

Punch Former

Grinding Accessories



A01-A62

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Precision Punch Formers (Stainless)



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Precision Punch Formers



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A62

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Punch Former

50010

PFH350

Precision Punch Former

PUNCH FORMER



PAT:M386114
ZL 2010 2 0190858.6

N.W. 10kg



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 punches.
- ▶ 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.

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.

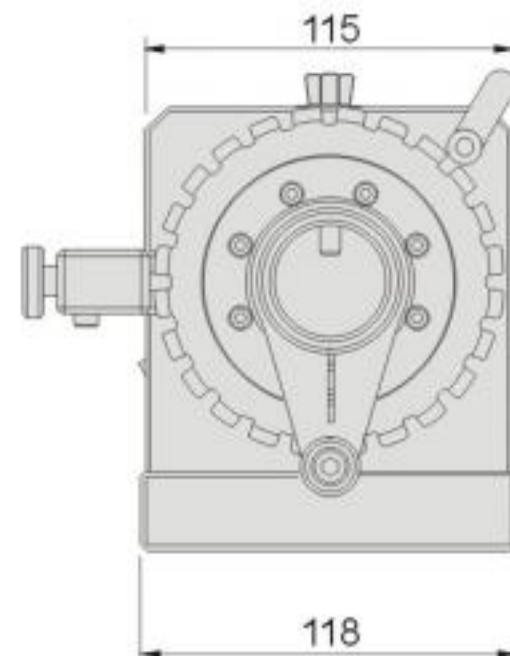
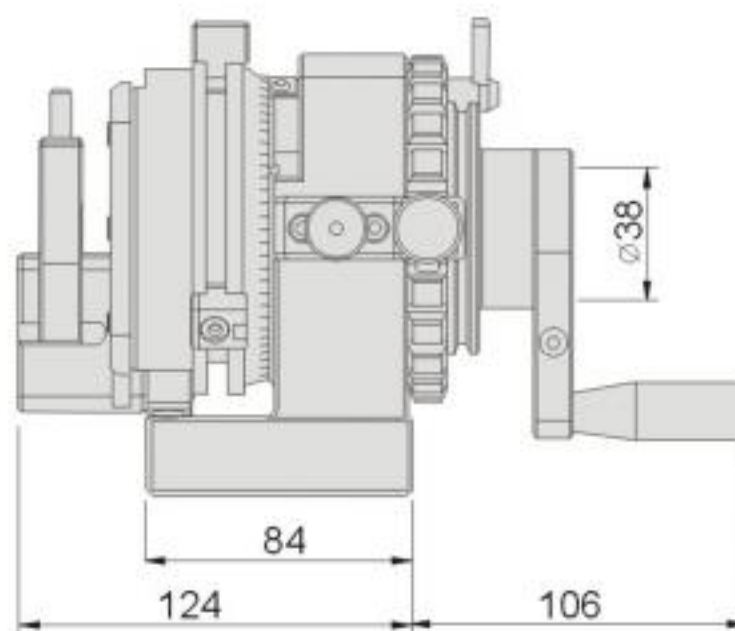
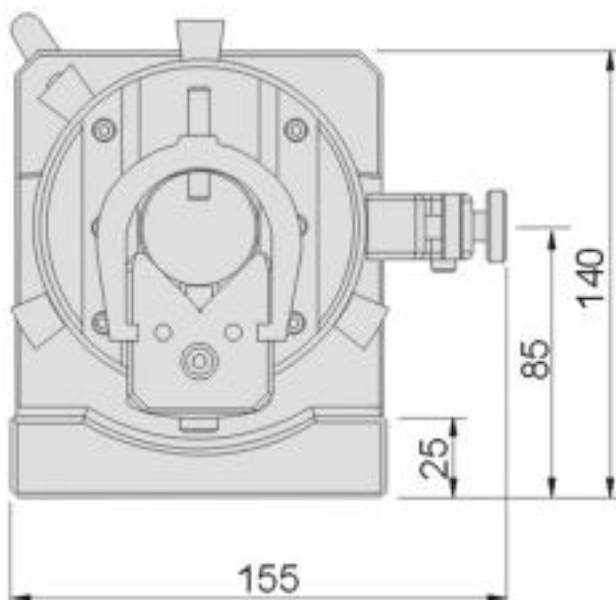
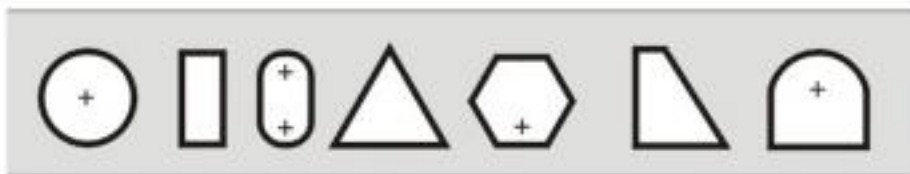
Precisely ground screw rod for fine-tuning of V-block vertical movement.



Main parameters:

| | |
|--------------------------------------|--------------|
| Center height | 85 ± 0.5mm |
| Clamping dia. range of V-block | ∅ 3~38mm |
| Travel of V-block | 30mm |
| Indexer tooth q'ty & accuracy | 24, 15° ± 5" |
| Clamping accuracy (50mm) | 0.005mm |
| Through hole diameters | ∅ 36mm |

Punch forming applications



50020 PFH450 Precision Punch Former



PAT:M423023
ZL 2010 2 0190858.6

N.W. 12kg



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.

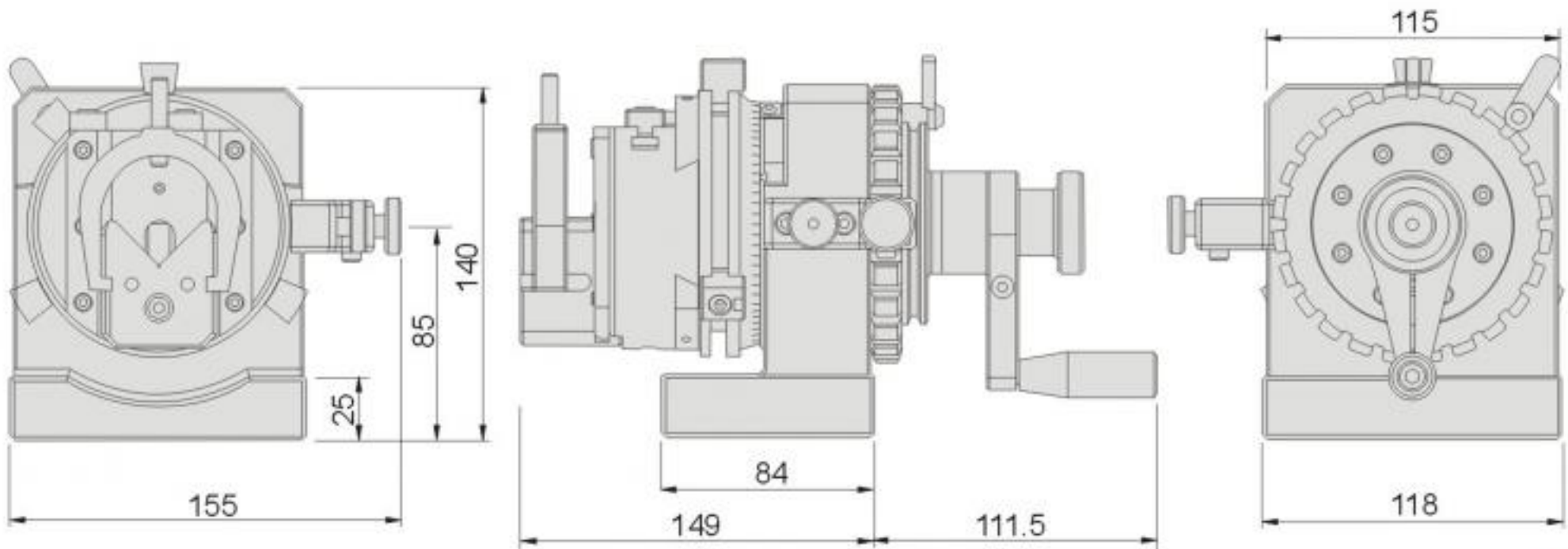
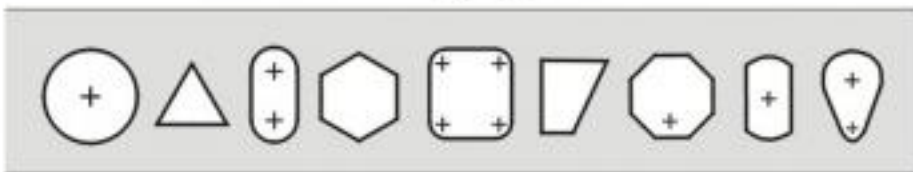
Features :

- ▶ 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 punches.
- ▶ 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.

Main parameters:

| | |
|---------------------------------------|--------------|
| Center height | 85 ± 0.5mm |
| Clamping dia. range of V-block | ∅ 3~38mm |
| Travel of V-block | 38mm |
| Indexer tooth q'ty & accuracy | 24, 15° ± 5" |
| Clamping accuracy (50mm) | 0.005mm |
| Slide plate horizontal movement | ±18mm |

Punch forming applications



Punch Former

50030

PFH

Multi-Flex Punch Former - Body only



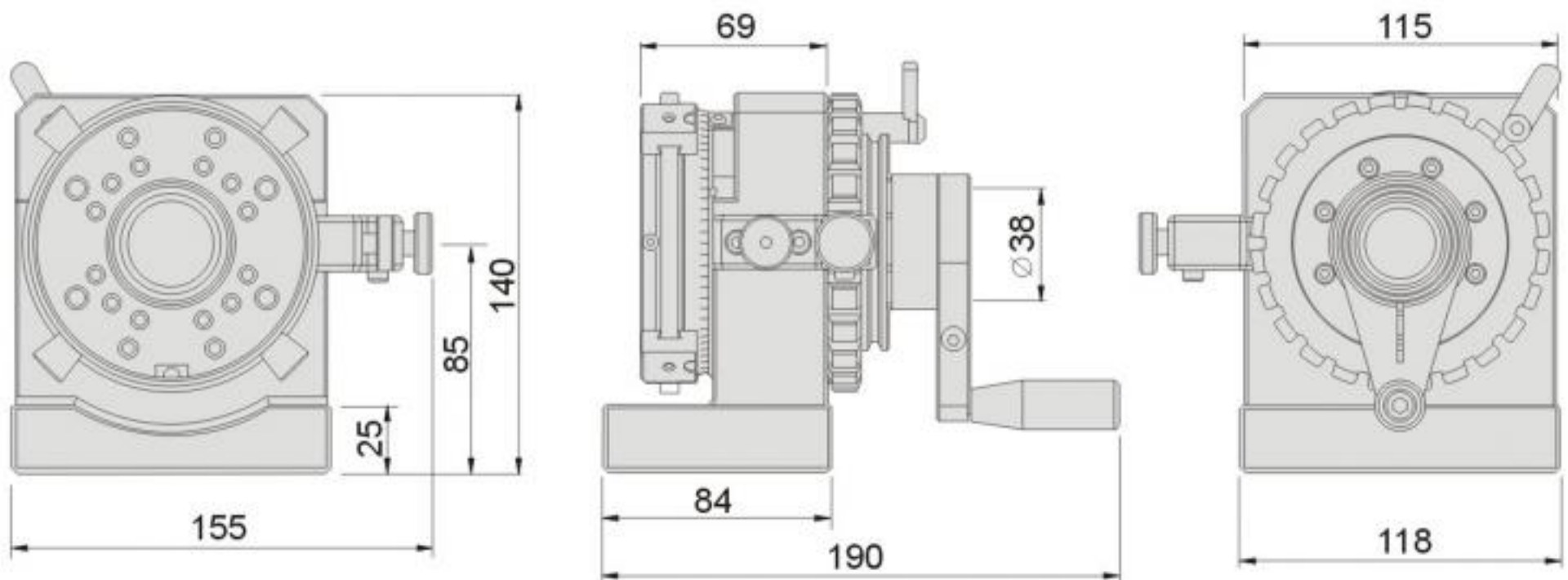
PAT:M421169
ZL 2010 2 0190858.6



N.W.7.8kg

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.
- ▶ Modulation 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

*Collet excluded

Features :

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

Modularise components
(see next page for more info.)

50035

Modularise Components for PFH & EPF

PUNCH FORMER



50035-00
SC40



50035-01/02
SC04/05



50035-03/04/05
SER/20/32/50
(Collet excluded)



50035-07
3R24



50030
PFH **P A03**

50035-09
EQC50



50035-08
3R28

50035-10
EQC100



50030-07
PFH-3R24 **P A09**



50030-09
PFH-EQC50 **P A10**



50030-08
PFH-3R28 **P A09**



50030-10
PFH-EQC100 **P A10**



50030-00
PFH-SC40 **P A05**



50030-01/02 **P A06/07**
PFH-SC04/05



50030-03/04/05 **P A08**
PFH-SER20/32/50

Punch Former

50030-00 PFH-SC40 Super Precision 3-Jaws Punch Former

PUNCH FORMER



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Features :

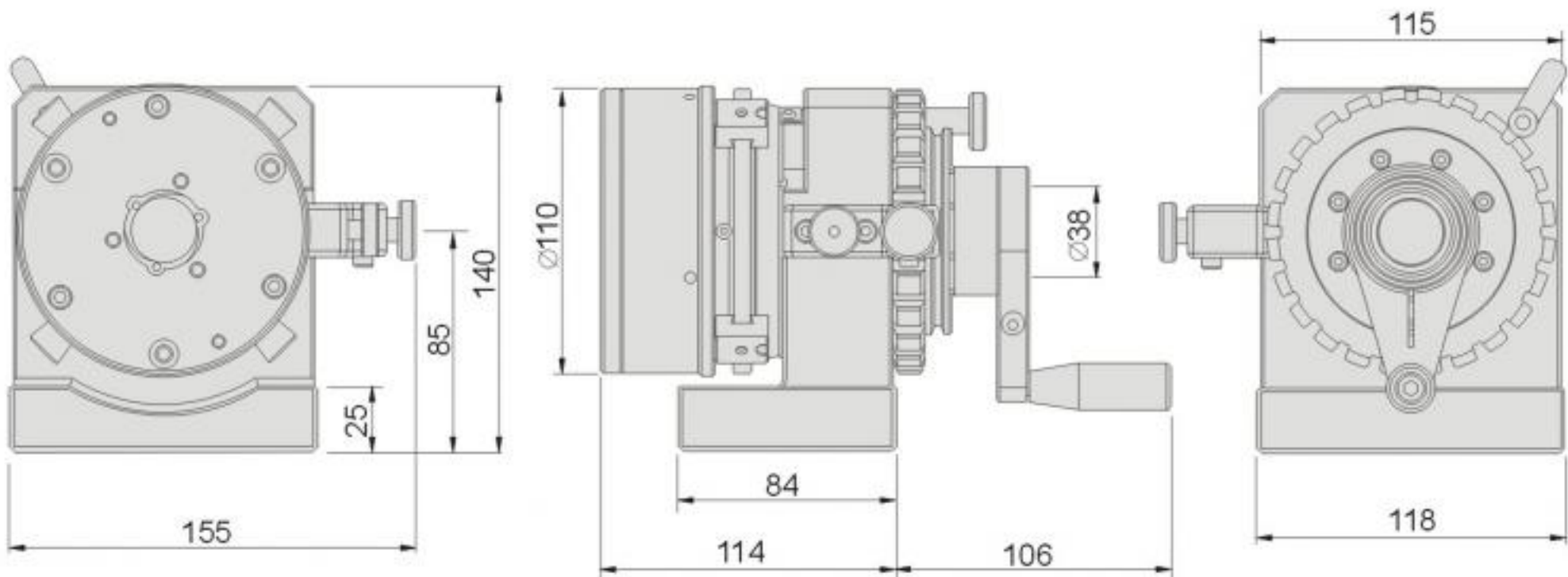
- ▶ PFH-SC40 is adopting quality stainless steel with waterproof and stronger structure leading lasting durability.
- ▶ Special designed SC40 3-Jaw Chuck provide rapid clamping and it suitable for mass production, workpiece with round shaped can precisely & rapidly clamped.
- ▶ Torque wrench included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

