



Campro Precision Machinery Co., Ltd.



NO. 12, JINGKE 1ST RD., NANTUN,
TAICHUNG 408, TAIWAN
TEL: +886-4-23500501
FAX: +886-4-23500213
E-mail:sales@campro.com.tw



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550 / 750 / 900 / 1100 / 1300

CPV**Advanced Vertical Machining Center**

| MODEL | UNIT | CPV-550 | CPV-750 | CPV-900 | CPV-1100 | CPV-1300 |
|----------------------------|--------|----------------------------------|-----------|-------------------------|-------------|--------------|
| X-axis Travel | mm | 550 | 750 | 900 | 1,100 | 1,300 |
| Y-axis Travel | mm | 430 | | 560 | | 600 |
| Z-axis Travel | mm | 480 | | 560 | | 560 |
| Table Dimension | mm | 650 x 430 | 850 x 430 | 1,000 x 550 | 1,200 x 550 | 1,400 x 600 |
| Max. Loading Weight | kg | 300 | | 700 | 800 | 1,000 |
| Spindle Speed | rpm | 8,000 (10,000 / 12,000 / 15,000) | | 8,000 (10,000 / 12,000) | | |
| Spindle Motor | kW | 5.5 / 7.5 | | 7.5 / 11 | | |
| Tooling System | type | BT-40 (BT-30) | | BT-40 | | |
| No. of Tools | pcs. | 20 (16) | | 24 (20) | | |
| Rapid Traverse (X / Y / Z) | m/min. | 30 / 30 / 30 | | 36 / 36 / 24 | | 24 / 24 / 24 |



850B / 1050B / 1100B / 1200B / 1400B / 1600B

CPV-B**Heavy Duty, All Square Guideways Vertical Machining Center**

| MODEL | UNIT | CPV-850B | CPV-1050B | CPV-1100B | CPV-1200B | CPV-1400B | CPV-1600B |
|----------------------------|--------|--------------|--------------|-------------|-------------|--------------|--------------|
| X-axis Travel | mm | 850 | 1,050 | 1,100 | 1,200 | 1,400 | 1,600 |
| Y-axis Travel | mm | 530 | 530 | 620 | 750 | 750 | 830 |
| Z-axis Travel | mm | 530 | 780 | 600 | 700 | 650 | 700 |
| Table Dimension | mm | 950 x 530 | 1,050 x 530 | 1,200 x 600 | 1,300 x 700 | 1,550 x 700 | 1,800 x 800 |
| Max. Loading Weight | kg | 800 | 1,000 | 1,100 | 1,500 | 1,800 | 2,000 |
| Spindle Speed | rpm | 8,000 | 10,000 | 6,000 | 8,000 | 6,000 | 8,000 |
| Spindle Motor (Fanuc) | kW | 7.5 / 11 | 11 / 15 | 11 / 15 | 7.5 / 11 | 11 / 15 | 9 / 11 |
| Tooling System | type | BT-40 | BT-40 | BT-50 | BT-40 | BT-50 | BT-40 |
| No. of Tools | pcs. | 24 (20) | 24 | 24 | 24 (20) | 24 | 24 (20) |
| Rapid Traverse (X / Y / Z) | m/min. | 20 / 20 / 20 | 30 / 30 / 30 | 20/20/15 | 20/20/20 | 15 / 15 / 15 | 15 / 15 / 15 |



SMART I / SMART II

SMART**High Speed Vertical Machining Center**

| MODEL | UNIT | SMART I | SMART II |
|----------------------------|--------|---------------------------------|-----------|
| X-axis Travel | mm | 550 | 750 |
| Y-axis Travel | mm | 430 | |
| Z-axis Travel | mm | 450 | |
| Table Dimension | mm | 650 x 430 | 850 x 430 |
| Max. Loading Weight | kg | 300 | |
| Spindle Speed | rpm | 10,000 I.D.D. (12,000 / 15,000) | |
| Spindle Motor | kW | 5.5 / 7.5 | |
| Tooling System | type | BT-40 | |
| No. of Tools | pcs. | 20 | |
| Rapid Traverse (X / Y / Z) | m/min. | 48 / 48 / 48 | |



