

ALTOCUT-CK Series Precision Cutting Machine



*Perfect Surface.
Always*

CK260B/CK360B/CK460B

- A quickly switch for Manual/Auto cutting mode
- Front and back limit switches are available for cutting depth control
- A powerful LED light for illumination and easy observation of the cutting chamber during operation
- Magnetic spray pipes for easy cleaning
- A storable design for the coolant tank maximizes the space utilization

Due to variations in the travel distance of the feeding set and mechanical structure, there may be slight differences in the appearance of each model.

Introduction & Feature

- Application range: Automotive, Aerospace, Manufacturing, and Academic Institutions
- Suitable for steel, iron, titanium, copper, aluminum, ceramic, motor, crankshaft, gear, turbine, and other large and medium sized workpieces

Top-Opening Safety Cover

Ensures user safety during operation. When the cover is accidentally opened, the spindle will automatically stop, ensuring the operator's safety.

High Impact PC Observing Window

Offering high durability and impact resistance, capable of withstanding vibrations and impacts which may occur during the cutting process. Additionally, it provides a clear view, allowing users to observe the cutting process.

Intuitive Operation Panel

Highly recognizable large icons present various functions, providing an optimized user experience, reducing operation time and enhancing work efficiency.

Magnetic Water Spray Hose

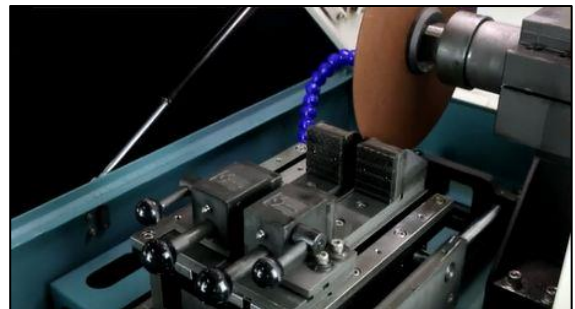
Magnetic water spray hose easily cleans the cutting chamber and vise.

Front Limit Sensor and Back Limit Sensor

The front limit sensor and the back limit sensor control the travel distance for feeding. Users can easily set the cutting travel distance and ensure safe operations.

LED Light

LED light enhances the observation of the cutting process and illuminates the cutting space.



Quickly Switch Between Manual/Auto Cutting Mode

Applied with a switch between manual and auto modes. In manual mode, the feeding speed is controlled by the feeding wheel, offering a flexible control. In auto mode, the equipment will cut the sample automatically based on the set parameters, enhancing work efficiency and providing a more flexible operation.



Accessories & Function (Option)

	Specification			
T-slot platform and separated quick clamping vise (standard)	CK260B Ø70	235*300mm T-slot 10mm	Horizontal moving distance 45mm	
	CK260B Ø90			
	CK360B Ø90			
	CK360B Ø120	235*340mm T-slot 10mm		
	CK460B Ø120			
Horizontal movement set and quick clamping vise (option)	Horizontal movement set can move left and right by 45mm Right vise set can move front and back by 40mm Left vise set can move left and right by 20mm			
Separated horizontal movement set and quick clamping vise (option)	Horizontal movement set can move left and right separately by 20mm Right vise set can move front and back by 40mm Left vise set can move left and right by 20mm			

Other Functions (Option)

Order No. & Description	Applicable model	Specification
CK-004 Variable spindle rotational speed	CK260B Ø70	Abrasive cutting machine 3HP Variable speed up to $\pm 50\%$ based on the frequency.
CK-004-1 Variable spindle rotational speed	CK260B Ø90 CK360B Ø90	Abrasive cutting machine 5HP Variable speed up to $\pm 50\%$ based on the frequency.
CK-004-2 Variable spindle rotational speed	CK460B Ø120	Abrasive cutting machine 10HP Variable speed up to $\pm 50\%$ based on the frequency.
CK120E03B Powerful spindle	CK360B/CK460B	Increase the spindle diameter and replace the standard bearing to dual bearing which can sustain greater cutting force and continually operation

Accessories & Function (Option)

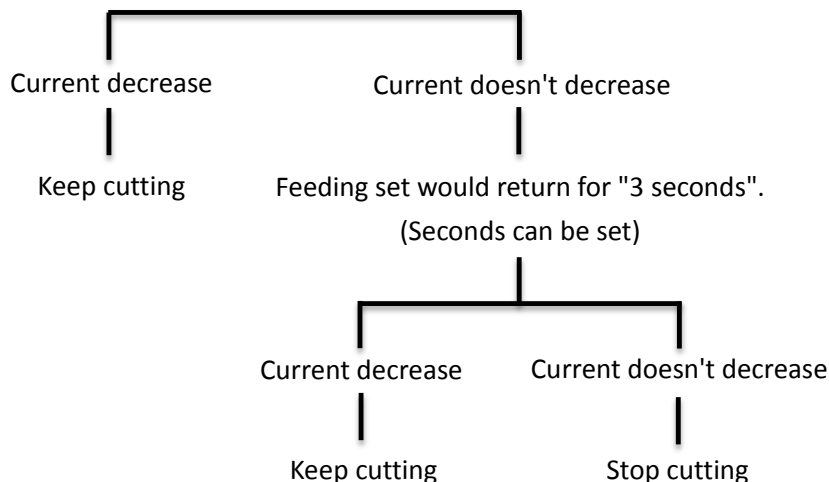
Multi overload protection (CK260B_option/ CK360B & CK460B_standard)