N.W. 10kg

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

Main parameters:

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





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N.W. 8.8kg

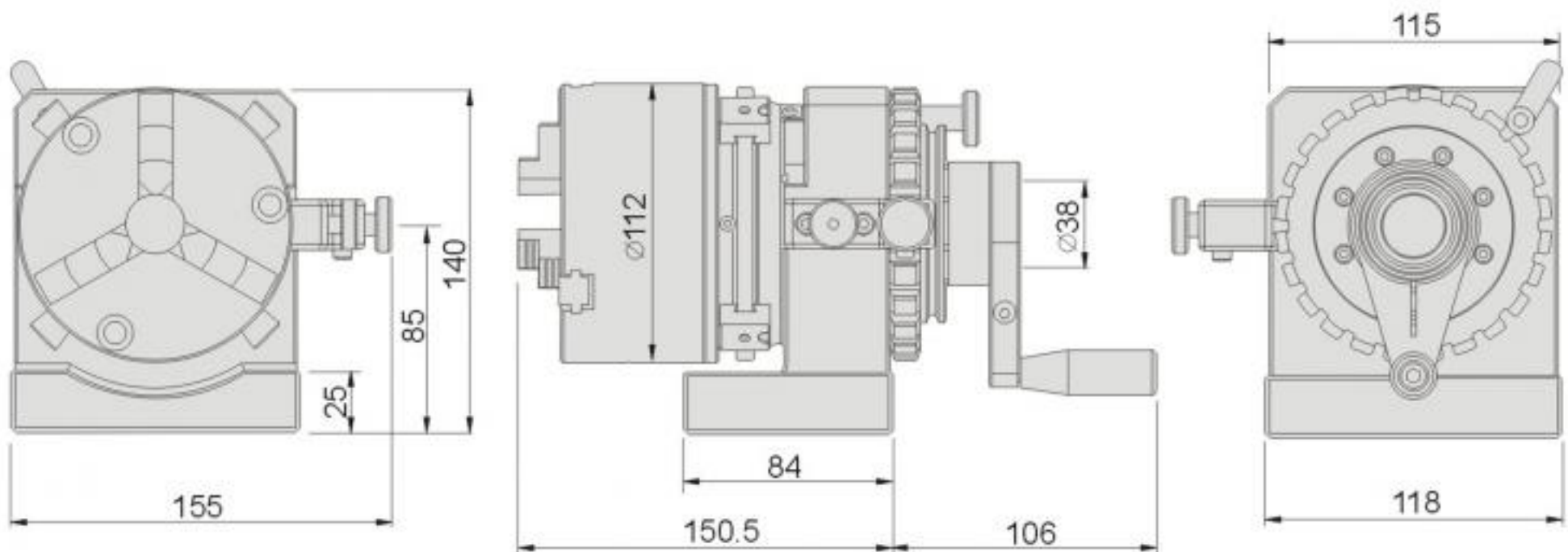
Note: SC04 is made of FCD45 material.

Features :

- ▶ 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:

| | | |
|-------------------------------|------------------------|--------------|
| Center height | ..... | 85 ± 0.5mm |
| Indexer tooth q'ty & accuracy | ..... | 24, 15° ± 5" |
| Through hole diameters | ..... | ∅ 32mm |
| Hole dia. of 3-Jaw Chuck | ..... | ∅ 32mm |
| Min. clamping range | O.D. ∅3mm, I.D. ∅32mm | |
| Max. clamping range | O.D. ∅90mm, I.D. ∅84mm | |
| Rotational accuracy | ..... | 0.003mm |
| Repeat accuracy | ..... | 0.015mm |



PUNCH FORMER

Punch Former

50030-02

PFH-SC05

Precision 3-Jaws Punch Former



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N.W. 14.8kg



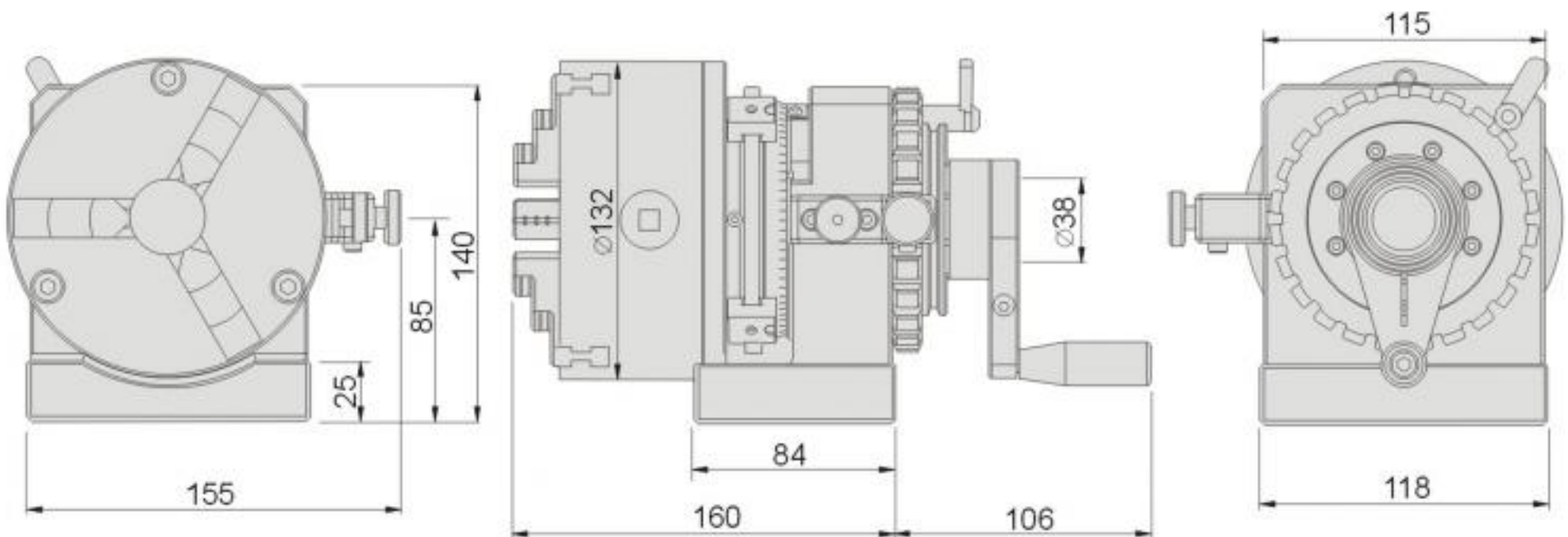
Features :

- ▶ 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.

Note: SC04 is made of FCD45 material.

Main parameters:

| | | |
|-------------------------------|----------------------------|--------------|
| Center height | ..... | 85 ± 0.5mm |
| Indexer tooth q'ty & accuracy | ..... | 24, 15° ± 5" |
| Through hole diameters | ..... | ∅ 32mm |
| Hole dia. of 3-Jaw Chuck | ..... | ∅ 32mm |
| Min. clamping range | O.D. ∅ 3mm, I.D. ∅ 35mm | |
| Max. clamping range | O.D. ∅ 110mm, I.D. ∅ 110mm | |
| Rotational accuracy | | 0.003mm |
| Repeat accuracy | | 0.015mm |

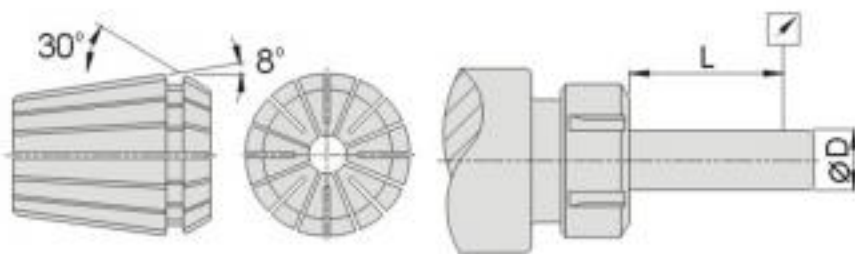


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Features :

- ▶ 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. \varnothing 2mm, Max. \varnothing 34mm
- ▶ 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...

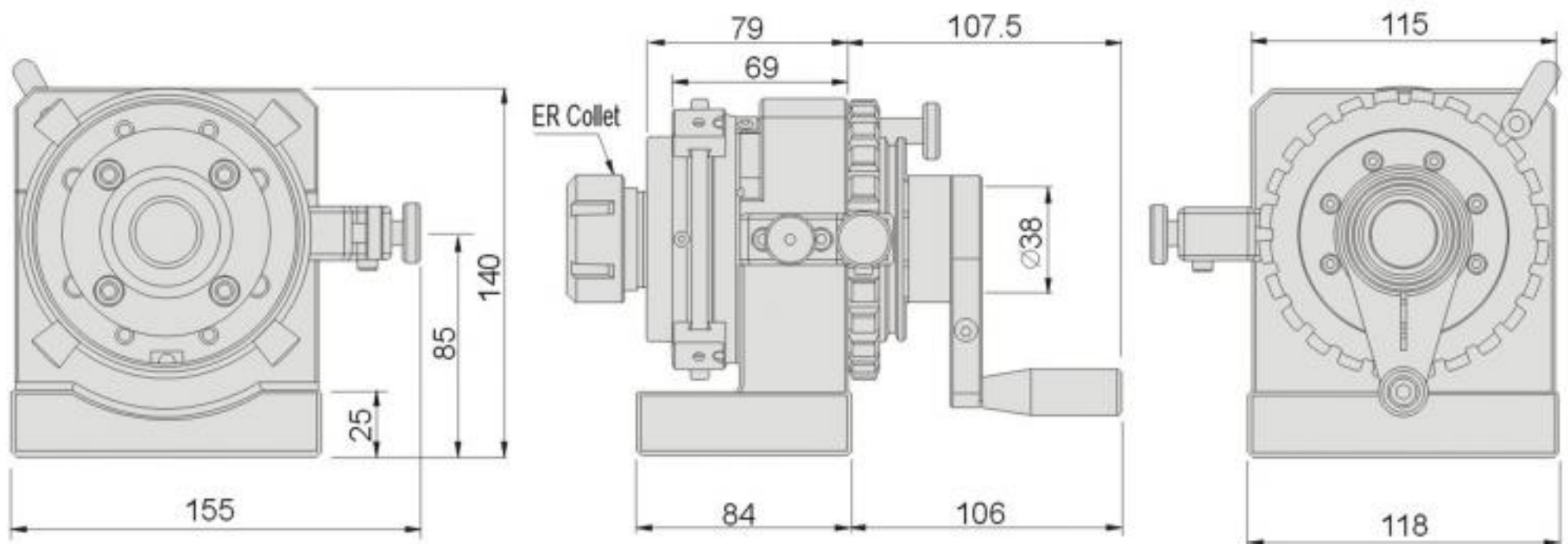
Note: ER & ER Nut are not made of stainless steel.



| 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 |

Main parameters:

Center height $85 \pm 0.5\text{mm}$
 Indexer tooth q'ty & accuracy $24, 15^\circ \pm 5''$
 Through hole diameters $\varnothing 36\text{mm}$
 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 |



Punch Former

50030-07/08 **PFH-3R** **Precision 3R Punch Former**

PUNCH FORMER



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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.

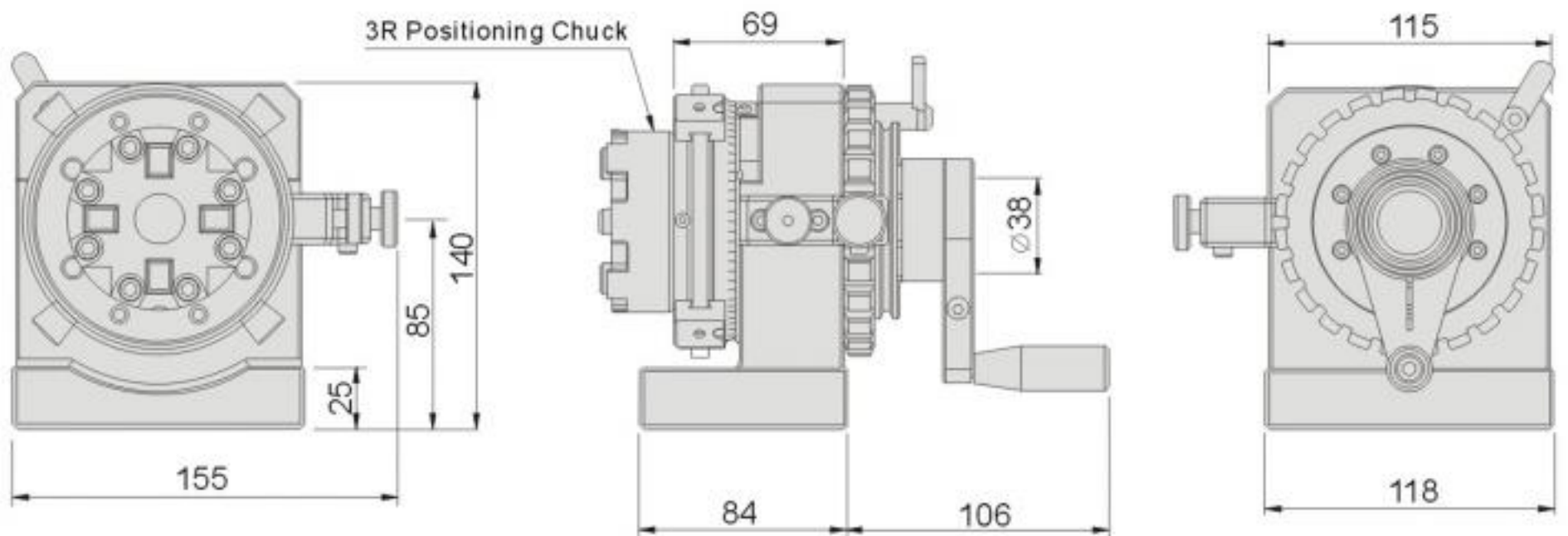
PFH-3R24



Main parameters:

Center height 85 ± 0.5mm
 Indexer tooth q'ty & accuracy 24, 15° ± 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 |

