Punch Former

Grinding Accessories



A01-A62

PFH350

Precision Punch Former





Note: V-block is made of SKD11 in order to enhance hardness



- V block is adjustable for calibration even when small workpiece is clamped.
- Two clamp plates on both side of V block helps the consistent movement. Release the screw when make adjustable and lock with slight force.

Precisely ground screw rod for . fine-tuning of V-block vertical movement.



Punch forming applications

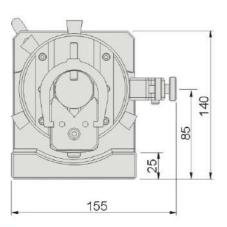


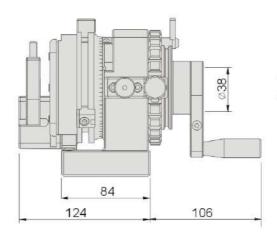
Features:

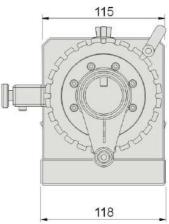


- Suitable for grinding and EDM machines.
- Compact and durable structure with through hole design which makes it capable of forming various shapes of punches as well as electrode.
- Stopper design for fast positioning polygonal punchese.
- Fine-tuning for vertical movement of V-block, easy for clamping workpiece and center calibration.
- Adopting high precision double bearings to achieve higher stability and accuracy, it also makes longer lifecycle.
- Made of stainless steel, rustless & maintenance easy.

Center height
Clamping dia. range of V-block · · · · · Ø 3~38mm
Travel of V-block · · · · 30mm
Indexer tooth q'ty & accuracy 24,15°±5"
Clamping accuracy (50mm) · · · · · · 0.005mm
Through hole diameters · · · · · Ø 36mm





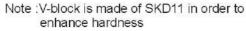




PFH450

Precision Punch Former







- V block is adjustable for calibration even when small workpiece is clamped.
- Two clamp plates on both side of V block helps the consistent movement.
- Release the screw when make adjustable and lock with slight force.

Features:



- Suitable for grinding and EDM machines.
- Compact and durable structure which makes it capable of forming various shapes of punches as well as electrode.
- With slide plate horizontal movement, it can make eccentric radius punches.

Stopper design for fast positioning polygonal punchese.

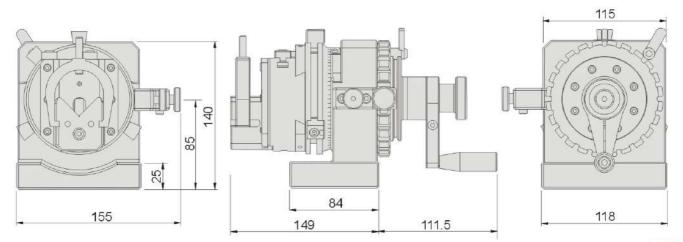
- Fine-tuning for vertical movement of V-block, easy for clamping workpiece and center
- Adopting high precision double bearings to achieve higher stability and accuracy, it also makes longer lifecycle.
- Made of stainless steel, rustless & maintenance easy.

Main parameters:

Center height ······	$85\pm0.5\text{mm}$
Clamping dia. range of V-block ··········	∙ ø 3~38mm
Travel of V-block ·····	38mm
Indexer tooth q'ty & accuracy	· 24、15°±5"
Clamping accuracy (50mm) ·····	0.005mm
Slide plate horiztonal movement	±18mm

Punch forming applications





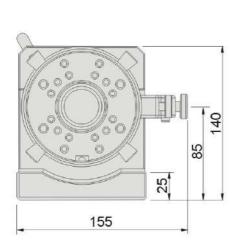


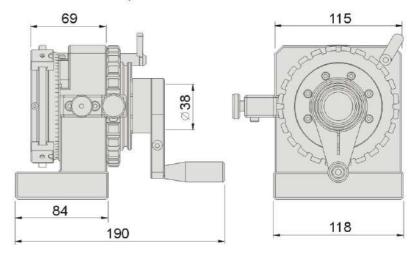


Features:



- Suitable for grinding and EDM machines.
- Compact and durable structure with through hole design which makes it capable of forming various shapes of punches.
- Adopting high precision double bearings to achieve higher stability and accuracy, it also makes longer lifecycle.
- Modulisation with various components (See page A04) to achieve cost effect effectiveness.
- Made of stainless steel, rustless & maintenance easy.



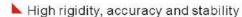


Order No.	Model	N.W.
50030	PFH**	7.8kg
50035-00	SC40	2.2kg
50035-01	SC04	1.0kg
50035-02	SC05	7.0kg
50035-03	SER20*	0.48kg
50035-04	SER32*	0.51kg
50035-05	SER50*	0.55kg
50035-07	3R24	0.6kg
50035-08	3R28	1.0kg
50035-09	EQC50	0.6kg
50035-10	EQC100	2.0kg

^{**}Body only

Features:







Various clamping size

Flexible, fast and convenient

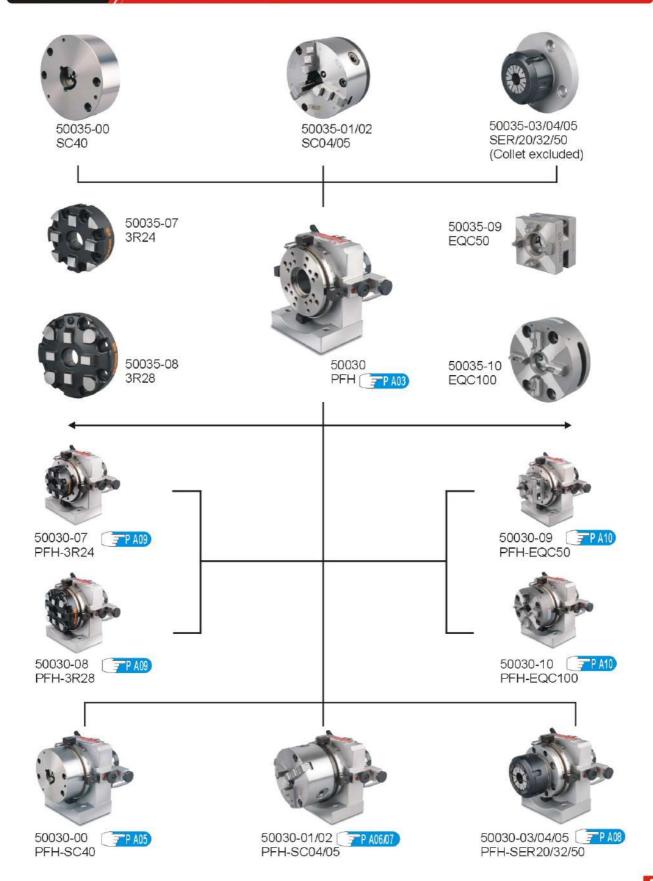
Unique design with special surface treatment, longer lifecycle

Modularise components (see next page for more info.)

^{*}Collet excluded



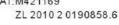
50035 Modularise Components for PFH & EPF







Note: Apply Torque Wrench at all time, due to SC40 3-Jaw Chuck has high precision structure design, avoiding any possible damage.

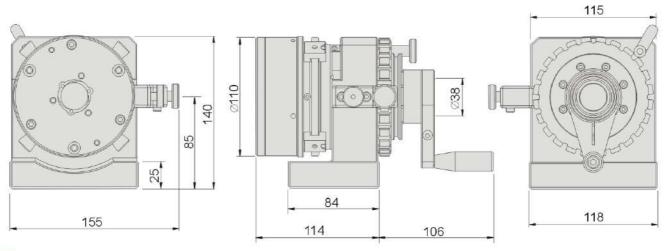




Features:

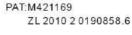
- ► PFH-SC40 is adopting quality stainless steel with waterproof and stronger structure leading lasting durability.
- ▶ Special designed SC40 3-Jaw Chuck provide rapid clamping and it suitable for mass production,, workpiece with round shaped can precisely & rapidly clamped.
- Torgue wrench included for precision performance
- Adopting high precision double bearings in its structure to achieve higher accuracy, rigidity and stability.

Center height · · · · · 85 ± 0.5mm
Indexer tooth q'ty & accuracy 24,15°±5"
Through hole diameters Ø 25mm
Hole dia. of 3-Jaw Chuck Ø 25mm
Min. clamping range Ø 1 mm
Max. clamping range Ø 25mm
Rotational accuracy 0.003mm
Repeat accuracy ····· within 0.003mm





50030-01 PFH-SC04 Precision 3-Jaws Punch Former







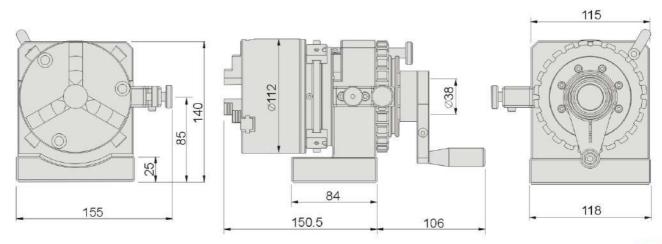
Note: SC04 is made of FCD45 material.





- PFH-SC04 is adopting quality stainless steel with waterproof and stronger structure leading lasting durability.
- SC04 3-Jaw Chuck provide rapid clamping and it suitable for mass production, workpiece with round shaped can precisely & rapidly clamped.
- Due to accumulated tolerance when clamping different sizes of workpieces, special design in adjustment for user own application.
- Jaw attachment can clamp workpeice with larger diameters.
- Adopting high precision double bearings in its structure to achieve higher accuracy, rigidity and stability.

Main parameters:





50030-02

PUNCH FORMER

PFH-SC05

Precision 3-Jaws Punch Former







Note: SC04 is made of FCD45 material.

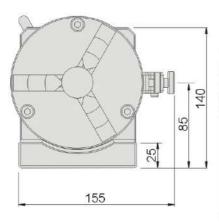
PAT: M421169 ZL 2010 2 0190858.6

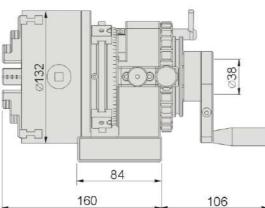


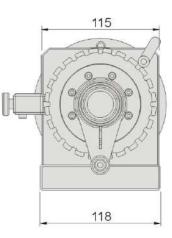
Features:

- PFH-SC05 is adopting quality stainless steel with waterproof and stronger structure leading lasting durability.
- SC05 3-Jaw Chuck provide rapid clamping and it suitable for mass production, workpiece with round shaped can precisely & rapidly clamped.
- Due to accumulated tolerance when clamping different sizes of workpieces, special design in adjustment for user own application.
- Jaw attachment can clamp workpeice with larger diameters.
- Adopting high precision double bearings in its structure to achieve higher accuracy, rigidity and stability.

Center height
Indexer tooth q'ty & accuracy 24,15°±5"
Through hole diameters Ø 32mm
Hole dia. of 3-Jaw Chuck ····· Ø 32mm
Min. clamping range O.D.Ø3mm, I.D.Ø35mm
Max. clamping range O.D. Ø 110mm, I.D.Ø110mm
Rotational accuracy 0.003mm
Repeat accuracy 0.015mm







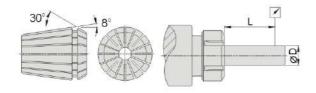


50030-03/04/05 PFH-SER Precision ER Collet Punch Former





Note: ER & ER Nut are not made of stainless steel.