850 / 1050 / 1100 / 1300

CNV**Vertical Machining Center**

| MODEL | UNIT | CNV-850 | CNV-1050 | CNV-1100 | CNV-1300 |
|----------------------------|--------|-------------------------|--------------|--------------|--------------|
| X-axis Travel | mm | 850 | 1,050 | 1,100 | 1,300 |
| Y-axis Travel | mm | 520 | 540 | 580 | 600 |
| Z-axis Travel | mm | 520 | 520 | 560 | 560 |
| Table Dimension | mm | 950 x 520 | 1,150 x 520 | 1,200 x 550 | 1,400 x 600 |
| Max. Loading Weight | kg | 500 | 600 | 700 | 900 |
| Spindle Speed | rpm | 8,000 (10,000 / 12,000) | | | |
| Spindle Motor | kW | 7.5 / 11 | | | |
| Tooling System | type | BT-40 | | | |
| No. of Tools | pcs. | 24 (20T) | | | |
| Rapid Traverse (X / Y / Z) | m/min. | 30 / 30 / 30 | 30 / 30 / 30 | 30 / 30 / 24 | 24 / 24 / 24 |



900 / 1100 / 1300

CQV**High Performance Machining Center**

| MODEL | UNIT | CQV-900 | CQV-1100 | CQV-1300 |
|----------------------------|----------|---------------------------------|-------------|-------------|
| X-axis Travel | mm | 900 | 1,100 | 1,300 |
| Y-axis Travel | mm | | 580 | 600 |
| Z-axis Travel | mm | | 560 | 560 |
| Table Dimension | mm | 1,000 x 550 | 1,200 x 550 | 1,400 x 600 |
| Max. Loading Weight | kg | 700 | 800 | 1,000 |
| Spindle Speed | rpm | 10,000 I.D.D. (12,000 / 15,000) | | |
| Spindle Motor | kW | 11 / 15 | | |
| Tooling System | type | BT-40 | | |
| No. of Tools | pcs. | 24 (30 / 40) | | |
| Rapid Traverse (X / Y / Z) | m / min. | 36 / 36 / 30 | | |



2216 / 3216 / 4216 / 3221 / 4221 / 5221 / 3226 / 4226 / 5226 / 4231 / 5231

PV**Double Column Machining Center**

| MODEL | UNIT | PV-2216 | PV-3216 | PV-4216 |
|----------------------------|----------|------------------------------------------------------|---------------|---------------|
| X-axis Travel | mm | 2,200 | 3,200 | 4,200 |
| Y-axis Travel | mm | | 1,600 | |
| Z-axis Travel | mm | | 750 | |
| Table Dimension | mm | 2,300 x 1,450 | 3,300 x 1,450 | 4,300 x 1,450 |
| Max. Table Load | kg | 6,000 | 8,000 | 10,000 |
| Spindle Speed | rpm | 6,000 / Gear Head (Opt. : 10,000 / Built-in Spindle) | | |
| Spindle Motor | kW | 15 / 18.5 (L : 15 / 18.5, H : 22 / 25) | | |
| Tooling System | type | BT-50 | | |
| No. of Tools | pcs. | 32T (40T / 60T) | | |
| Rapid Traverse (X / Y / Z) | m / min. | 20 / 20 / 16 | | |

| MODEL | UNIT | PV-3221 | PV-4221 | PV-5221 |
|----------------------------|----------|------------------------------------------------------|---------------|---------------|
| X-axis Travel | mm | 3,200 | 4,200 | 5,200 |
| Y-axis Travel | mm | | 2,100 | |
| Z-axis Travel | mm | | 800 (1,000) | |
| Table Dimension | mm | 3,000 x 1,700 | 4,000 x 1,700 | 5,000 x 1,700 |
| Max. Table Load | kg | 8,000 | 10,000 | 12,000 |
| Spindle Speed | rpm | 6,000 / Gear Head (Opt. : 10,000 / Built-in Spindle) | | |
| Spindle Motor | kW | 15 / 18.5 (L : 15 / 18.5, H : 22 / 25) | | |
| Tooling System | type | BT-50 | | |
| No. of Tools | pcs. | 32T (40T / 60T) | | |
| Rapid Traverse (X / Y / Z) | m / min. | 12 / 15 / 15 | | 10 / 12 / 12 |

| MODEL | UNIT | PV-3226 | PV-4226 | PV-5226 |
|----------------------------|----------|------------------------------------------------------|---------------|---------------|
| X-axis Travel | mm | 3,200 | 4,200 | 5,200 |
| Y-axis Travel | mm | | 2,600 | |
| Z-axis Travel | mm | | 800 | |
| Table Dimension | mm | 3,000 x 2,200 | 4,000 x 2,200 | 5,000 x 2,200 |
| Max. Table Load | kg | 12,000 | 14,000 | 16,000 |
| Spindle Speed | rpm | 6,000 / Gear Head (Opt. : 10,000 / Built-in Spindle) | | |
| Spindle Motor | kW | 15 / 18.5 (L : 15 / 18.5, H : 22 / 25) | | |
| Tooling System | type | BT-50 | | |
| No. of Tools | pcs. | 32T (40T / 60T) | | |
| Rapid Traverse (X / Y / Z) | m / min. | 12 / 15 / 15 | | 10 / 12 / 12 |