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PFH-EQC50



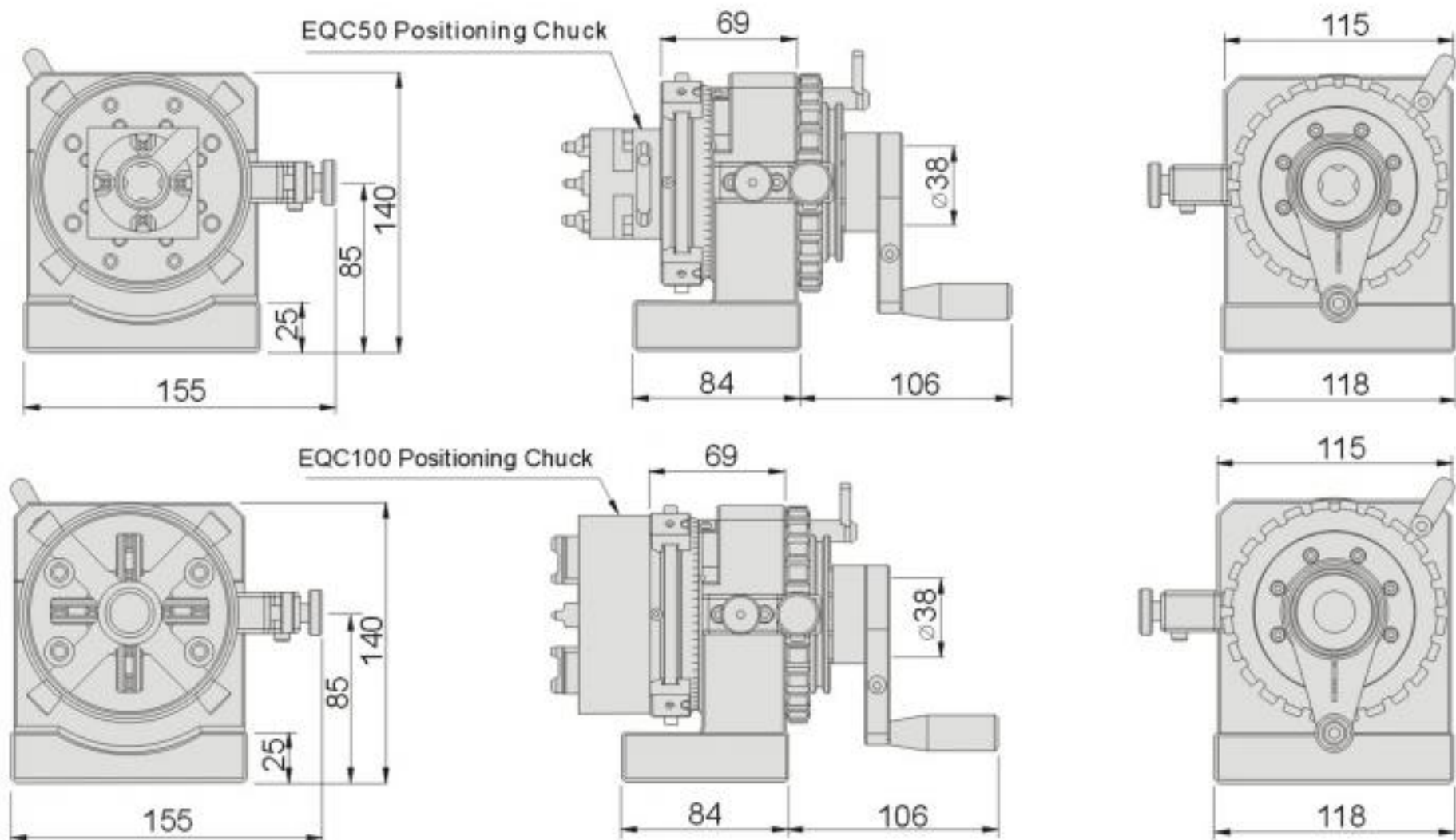
PFH-EQC100

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 ± 0.5mm
 Indexer tooth q'ty & accuracy..... 24, 15° ± 5"
 Rotational accuracy..... 0.003mm
 Repeat accuracy 0.003mm



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

Punch Former

50050

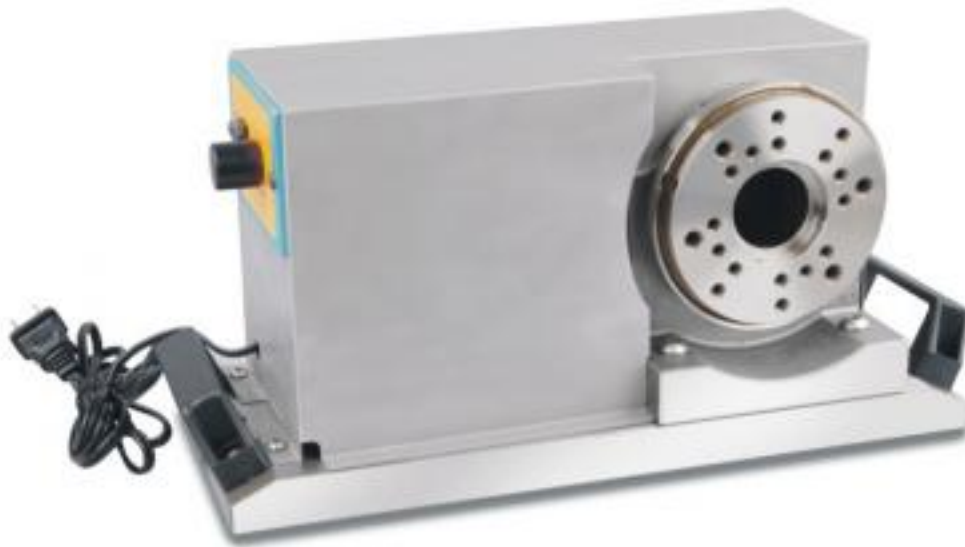
PFHM

Motorised Multi-Flex Punch Former - Body only

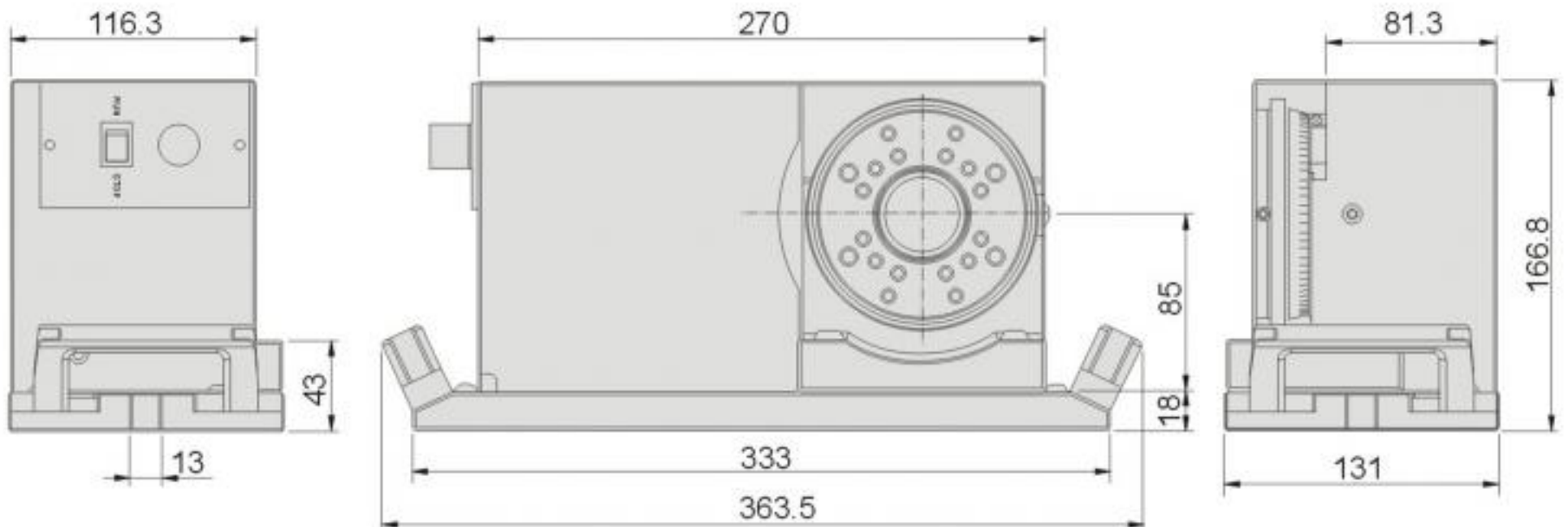


PUNCH FORMER

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N.W. 24kg



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.

| Order No. | Model | Voltage | N.W. |
|--------------|------------|---------|--------|
| 50050-110 | PFHM | 110V | 24kg |
| 50050-220 | | 220V | |
| 50050-00-110 | PFHM-SC40 | 110V | 31kg |
| 50050-00-220 | | 220V | |
| 50050-01-110 | PFHM-SC04 | 110V | 25kg |
| 50050-01-220 | | 220V | |
| 50050-02-110 | PFHM-SC05 | 110V | 31.5kg |
| 50050-02-220 | | 220V | |
| 50050-03-110 | PFHM-SER20 | 110V | 24.9kg |
| 50050-03-220 | | 220V | |
| 50050-04-110 | PFHM-SER32 | 110V | 24.8kg |
| 50050-04-220 | | 220V | |
| 50050-05-110 | PFHM-SER50 | 110V | 25.7kg |
| 50050-05-220 | | 220V | |



Features :

- ▶ Modulation
- ▶ 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



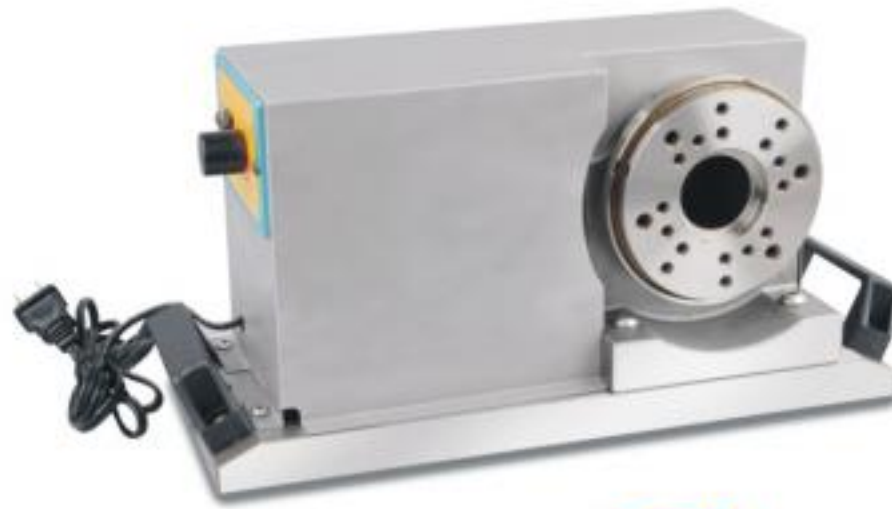
50035-00
SC40



50035-01/02
SC04/05



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



50050 PFHM



50050-00 PFHM-SC40



50050-01/02 PFHM-SC04/05



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

Punch Former

50050-00

PFHM-SC40

Motorised Super Precision 3-Jaws Punch Former



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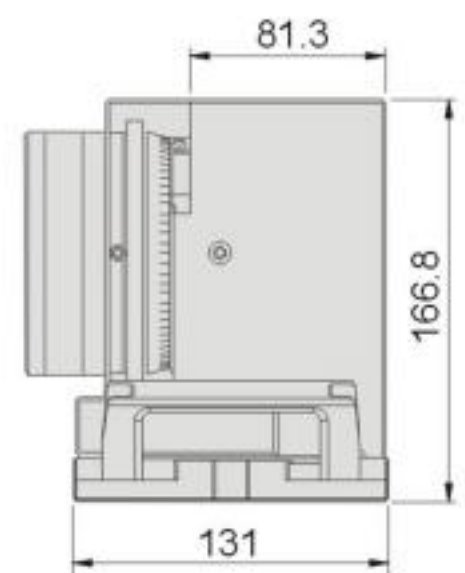
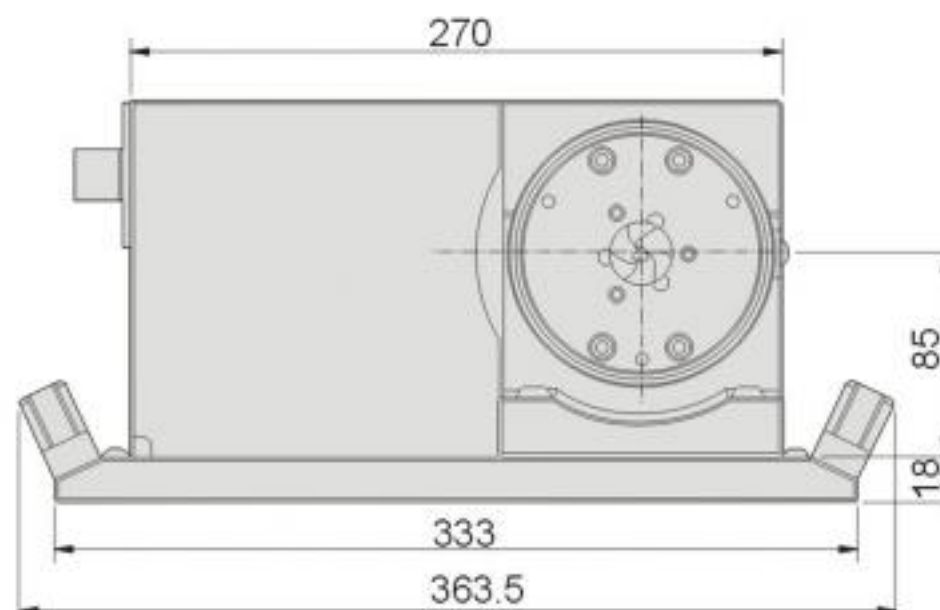
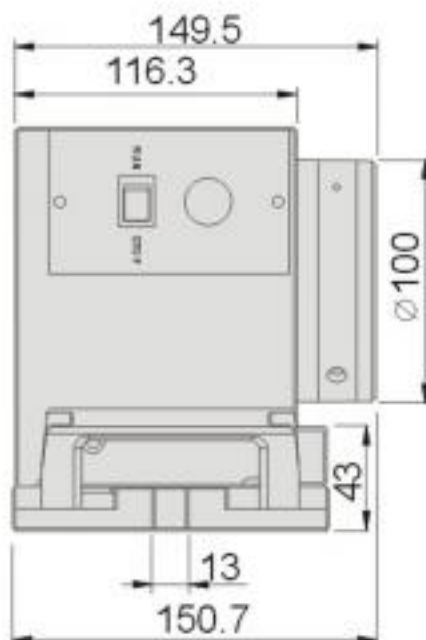
Note: Apply Torque Wrench at all time, due to SC40 3-Jaw Chuck has high precision structure design, avoiding any possible damage.