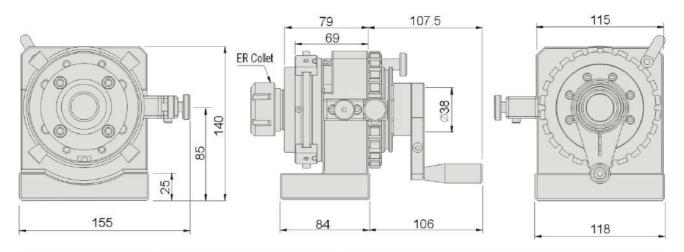
L	D	Accuracy
6	1.0-1.6	0.01
10	1.6-3.0	0.01
16	3.0-7.0	0.01
25	7.0-10.0	0.01
40	10.0-18.0	0.01
50	18.0-24.0	0.01
60	24.0-34.0	0.01

Features:



- PFH-SER is adopting quality stainless steel with waterproof and stronger structure leading lasting durability.
- With ER collets, the flexible range of collet is 1mm.
- Capable collet clamping range: Min. Ø2mm, Max. Ø34mm
- PFH-SER can rapidly clamp the workpiece and achieving higher stability during processing, no need to adjust the center accuracy.
- Adopting high precision double bearings in its structure to achieve higher accuracy, rigidity and stability.
- ► This model is compatible with various ER collets such as ER20, ER32, ER50 etc...

Center height
Indexer tooth q'ty & accuracy 24,15°±5"
Through hole diameters · · · · · Ø 36mm
Rotational accuracy 0.003mm

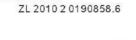


Order No.	Model	ER Collet spec.	N.W.
50030-03	PFH-SER20	3, 4, 6, 8, 10	8.3kg
50030-04	PFH-SER32	4, 8, 12, 16, 20	8.3kg
50030-05	PFH-SER50	12, 18, 20, 30, 34	8.4kg

Precision 3R Punch Former









Features:

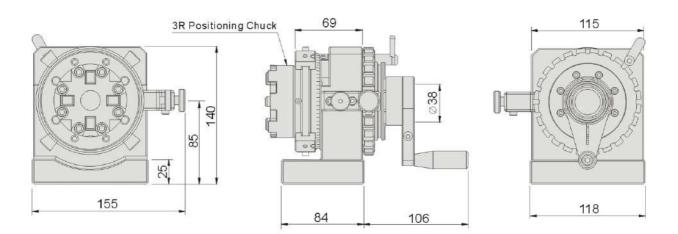
- PFH-3R is adopting quality stainless steel with waterproof and stronger structure leading lasting durability.
- With interchangeable design, components can be chosen according to users' demand.
- Adopting high precision double bearings in its structure to achieve higher accuracy, rigidity and stability.
- This model also works with EROWA Positioning Chuck to achieve modulisation.

Main parameters:

Center height · · · · · 8	$5 \pm 0.5 mm$
Indexer tooth q'ty & accuracy	24 、1 5°±5"
Rotational accuracy ······	0.003mm
Repeat accuracy ·····	0.003mm



PFH-3R28



Order No.	Model	Positioning Chuck spec	N.W.
50030-07	PFH-3R24	3R24	8.4kg
50030-08	PFH-3R28	3R28	8.8kg



50030-09/10

PFH-EQC >> Precision EQC Punch Former







PFH-EQC50

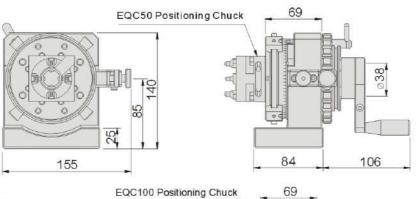


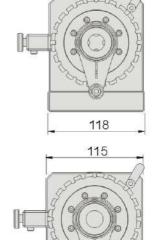
Features:

- PFH-EQC is adopting quality stainless steel with waterproof and stronger structure leading lasting durability.
- ▶ With interchangeable design, components can be chosen according to users' demand.
- Adopting high precision double bearings in its structure to achieve higher accuracy, rigidity and stability.
- This model also works with System 3R Positioning Chuck to achieve modulisation.

Main parameters:

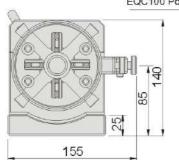
Center height · · · · · · · · · · · · · · · · · · ·	$85 \pm 0.5 mm$
Indexer tooth q'ty & accuracy	24,15°±5"
Rotational accuracy ······	0.003mm
Repeat accuracy	0.003mm

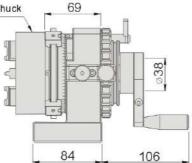




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Order No.	Model	Positioning Chuck spec	N.W.
50030-09	PFH-EQC50	EQC50	8.4kg
50030-10	PFH-EQC100	EQC100	9.8kg



50050 PFHM

Motorised Multi-Flex Punch Former - Body only



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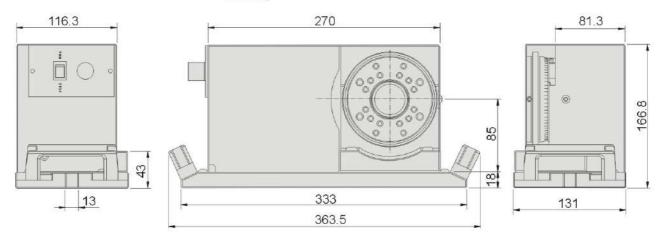


Features:

- PFHM is adopting quality stainless steel with waterproof and stronger structure leading lasting durability.
- Motorised function prevent human fatigue when processing.
- With interchangeable design, components can be chosen according to users' demand such as SC40, SC04, SC05 3-Jaw Chuck, ER20, ER32, ER50 collets.
- Adopting high precision double bearings in its structure to achieve higher accuracy, rigidity and stability.
- Depending on any demands in processing, optional accessories in 50035 page A12 are available to achieve cost effective.



N.W. 24kg



Order No.	Model	Voltage	N.W.
50050-110	DELIM	110V	2.11
50050-220	PFHM	220V	24kg
50050-00-110	DELLIN 0040	110V	
50050-00-220	PFHM-SC40	220V	31kg
50050-01-110	DELIM 0004	110V	25kg
50050-01-220	PFHM-SC04	220V	
50050-02-110	DELLIN COOF	110V	31.5kg
50050-02-220	PFHM-SC05	220V	
50050-03-110	DE: 114 OFFICE	110V	24.9kg
50050-03-220	PFHM-SER20	220V	
50050-04-110	DELLIA GERGO	110V	0.4.01
50050-04-220	PFHM-SER32	220V	24.8kg
50050-05-110	DELIM CEDEO	110V	05.71
50050-05-220	PFHM-SER50	220V	25.7kg



Features:

- ▲ Modulisation
- High rigidity, accuracy and stability
- Strong clamping force
- Various clamping size
- Flexible, fast and convenient
- Unique design with special surface treatment, longer lifecycle

Interchangeable components (see next page for more information)



50050 PFHM > Motorised Multi-Flex Punch Former - Body only



50035-00 SC40



50035-01/02 SC04/05



50035-03/04/05 SER20/32/50 (Collet excluded)



PFHM





50050-00 PFHM-SC40





P 14/15 50050-01/02 PFHM-SC04/05



50050-03/04/05 PA16 PFHM-SER20/32/50











Note: Apply Torque Wrench at all time, due to SC40 3-Jaw Chuck has high precision structure design, avoiding any possible damage.

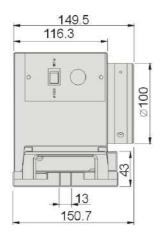
Features:

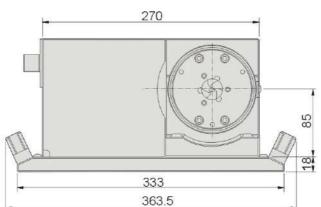


- ► PFHM-SC40 is adopting quality stainless steel with waterproof and stronger structure leading lasting durability.
- Special designed SC40 Precision 3-Jaw Chuck provide rapid clamping and it suitable for mass production, workpiece with round shaped can precisely & rapidly clamped.
- Motorised function prevent human fatigue when processing.
- Torgue wrench is included for precision performance
- Adopting high precision double bearings in its structure to achieve higher accuracy, rigidity and stability.

Main parameters:

Center height $\cdots 85 \pm 0.5$ mm
Through hole diameters · · · · · Ø 36mm
Hole dia. of 3-Jaw Chuck · · · · · Ø 25mm
Motor: 110V/60Hz 50~550RPM
Motor 220V/50Hz 50~550RPM
Min. clamping range ····· ø 1mm
Max. clamping range Ø 25mm
Rotational accuracy 0.003mm
Repeat accuracy 0.003mm



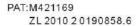


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Order No.	Model	Chuck Spec.	Voltage	N.W.
50050-00-110	PFHM-SC40	SC40	110V	31kg
50050-00-220			220V	31kg

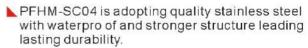






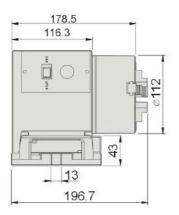
Note: Apply Torque Wrench at all time, due to SC04 3-Jaw Chuck has high precision structure design, avoiding any possible damage.

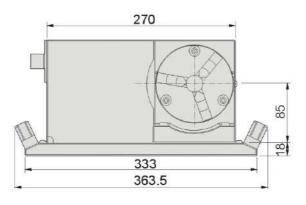
Features:

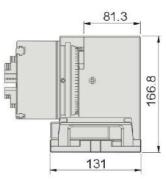


- Special designed SC04 Precision 3-Jaw Chuck provide rapid clamping and it suitable for mass production, workpiece with round shaped can precisely & rapidly clamped.
- Motorised function prevent human fatigue when processing.
- Further attachment Jaw provides capability of clamping larger workpeice.
- Adopting high precision double bearings in its structure to achieve higher accuracy, rigidity and stability.

Center height	85 ± 0.5mm
Through hole diameters	36mm
Hole dia. of 3-Jaw Chuc	:k · · · · · · ø 32mm
Min. clamping range	O.D. Ø3mm, I.D.Ø32mm
Max. clamping range	O.D.Ø3mm, I.D.Ø4mm
Motor: 110V/60Hz	50~550RPM
Motor: 220V/50Hz	50~550RPM
Rotational accuracy	0.003mm
Repeat accuracy	0.015mm







Order No.	Model	Chuck Spec.	Voltage	N.W.
50050-01-110	PFHM-SC04	SC04	110V	25kg
50050-01-220		3004	220V	25kg





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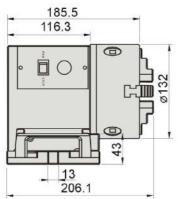


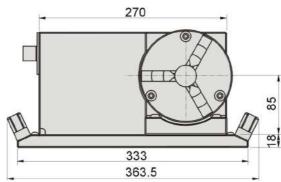
Note: Apply Torque Wrench at all time, due to SC05 3-Jaw Chuck has high precision structure design, avoiding any possible damage.