| MODEL | UNIT | 4231 | 5231 |
|----------------------------|----------|------------------------------------------------------|---------------|
| X-axis Travel | mm | 4,200 | 5,200 |
| Y-axis Travel | mm | | 3,100 |
| Z-axis Travel | mm | | 800 |
| Table Dimension | mm | 4,000 x 2,700 | 5,000 x 2,700 |
| Max. Table Load | kg | 18,000 | 20,000 |
| Spindle Speed | rpm | 6,000 / Gear Head (Opt. : 10,000 / Built-in Spindle) | |
| Spindle Motor | kW | 15 / 18.5 (L : 15 / 18.5 ; H : 22 / 25) | |
| Tooling System | type | BT-50 | |
| No. of Tools | pcs. | 32T (40T / 60T) | |
| Rapid Traverse (X / Y / Z) | m / min. | 12 / 15 / 15 | 10 / 12 / 12 |



U255C / U350 / U500

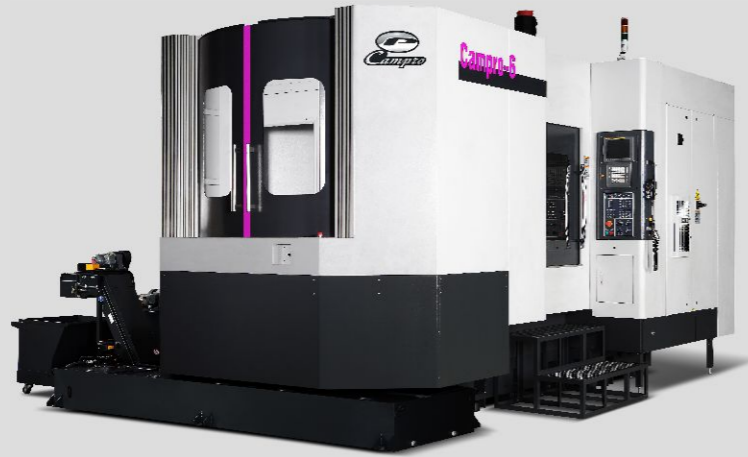
U**5-axis Machining Center**

| MODEL | UNIT | U255C | U350 | U500 |
|----------------------------|----------|---------------|-------------------------------------------|------|
| X-axis Travel | mm | 400 | 430 | 580 |
| Y-axis Travel | mm | 520 | 600 | 800 |
| Z-axis Travel | mm | 425 | 460 | 550 |
| Table Dimension (Dia.) | mm | 255 | 350 | 550 |
| A-axis Titring | deg | ±110° | +30°~-120° | |
| C-axis Rotary | deg | 360° | 360° | |
| Spindle Speed | rpm | 10,000 I.D.D. | 12,000 Built-in spindle (15,000 / 18,000) | |
| Spindle Motor | kW | 7.5 / 11 | 28 | |
| Tooling System | type | BBT-40 | BBT-40 | |
| No. of Tools | pcs. | 24 (30) | 32 (40 / 60) | |
| Rapid Traverse (X / Y / Z) | m / min. | 30 x 30 x 30 | 36 x 36 x 30 | |



CAMPRO

Horizontal Machining Center



| MODEL | UNIT | CAMPRO 6 |
|----------------------------|----------|-------------------------------------------|
| X-axis Travel | mm | 1,000 |
| Y-axis Travel | mm | 850 |
| Z-axis Travel | mm | 950 |
| Pallet Dimension | mm | 630 x 630 |
| Spindle Speed | rpm | 10,000 Built-in spindle (6,000 gear head) |
| Spindle Motor | kW | 22 / 26 (L : 15 / 22, H : 25 / 30) |
| Tooling System | type | BT-50 |
| No. of Tools | pcs. | 40 (60 / 90 / 120) |
| Rapid Traverse (X / Y / Z) | m / min. | 36 |