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.
- ▶ Torque 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 $85 \pm 0.5\text{mm}$
 Through hole diameters $\varnothing 36\text{mm}$
 Hole dia. of 3-Jaw Chuck $\varnothing 25\text{mm}$
 Motor : 110V/60Hz 50~550RPM
 Motor : 220V/50Hz 50~550RPM
 Min. clamping range $\varnothing 1\text{mm}$
 Max. clamping range $\varnothing 25\text{mm}$
 Rotational accuracy 0.003mm
 Repeat accuracy 0.003mm



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

50050-01 PFHM-SC04 Motorised Precision 3-Jaws Punch Former



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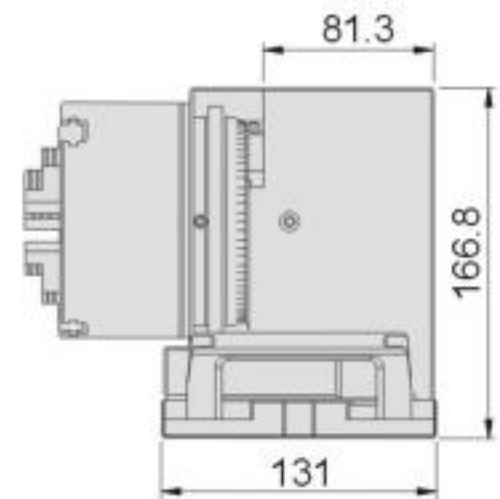
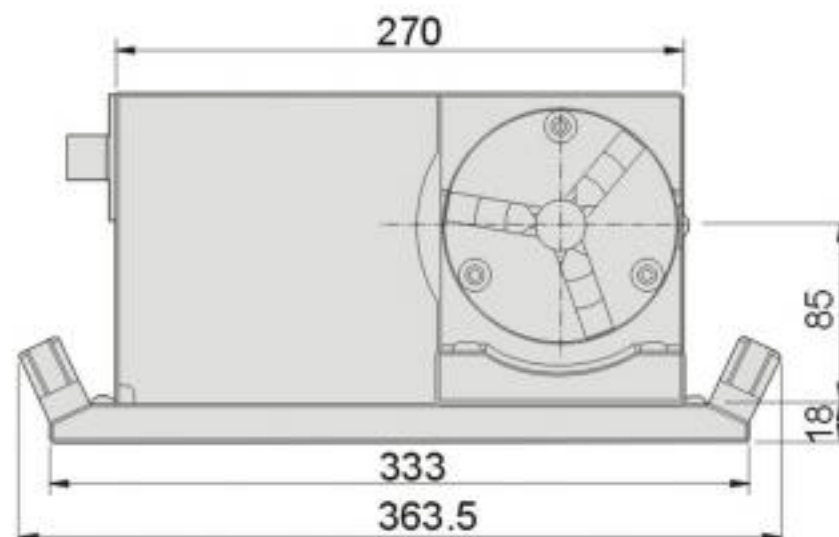
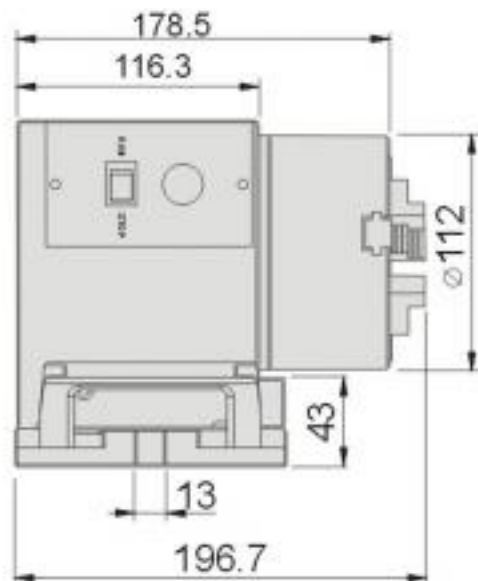
Features :

- ▶ PFHM-SC04 is adopting quality stainless steel with waterpro of and stronger structure leading lasting durability.
- ▶ 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.

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

Main parameters:

Center height 85 ± 0.5mm
 Through hole diameters ø 36mm
 Hole dia. of 3-Jaw Chuck ø 32mm
 Min. clamping range O.D. ø 3mm, I.D. ø 32mm
 Max. clamping range O.D. ø 3mm, I.D. ø 4mm
 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 | | | 220V | 25kg |

Punch Former

50050-02 PFHM-SC05 Motorised Precision 3-Jaws Punch Former

PUNCH FORMER



PAT:M421169
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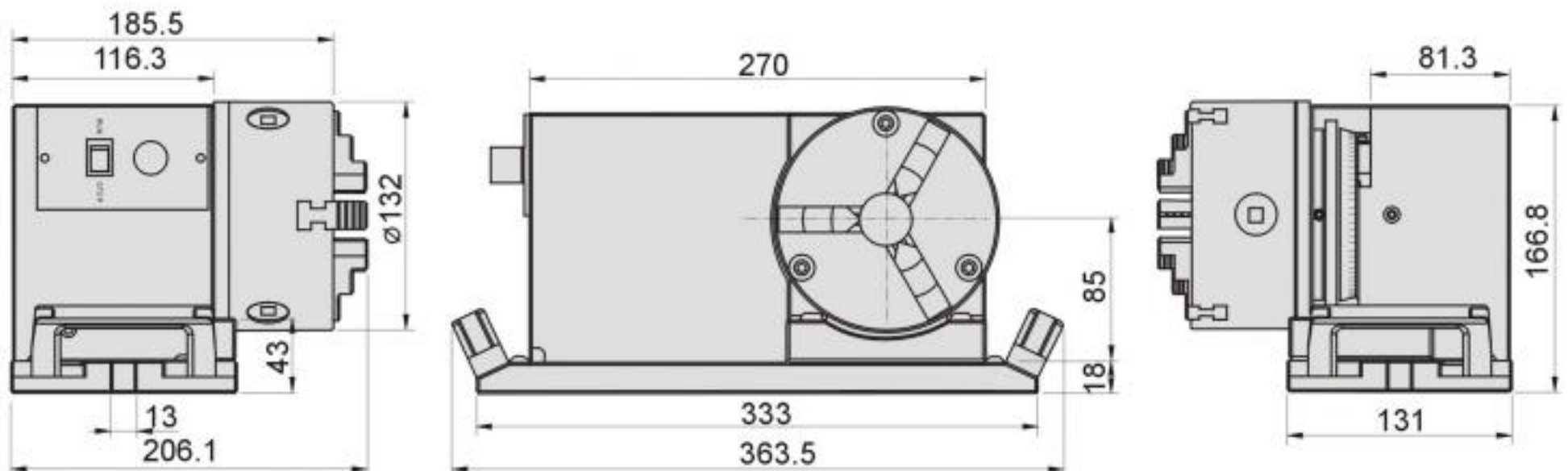
Note: Apply Torque Wrench at all time, due to SC05 3-Jaw Chuck has high precision structure design, avoiding any possible damage.

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.

Main parameters:

| | |
|--------------------------|--------------------|
| Center height | 85 ± 0.5mm |
| Through hole diameters | ∅ 36mm |
| Hole dia. of 3-Jaw Chuck | ∅ 32mm |
| Min. clamping range | O.D.∅3mm,I.D.∅32mm |
| Max. clamping range | O.D.∅3mm,I.D.∅84mm |
| Motor : 110V/60Hz | 50~550RPM |
| Motor : 220V/50Hz | 50~550RPM |
| Rotational accuracy | 0.003mm |
| Repeat accuracy | 0.015mm |



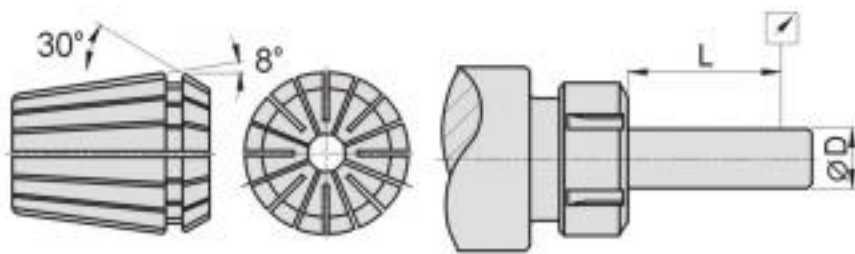
| Order No. | Model | Chuck Spec. | Voltage | N.W. |
|--------------|-----------|-------------|---------|--------|
| 50050-02-110 | PFHM-SC05 | SC05 | 110V | 31.5kg |
| 50050-02-220 | | | 220V | 31.5kg |

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

PAT:M421169
ZL 2010 2 0190858.6



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



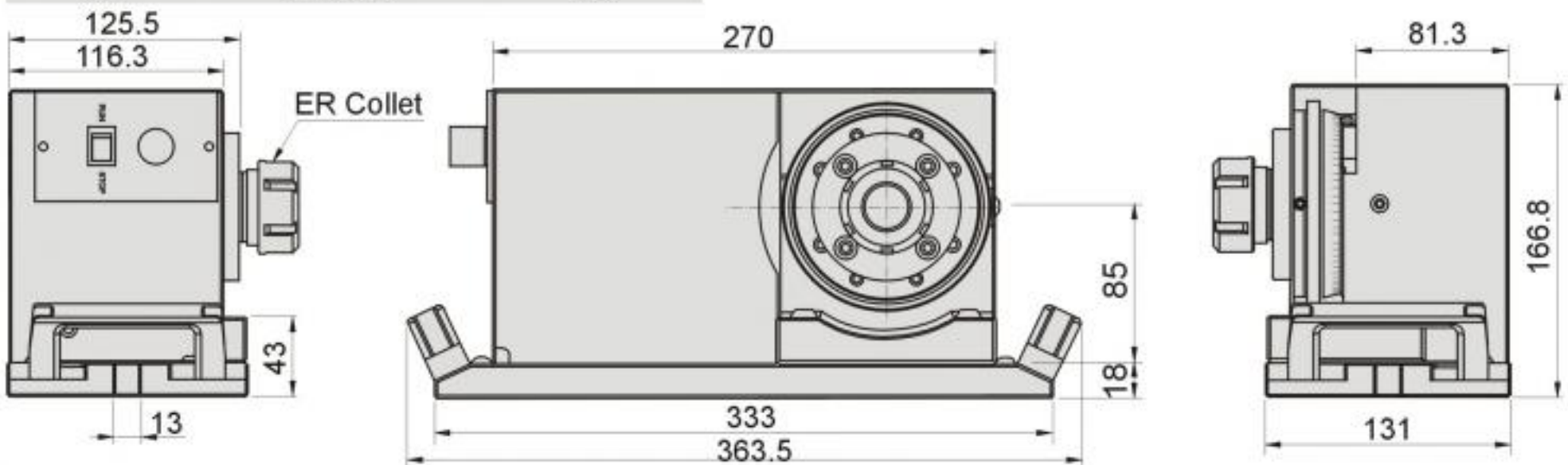
| L | D | Accuracy |
|----|-----------|----------|
| 6 | 1.0-1.6 | 0.01 |
| 10 | 1.6-3.0 | 0.01 |
| 16 | 3.0-7.0 | 0.01 |
| 25 | 7.0-10.0 | 0.01 |
| 40 | 10.0-18.0 | 0.01 |
| 50 | 18.0-24.0 | 0.01 |
| 60 | 24.0-34.0 | 0.01 |

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. \varnothing 2mm, Max. \varnothing 34mm
- ▶ 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:

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



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



Punch Former

50060

PF350

Fine-tuning Type Punch Former

PUNCH FORMER



N.W. 8.2kg

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 punches.
- ▶ 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.

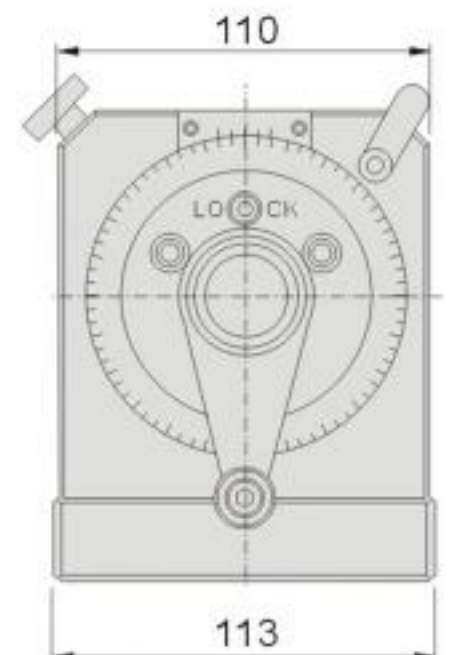
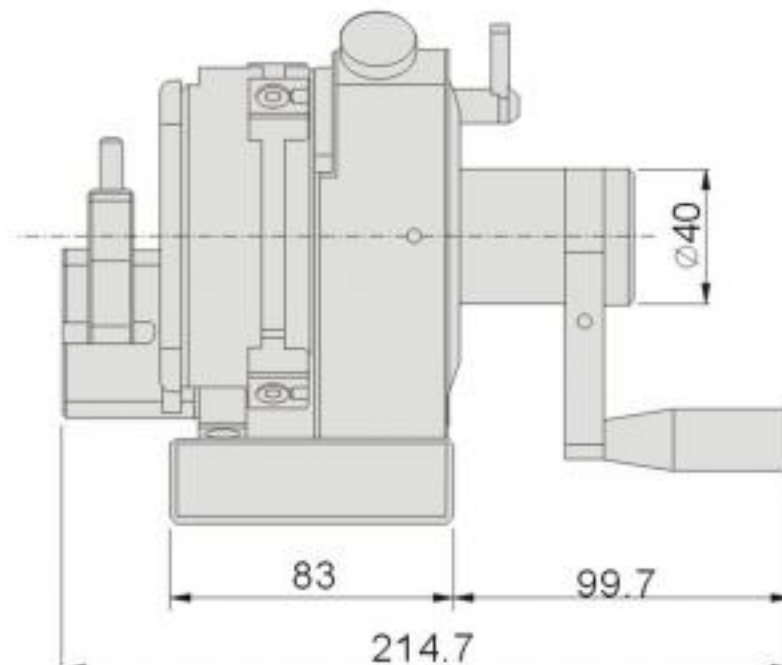
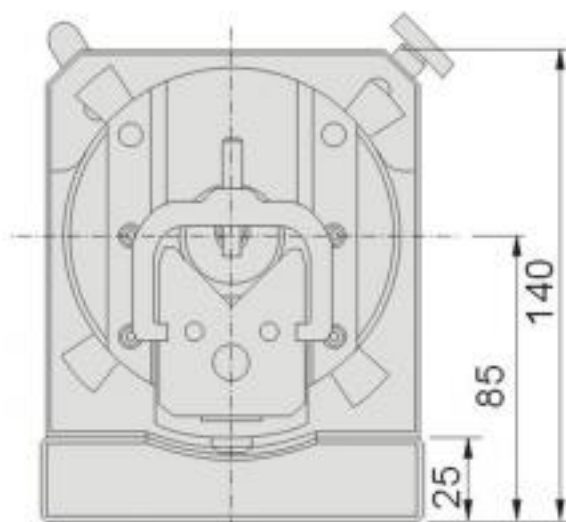
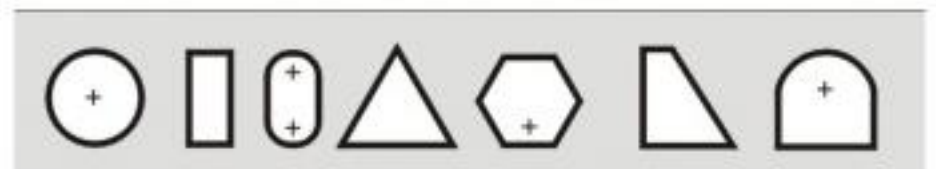
Release the screw when make adjustable and lock with slight force.



Main parameters:

| | |
|--------------------------------------|---------------|
| Center height | 85 ± 0.5mm |
| Clamping dia. range of V-block | ∅ 3~30mm |
| Travel of V-block | 25mm |
| Indexer tooth q'ty & accuracy | 24, 15° ± 10" |
| Through hole diameters | ∅ 30mm |
| Clamping accuracy (50mm) | 0.005mm |

Punch forming applications



50070 PF450 Fine-tuning Type Punch Former (Dual)



N.W. 9.2kg

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 punches.
- ▶ 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.