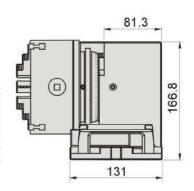
Features:

- ► PFHM-SC05 is adopting quality stainless steel with waterproof and stronger structure leading lasting durability.
- Special designed SC05 Precision 3-Jaw Chuck provide rapid clamping and it suitable for mass production, workpiece with round shaped can precisely & rapidly clamped.
- Motorised function prevent human fatigue when processing.
- Further attachment Jaw provides capability of clamping larger workpeice.
- Adopting high precision double bearings in its structure to achieve higher accuracy, rigidity and stability.

Center height ······	····· 85 ± 0.5mm
Through hole diameters	∅ 36mm
Hole dia, of 3-Jaw Chuc	k····· ∅ 32mm
Min. clamping range	O.D.Ø3mm,I.D.Ø32mm
Max. clamping range	O.D.Ø3mm,I.D.Ø84mm
Motor: 110V/60Hz	50~550RPM
Motor: 220V/50Hz	50~550RPM
Rotational accuracy	0.003mm
Repeat accuracy	0.015mm







Order No.	Model	Chuck Spec.	Voltage	N.W.
50050-02-110	PFHM-SC05	SC05	110V	31.5kg
50050-02-220		3003	220V	31.5kg

PUNCH FORMER

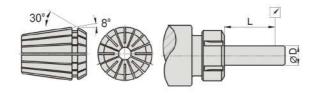


50050-03/04/05 PFHM-SER >> Motorised Precision ER Collet Punch Former

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Note: ER & ER Nut are not made of stainless steel.



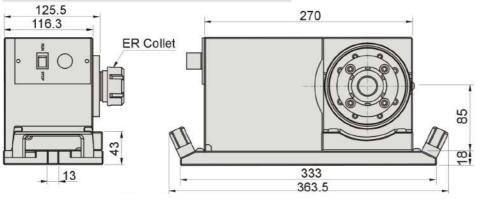
L	D	Accuracy
6	1.0-1.6	0.01
10	1.6-3.0	0.01
16	3.0-7.0	0.01
25	7.0-10.0	0.01
40	10.0-18.0	0.01
50	18.0-24.0	0.01
60	24.0-34.0	0.01

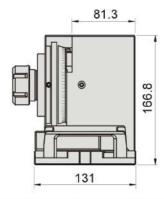
Features:



- ▶ PFHM-SER is adopting quality stainless steel with waterproof and stronger structure leading lasting durability.
- ▶ With ER collets, the flexible range of collet is 1mm.
- Capable collet clamping range: Min. Ø2mm, Max. Ø34mm
- ► PFH-SER can rapidly clamp the workpiece and achieving higher stability during processing, no need to adjust the center accuracy.
- Motorised function prevent human fatigue when operating.
- Adopting high precision double bearings in its structure to achieve higher accuracy, rigidity and stability.
- ► This model is compatible with various ER collets such as ER20, ER32, ER50 etc...

Main parameters:





Order No.	Model	ER Collet specification	Voltage	N.W.
50050-03-110	DEL II.4 OEEDOO	1945 1750 1958 1950 W3197	110V	24.9kg
50050-03-220	PFHM-SER20	3, 4, 6, 8, 10	220V	24.9kg
50050-04-110			110V	24.8kg
50050-04-220	PFHM-SER32	4, 8, 12, 16, 20	220V	24.8kg
50050-05-110	PFHM-SER50		110V	25.7kg
50050-05-220		12, 18, 20, 30, 34	220V	25.7kg

50060

PF350 >

Fine-tuning Type Punch Former





Features:

- Suitable for surface grinder.
- Compact and durable structure with through hole design which makes it capable of forming various shapes of punches as well as electrode.
- ▶ Stopper design for fast positioning polygonal punchese.
- ► Fine-tuning for vertical movement of V-block, easy for clamping workpiece and center calibration.
- Adopting high precision bearings and ball bearing to achieve higher stability and accuracy, it also makes longer lifecycle.
- Improvement in dust-proof and water resistance level.



- Precisely ground screw rod for fine-tuning of V-block movement.
- Two clamp plates on both side of V block helps the consistent movement.

V block is adjustable for calibration even when small workpiece is clamped.

Release the screw when make adjustable and lock with slight force.

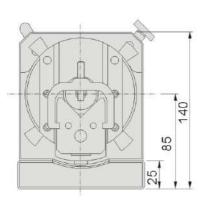


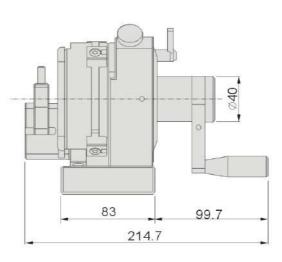
Main parameters:

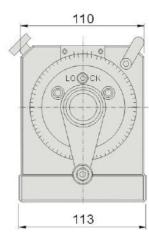
Center height	nm
Clamping dia. range of V-block · · · · · · Ø 3~30r	nm
Travel of V-block 25r	nm
Indexer tooth q'ty & accuracy ····· 24,15°±	10"
Through hole diameters Ø 30r	nm
Clamping accuracy (50mm) 0.005r	nm

Punch forming applications











50070 PF450 > Fine-tuning Type Punch Former (Dual)



Features:

- Suitable for surface grinder.
- Compact and durable structure which makes it capable of forming various shapes of punches.
- With slide plate horizontal movement, it can make eccentric radius punches as well as electrode.
- Stopper design for fast positioning polygonal punchese.
- Fine-tuning for vertical movement of V-block, easy for clamping workpiece and center calibration.
- Adopting high precision bearings and ball bearing to achieve higher stability and accuracy, it also makes longer lifecycle.
- Improvement in dust-proof and water resistance level.



 Stopper block for horizontal movement.

 Screw rod for V block vertical movement..

 Release the screw when make adjustable and lock with slight force.

Precisely ground screw rod • for fine-tuning of V-block movement.

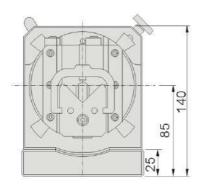


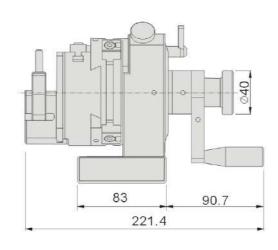
Main parameters:

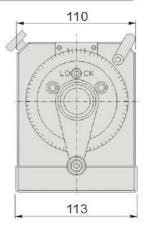
Center height · · · · · 85 ±	0.5mm
Clamping dia. range of V-block Ø 3	~30mm
Travel of V-block	· 45mm
Slide plate horiztonal movement	±18mm
Indexer tooth q'ty & accuracy 24,1	5°±10"
Clamping accuracy (50mm) · · · · · 0	.005mm

Punch Forming Applications







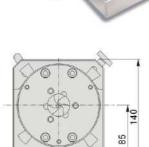


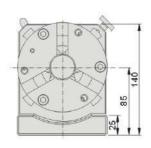


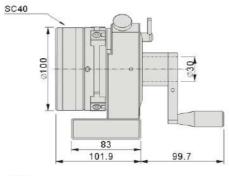


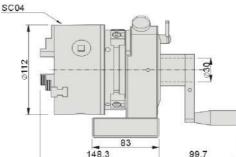








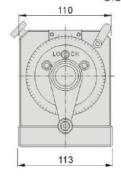






- Special stainless steel made for SC40 chuck provide rapid clamping accuracy with precision performance.
- ➤ Torgue wrench is included for precision performance (Only for SC40)
- Adopting high precision bearings and ball bearing to achieve higher stability and accuracy, it also makes longer lifecycle.
- ► PF550-SC04 Jaw attachment enable larger outer diameter workpiece to be clamped.

Center height
Indexer tooth q'ty & accuracy 24,15°±10"
SC40 3-Jaw Chuck
Min. clamping range ø1mm
Max. clamping range 25mm
Rotational accuracy 0.003mm
Repeat accuracy 0.003mm
SC04 3-Jaw Chuck hole dia Ø 32mm
Min. clamping range O.D. Ø3mm, I.D. Ø32mm
Max. clamping range O.D. Ø90mm, I.D. Ø84mm
Repeat accuracy 0.015mm





Order No.	Model	Chuck Spec.	N.W.
50080-00	PF550-SC40	SC40	8.5kg
50080-01	PF550-SC04	SC04	7.8kg



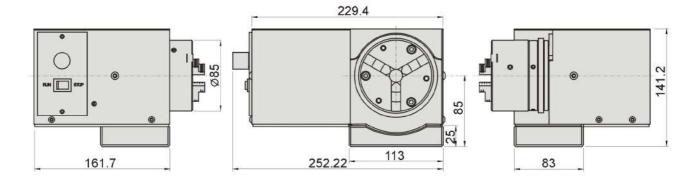
50085 PF550M Precision Motor 3-Jaws Punch Former



Features:

- PF550M have stronger structure leading lasting durability.
- 3-Jaw Chuck provide rapid clamping and it suitable for mass production, workpiece with round shaped can precisely & rapidly clamped.
- Due to accumulated tolerance when clamping different sizes of workpieces, special design in adjustment of horizontal and roundness for user own application.
- Jaw attachment can clamp workpeice with larger diameters.
- Motorised function prevent human fatigue when processing.
- Adopting high precision bearings and ball bearing to achieve higher stability and accuracy, it also makes longer lifecycle.

Center height	85 ± 0.5mm
Through hole diameters	5 ····· Ø 16mm
Hole dia. of 3-Jaw Chuc	ck · · · · · Ø 16mm
Min. clamping range	O.D.Ø2mm,I.D.Ø24mm
Max. clamping range	O.D. Ø70mm,I.D.Ø64mm
Motor: 110V/60Hz ····	50~550RPM
Motor: 220V/50Hz	50~550RPM
Rotational accuracy	0.003mm
Repeat accuracy	0.015mm



Order No.	Model	Chuck Spec.	Voltage	N.W.
50085-110	PF550M	SC03	110V	17kg
50085-220			220V	17kg





50095

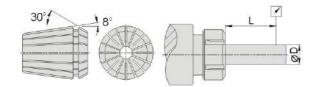
PF650M

Motorised Precision ER Collet Punch Former



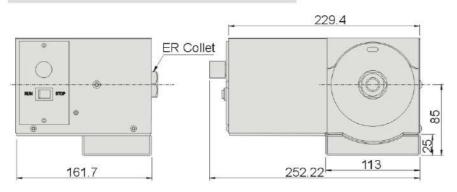


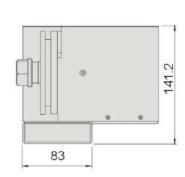
- ▶ PF650M has stronger structure leading lasting durability.
- ► Motorised function prevent human fatigue when processing.
- ► With ER collets, the flexible range of collet is 1mm.
- Lapable collet clamping range: Min. Ø2mm, Max. Ø 26mm
- ► PF650 can rapidly clamp the workpiece and achieving higher stability during processing, no need to adjust the center accuracy.
- Adopting high precision bearings and ball bearing to achieve higher stability and accuracy, it also makes longer lifecycle.