- When the machine is overloaded (AL1), it will stop for 3 seconds.
 - If the current **drops** below to the value of overload setting within 3 seconds, then machine continues the cutting process.
 - If the current **does not** drop below to the value of overload setting within 3 seconds, the it will return to the timer setting values (T1).
- When the overload is reaching for the first protection (AL1) for 3 times, the machine will automatically stop cutting and return to the position of back limit.
- When the overload is reaching for the second protection (AL2), the machine will stop automatically.

Multiple protective measures ensure the safe operation of the machine and prevent damage or unexpected situations caused by current overload.

First protection

When current $\geq$ AL1: Stop feeding for 3 seconds



Second protection

When current $\geq$ **AL2: Stop cutting.**

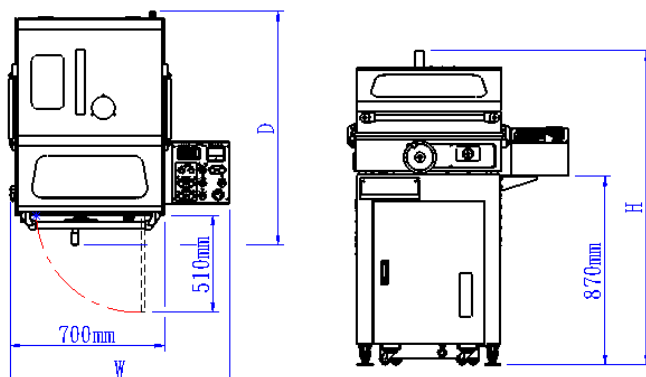
Coolant Filtration System (Option)



Order No.	Specification
CK-003	120L
CK-003-1	160L
CK-003-2	200L

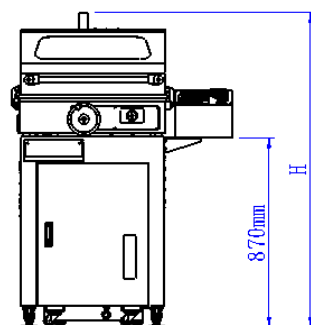
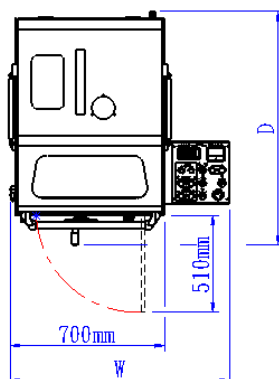
Specification (CK260B)

Model		CK260B	
Travel Distance (mm)	Feeding (X)	260 ↗	
	Horizontal (Y)	45 ↔	
Motor Power (HP)		3	5
Total Walt (W)		2500	4000
Noise Level (dB)		68~72	
Cutting Ability (mm)		Max. Ø70	Max. Ø90
Cut-off Wheel (mm)		Ø305 (12") x Ø31.75 (Ø32)	
Flange (mm)		Ø85	
Feeding Method	Auto	Return to the home point after cutting	
	Manual	Buttons control & Hand wheel control	
Feeding Rate (mm/min)		Standard: 10~75, Option: 10~150 (Special low feeding rate can be customized)	
Rotational Speed (rpm)		2500 (60Hz) / 2100 (50Hz)	
Cutting Vise		T-slot platform+ Separated vises	
T-Slot Platform Dimension (mm)		235 x 300, T-slot: 10	
Vise Specification WxH (mm)		130 x 60	
Cooling Pump		1/4HP 3Ø	
Coolant Tank Capacity (L)		100	
Coolant Tank Dimension WxDxH (mm)		480x800x650	
Coolant Tank Weight (kg)		65	
Machine Dimension WxDxH (mm)		1050x1100x1400	
Machine Weight (kg)		358	365
Power Supply (V)		AC220/380 3Ø (Special voltage can be customized)	
Accessories		Wrench 2pcs, Cut-off Wheel 2pcs, Cutting Coolant 5L	
Option		Quick push vise, Magnetic filtration system	