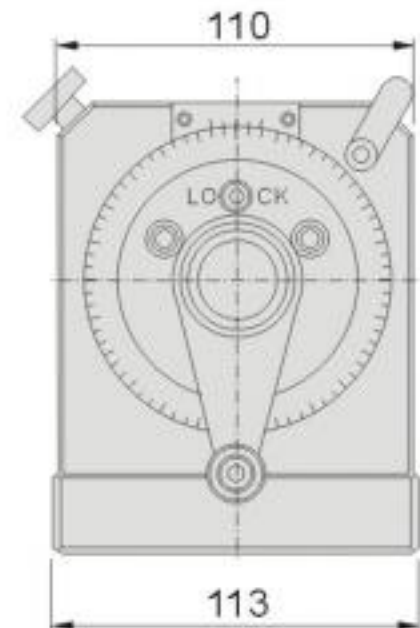
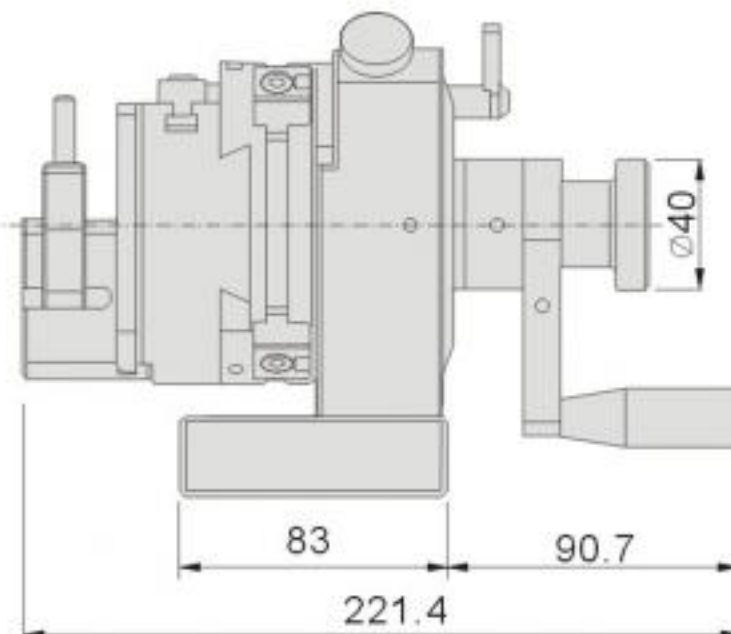
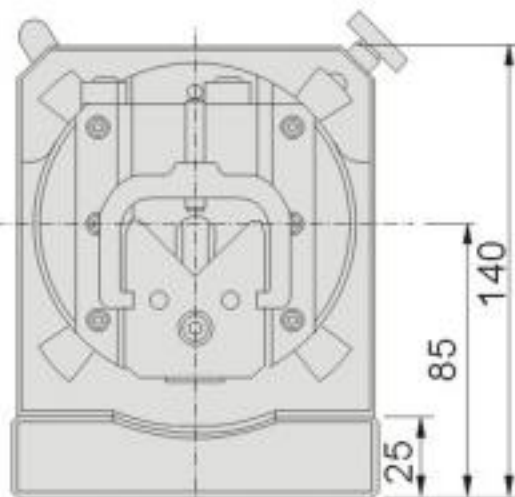
Precisely ground screw rod for fine-tuning of V-block movement.



Main parameters:

| | |
|---------------------------------------|---------------|
| Center height | 85 ± 0.5mm |
| Clamping dia. range of V-block | ∅ 3~30mm |
| Travel of V-block | 45mm |
| Slide plate horizontal movement | ±18mm |
| Indexer tooth q'ty & accuracy | 24, 15° ± 10" |
| Clamping accuracy (50mm) | 0.005mm |

Punch Forming Applications



Punch Former

50080

PF550

3-Jaw Punch Former

PUNCH FORMER



PF550-SC40



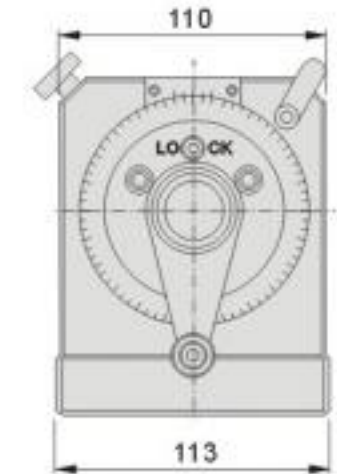
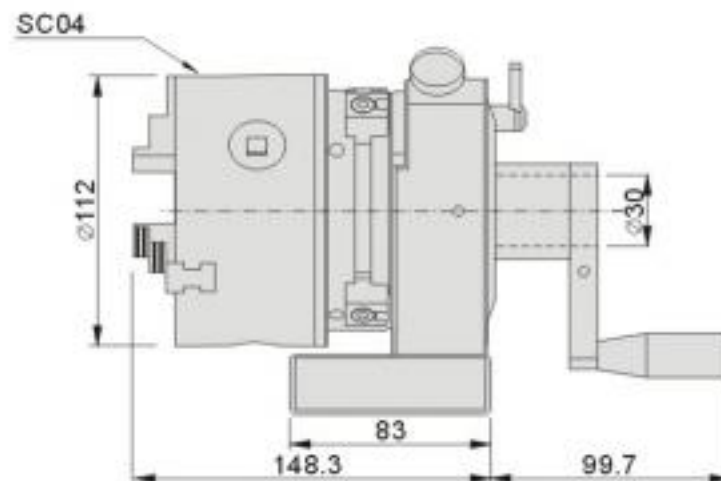
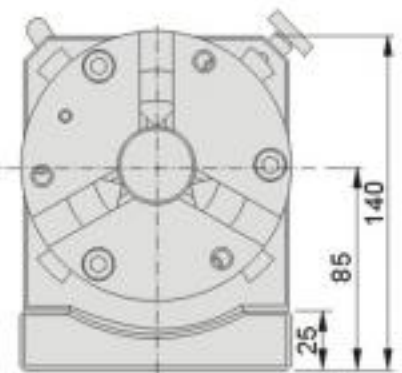
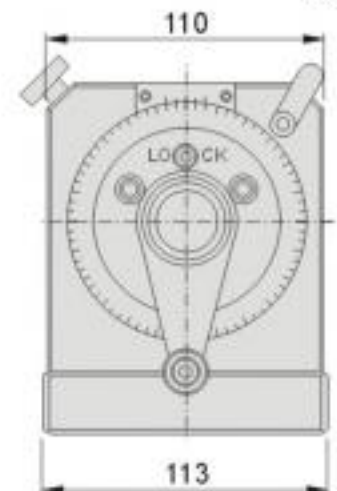
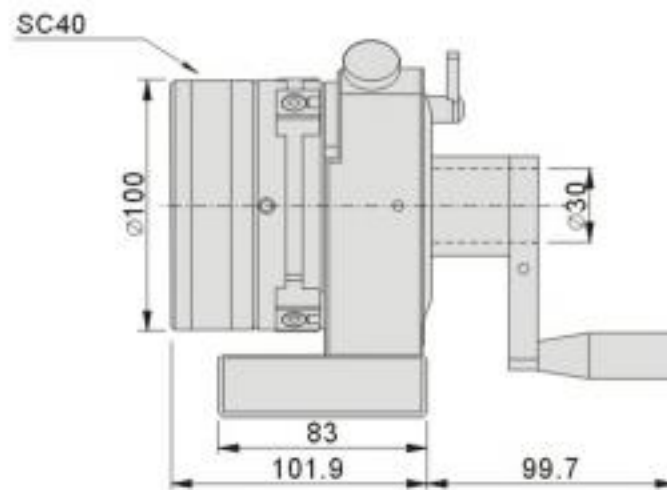
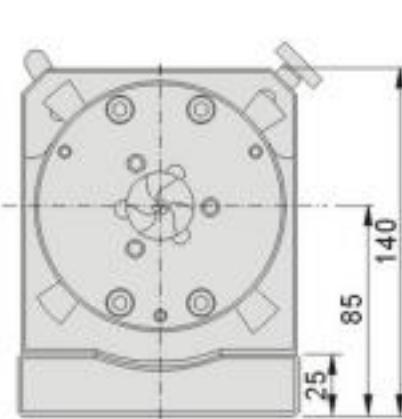
PF550-SC04

Features :

- ▶ Special stainless steel made for SC40 chuck provide rapid clamping accuracy with precision performance.
- ▶ Torque 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.

Main parameters:

| | |
|-------------------------------------|------------------------|
| Center height | 85 ± 0.5mm |
| Indexer tooth q'ty & accuracy | 24, 15° ± 10" |
| SC40 3-Jaw Chuck | |
| Min. clamping range | ∅1mm |
| Max. clamping range | 25mm |
| Rotational accuracy | 0.003mm |
| Repeat accuracy | 0.003mm |
| SC04 3-Jaw Chuck hole dia. | |
| Min. clamping range | O.D. ∅3mm, I.D. ∅32mm |
| Max. clamping range | O.D. ∅90mm, I.D. ∅84mm |
| 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 |

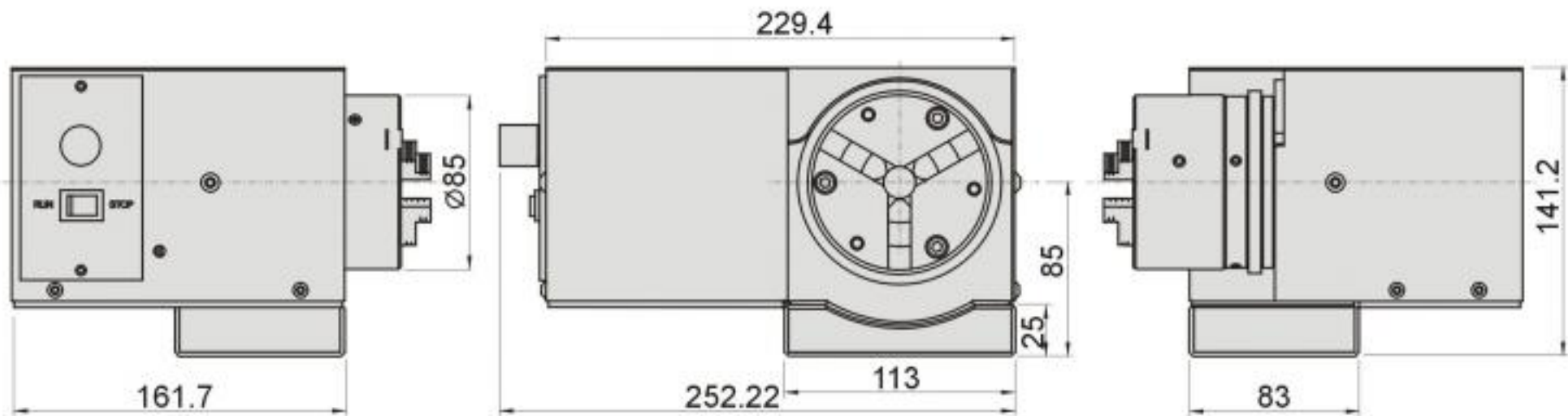


Features :

- ▶ 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.

Main parameters:

| | |
|--------------------------------|--------------------------|
| Center height | 85 ± 0.5mm |
| Through hole diameters | ∅ 16mm |
| Hole dia. of 3-Jaw Chuck | ∅ 16mm |
| Min. clamping range | O.D. ∅ 2mm, I.D. ∅ 24mm |
| Max. clamping range | O.D. ∅ 70mm, I.D. ∅ 64mm |
| Motor : 110V/60Hz | 50~550RPM |
| Motor : 220V/50Hz | 50~550RPM |
| Rotational accuracy | 0.003mm |
| Repeat accuracy | 0.015mm |



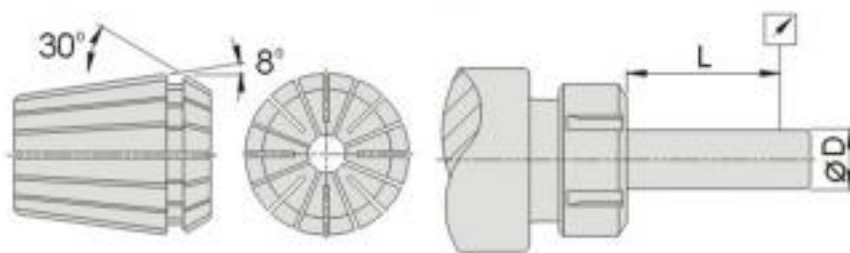
| Order No. | Model | Chuck Spec. | Voltage | N.W. |
|-----------|--------|-------------|---------|------|
| 50085-110 | PF550M | SC03 | 110V | 17kg |
| 50085-220 | | | 220V | 17kg |

Punch Former

50090

PF650

ER Collet Punch Former



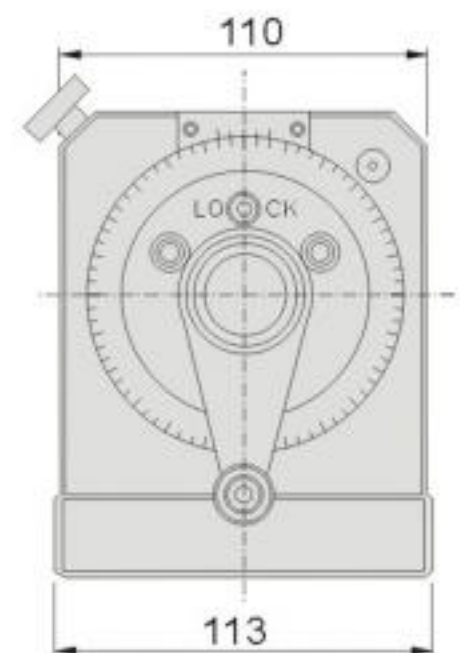
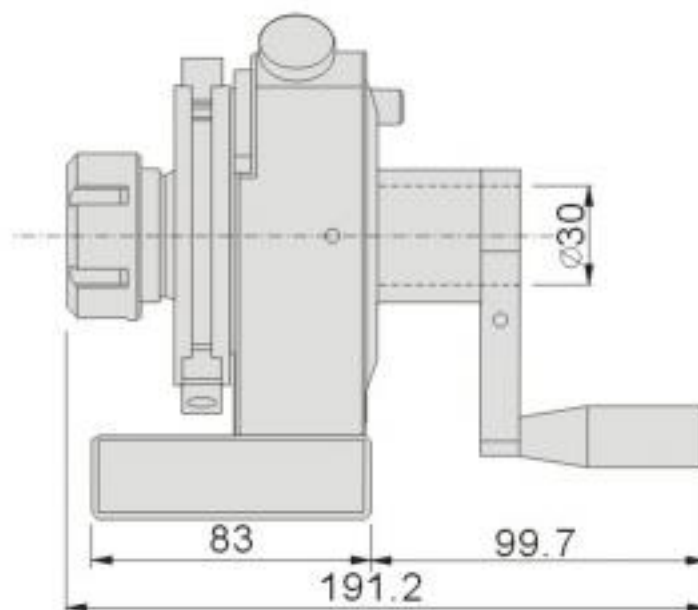
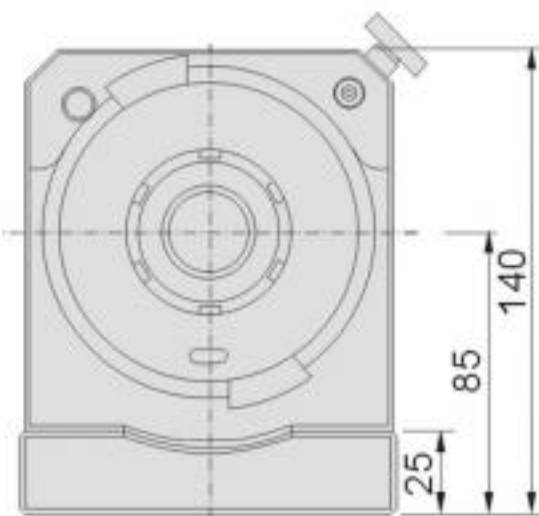
| L | D | Accuracy |
|----|-----------|----------|
| 6 | 1.0-1.6 | 0.01 |
| 10 | 1.6-3.0 | 0.01 |
| 16 | 3.0-7.0 | 0.01 |
| 25 | 7.0-10.0 | 0.01 |
| 40 | 10.0-18.0 | 0.01 |
| 50 | 18.0-24.0 | 0.01 |
| 60 | 24.0-34.0 | 0.01 |

Features :

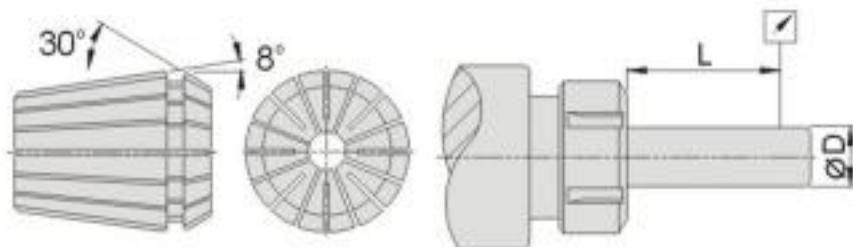
- ▶ PF650 has stronger structure leading lasting durability.
- ▶ With ER collets, the flexible range of collet is 1mm.
- ▶ Capable collet clamping range: Min. \varnothing 2mm, Max. \varnothing 26mm
- ▶ PF650 can rapidly clamp the workpiece and achieving higher stability during processing, no need to adjust the center accuracy.
- ▶ Adopting high precision bearings and ball bearing to achieve higher stability and accuracy, it also makes longer lifecycle.