L	D	Accuracy
6	1.0-1.6	0.01
10	1.6-3.0	0.01
16	3.0-7.0	0.01
25	7.0-10.0	0.01
40	10.0-18.0	0.01
50	18.0-24.0	0.01
60	24.0-34.0	0.01

Center height ······	85 ± 0.5mm
Motor: 110V/60Hz	50~550RPM
Motor: 220V/50Hz	50~550RPM
Rotational accuracy ······	··· 0.003mm





Order No.	Model	ER Collet spec.	Voltage	N.W.
50095-01-110	PF650M-ER20	3, 4, 6, 8, 10	110V	17kg
50095-01-220			220V	17kg
50095-02-110	PF650M-ER32	4, 8, 12, 16, 20	110V	18kg
50095-02-220			220V	18kg
50095-03-110	PF650M-ER40	6, 10, 16, 20, 25	110V	19kg
50095-03-220			220V	19kg

50300

PFH240

Precision Punch Former (Medium Type)





ZL 2010 2 0190858.6

Features:

- ► PFH240 Precision Punch Former have stronger compact structure and long lasting durability.
- Suitable of application on surface grinding machine and capable of forming various shapes of punches as well as electrode.
- PFH240 has through hole design for longer punch. & ejector pins to be clamped in processing.
- V-block clamping can accurately stabilize workpieces and vertical fine-tuning function can makes setting center easier.



fine-tuning of V-block vertical movement.

N.W. 13.0kg

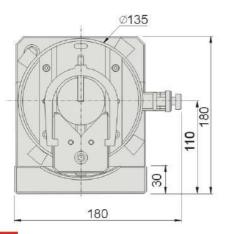
- of V block helps the consistent movement
- Precisely ground screw rod for Adopting high precision double bearings in its structure to achieve higher accuracy, rigidity and stability.
- Two clamp plates on both side L Stopper design in position slot and easier for precisely stabilize polygonal punches.
 - Improvement in dust-proof and water resistance.

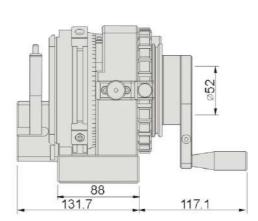
Punch forming applications

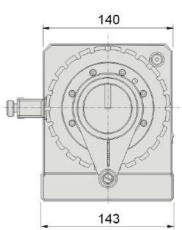


Main parameters:

Center height 110 ± 0.5mm Clamping dia. range of V-block ···· ø 5~50mm Travel of V-block · · · · · 34mm Indexer tooth q'ty & accuracy 24,15°±5" Through hole diameters Ø 52mm Clamping accuracy (50mm) · · · · · · 0.005mm









PFH280

Precision Punch Former (Medium Type)



N.W. 14.7kg



- Stopper block for horizontal movement.
- Two clamp plates on both side of V block helps the consistent





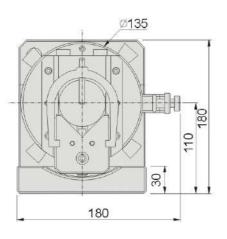
Punch forming applications

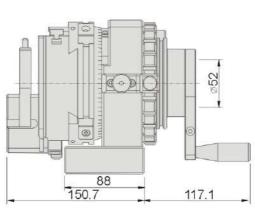


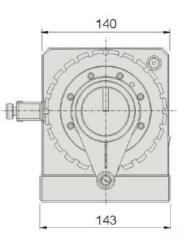
Features:

- ► PFH280 Precision Punch Former have stronger compact structure and long lasting durability.
- Suitable of application on surface grinding machine and capable of forming various shapes of punches as well as electrode.
- Due to its vertical & horizontal adjustment function, it is specially suitable for oval punch grinding.
- V-block clamping can accurately stabilize workpieces and vertical fine-tuning function can makes setting center easier.
- Adopting high precision double bearings in it's structure to achieve higher accuracy, rigidity and stability.
- Stopper design in position slot and easier for precisely stabilize polygonal punches.
- Improvement in dust-proof and water resistance.

Center height 110 ± 0.5 mm
Clamping dia. range of V-block Ø 5~50mm
Travel of V-block · · · · 36mm
Indexer tooth q'ty & accuracy 24,15°±5"
Through hole diameters Ø52mm
Clamping accuracy (50mm) 0.005mm







50500

PFH300

Precision Punch Former (Big Type)





PAT:M421169 ZL 2010 2 0190858.6

Features:

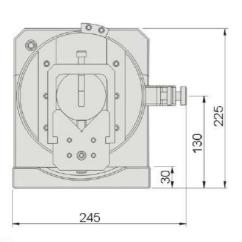
- PFH300 Precision Punch Former have stronger compact structure and long lasting durability.
- Suitable of application on surface grinding machine and capable of forming various shapes of punches as well as electrode.
- ► PFH300 has through hole design for longer punch & ejector pins to be clamped in processing.
- V-block clamping can accurately stabilize workpieces and vertical fine-tuning function can makes setting center easier.
- Adopting high precision double bearings in its structure to achieve higher accuracy, rigidity and stability.
- Stopper design in position slot and easier for precisely stabilize polygonal punches.
- Improvement in dust-proof and water resistance.

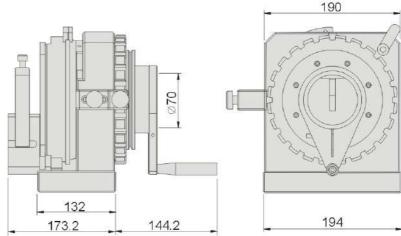
- Precisely ground screw rod for fine-tuning of V-block vertical movement.
- Two clamp plates on both side of V block helps the consistent movement.

Punch forming applications



Center height 130 ± 0.5mm
Clamping dia. range of V-block Ø 3~69.5mm
Travel of V-block · · · · 48mm
Indexer tooth q'ty & accuracy 24,15°±5"
Through hole diameters · · · · · Ø 70mm
Clamping accuracy (50mm) · · · · · · 0.005mm







PFH500 > Precision Punch Former (Big Type)

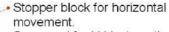


PAT:M421169 ZL 2010 2 0190858.6



Features:

- PFH500 Precision Punch Former have stronger compact structure and long lasting durability.
- Suitable of application on surface grinding machine and capable of forming various shapes of punches as well as electrode.
- ► Due to its vertical & horizontal adjustment function, it is specially suitable for oval punch grinding.
- V-block clamping can accurately stabilize workpieces and vertical fine-tuning function can makes setting center easier.
- Adopting high precision double bearings in its structure to achieve higher accuracy, rigidity and stability.
- Stopper design in position slot and easier for precisely stabilize polygonal punches.
- Improvement in dust-proof and water resistance.



- Screw rod for V block vertical movement...
- Release the screw when make adjustable and lock with slight force.

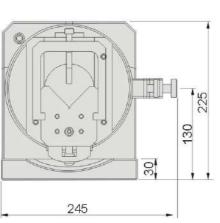
Precisely ground screw rod for fine-tuning of V-block movement.

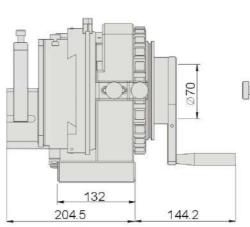
Punch forming applications

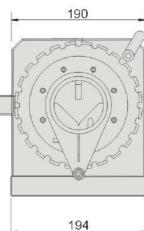


Main parameters:

Center height $\cdots 130 \pm 0.5$ mm
Clamping dia. range of V-block · · · · · · ø 3~69.5mm
Travel of V-block · · · · 48mm
Indexer tooth q'ty & accuracy $\cdots 24.15^{\circ}\pm5$ "
Through hole diameters ····· Ø70mm
Clamping accuracy (50mm) · · · · · 0.005mm
Slide plate horizontal movement $\cdots \pm 30 \text{mm}$







PUNCH FORMER

50600 PFH600

Precision 3-Jaws Punch Former (Big Type)





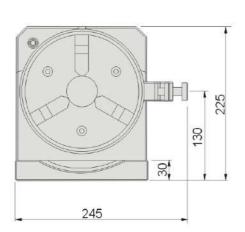
N.W. 27kg

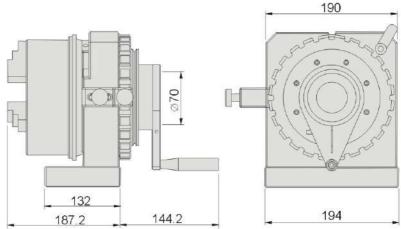
ZL 2010 2 0190858.6

Features:

- PFH600 have stronger structure leading lasting
- ► PFH600 provide rapid clamping and it suitable for mass production, workpiece with round shaped can precisely & rapidly clamped.
- Let use to accumulated tolerance when clamping different sizes of workpieces, special design in adjustment of for user own application.
- Further jaw attachment can clamp workpeice with larger diameters.
- Adopting high precision double bearings in its structure to achieve higher accuracy, rigidity and stability.

	130 ± 0.5mm
	curacy 24,15°±5"
Through hole diamete	rs Ø 70mm
Hole dia. of 3-Jaw Chu	ıck ø 45mm
Min. clamping range	O.D. Ø4mm, I.D. Ø48mm
Max. clamping range	O.D. Ø 160mm, I.D. Ø150mm
Rotational accuracy	0.003mm
Repeat accuracy	0.015mm







50650 PFH600M Motorised Precision 3-Jaws Punch Former (Big Type)

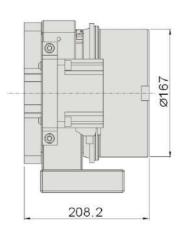


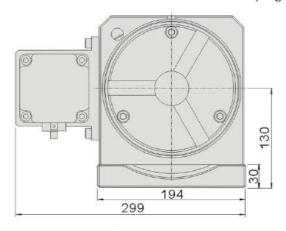


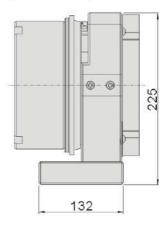
Features:

- Motorised function prevent human fatigue when processing.
- ▶ PFH600M provide rapid clamping and it suitable for mass production, workpiece with round shaped can precisely & rapidly clamped.
- Due to accumulated tolerance when clamping different sizes of workpieces, special design in adjustment for user own application.
- Further jaw attachment can clamp workpeice with larger diameters.
- Adopting high precision double bearings in its structure to achieve higher accuracy, rigidity and stability.

Main parameters:







Order No.	Model	Chuck Spec.	Voltage	N.W.
50650-110	PFH600M	SC06	110V	30kg
50650-220			220V	30kg

50700 GPFE Center Punch Former



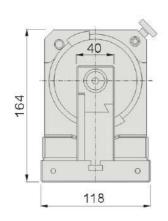


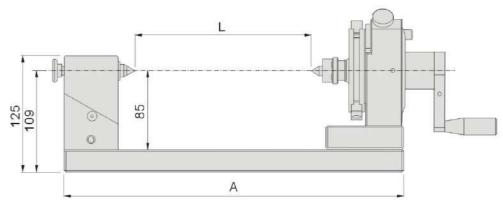
Features:

- Center Punch Former apply Live Center at both sides to clamp punch to achieve concentricity.
- Live center stabilize the processing and achieve higher accuracy.
- It is mainly apply on bushes and cylinder which needs precision cylindrical grinding on surface grinding machines.