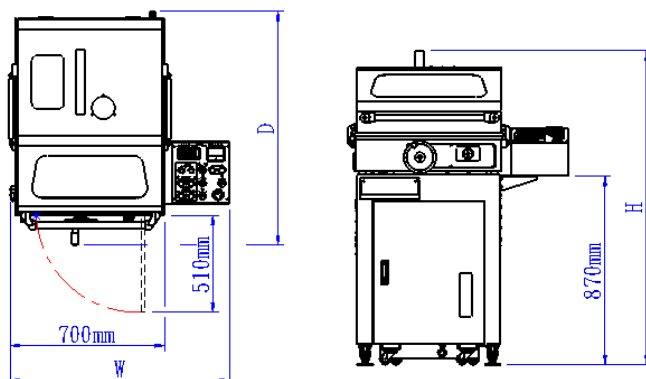
Specification (CK360B)

Model		CK360B	
Travel Distance (mm)	Feeding (X)	360	↗
	Horizontal (Y)	45	↔
Motor Power (HP)		5	7.5
Total Walt(W)		4000	5800
Noise Level (dB)		70~75	
Cutting Ability (mm)		Max. Ø90	Max. Ø120
Cut-off Wheel (mm)		Ø305 (12") x Ø31.75 (Ø32)	Ø406 (16") x Ø32
Flange (mm)		Ø85	Ø85 & Ø100
Feeding Method	Auto	Return to the home point after cutting	
	Manual	Buttons control & Hand wheel control	
Feeding Rate (mm/min)		Standard: 10~75 (Special low feeding rate can be customized)	
Rotational Speed (rpm)		2500 (60Hz) / 2100 (50Hz)	
Cutting Vise		T-slot platform+ Separated vises	
T-Slot Platform Dimension (mm)		235 x 300, T-slot: 10	235x340, T-slot: 10
Vise Specification WxH (mm)		130 x 60	170 x 85
Cooling Pump		1/4HP 3Ø	
Coolant Tank Capacity (L)		110	
Coolant Tank Dimension WxDxH (mm)		480x900x650	
Coolant Tank Weight (kg)		70	
Machine Dimension WxDxH (mm)		1050x1250x1520	
Machine Weight (kg)		454	476
Power Supply (V)		AC220/ 380 3Ø (Special voltage can be customized)	
Accessories		Wrench 2pcs, Cut-off Wheel 2pcs, Cutting Coolant 6L	
Option		Quick push vise, Magnetic filtration system	



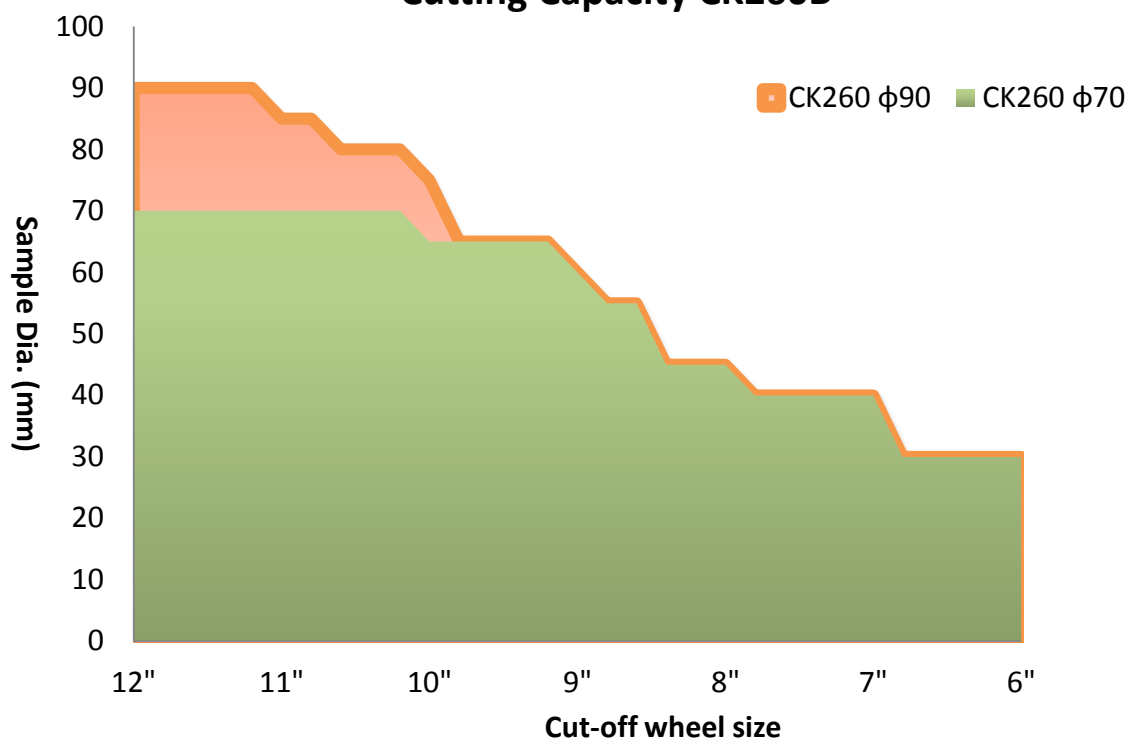
Specification (CK460B)