Main parameters:

Center height 85 ± 0.5 mm
 Indexer tooth q'ty & accuracy 24, $15^\circ \pm 10''$
 Through hole diameters \varnothing 30mm
 Rotational accuracy 0.003mm



| Order No. | Model | ER Collet spec. | 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 |

50095
PF650M
Motorised Precision ER Collet Punch Former


Features :

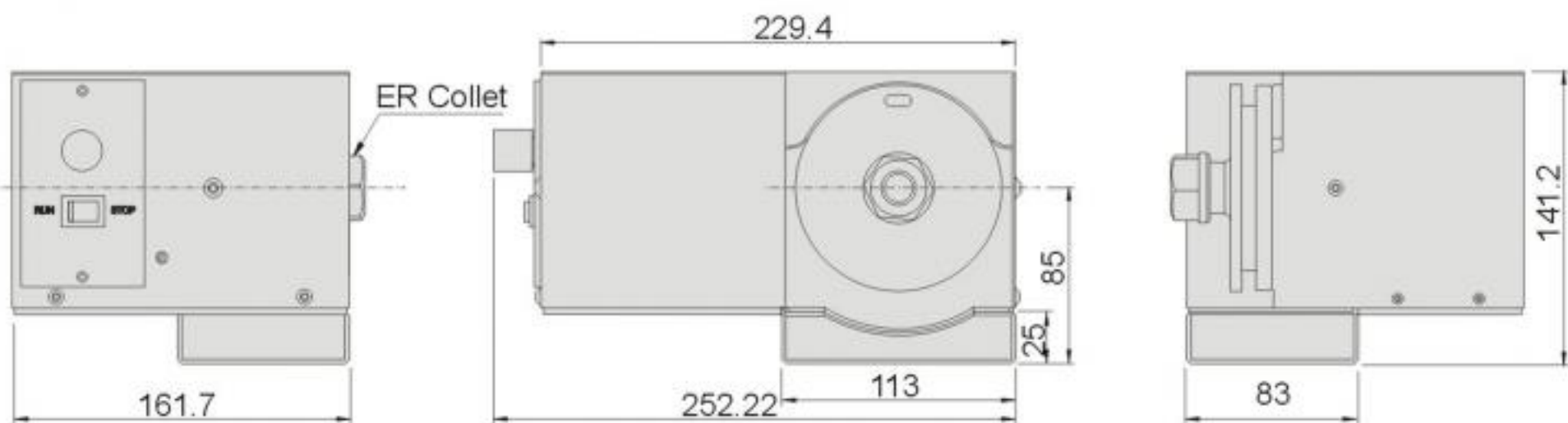
- ▶ PF650M has stronger structure leading lasting durability.
- ▶ Motorised function prevent human fatigue when processing.
- ▶ With ER collets, the flexible range of collet is 1mm.
- ▶ Capable collet clamping range: Min. \varnothing 2mm, Max. \varnothing 26mm
- ▶ PF650 can rapidly clamp the workpiece 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.

PUNCH FORMER

| 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 |

Main parameters:

Center height $85 \pm 0.5\text{mm}$
 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 |

Punch Former

50300 PFH240 Precision Punch Former (Medium Type)

PUNCH FORMER



PAT:M421169
ZL 2010 2 0190858.6

N.W. 13.0kg

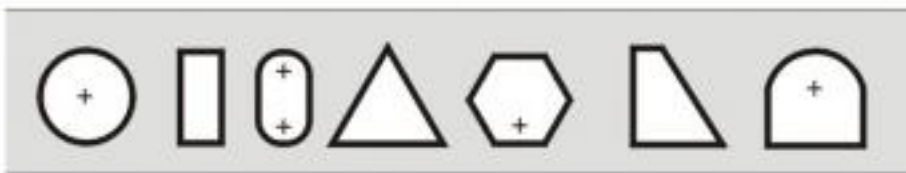
Features :

- ▶ 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.
- ▶ 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.



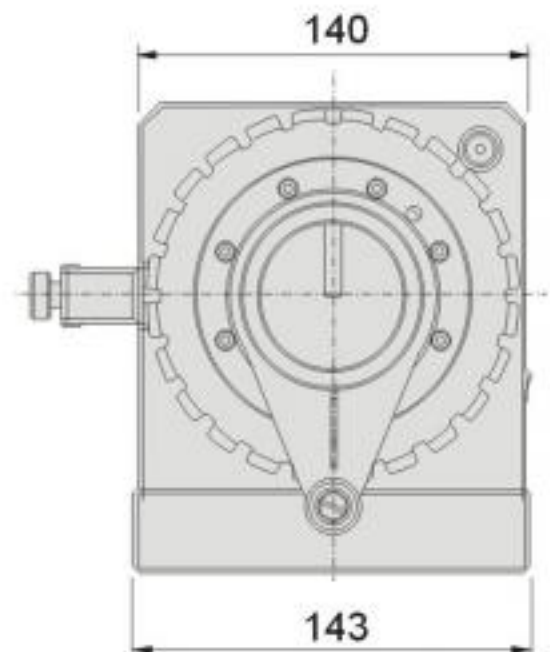
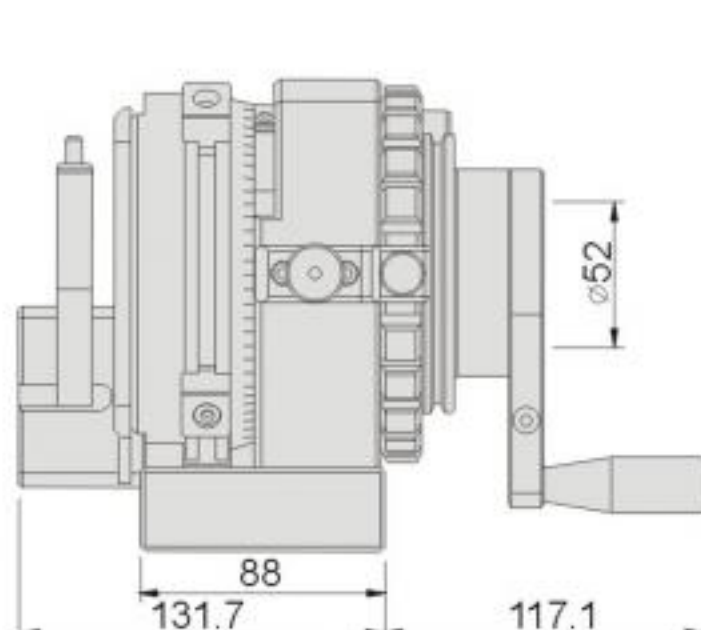
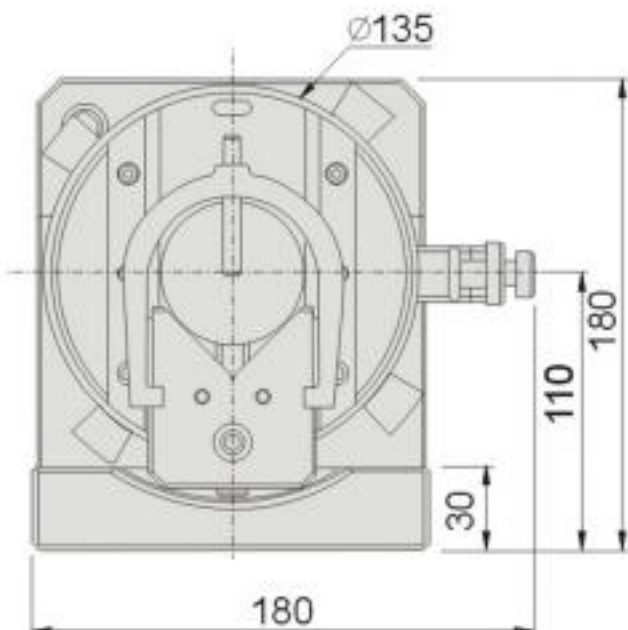
- Precisely ground screw rod for fine-tuning of V-block vertical movement.
- Two clamp plates on both side of V block helps the consistent movement.

Punch forming applications



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



50350 PFH280 Precision Punch Former (Medium Type)

PAT:M421169
ZL 2010 2 0190858.6



N.W. 14.7kg



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



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

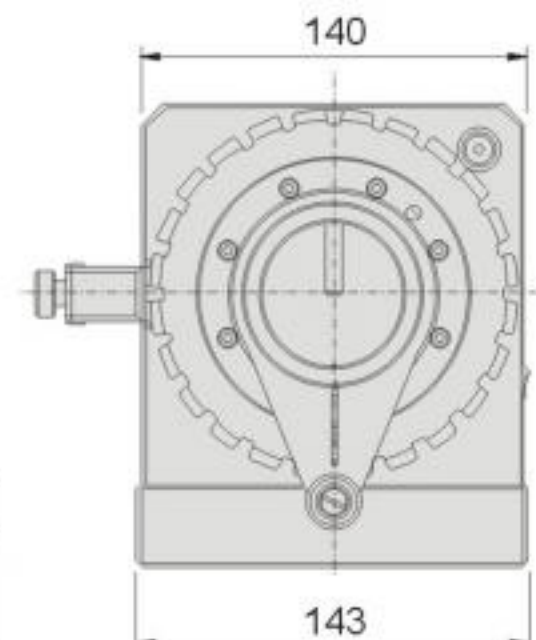
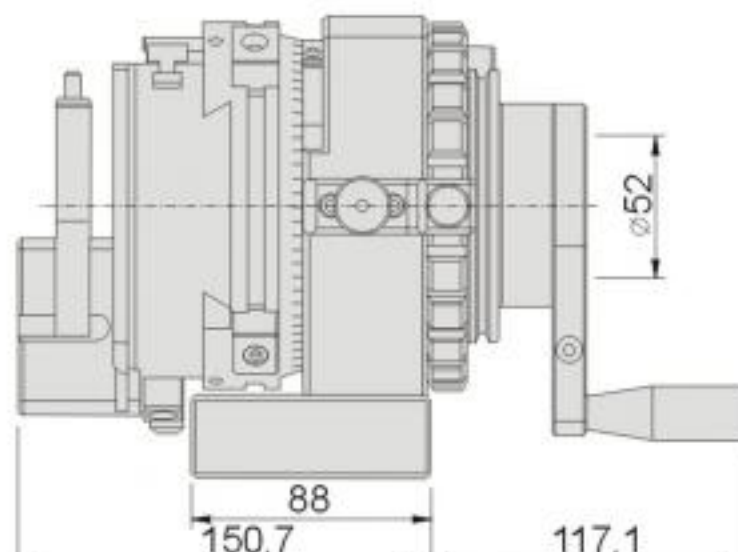
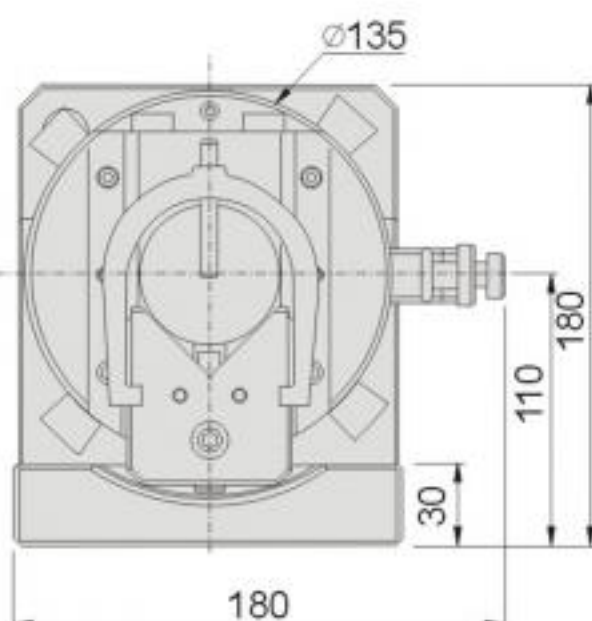
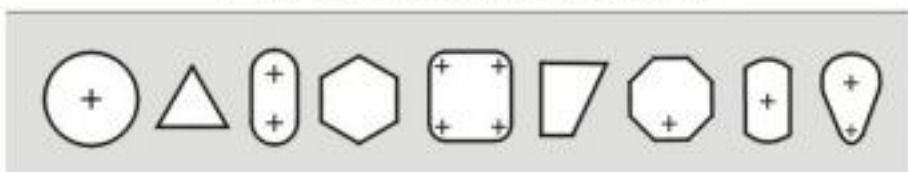
Features :

- ▶ 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.

Main parameters:

| | |
|--------------------------------------|--------------|
| Center height | 110 ± 0.5mm |
| Clamping dia. range of V-block | ∅ 5~50mm |
| Travel of V-block | 36mm |
| Indexer tooth q'ty & accuracy | 24, 15° ± 5" |
| Through hole diameters | 0.005mm |
| Clamping accuracy (50mm) | ± 25mm |

Punch forming applications



Punch Former

50500

PFH300

Precision Punch Former (Big Type)



PUNCH FORMER



PAT:M421169
ZL 2010 2 0190858.6

N.W. 23.5kg

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.