Main parameters:

man parameters.
Center height without base ····· 85mm
Center height with base 109mm
Indexer tooth quantity & accuracy ···· 24,15°±10"
Live Center clamping range · · · · · · · · 0~450mm
Material ······ SKS3, HRC60~62°
Roundness 0.002mm
Parallelism 0.002mm/100mm
Squareness 0.002mm/100mm





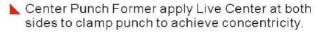
Order No.	Model	Α	L	Rotary Angle	N.W.
50700-15	GPFE150	375	0~150		20kg
50700-25	GPFE250	475	0~250	2000	23kg
50700-35	GPFE350	575	0~350	360°	26kg
50700-45	GPFE450	675	0~450		29.5kg

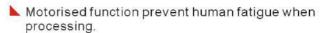


50750 GPFEM > Motorised Center Punch Former



Features:

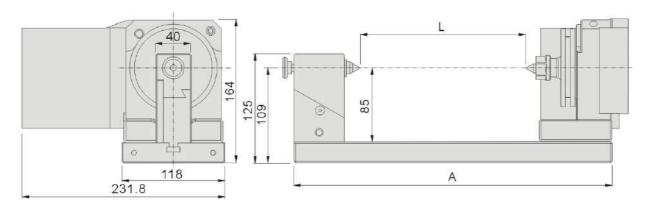




- Live center stabilize the processing and achieve higher accuracy.
- It is mainly apply on bushes and cylinder which needs precision cylindrical grinding on surface grinding machines.

Main parameters:

Center height without base ····· 85mm
Center height with base 109mm
Clamping range 0~450mm
Motor output, Voltage15W, IPH, 110/220V
Motor speed 50/60HZ50~550RPM
Material of Punch Former SKS3, HRC60~62°
Roundness 0.002mm
Parallelism · · · · 0.002mm/100mm
Squareness 0.002mm/100mm



Order No.	Model	Α	L	Rotary Angle	N.W.
50750-15-110	0000015011	275	0.450		001
50750-15-220	GPFE150M	375	0~150	2000	23kg
50750-25-110	ODEFORM	475	0~250		26kg
50750-25-220	GPFE250M				
50750-35-110	GPFE350M	575	0- 350	360°	20149
50750-35-220		575	0~350		29kg
50750-45-110	005545014	675	0. 450		22 Ekg
50750-45-220	GPFE450M	675	0~450		32.5kg







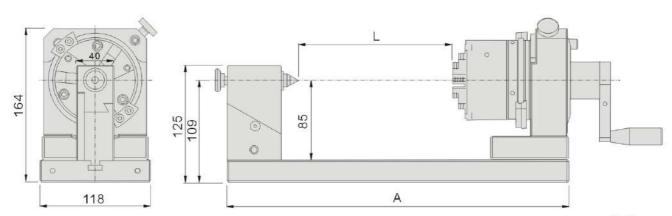
Material:

Punch Former: SKS3 HRC60~62° 3-Jaw Chuck: Meehanite cast iron

Features:

- 3-Jaw Center Punch Former apply 3-Jaw Chuck to clamping workpieces with rapid and easy loading process.
- Lit is capable of grinding long punches which cannot be processing by conventional Punch Formers.
- Live center stabilize the processing and achieve higher accuracy.
- lt is mainly apply on bushes and cylinder which needs precision cylindrical grinding on surface grinding machines.

Main parameters:



Order No.	Model	O.D. Range	I.D. Range	Α	L	Rotary Angle	N.W.						
50800-15	GPFC150			375	0~150		20kg						
50800-25	GPFC250	20.70	~~4	204 C4	204 C4	201 C1	~~~ ~~ ~~ ~~	204.04	2 70 804 04	475	0~250	0000	23kg
50800-35	GPFC350	− ø2~70	Ø24~64	575	0~350	360°	26kg						
50800-45	GPFC450			675	0~450		29.5kg						





Material:

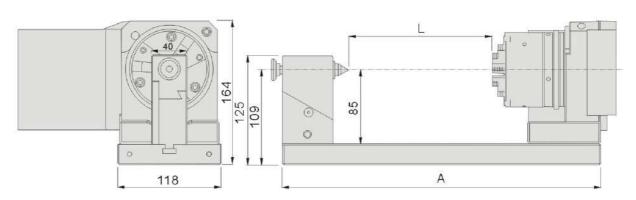
Punch Former: SKS3 HRC60~62° 3-Jaw Chuck: Meehanite cast iron

Features:

- 3-Jaw Center Punch Former apply 3-Jaw Chuck to clamping workpieces with rapid and easy loading process.
- Motorised function prevent human fatigue when processing.
- Live center stabilize the processing and achieve higher accuracy.
- It is mainly apply on bushes and cylinder which needs precision cylindrical grinding on surface grinding machines.

Main parameters:

Center height without base 85mm
Center height with base 109mm
Motor output, Voltage15W 110/220V
Motor speed 50/60HZ 50~550RPM
Hole dia. of 3-Jaw Chuck Ø 16mm
Diameter of 3-Jaw Chuck Ø 85mm
Roundness
Parallelism ····· 0.002mm/100mm
Squareness 0.002mm/100mm



Order No.	Model	O.D. Range	I.D. Range	Α	L	Rotary Angle	N.W.
50850-15-110	005045014			0.75	0.450		001
50850-15-220	GPFC150M			375	0~150		23kg
50850-25-110	005005014			475 C	0.050	2000	26kg
50850-25-220	GPFC250M	~0.70	001 C1		0~250		
50850-35-110	ODEOGEONA	Ø2~70	Ø24~64	E75	0~350	360°	2014
50850-35-220	GPFC350M			575	0~350		29kg
50850-45-110	005045014	250.45014		675	0.450		32.5kg
50850-45-220	GPFC450M			675	0~450		32.0 K g

51000

PF300

Punch Former (big)



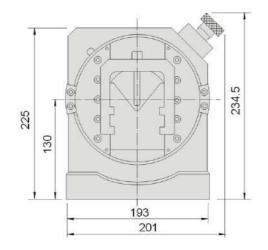


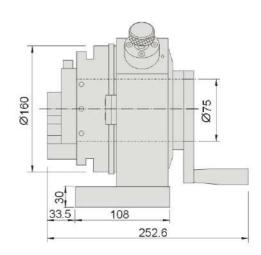
N.W. 21.3kg

Features:

- ► PF300 Punch Former is special designed for larger punch under Ø70.
- Suitable of forming various shapes of punches as well as electrode.
- PF300 has through hole design for longer punch & ejector pins to be clamped in processing.
- V-block clamping can accurately stabilize workpieces and vertical fine-tuning function can makes setting center easier.

Center height 130mm
Clamping dia range of V-block Ø 70mm
Travel of V-block 60mm
Indexer tooth q'ty & accuracy 24 .15°±10'
Through hole diameters Ø75mm
Clamping accuracy (50mm) · · · · · · · · · 0 008mm







PF500 > Punch Former (big)

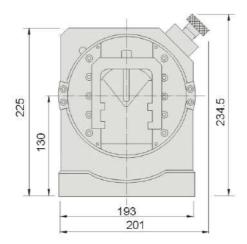


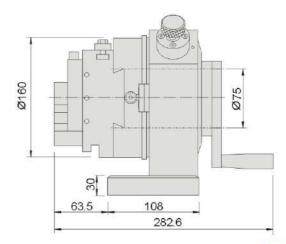


Features:

- ▶ PF500 Punch Former is special designed for larger punch.
- ▶ Due to its vertical & horizontal adjustment function, it is especially suitable for oval punch grinding as well as electrode.
- ▶ V-block clamping can accurately stabilize workpieces and vertical fine-tuning function can makes setting center easier.

Center height · · · · · 130 mm
Clamping dia. range of V-block Ø70mm
Travel of V-block 60mm
Slide plate horiztonal movement $\cdots \pm 25 \text{mm}$
Indexer tooth q'ty & accuracy ······ 24 \15° ±10"
Clamping accuracy (50mm) Ø75mm
Through hole diameters 0.008mm







51080

PF600

3-Jaws Punch Former (big)



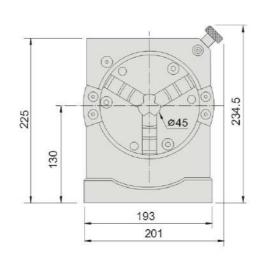


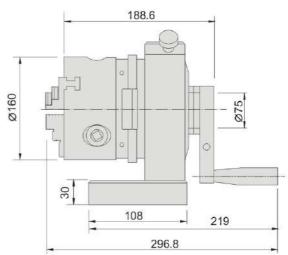
N.W. 24.3kg

Features:

- ▶ PF600 provide rapid clamping and it suitable for mass production, workpiece with round shaped can precisely & rapidly clamped.
- Due to accumulated tolerance when clamping different sizes of workpieces, special design in adjustment of horizontal and roundness for user own application.
- Further jaw attachment can clamp workpeice with larger diameters.

Center height · · · · · 130mm
Indexer tooth q'ty & accuracy 24,15°±10'
Through hole diameters Ø 45mm
Hole dia. of 3-Jaw Chuck · · · · Ø 45mm
3-Jaw chuck repeat accuracy ······ 0.015mm
Min. clamping range: Outer dia Ø 4mm
Inner dia.····Ø 48mm
Max. clamping range: Outer dia: Ø 160mm
Inner dia Ø150mm





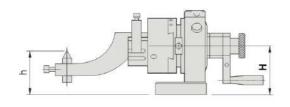


Punch Forming Applications





Wheel Dreesing Applications



Features:

- Suitable for precision grinding different kinds of punches and electrodes of EDM in a surface grinding machine.
- Thanks to its vertical & horizontal movement allows oval punch forming.
- V-block needs to be adjusted to center depending on different dia. Of the workpieces in order to achieve 0.005mm accuracy.
- Standard accessory; crank for dressing grinding wheel into various cross sections of flat or curved shaoes.

Main parameters:

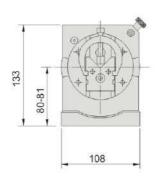
Center height 80 ~ 81mm
Clamping dia. range of V-block Ø 4 ~ 30mm
Travel of V-block 30mm
Slide plate horiztonal movement $\cdots \pm 12.5$ mm
Indexer tooth q'ty & accuracy 24,15°±10"
Clamping accuracy (50mm) 0.005mm
Capable wheel size of dressing · · · · · · Ø 200mm
Max. radius dressing Convex R48mm
Concave ·····R100mm

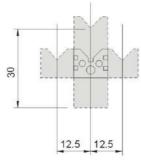
Calculation Formula:

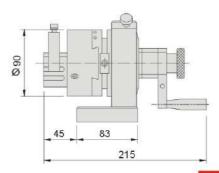
Dressing convex arc ······ h=H-R
Dressing concave arc h=H+R
h: distance from tip of diamond to base of Punch
Former

H: Center height of Punch Former

R: Radius of the arc to be dress











N.W. 7.6kg

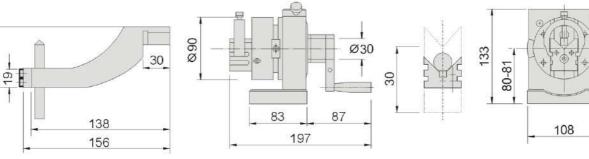
Features:

- PFB has same function as PFA except for the eccentric horizontal movement due to its through hole design for longer ejector pins processing capability.
- Standard accessory; crank for dressing grinding wheel into various cross sections of flat or curved shaoes.
- Optional accessory PFB1 to achieve angular wheel dressing.
- Optional accessory SVB to achieve min. Ø0.5mm clamping capability.