Model		CK460B
Travel Distance (mm)	Feeding (X)	460 ↗
	Horizontal (Y)	45 ⇔
Motor Power (HP)		10
Total Walt (W)		7700
Noise Level (dB)		70~78
Cutting Ability (mm)		Max. Ø120
Cut-off Wheel (mm)		Ø406 (16") x Ø32
Flange (mm)		Ø85 & Ø100
Feeding Method	Auto	Return to the home point after cutting
	Manual	Buttons control & Hand wheel control
Feeding Rate (mm/min)		Standard: 10~150 (Special low feeding rate can be customized)
Rotational Speed (rpm)		2500 (60Hz) / 2100 (50Hz)
Cutting Vise		T-slot platform+ Separated vise
T-Slot Platform Dimension (mm)		235x340, T-slot: 10
Vise Specification WxH (mm)		170 x 85
Cooling Pump		1/4HP 3Ø
Coolant Tank Capacity (L)		110
Coolant Tank Dimension WxDxH (mm)		480x900x650
Coolant Tank Weight (kg)		70
Machine Dimension WxDxH (mm)		1050x1380x1550
Machine Weight (kg)		503
Power Supply (V)		AC220/ 380 3Ø (Special voltage can be customized)
Accessories		Wrench 2pcs, Cut-off Wheel 2pcs, Cutting Coolant 6L
Option		Quick push vise, Magnetic filtration system

