

## STANDARD ACCESSORIES



1. FANUC controller



2. Grinding wheel and wheel flange



3. Wheel balancing arbor



4. Working lamp



5. Coolant tank with pump



6. Flange extractor



7. Electric system



8. Hydraulic tank with pump with simple cooler for ACCI



9. Fixed 3-point wheel dressing device



10. Tools and tool box

## OPTIONAL ACCESSORIES

- Spare wheel flange
- Balancing stand
- Auto grinding wheel balancing system
- Inverter (for G.W motor)
- Electro magnetic chuck
- Auto Demagnetizer for chuck
- Wheel side dresser
- Angular trimming device
- Radius trimming device
- Diamond roller dressing device
- Dust suction
- Dust suction with coolant system
- Magnetic Coolant Separator
- Paper filter
- Coolant chiller
- Digital Linear scale (Y/Z axis)
- Fully enclosed splash guard



2. Balancing stand



6. Electro magnetic chuck

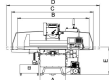
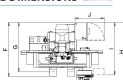


14. Magnetic Coolant Separator



15. Paper filter

## MACHINE DIMENSIONS (unit: mm)



Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N
PSG-2045ACCI	730	1820	2030	2420	980	1620	1380	1950	1750	1090	1280	960	2050	2050
PSG-2045ACCIH						1450	1210							
PSG-2550ACCI	730	1870	2030	2520	980	1700	1410	1950	1750	1090	1280	960	2050	2050
PSG-2550ACCIH						1530	1240							
PSG-3060ACCI	950	2680	3040	3530	1030	2160	1820	2190	1990	1090	1380	1265	1910	2080
PSG-3060ACCIH						2010	1670							
PSG-4080ACCI	1430	3180	3380	4230	1000	2450	2010	2360	2060	1090	1310	1450	1910	2080
PSG-4080ACCIH						1950	1950							

## MACHINE SPECIFICATIONS

## ACC series

ITEM	Unit	PSG-2045	PSG-2550	PSG-3060	PSG-4080
<b>General Capacity</b>					
Table size (length x width)	mm	450 x 200	500 x 250	600 x 300	800 x 400
Max.grinding length	mm	450	500	600	800
Max.grinding width	mm	200	250	300	400
Distance from table surface to spindle center	mm	60-450	60-450	200-550 (op.200-700)	200-550 (op.200-700)
Standard mag. Chuck size	mm	450 x 200 x 90	500 x 250 x 75	600 x 300 x 75	800 x 400 x 75
Table load capacity (incl.Chuck weight)	kg	200	250	420	700

## Work table (X axis)

T-slots (width x No)	mm	17 x 1	17 x 1	17 x 3	17 x 3
Hydraulic feed (table speed) (ACCII)	mm/min	100-25000	100-25000	300-25000	300-25000
Feed speed (ACCII)	mm/min	0-25000	0-25000	0-25000	0-25000
Min. input treatment (ACCII)	mm	0.0001	0.0001	0.0001	0.0001

## Cross Feed (Z axis)

Feed speed	mm/min	0-1000	0-1000	0-1000	0-1000
Min. input treatment	mm	0.0001	0.0001	0.0001	0.0001

## Wheel head Feed (Y axis)

Feed speed	mm/min	0-600	0-600	0-600	0-600
Min. input treatment	mm	0.0001	0.0001	0.0001	0.0001

## Grinding Wheel

Wheel size (Dia x Width x Bore)	mm	180 x 13 x $\phi$ 17.5 (OP205x32x31.75xG16xP100)*	355 x 38 x 127	405 x 50 x 127
Wheel speed (S0 / 60HZ)	M/min	2000(60HZ)/1700(50HZ)	2000(60HZ) / 1700(50HZ)	2300 (60HZ) / 2000(50HZ)

## Motors

Wheel spindle drive motor	kw	1.5	1.5	3.75	5.5
Hydraulic motor (ACCII) / (ACCII)	kw	0.75 / -	0.75 / -	1.5 / 0.4	1.5 / 0.4
Coolant motor	kw	0.093	0.093	0.093	0.093
X servo motor (ACCII)	kw	0.75	1.2	1.2	1.8
Y servo motor	kw	0.75	0.75	0.75	0.75
Z servo motor	kw	0.75	0.75	0.75	0.75

## Capacity

Hydraulic tank (ACCII)/(ACCII)	L	35 / 4	35 / 4	80 / 30	80 / 30
Coolant tank	L	80	80	120	120

## Weight

Net weight / gross weight (approx)	kg	1600	1900	3500	4800
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## Packing Size

Length x Width x Height	mm	2300 x 1800 x 2050	2300 x 1800 x 2050	3000 x 2000 x 2000 (op.2100)	3320 x 2200 x 2000 (op.2100)
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\* The manufacturer reserves right to modify the design/specification mechanisms etc. without notice.