Main parameters:

Center height 80 ~ 81mm
Clamping dia. range of V-block Ø 4 ~ 30mm
Travel of V-block 30mm
Indexer tooth q'ty & accuracy 24,15°±10"
Clamping accuracy (50mm) 0.005mm
Through hole dia Ø 30mm
Capable wheel size of dressing Ø 200mm
Max. radius dressing Convex ····· R48mm
Concave ·····R100mm





Punch forming	Radius wheel dressing	Angular wheel dressing

Punch forming applications

Grinding wheel dressing application

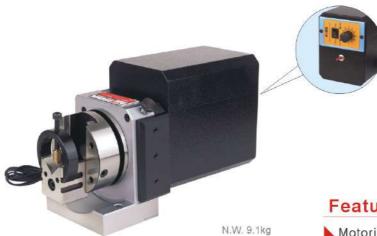






PFBM

Motorised Punch Former





Features:

- Motorised function prevent human fatigue when processing.
- ▶ Increase efficiency when processing punches.

Main parameters:

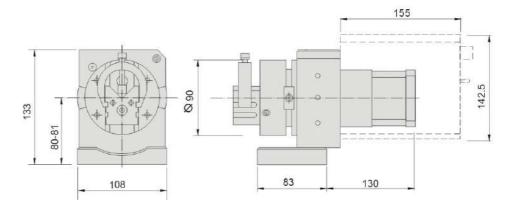
Center height · · · · 80 ~ 81mm
Clamping diameter in V-slot · · · · · Ø 4 ~ 30mm
Travel of V-block
Clamping accuracy (50mm) · · · · · 0.005mm
Roller driving motor 110V/60HZ · · · · 50~300rpm
Roller driving motor 220V/50HZ · · · · 50~300rpm

Note:

Variable speed from 1 to 100 ratio, when 100 is set the top speed is 300rpm, when set on 100 rpm, the panel is set approx. 30 ratio.



View without dust cover



Order No.	Model	Volts
51160-110	PFBM	AC110V
51160-220	FFDIVI	AC220V

PFC

>> 3-Jaw Punch Former





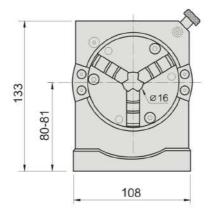
N.W. 7.6kg

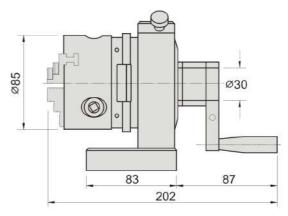
Features:

- Precision 3-Jaw Chuck provide rapid clamping and it suitable for mass production.
- Due to the accumulated tolerance incurred, there is design for adjustment function for users, both horizontal and roundness.
- Further reversed jaw attachment provides capability of clamping larger workpeice.

Main parameters:

Center height ·····	80 ~ 81mm
Indexer tooth q'ty & accur	racy 24,15°±10"
Through hole diameters-	Ø30 mm
Rotational accuracy	0.003mm
Repeat accuracy	0.015mm
Hole dia. of 3-Jaw Chuck	
Min. clamping range	O.D. Ø2mm, I.D. Ø24mm
Max. clamping range	O.D. Ø 70mm, I.D. Ø 64mm







51210 PFCM Motorised 3-Jaw Punch Former

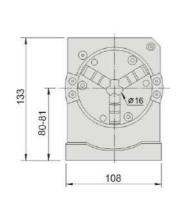


- Motorised function prevent human fatigue when processing.
- lncrease efficiency when processing punches.

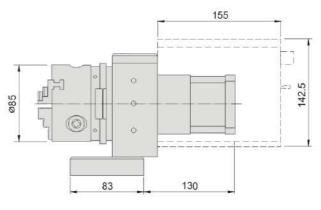
80 ~ 81mm
0.003mm
0.015mm
Ø 16mm
O.D. Ø 2mm, I.D. Ø 24mm
O.D. Ø70mm, I.D. Ø64mm
50 ~ 300 RPM
50 ~ 300 RPM

Note:

Variable speed from 1 to 100 ratio, when 100 is set the top speed is 300 rpm, when set on 100 rpm, the panel is set approx. 30 ratio.



dust cover

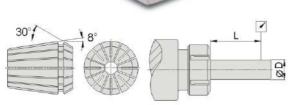


Order No.	Model	Volts
51210-110	PFCM	AC110V
51210-220		AC220V









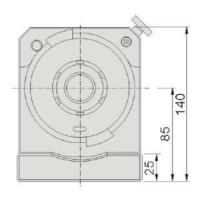
D 精度 6 1.0-1.6 0.01 10 1.6-3.0 0.01 16 25 3.0-7.0 0.01 0.01 7.0-10.0 40 10.0-18.0 0.01 0.01 50 18.0-24.0 24.0-34.0 0.01

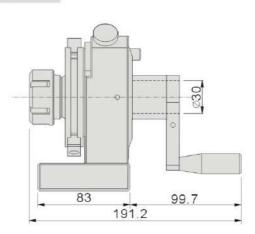
特點:

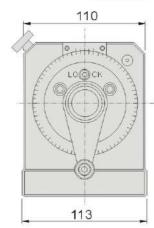
- ▶ PF650筒夾式ER冲子成型器具較佳結構之强 度與耐用性。
- ▶ 筒夾式冲子成型器附有ER筒夾,筒夾可伸縮使 用範圍1毫米。
- ▶ 筒夾夾持範圍:最小夾持Ø2毫米,最大夾持Ø26 毫米。
- ▶ 本機可快速且穩固的夾持工件,加工時可更穩 定的使用,且不必調整中心度即可使用。
- ▶採用高精密雙組軸承的主軸設計,以達到高精 密及穩定性。並有傳統型數倍以上的壽命。

王	要	參數	

中心高······85±0.5mm
分度盤齒數、精度······ 24、15°±10"
貫穿孔直徑 ····· Ø30mm
主座回轉精度 0.003mm







訂購編號 Order No.	型號 Model	筒夾規格	重量 N.W.
50090-01	PF650-ER20	3, 4, 6, 8, 10	5.5kg
50090-02	PF650-ER32	4, 8, 12, 16, 20	6.5kg
50090-03	PF650-ER40	6, 10, 16, 20, 25,	6.6kg



PFDM

Motorised ER Collet Punch Former





View without dust cover



R40



ER32 ER16



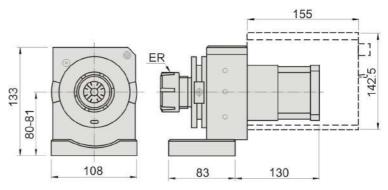
- Motorised function prevent human fatigue when processing.
- With ER collets, the flexible range of collet is 1mm.
- Clamping under 4mm apply ER16 collet.
- ► PFDM can rapidly clamp the workpiece and achieving higher stability during processing, no need to adjust the center accuracy.
- ► This model is compatible with various ER collets such as ER16, ER32, ER40 etc...

Main parameters:

Center height ·····	····· 80 ~ 81mm
Motor : 110V/60Hz · · · · · · · · · · · · · · · · · · ·	50 ~ 300 RPM
Motor : 220V/50Hz · · · · · · · · · · · · · · · · · · ·	50 ~ 300 RPM

Note:

Variable speed from 1 to 100 ratio, when 100 is set the top speed is 300rpm, when set on 100 rpm, the panel is set approx. 30 ratio.



Order No.	Model	Collet Size	Volts	N.W.
51260-16-110	PFDM-ER16	2、3、4、6、8	AC110V	8.2kg
51260-16-220			AC220V	
51260-32-110	PFDM-ER32	4、8、12、16、20	AC110V	9.2kg
51260-32-220			AC220V	
51260-40-110	PFDM-ER40	6、10、16、20、25	AC110V	10.2kg
51260-40-220			AC220V	



SPF50

Sine Plate for Punch Former

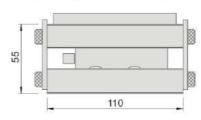


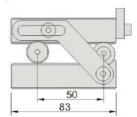


N.W. 3.3kg

Features:

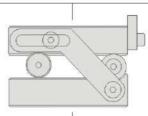
- SPF50 Sine Plate is designed for applying on PFA, PFB, PFC & PFD to make sine angles for processing workpiece.
- ► Hardness:HRC55°
- Accuracy:within 0.005mm
- ► Max angle is 55°
- Gauge block for angle setting refer to 55070.











Sine Punch Former



51300-01 SPFB



51300-02 SPFC



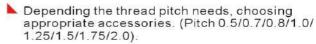
51300-03/04/05 SPFD-ER16/32/40



Replaceable type Thread Grinding Slider

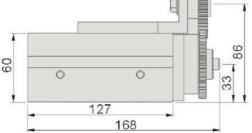
Features:

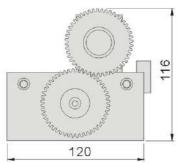




Standard accessory: P1.0, and two extra thread bars from abovementioned spec. , Dust proof cover is also included.

Custom made thread bar is available.







Application examples:





Thread Grinding Slider.





GTFB

Stroke 50mm

GTFC

GTFD-ER16/32/40



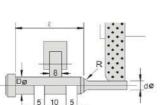


PGA

Punch Grinder

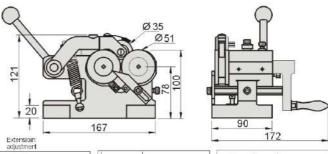




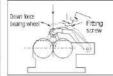


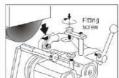
Features:

- ▶ PGA can be applied on surface grinder and automatically find concentricity for cylindrical grinding.
- The rollers can be used to adjust the workpiece before grinding.
- Use screw pressure for firm holding as shown in the picture for heavy grinding.
- Accuracy of roller is within 0.005mm. It can grind punches of outside diameter from 1.5 to 25mm, extended grinding length is within 5-35mm.



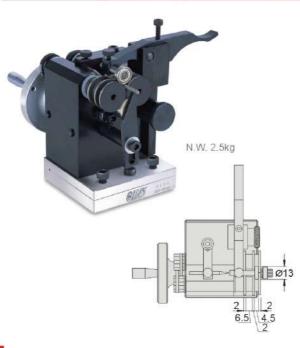




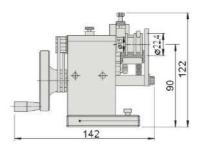


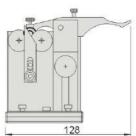


51500 PGAS Punch Grinder



- ▶ PGAS can be applied on surface grinder and automatically find concentricity for cylindrical grinding from Ø0.5 to Ø10mm, for longer workpiece job, refer to 55441 PGCF model.
- For measuring concentricity purpose, PGAS can measure from Ø0.5 to Ø25mm with accuracy 0.003mm.