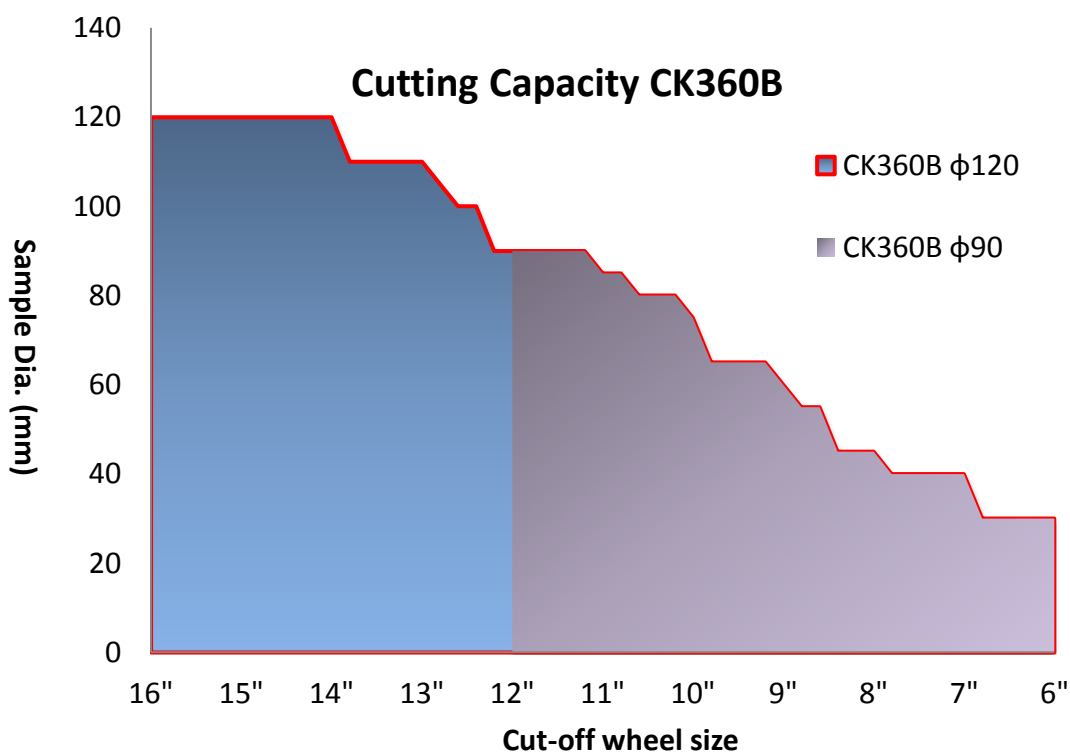


Specification

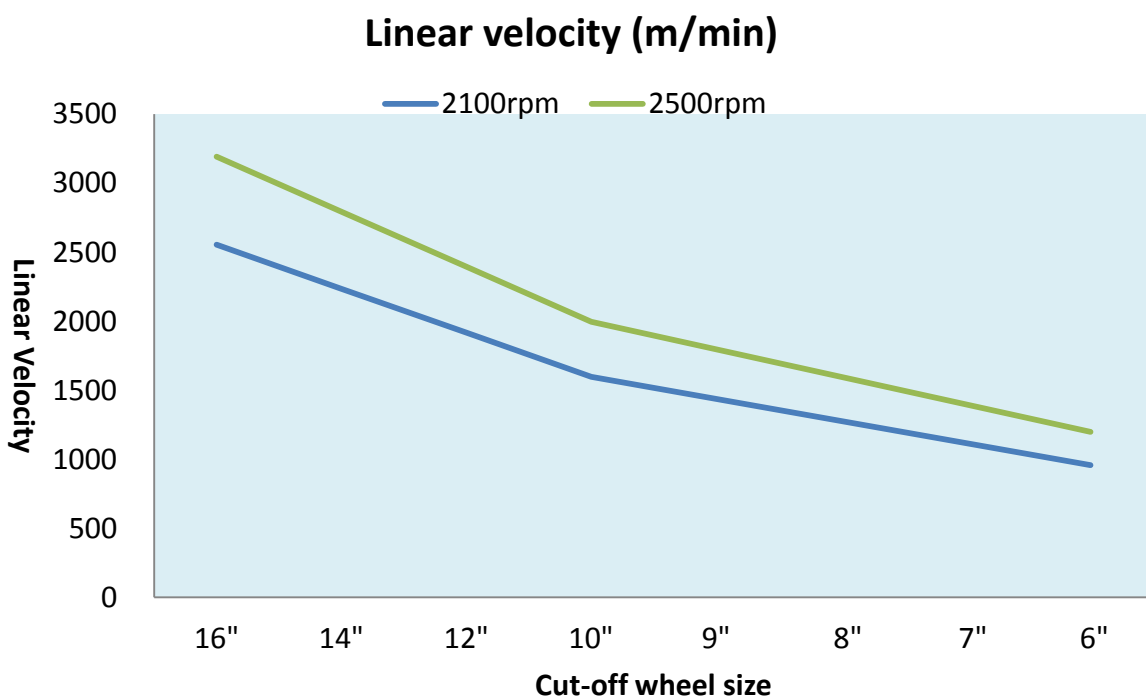
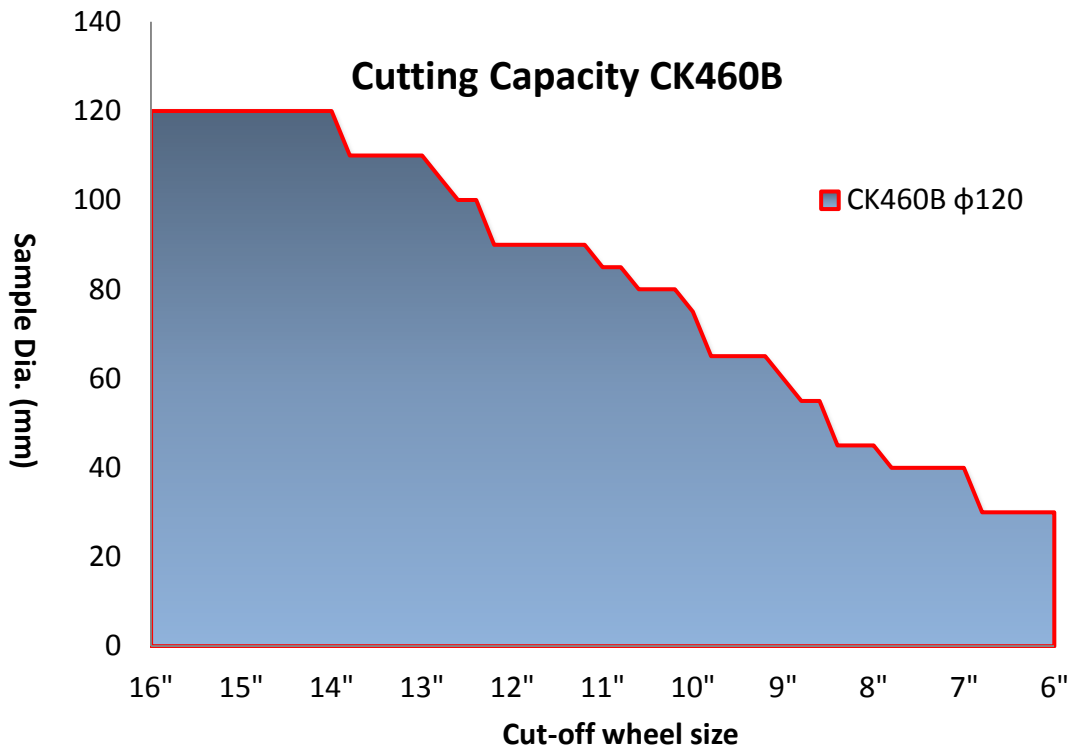
Cutting Capacity CK260B