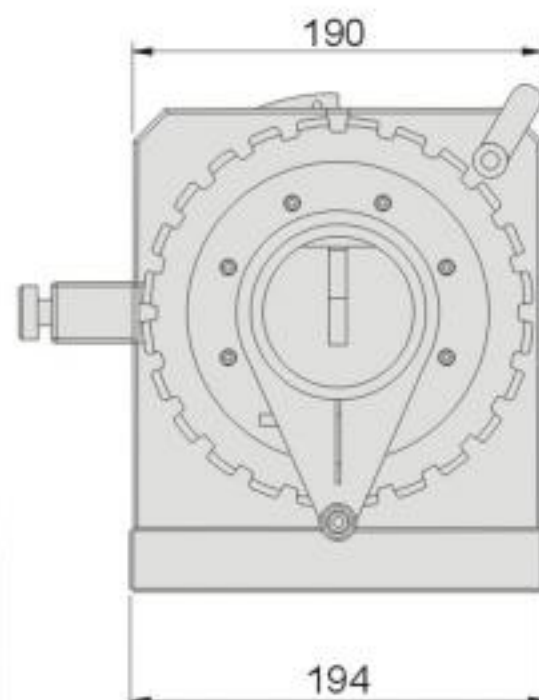
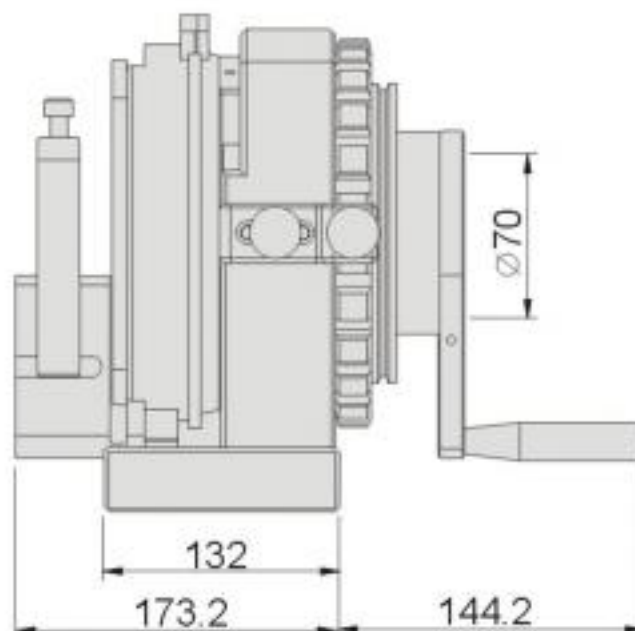
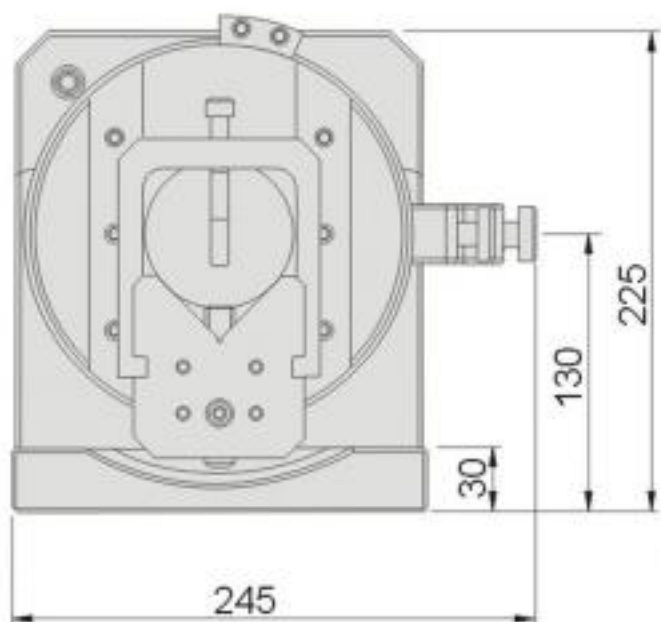
- Precisely ground screw rod for fine-tuning of V-block vertical movement.
- Two clamp plates on both side of V block helps the consistent movement.

Punch forming applications



Main parameters:

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



50550

PFH500

Precision Punch Former (Big Type)



PAT:M421169
ZL 2010 2 0190858.6

N.W. 27kg



- 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.

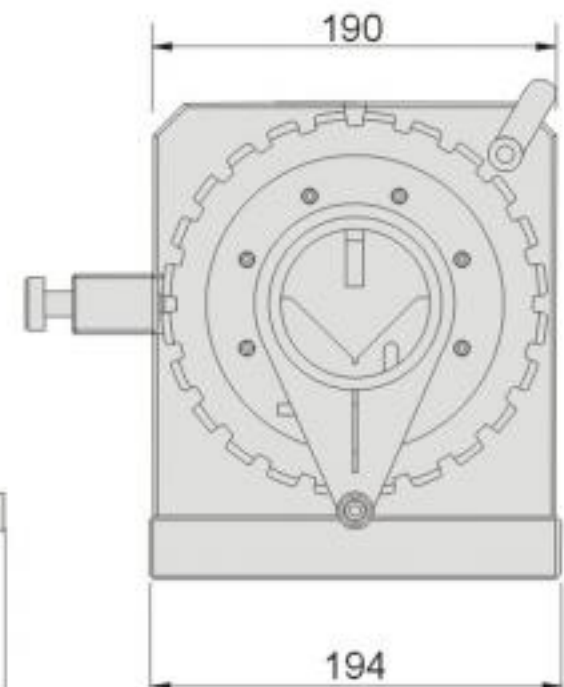
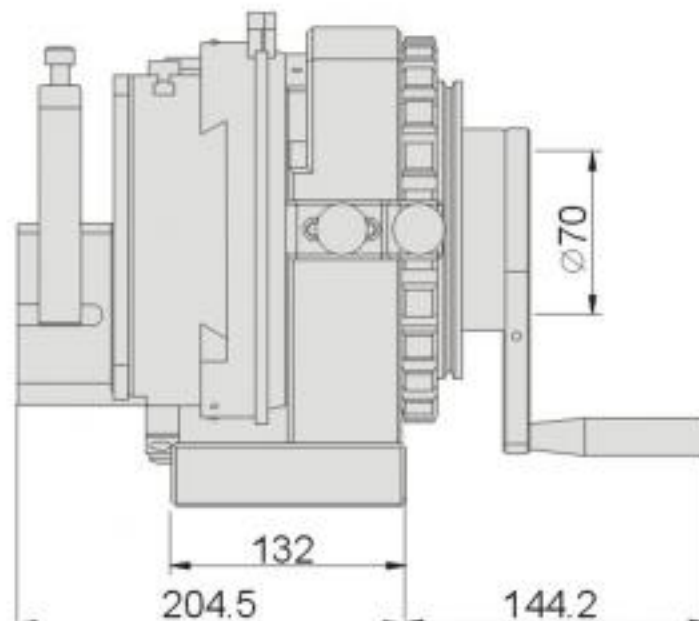
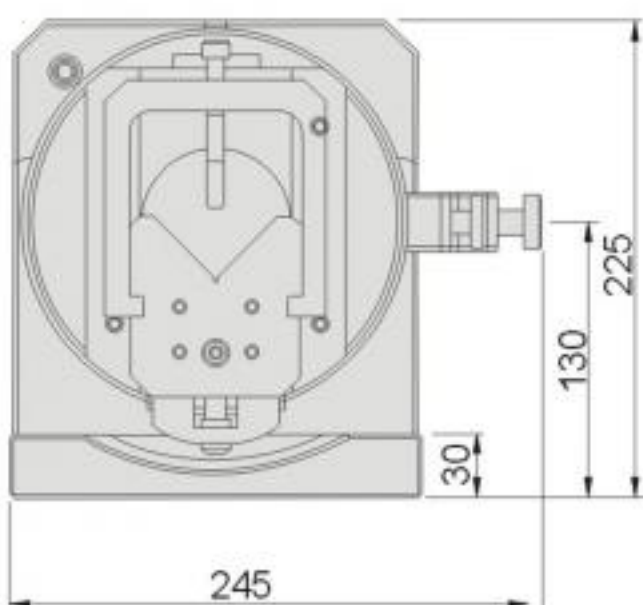
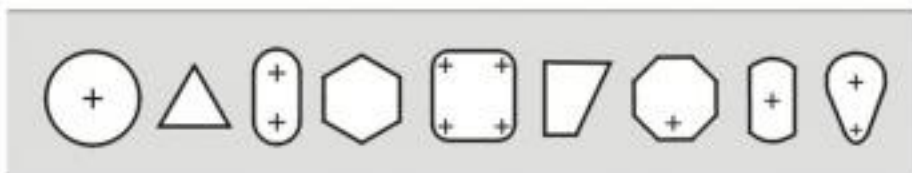
Features :

- ▶ 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.

Main parameters:

- 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 Ø70mm
- Clamping accuracy (50mm) 0.005mm
- Slide plate horizontal movement ± 30mm

Punch forming applications



Punch Former

50600

PFH600

Precision 3-Jaws Punch Former (Big Type)



PAT:M421169
ZL 2010 2 0190858.6



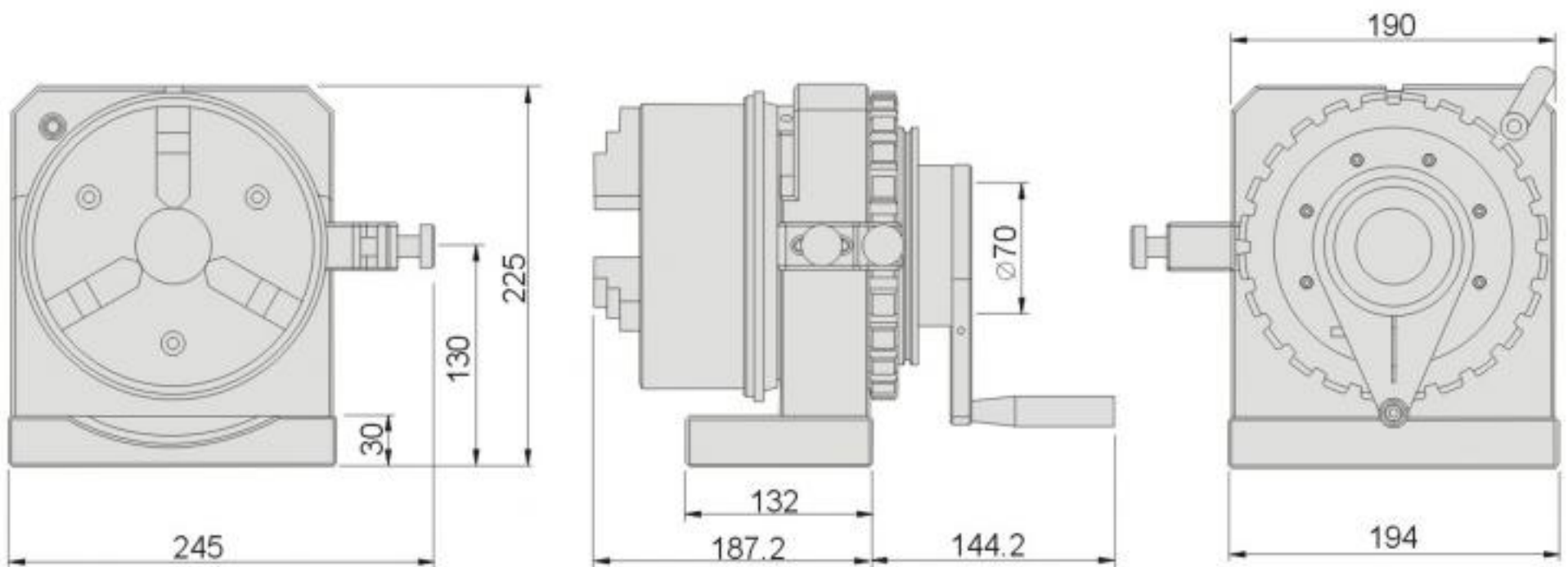
N.W. 27kg

Features :

- ▶ PFH600 have stronger structure leading lasting durability.
- ▶ PFH600 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 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:

| | |
|-------------------------------------|----------------------------|
| Center height | 130 ± 0.5mm |
| Indexer tooth q'ty & accuracy | 24, 15° ± 5" |
| Through hole diameters | ∅ 70mm |
| Hole dia. of 3-Jaw Chuck | ∅ 45mm |
| Min. clamping range | O.D. ∅ 4mm, I.D. ∅ 48mm |
| Max. clamping range | O.D. ∅ 160mm, I.D. ∅ 150mm |
| Rotational accuracy | 0.003mm |
| Repeat accuracy | 0.015mm |



50650

PFH600M

Motorised Precision 3-Jaws Punch Former (Big Type)



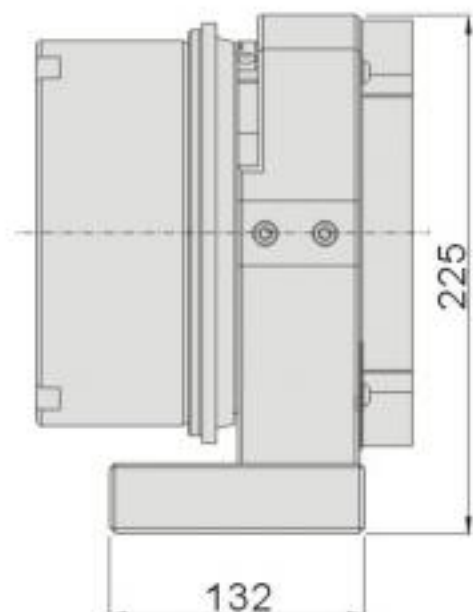
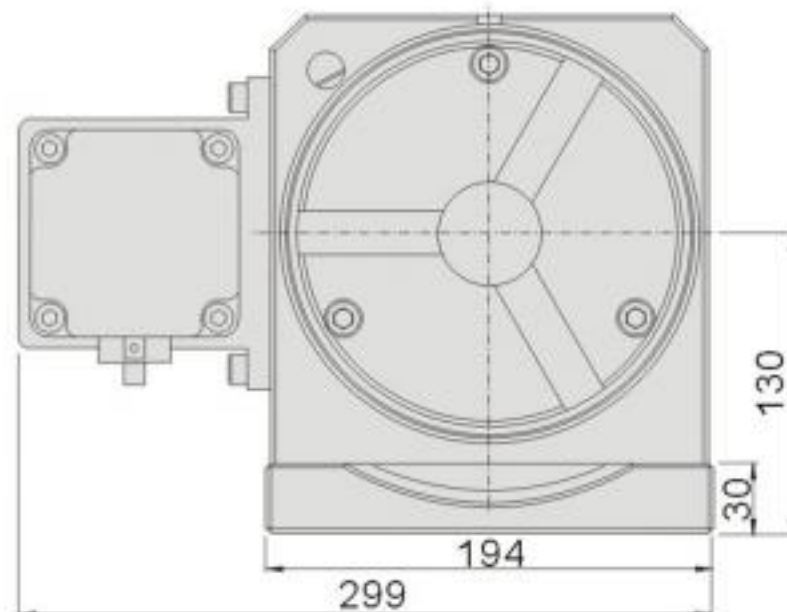
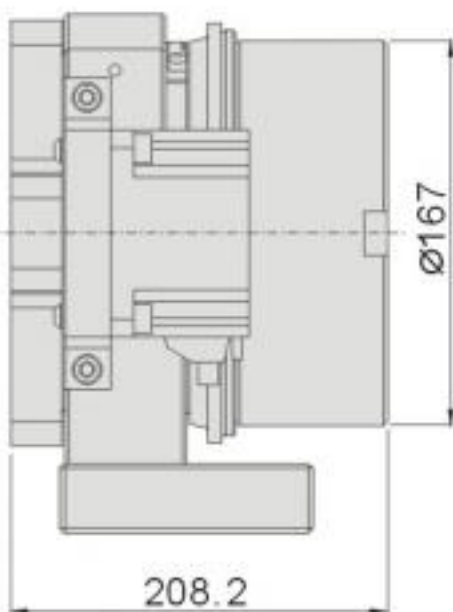
Features :

- ▶ 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.