PGAM

Motorised Punch Grinder



Features:

- ► Motor Punch Grinder just by putting on surface grinding machine.
- No center alignment necessary .Just put work on rollers.
- Portable with single hand, thus easily set on grinding.
- With rollers motor-driven attention can be concentrated on table wheel feeds.
- Double roller unit available for long pin or punch grinding.
- It can be used with magnetic sine plate to grind various angle profile punch.

Main parameters:

 Length of Workpiece
 20-120mm

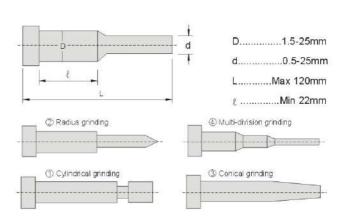
 Outside Grinding Length
 5-35mm

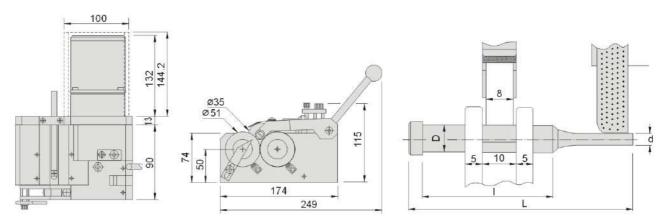
 Grinding Diameter
 Ø1.5-Ø25mm

 Accuracy
 0.005mm

 Roller driving motor 110V/60HZ
 129rpm

 Roller driving motor 220V/50HZ
 108rpm





Order No.	Model	Volts
51550-110	PGAM	AC110V 1Phase
51550-220	FGAIVI	AC220V 1Phase



52100 WD165

NHEEI DRESSER

Universal Wheel Dresser

PAT: 156082 ZL 99 2 11126.9



Order No.	Model	Spec
52100-11	WD165	Inch
52100-12		Metric

Features:

- Mode WD165 Universal Wheel Dresser Adaptable on surface grinding machine and universal tool grinder for dressing grinding wheels into various cross sections of flat or curved shapes.
- Diamond pin is not included.

Calaculation Formulars

H=L=0R

To dress convex arc surface: H=L+R To dress concave arc surface : H=L R

H: distance between outer generating lines of two locating pins.

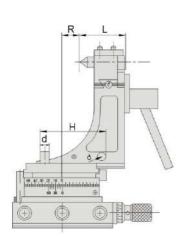
R: Radius of the arc surface to be dressed.

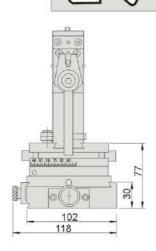
L: distance from tip of diamond cutter to base plate

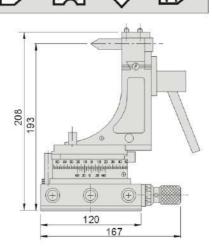
Main parameters:

Center height · · · · 193mr	η
Measuring guide diameter Ø10mr	r
Max. swing distance of diamond cutter ±14mr	n
Max. wheel diameter Ø 205mr	n
Reading accuracy of turret index	5
Max. translation of feed · · · · · 25mr	n
Feed per division of handle scale 0.01mr	n
Max.dressing convex arc 50R ,concave arc 0~100	

Wheel Dreesing Applications









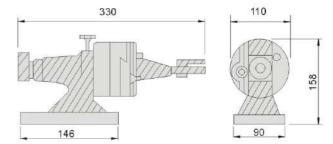
RDA

Radius and Angle Dresser



Features:

- Automatic return to zero, by applying with gauge block and you can get the desire concave and convex angle.
- Max. convex R45mm, Max concave R100mm, Max horizontal movement is 65mm. Max.applicable wheel dressing is Ø350mm



Wheel Dreesing Applications



52200

RDB

Radius and Angle Dresser

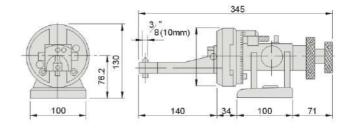


Wheel Dreesing Applications



Features:

NDB Max. convex R45mm, Max concave R100mm, Max horizontal movement is 65mm Max.applicable wheel dressing is Ø325mm



52250

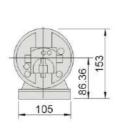
RDC

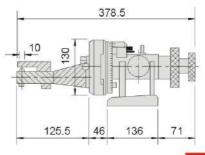
Radius and Angle Dresser



- ► RDC Max. convex R60mm, Max concave R150mm, Max horizontal movement is 90mm.
- ▲ Max.applicable wheel dressing is Ø279mm













Wheel Dreesing Applications

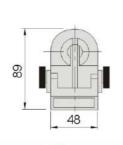
Features:

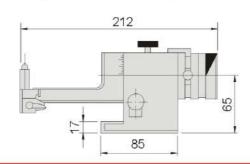
- ► KT50 is mainly applied on surface grinding machine and universal tool grinder.
- By "sighting" the diamond point through the lens, radius and angles can easily be made into various cross sections of flat or curved shapes.

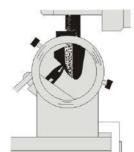
Main parameters:

Center height · · · · 65mm
Max. wheel dia Ø205mm
Max. Convex radius · · · · · 0.2~10mm
Max. Concave radius · · · · · 0.2~25.4mm
Dressing Angle 95°-0° -95°
Tangential travel 22.5mm

Order No.	Model	Spec
52300-11	KT50	Inch
52300-12	KISU	Metric

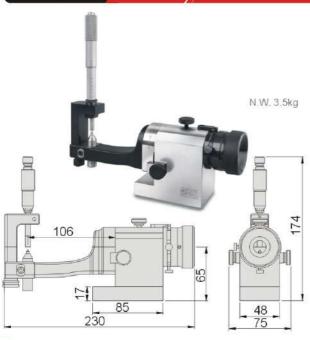






KT50S

Visual Radius and Angle Dresser



Features:

- KT50S is mainly applied on surface grinding machine and universal tool grinder.
- By "sighting" the diamond point through the lens, radius and angles can easily be made into various cross sections of flat or curved shapes.

Main parameters:

Center height · · · · 65mm
Max. wheel dia Ø205mm
Max. Convex radius · · · · 10mm
Max. Concave radius · · · · 25.4mm
Dressing Angle 95°-0° -95°

Wheel Dreesing Applications

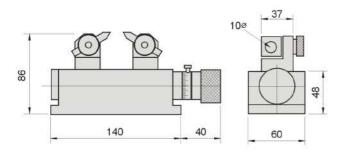


DF60

>> Precision Duplex Dresser



N.W. 3.2kg



Features:

Specially designed for simultaneously dressing both sides of grinding wheel, achieving accurate performance and more efficient than conventional dressers.

Specifications:

Maxi width of wheel · · · · · · · · · · · · · · · · · ·	40mm(1-9/16")
Maxi dressing depth	40mm(1-9/16")
Mini dressing width	0.2mm(0.0079")
scale reading / DIV······	0.02mm(0.001")

Max.thickness	Min.thickness	Max.depth
40mm	0.2mm	40mm

Order No.	Model	Spec
52350-11	DF60	Inch
52350-12		Metric

52360

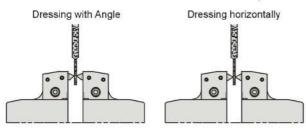
DF50

Precision Duplex Dresser

PAT: 174305 ZL 00 2 31135.6

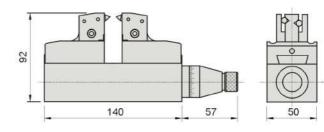


N.W. 3.4kg



Max.thickness	Min.thickness	Max.depth
20mm	0.2mm	40mm

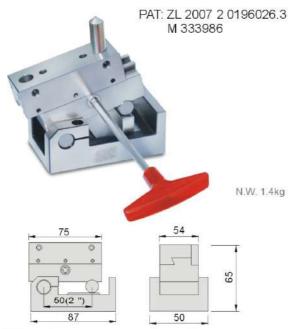
- It adopts sealed construction and keep the dust out, with large surface of the guiderail, it stabilize and ensure accuracy.
- Diamond nibs can be adjusted parallel or with angle, and center aligned, scale reading 0.01mm on each division.
- Made of stainless steel.



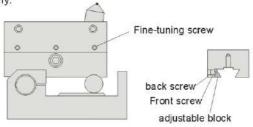
Order No.	Model	Spec
52360-11	DF50	Inch
52360-12		Metric







AP50H has three screw holes for fine-tuning purpose, each holes contain two screws, one at the front, the other one at the rear. When adjusting rear screw pushing front screw forward and make the wedge moves, then move the slide until work smoothly.



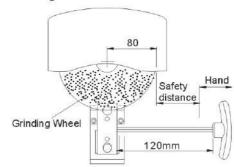
Before applying AP50H, check the slide is tight or loose, if loose, simply light adjust fine-tuning screw until it smooth. This tool is high precision and capable of dressing any angles.

Features:

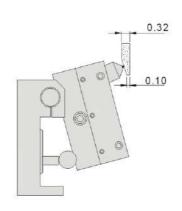
- ▲ AP50H provides gear driven and it is designed for better prevention and protection for the beginner.
- ▶ Double axis center accuracy is ±0.002mm
- ▶ It has the same function as model (52400 AP50D).
- ► It has stroke of 60mm.

Order No.	Model	Spec
52380-11	AP50H	Inch
52380-12	APSUH	Metric

Applying gears driven to make forward/backward movement and installed with diamond pin on the slide. For safety purpose, hexagon wrench is applied with certain safety distance in order to support user to function AP50H and thus precisely dressing the demand angle.



 $\mbox{AP50H}$ has its own Patent and it basically the improved version of original type. Below is the comparison.



AP50H	AP50		
1.Applying gears driven	1.Applying manually		
2.Safety distance when applying	2.Close to wheel when applying		
3.Three fine-tuning screw at side	3.No fine-tuning function		
 Easy to achieve precision dressing for any user 	 Must have specialist to make precision dressing 		



AP50

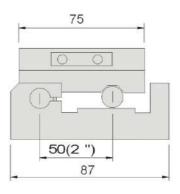
Angle Sine Dresser

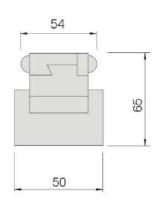
PAT: 191154 ZL 99 2 11094.7

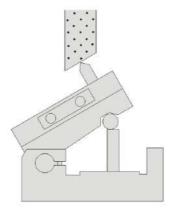


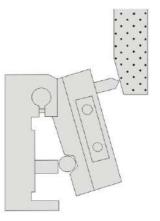
- AP50 has various Patents, regardless inconvenience of the conventional Angle Sine Dresser, release screws on both side and free to adjust any needed angle.
- Remove the slide block and it can be used as 50mm Sine Plate.
- ➤ Suitable for vertical or horizontal angles, sine angle 0-60° (horiontal), 45-90°(vertical) and both are within 0.005mm accuracy.
- ▶ Double axis accuracy is ±0.002mm.
- lt has stroke of 65mm.