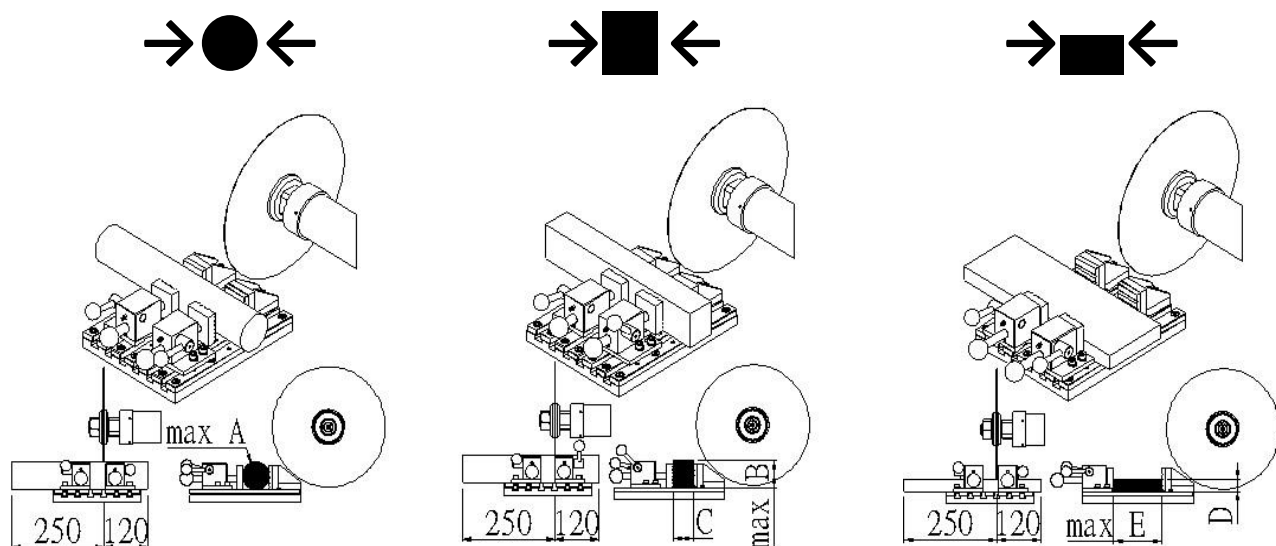
Cutting Capacity CK360B



Specification



Appendix 1_T-slot table and separated vise



Model	Motor	●		■		▬		Order No.
		A(mm)	A cutting area (mm ²)	B(mm)	B*C	E(mm)	E*D	
CK260B Ø70	3HP	Ø70	3846.5	70	70x54.95	130	130x29.58	CZ06C
CK260B Ø90	5HP	Ø90	6358.5	90	90x70.64	130	130x48.91	CZ06C
CK360B Ø90	5HP	Ø90	6358.5	90	90x70.64	130	130x48.91	CZ06C
CK360B Ø120	7.5HP	Ø120	11304	120	120x94.2	130	130x86.95	CZ04D
CK460B Ø120	10HP	Ø120	11304	120	120x94.2	170	170x66.49	CZ04D

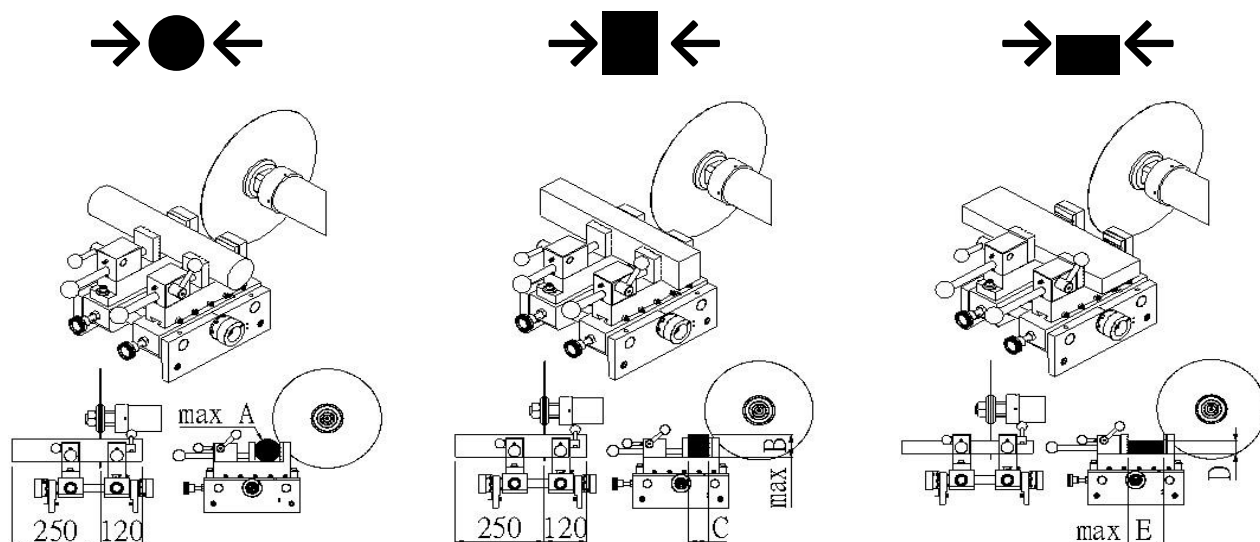
Square area surface calculation method:

The maximum height is B, the maximum width is E. $B \times C$ or $E \times D \leq A$ surface area.