PALMRY

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## PALMRY PRODUCTS

- Centerless Grinder
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- Internal Grinder
- Vertical Grinder
- SURFACE GRINDER**
- Special Purpose Grinder



2408N1

## SURFACE GRINDER

CNC series

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# SURFACE GRINDER

HIGH QUALITY-PROVEN GRINDER.  
DESIGNED WITH GOOD ACCURACIES  
AND MASS PRODUCTIVITY.



[ Model PSG-2550ACCIII ]

## CNC Auto Infeed Function

### User-friendly interface

The conversational HMI with color touch panel which shown letters or graph in stead of light display panel. The customize function is also possible.

### High grinding efficiency

The auto grinding cycle with accurate infeed speed and volume setting, which enable the stable and high precision grinding performance, also have the high efficiency & time-saving benefit.

### High service quality

To increase the high service quality by offering abnormal report and troubleshooting.

The high precision surface grinder from PALMARY offers ultra-high grinding accuracies combined with highly rigid construction throughout and maximum stability. No matter which model you select, it will provide you with lifetime accuracy, stability, and performance dependability needed.

## OUTSTANDING FEATURES

### High Rigidity

- Machine bed are manufactured with high quality Meehanite cast iron, heat treated before machining in order to make sure its rigidity.
- Each machine mechanism is optimally designed, based on FEA simulation analysis.
- Based on scientific calculation, enlarging supporting construction, arranging with intercostal design to fully support the whole machine unit, to assure total stability while in grinding process.

### High Stability

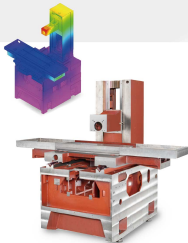
- Both longitudinal and cross-feed slideways are designed for work table supporting completely.
- For bigger grinding capacity, the bigger model with increasing X-axis slider stroke is available.
- Double "V" slideways design enhances total straightness.
- Cross-feed at model 4080 series is designed with square and four slideways for heavy loading requirement without deforming.
- Double-sided constraint design for vertical axis (Y-axis) offers the optimized positioning.

### High Precision

- The wheel spindle is manufactured in-house, direct-driving ensures high precision and high stability.
- Full time lubrication with gravity auto lubricating system and lubrication inspection ensures machine works stably.



Cross-feed at model 4080 series is designed with square and four slideways



## CNC MODEL :

### Two-Axis CNC (for model ACCII)

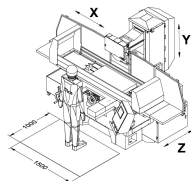
- The vertical axis (Y-axis) and the cross-feed axis (Z-axis) are controlled by servo motors. In addition to general surface grinding, the machine could perform various grinding modes.
- The table left-right traverse adopts hydraulic drive control, operating smoothly, and can automatically control its on and off function, also can adjust the speed and switch off manually.

### Three-Axis CNC (for model ACCIII)

- The vertical axis (Y-axis), cross-feed axis (Z-axis), and table left-right traverse axis (X-axis) are all controlled by servo motors. In addition to performing various grinding modes, the machine could operate various complex grinding applications.
- The table left-right traverse is servo-controlled, allowing more precise positioning of the dressing device, and flexible adjustment of positions.

### Model ACCII and ACCIII

- Equipped with multi-point wheel dressing devices to dress various shapes, and offered the automatically grinding wheel dressing and compensating function. Through various grinding modes, it can grind flat surfaces, steps, end faces, inclined surfaces, arcs, and more.
- Various optional accessories can be equipped, such as roller-type dressing devices, to enhance processing stability and versatility.



## CNC CONTROL PANEL