106 / 158 / 208 / 3510 / 3512 / 3518 / 3520

CPL

CNC Precision Lathe



| MODEL | UNIT | CPL-106 | CPL-158 | CPL-208 | CPL-3510 | CPL-3512 | CPL-3518 | CPL-3520 | |
|------------------------|----------|---------------------|-----------|-----------|------------|---------------|---------------------|---------------------|--|
| Max. Swing Over Bed | mm | 450 | 450 | 540 | 570 | 700 | 900 | | |
| Max. Turning Diameter | mm | 290 | 270 | 400 | 400 | 500 | 700 | | |
| X-axis Travel | mm | 150+20 | 135+20 | 200+20 | 200+20 | 250+25 | 355+30 | | |
| Z-axis Travel | mm | 350 | 320 | 500 | 700 | 1,000 (1,500) | 2,200 (1,550/3,200) | 2,150 (1,500/3,150) | |
| Rapid Traverse (X / Z) | m / min. | 24 / 24 | | | | | | 20 / 15 | |
| No. of Tool Station | | 10-Hydraulic Turret | | | | | | 8-Hydraulic Turret | |
| Spindle Nose / Chuck | | A2-5 / 6" | A2-6 / 8" | A2-6 / 8" | A2-8 / 10" | A2-11 / 12" | A2-11 / 18" | A2-15 / 20" | |
| Hole Through Diameter | mm | 45 | 52 | 52 | 75 | 117.5 | 117.5 | 165 | |
| Spindle Speed | rpm | 6,000 | 4,200 | 4,200 | 3,000 | 2,000 | 2,000 | 1,000 | |
| Spindle Motor | kW | 5.5 / 7.5 | 7.5 / 11 | 11 / 15 | 22 / 26 | 22 / 26 | 22 / 26 (Gear type) | | |



VT-350

VT

CNC Precision Vertical Lathe



| MODEL | UNIT | VT-350 |
|--------------------------|----------|-----------------|
| Max. Swing Over Bed | mm | 400 |
| Max. Turning Diameter | mm | 350 |
| Max. Turning Height | mm | 298 |
| X-axis Travel | mm | 175+25 |
| Z-axis Travel | mm | 355 |
| Rapid Traverse (X / Z) | m / min. | 20 |
| No. of Tools | | 12-Servo Turret |
| Spindle Nose | type | A2-8 |
| Hydraulic Chuck Diameter | inch | 12" |
| Spindle Speed | rpm | 2,000 |
| Spindle Motor | kW | 22 / 26 |



10MC / 20MC / 30MC / 3512MC / 3518MC / 3520MC / 3010Y / 3010SY

CPL-MC/SY

CNC Turning & Milling Center

CPL-MC : C-axis with living turret
 CPL-Y : C/Y-axis with living turret
 CPL-SY : C/Y-axis with living turret & sub-spindle



| MODEL | UNIT | 10MC | 20MC | 30MC | 3512MC | 3518MC | 3520MC | 3010Y | 3010SY | |
|------------------------|----------|-----------------|-----------|------------|-------------|--------------|--------------|------------|--------------------------|---------|
| Max. Swing Over Bed | mm | 450 | 540 | 570 | 700 | 900 | | 750 | | |
| Max. Turning Diameter | mm | 170 | 260 | 260 | 300 | 590 | | 436 | | |
| X-axis Travel | mm | 150+5 | 200+5 | 200+5 | 240+25 | 350+35 | | 260 | | |
| Y-axis Travel | mm | - | - | - | - | - | | 110 (±55) | | |
| Z-axis Travel | mm | 320 | 475 | 678 | 980 (1,500) | 2,150(1,500) | 2,100(1,450) | 850 | 800 | |
| Rapid Traverse (X / Z) | m / min. | 24 / 24 | | | | | | 20 / 15 | | 20 / 20 |
| Rapid Traverse (Y) | m / min. | - | - | - | - | - | | 10 | | |
| No. of Tool Station | | 12-Servo Turret | | | | | | | | |
| Spindle Nose / Chuck | | A2-5 / 6" | A2-6 / 8" | A2-8 / 10" | A2-11 / 12" | A2-11 / 18" | A2-15 / 20" | A2-8 / 10" | A2-8 / 10" | |
| Spindle Speed | rpm | 6,000 | 4,200 | 3,000 | 2,000 | 2,000 | 1,000 | 3,000 | 4,000 | |
| Spindle Motor | kW | 5.5 / 7.5 | 11 / 15 | 15 / 18.5 | 15 / 18.5 | 22 / 26 | 22 / 26 | 15 / 18.5 | 15 / 22 Built-in spindle | |