Material application: Alloy tool steel SKS, SKD, SKT, SUP as heat treatment mechanical metal components, ordinary carbon steel, mechanical structure steel S-C series, tool steel SK series, and soft steel SS series.

Surface area can be cut in according to its degree of heat treatment

Appendix 2_Separated horizontal movement vise (Option)



Model	Motor	●		■		■		Order No.
		A(mm)	A cutting area (mm ²)	B(mm)	B*C	E(mm)	E*D	
CK260B Ø70	3HP	Ø70	3846.5	70	70x54.95	100	100x38.46	CK70G03
CK260B Ø90	5HP	Ø90	6358.5	90	90x70.64	100	100x63.58	CK70G03
CK360B Ø90	5HP	Ø90	6358.5	90	90x70.64	150	150x42.39	CK90G03
CK360B Ø120	7.5HP	Ø120	11304	120	120x94.2	150	150x75.36	CK90G03
CK460B Ø120	10HP	Ø120	11304	120	120x94.2	200	200x56.52	CK120G03

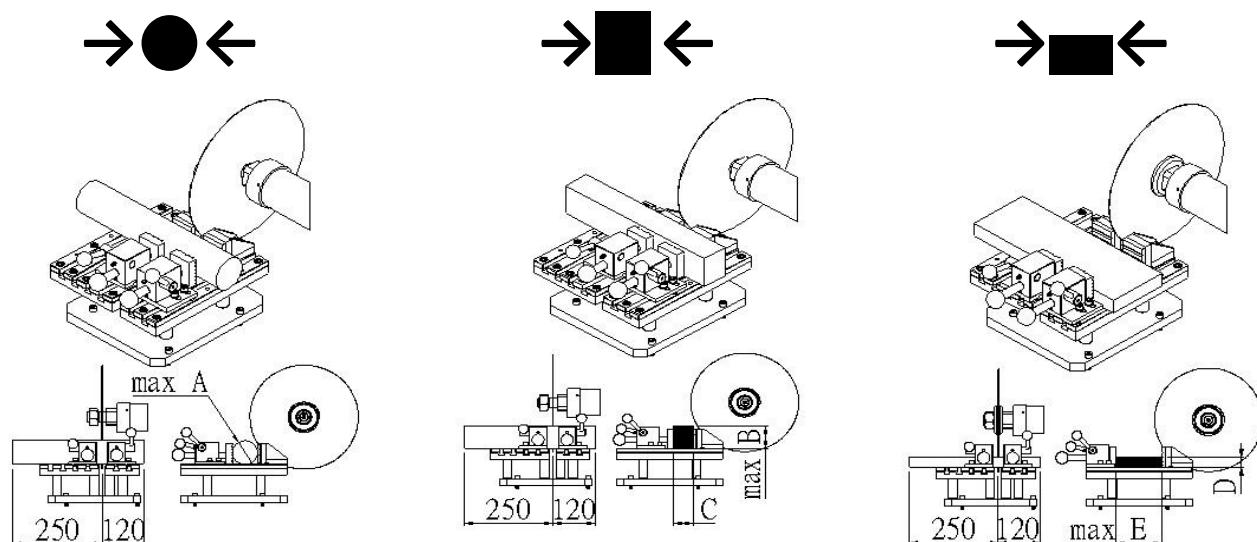
Square area surface calculation method:

The maximum height is B, the maximum width is E. $B \times C$ or $E \times D \leq A$ surface area.

Material application: Alloy tool steel SKS, SKD, SKT, SUP as heat treatment mechanical metal components, ordinary carbon steel, mechanical structure steel S-C series, tool steel SK series, and soft steel SS series.

Surface area can be cut in according to its degree of heat treatment

Appendix3_Separated T-slot vise table + separated vise (Option)



Model	Motor	●		■		■		Order No.
		A(mm)	A cutting area (mm ²)	B(mm)	B*C	E(mm)	E*D	
CK260B Ø70	3HP	Ø70	3846.5	70	70x54.95	130	130x29.58	CK90E02A
CK260B Ø90	5HP	Ø90	6358.5	90	90x70.64	130	130x48.91	CK90E02A
CK360B Ø90	5HP	Ø90	6358.5	90	90x70.64	170	170x37.4	CK120E02A
CK360B Ø120	7.5HP	Ø120	11304	120	120x94.2	170	170x66.49	CK120E02A
CK460B Ø120	10HP	Ø120	11304	120	120x94.2	170	170x66.49	CK120E02A

