	14400
	Gross weight	kg	10000	12200	14000	16200
Machine Size	Dimensions (mm)	mm	5.1x2.5x2.6	5.1x2.5x2.6	6.6x2.5x2.6	8.4x2.5x2.6

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ROTARY SERIES



PSRS-300S

* Machines are shown with optional equipments.

SPECIFICATION / MODELS			PSRS		
			200S	300S	400S
General Capacity	Max. grinding radius	mm	120	160	220
	Vertical grinding diameter	mm	-		
	Spindle center height from table	mm	200	250	400
	Max. height from table top to bottom of standard wheel	mm	210	220	220
Rotary Table	Table diameter	mm	200	300	400
	Max. speed	rpm	92-100		
Cross Movement	Table motor		120W(0.4kW)	120W(0.75kW)	180W
	Continuous cross feed	mm/min	1100		
	Hand feed per revolution		-		
	Hand feed per division		-		
Vertical Downfeed	Rapid traverse approx (mm/min)	mm/min	200		
	Hand feed per revolution		0.1mm/rev/5x10		
	Hand feed per division		0.001mm/rev/5x10		
	Dimensions (mm)	mm	90x130x175	355x30x127	
Grinding Wheel	Spindle speed (rpm)	rpm	2000/2400	1400/1750	
	Spindle motor		1.9kW(2.5 HP)	3.7kW(5 HP)	
Weight	Net weight	kg	850	1400	1650
	Gross weight	kg	920	1600	1800
Machine Size	Dimensions (mm)	mm	1.4x1.6x2.1	1.6x1.6x2.1	1.8x1.6x2.1

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ROTARY SERIES



PSRC-9010



PSRC-9005

* Machines are shown with optional equipments.

SPECIFICATION / MODELS			PSRC			
			5005	6005	8005	10005
General Capacity	Max. grinding radius	mm	290	340	450	550
	Spindle center height from table	mm	500			
	Max. height from table top to bottom of standard wheel	mm	322			
	Table diameter	mm	500	600	800	1000
Rotary Table	Max speed	rpm	10-500 (w/ Table 10-60)		10-60	
	Table motor		1.5kW/0.5 (P) (w/ Table 2kW)		3.5kW	
Cross Movement	Continuous cross feed	mm/min	50-1500			
	Hand feed per revolution		0.1mmx1x5x10			
	Hand feed per division		0.001mmx1x5x10			
Vertical Downfeed	Rapid traverse speed/minute	mm/min	220			
	Hand feed per revolution		0.1mmx1x5x10			
	Hand feed per division		0.001mmx1x5x10			
Grinding Wheel	Dimensional (mm)	mm	305x50x127			
	Spindle speed (rpm)	rpm	1500/1800			
Motor	Vertical head spindle motor		3.7kW/0.5 (P) 7.5kW/10 (P)		7.5kW/10 (P) 11kW/15 (P)	
Weight	Net weight	kg	4500	5000	6500	7000
	Gross weight	kg	5500	6000	8000	8500
Machine Size	Dimension (mm)	m	2.5x1.9x2.6		4.1x2.2x2.5	

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DOUBLE COLUMN ROTARY PLANNER SERIES



PSRP-10005

* Machines are shown with optional equipments.

SPECIFICATION / MODELS			PSRP		
			10005	12005	16005
General Capacity	Max. grinding radius	mm	600	700	800
	Vertical grinding diameter	mm	8000-Ø1000	8000-Ø1200	8000-Ø1500
	Spindle center height from table	mm	900(1100)		
	Max. height from table top to bottom of standard wheel	mm	645		
Rotary Table	Table diameter	mm	1100	1300	1500
	Max speed	rpm	10-50		
Cross Movement	Table motor		3.75kW/0.5 (P)		
	Continuous cross feed	mm/min	3000		
	Hand feed per revolution	mm	10		
Vertical Downfeed	Hand feed per division	mm	0.05		
	Rapid traverse speed/minute	mm/min	220		
	Hand feed per revolution		0.1mmx1x5x10		
Grinding Wheel	Hand feed per division		0.001mmx1x5x10		
	Dimensional (mm)	mm	510x100x203		
	Spindle speed (rpm)	rpm	1150		
Motor	Spindle motor		15(15kW/15.20) (P)		
	Vertical head spindle motor		7.5kW/10 (P)		
Weight	Net weight	kg	15000	16000	18000
	Gross weight	kg	16000	18000	21000
Machine Size	Dimension (mm)	m	3x4.2x3.8		

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