N.W. 1.4kg









Order No.	Model	Spec
52400-11	ADEO	Inch
52400-12	AP50	Metric

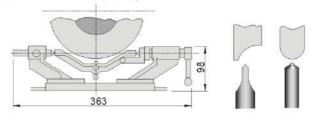






Features:

- RD30 is accurately controlled by handle, suitable for small convex/concave dressing, Convex R0.2~12mm, Concave R0.2~20mm.
- ► Suitable for applying wheel under Ø205mm



52440

RD30A

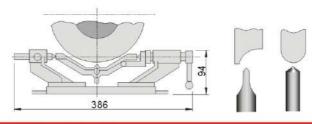
Precision Concave Convex Forming Dresser



N.W. 2.8kg

Features:

- ► RD30A is accurately controlled by handle, suitable for small convex/concave dressing, Convex R0.2~12mm, Concave R0.2~20mm.
- Leading Suitable for applying wheel under Ø 205mm

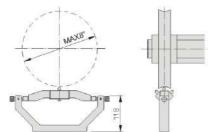


52450

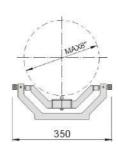
RD40

Concave Convex Forming Dresser





- This medium type dresser is applied to surface grinders for convex and concave dressing.
- Suitable for wheels under 8" (Ø205mm).
- ► Work range: Convex R0.5-40mm
- Concave R0.5-90mm
- Diamond pin is optional







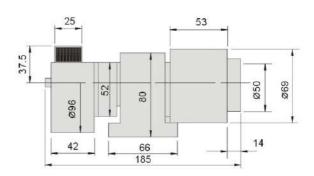
DT100 >

Diamond Wheel Trimmer



Features:

- ► DT100 is designed for dress peripheral wheels on machines with a vertical or horizontal spindle.
- The diamond wheel can be changed depending on the wheel that is going to be dressed. Especially, CBN or Diamond.



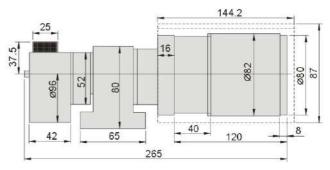
52550

DTM100

Motorised Diamond Wheel Trimmer



- Motorised resin emery wheel can dress the diamond wheel flatness easily
- ➤ The diamond wheel can be changed depending on the wheel that is going to be dressed. Especially, CBN or Diamond.
- ► Roller driving motor 110V/60HZ 129rpm
- Roller driving motor 220V/50HZ 108rpm



Order No.	Model	Volts	
52550-110	DTM100	AC110V 1Phase	
52550-220	DIMIO	AC220V 1Phase	



Grinding Machine Accessories

52554 F250 F250 Flange

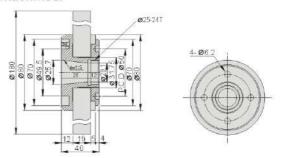




N.W. 0.7kg

Features:

► F250 Flange is used in cylinder of KENT grinding machines.



52556

F350

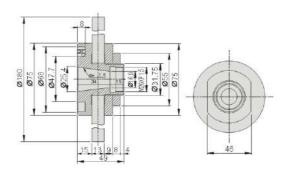
F350 Flange



N.W. 0.9kg

Features:

► F350 Flange is used in cylinder of TATUNG-OKUMA grinding machines.



52558

F450

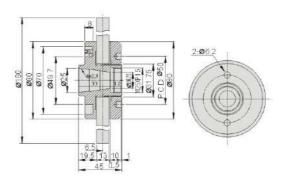
F450 Flange



N.W. 0.9kg

Features:

► F450 (USA) is used in cylinder of US standard grinding machines.



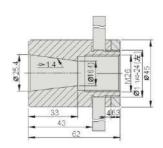


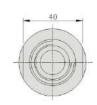
F300

F300 Flange

Features :

► F300 is applied to 614, 618 surface grinding machine.





N.W. 0.6kg

52562

F320

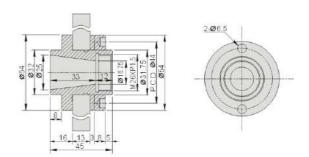
F320 Flange

Features:

▶ F320 is used for cylinder of Tool Grinder.



N.W. 0.4kg



52564

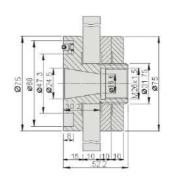
F520

F520 Flange

N.W. 1.0kg

Features:

► F520 is used in OKAMOTO 52DX cylinder and control the tolerance within 0.003mm.





GRINDING MACHINE ACCESSORIES

Grinding Machine Accessories

52566

W20

W20 Flange

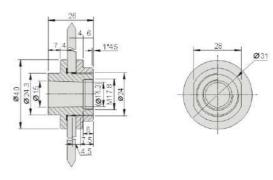




N.W. 0.1kg

Features:

▶ W20 is used in WAIDA Optical Profile Grinder.



52568

W40

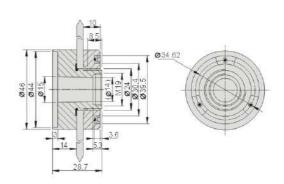
W40 Flange



N.W. 0.2kg

Features:

W40 is used in WAIDA Optical Profile Grinder.



52570

P60

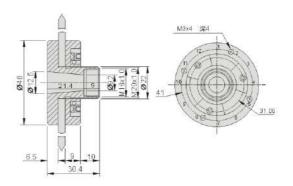
P60 Flange



N.W. 0.2kg

Features:

P60 is used in Petewe Optical Profile Grinder.





52572 FC110

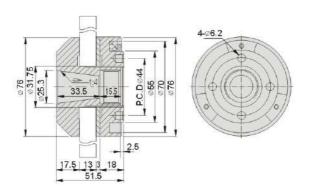
FC110 Flange

Features:

Suitable for applying on WASINO Grinders.



N.W. 1.1kg



FC520

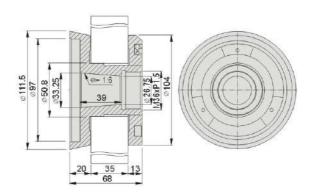
FC520 Flange

Features:

Suitable for OKAMOTO ACC-52DX Grinders.



N.W. 1.95kg



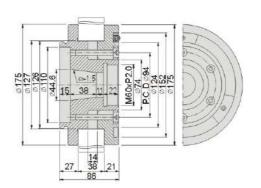
FC630

FC630 Flange

N.W. 8.0kg

Features:

► Suitable for OKAMOTO ACC-63DX, TATUNG PSG-64 Grinders.



Grinding Machine Accessories

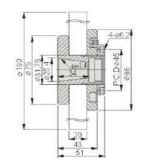
FEB10 FEB10 Flange





Features:

- Laser mark graduation reading on plates
- ► Suitable for TATUNG EN350 Grinders.





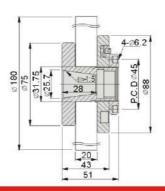
N.W. 1kg

FEB15 Flange



Features:

- Laser mark graduation reading on plates
- ► Suitable for KENT EN250 Grinders.





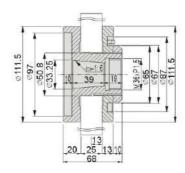
N.W. 1kg

FEB18

FEB18 Flange

- Laser mark graduation reading on plates
- ► Suitable for OKAMOTO ACC-52DX Grinders.







N.W. 2.2kg



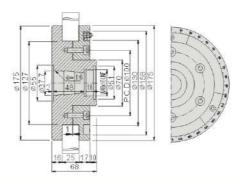
52584 FEB20 FEB20 Flange

Features:

- Laser mark graduation reading on plates
- Suitable for KENT 410 Grinders.



N.W. 8kg



FEB22

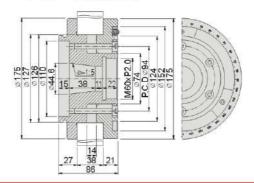
FEB22 Flange

Features:

- Laser mark graduation reading on plates
- ► Suitable for OKAMOTO ACC-63DX, TATUNG PSG-64 Grinders.



N.W. 8kg



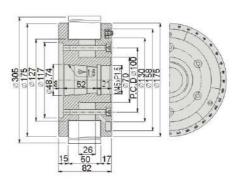
FEB25

FEB25 Flange



N.W. 2.2kg

- Laser mark graduation reading on plates
- Suitable for KENT 515 3rd generation Grinders.

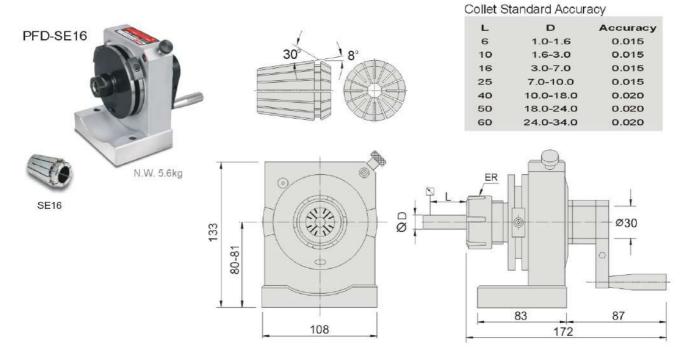








- ▶ With ER collets, the flexible range of collet is 1mm.
- ► Clamping under 4mm apply ER16 collet.
- ► PFD can rapidly clamp the workpiece and achieving higher stability during processing, no need to adjust the center accuracy.
- ▶ PFD-SE16 come with high precision SE16 collet it has accuracy within 0.005mm and flexible range clamping is 0.5mm



8 0.010 5.6k
0.000 0.01
6、20 0.008 6.6k
20、25 0.008 7.6k
2



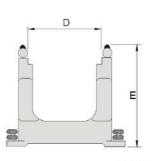
LBS08/14 >> Level Balancing Stand



Features:

- The machine includes a level which can be adjusted by three screws on the machine.
- Lupper round rod and the slide surface had taken heat treatment, hardness 56°-58°.
- Max. applicable dia. of wheel: LBS08 Ø205mm LBS14 Ø355mm





Unit:mm

Order No.	Model	Max. Applicable Dia	A	В	С	D	E	N.W.
52596-08	LBS08	205	155	130	226	115	185	4kg
52596-14	LBS14	355	180	160	260	125	235	4.6kg

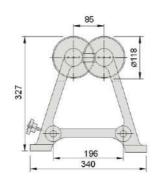
WBS300

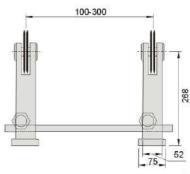
Wheel Balancing Stand



**Custom made for Max. Ø800mm is available on request

- Better cost effectiveness and extend grinding wheel life.
- Portable and adjustable with friendly operation.
- Adopting super-sensitive bearings.
- Made of aluminum alloy with lightweight design.
- ▲ 4 precisely ground and polished revolving discs hardened HRC56°~58°
- Max. range of the two side-rollers is 300mm.
- Max. applicable dia. of wheel:Ø508mm.





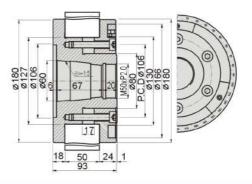
52590 FEB30 FEB30 Flange





Features:

- Laser mark graduation reading on plates
- Suitable for CHEVALIER 0701 Grinders.



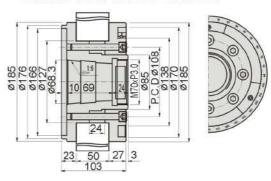
FEB35

FEB35 Flange



Features:

- Laser mark graduation reading on plates
- Suitable for KENT 816 Grinders.



52594 FEB40 FEB40 Flange



- Laser mark graduation reading on plates
- Suitable for large OKAMOTO Grinders.