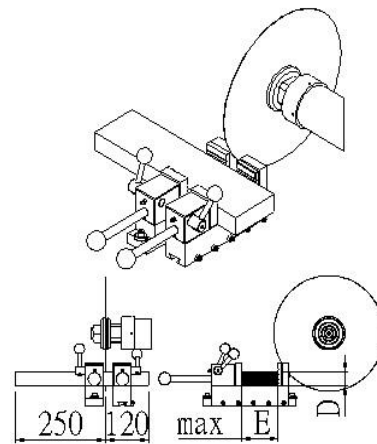
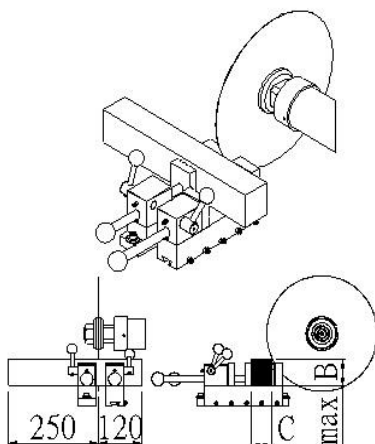
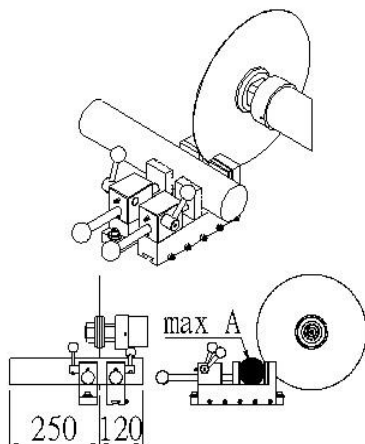
Square area surface calculation method:

The maximum height is B, the maximum width is E. $B \times C$ or $E \times D \leq A$ surface area.

Material application: Alloy tool steel SKS, SKD, SKT, SUP as heat treatment mechanical metal components, ordinary carbon steel, mechanical structure steel S-C series, tool steel SK series, and soft steel SS series.

Surface area can be cut in according to its degree of heat treatment

Appendix 4_Dual quick push clamp vise (Option)



Model	Motor	●		■		▬		Order No.
		A(mm)	A cutting area (mm ²)	B(mm)	B*C	E(mm)	E*D	
CK260B Ø70	3HP	Ø70	3846.5	70	70x54.95	100	100x38.46	CK70E04
CK260B Ø90	5HP	Ø90	6358.5	90	90x70.64	100	100x63.58	CK90E04
CK360B Ø90	5HP	Ø90	6358.5	90	90x70.64	150	150x42.39	CK120E04
CK360B Ø120	7.5HP	Ø120	11304	120	120x94.2	150	150x75.36	CK120E04
CK460B Ø120	10HP	Ø120	11304	120	120x94.2	200	200x56.52	CK120E04

Square area surface calculation method:

The maximum height is B, the maximum width is E. $B \times C$ or $E \times D \leq A$ surface area.

Material application: Alloy tool steel SKS, SKD, SKT, SUP as heat treatment mechanical metal components, ordinary carbon steel, mechanical structure steel S-C series, tool steel SK series, and soft steel SS series.

Surface area can be cut in according to its degree of heat treatment

Consumables (Option)

Cut-off wheel



Order No.	Size	Dia. x Arbor Dia. x Thickness (mm)	Package (pcs/box)
For cutting of heat treated steel-alloy tool steel SKS, SKD, SKT, SK3, SUP, S45C, SCM415, SNCM439 HV495~710 (HRC50~60)			
S02A0302	12"	Ø305xØ31.75x1.2	10
S02A0504	16"	Ø406xØ31.75x3.0	10
For cutting of non-heat treated steel Carbon Steel, Stainless Steel, S-C Series Tool Steel, SK Series, SS Series Mild Steel HV380~495 (HRC40 ~ 50)			
S02B0302	12"	Ø305xØ31.75x1.2	10
S02B0504	16"	Ø406xØ31.75x3.0	10
For cutting of hard heat treated steel Special Alloy Steel, SKD, SKH, SKS3, SCM415, SACM , SNCM439 HV670~780 (HRC58 ~ 64)			
S02C0302	12"	Ø305xØ31.75x1.2	10
S02C0504	16"	Ø406xØ31.75x3.0	10
For cutting of cast iron FC and forged cast iron Cotton Series, It is more resistant to burst than other kinds of cut-off wheel HV400~780 (HRC40~63)			
S02D0302	12"	Ø305xØ31.75x1.2	10
For cutting of non-ferrous metal HV45~196 (HRB10~93)			
S02E0302	12"	Ø305xØ31.75x1.2	10
S02E0504	16"	Ø406xØ31.75x3.0	
For cutting of bakelite, plastic, resin, mounting specimen, sapphire, tungsten steel, aluminum, copper, glass, and ceramic (aluminum oxide ceramic, zirconium oxide ceramic)			
S02F0302	12"	Ø305xØ31.75x1.2	10
S02F0504	16"	Ø406xØ31.75x3.0	10

Cutting Coolant



Order No.	Coolant	Package/ Capacity
S01001	Oily, Emulsion(Blue Bottle Cap)	20L
S01002	Oily, Emulsion(Blue Bottle Cap)	1L

Top Tech distributors



TOP TECH



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Agent

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