PUNCH FORMER

Main parameters:

Center height 130 ± 0.5mm
 Indexer tooth q'ty & accuracy 24, 15° ± 5"
 Through hole diameters Ø 70mm
 Hole dia. of 3-Jaw Chuck Ø 45mm
 Min. clamping range O.D. Ø 4mm, I.D. Ø 48mm
 Max. clamping range O.D. Ø 160mm, I.D. Ø 150mm
 Motor : 110V/60Hz 50~550RPM
 Motor : 220V/50Hz 50~550RPM
 Rotational accuracy 0.003mm
 3-Jaw chuck clamping repeat accuracy .. 0.015mm



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

Center Punch Former

50700

GPFE

Center Punch Former

PUNCH FORMER

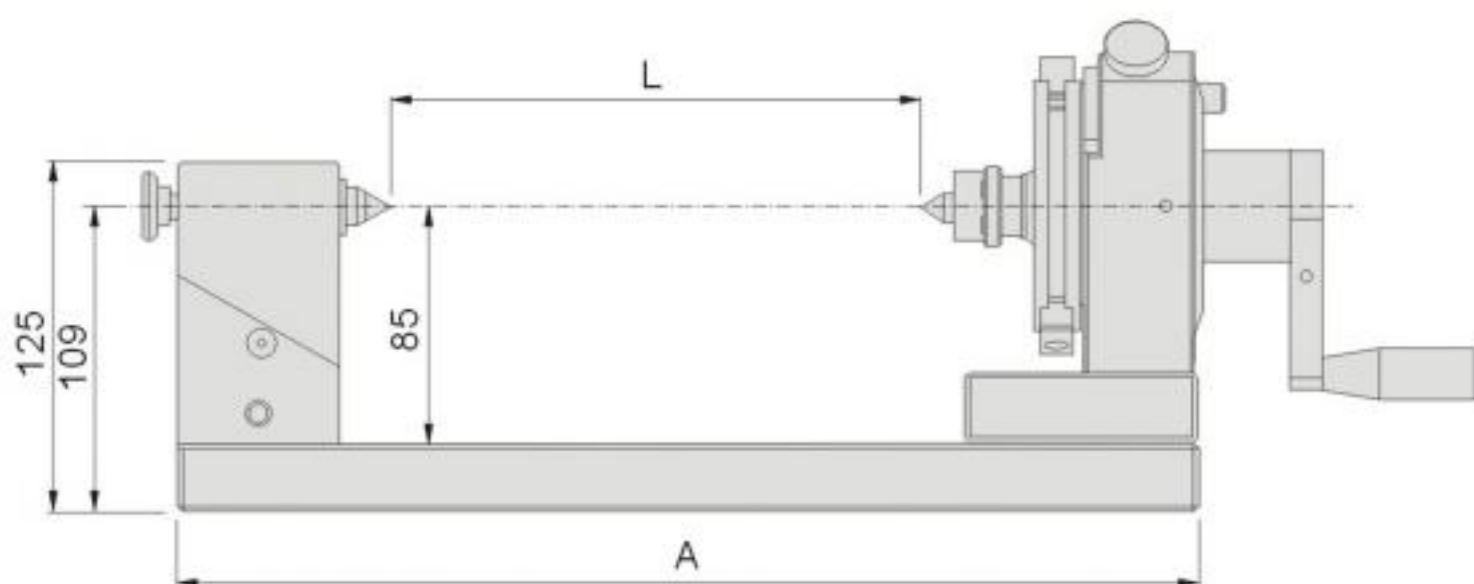
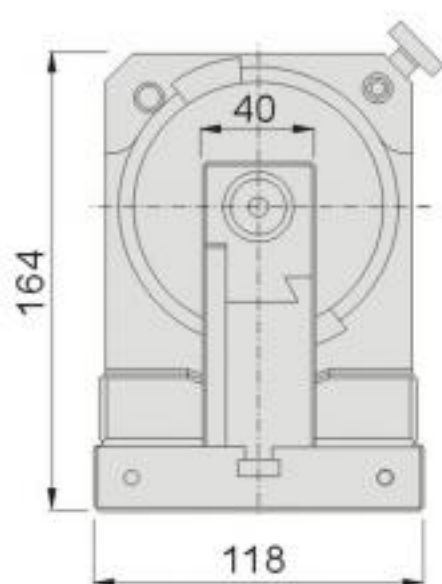


Features :

- ▶ 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:

Center height without base 85mm
 Center height with base 109mm
 Indexer tooth quantity & accuracy 24, $15^\circ \pm 10''$
 Live Center clamping range 0~450mm
 Material SKS3, HRC60~62°
 Roundness 0.002mm
 Parallelism 0.002mm/100mm
 Squareness 0.002mm/100mm



Unit:mm

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

50750 GPFEM Motorised Center Punch Former



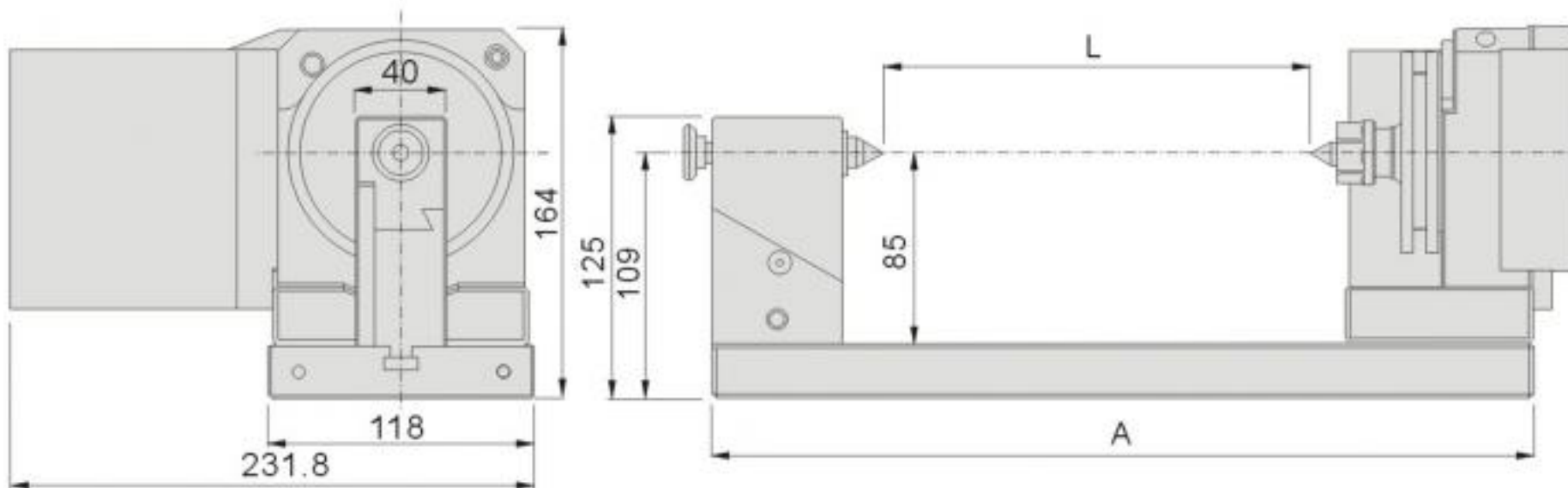
Features :

- ▶ Center Punch Former apply Live Center at both sides to clamp punch to achieve concentricity.
- ▶ 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
 Clamping range 0~450mm
 Motor output, Voltage 15W, 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



Unit:mm

| Order No. | Model | A | L | Rotary Angle | N.W. |
|--------------|----------|-----|-------|--------------|------|
| 50750-15-110 | GPFE150M | 375 | 0~150 | 360° | 23kg |
| 50750-15-220 | | | | | |
| 50750-25-110 | GPFE250M | 475 | 0~250 | | 26kg |
| 50750-25-220 | | | | | |
| 50750-35-110 | GPFE350M | 575 | 0~350 | | 29kg |
| 50750-35-220 | | | | | |
| 50750-45-110 | GPFE450M | 675 | 0~450 | 32.5kg | |
| 50750-45-220 | | | | | |

Center Punch Former

50800 GPFC 3-Jaws Center Punch Former

PUNCH FORMER



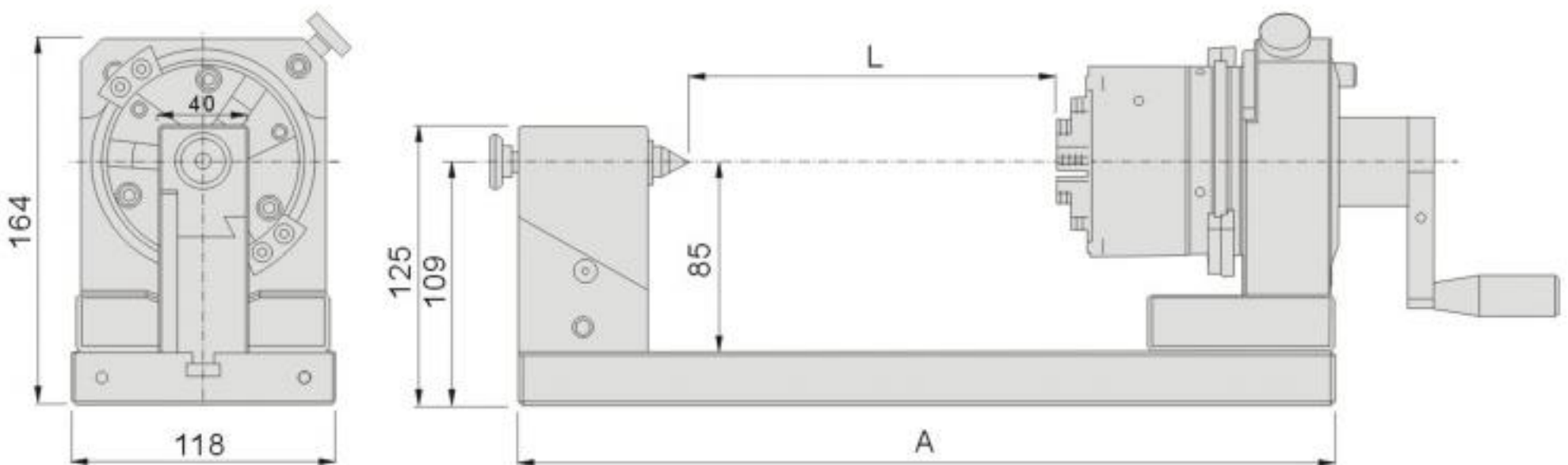
Material:
 Punch Former: SKS3 HRC60~62°
 3-Jaw Chuck: Meehanite cast iron

Features :

- ▶ 3-Jaw Center Punch Former apply 3-Jaw Chuck to clamping workpieces with rapid and easy loading process.
- ▶ It is capable of grinding long punches which cannot be processing by conventional Punch Formers.
- ▶ 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
 Indexer tooth quantity & accuracy 24, 15° ± 10"
 Hole dia. of 3-Jaw Chuck Ø 16mm
 Diameter of 3-Jaw Chuck Ø 85mm
 Roundness 0.002mm
 Parallelism 0.002mm/100mm
 Squareness 0.002mm/100mm



Unit:mm

| Order No. | Model | O.D. Range | I.D. Range | A | L | Rotary Angle | N.W. |
|-----------|---------|------------|------------|-----|-------|--------------|--------|
| 50800-15 | GPFC150 | Ø2~70 | Ø24~64 | 375 | 0~150 | 360° | 20kg |
| 50800-25 | GPFC250 | | | 475 | 0~250 | | 23kg |
| 50800-35 | GPFC350 | | | 575 | 0~350 | | 26kg |
| 50800-45 | GPFC450 | | | 675 | 0~450 | | 29.5kg |

50850 GPFCM Motorised 3-Jaws Center Punch Former



PUNCH FORMER

Features :

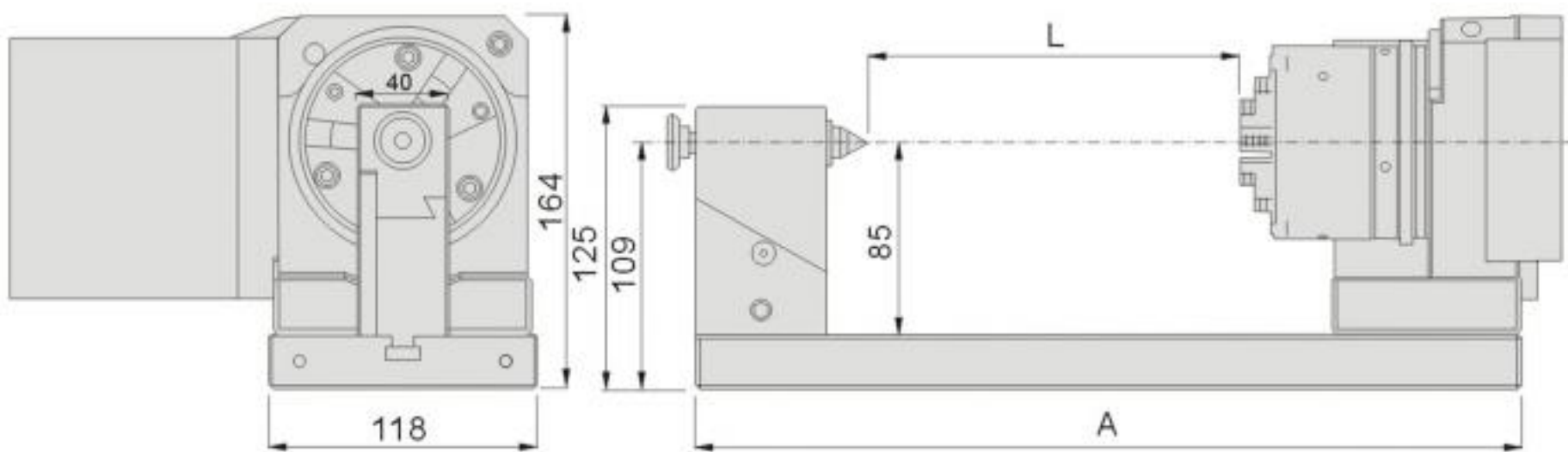
- ▶ 3-Jaw Center Punch Former apply 3-Jaw Chuck to clamping workpieces with rapid and easy loading process.
- ▶ Motorised function prevent human fatigue when processing.
- ▶ Live center stabilize the processing and achieve higher accuracy.
- ▶ It is mainly apply on bushes and cylinder which needs precision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

Material:

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

Main parameters:

Center height without base 85mm
Center height with base 109mm
Motor output, Voltage 15W 110/220V
Motor speed 50/60HZ 50~550RPM
Hole dia. of 3-Jaw Chuck \varnothing 16mm
Diameter of 3-Jaw Chuck \varnothing 85mm
Roundness 0.002mm
Parallelism 0.002mm/100mm
Squareness 0.002mm/100mm



Unit:mm

| Order No. | Model | O.D. Range | I.D. Range | A | L | Rotary Angle | N.W. |
|--------------|----------|--------------------|---------------------|-------|-------|--------------|------|
| 50850-15-110 | GPFC150M | \varnothing 2~70 | \varnothing 24~64 | 375 | 0~150 | 360° | 23kg |
| 50850-15-220 | | | | | | | |
| 50850-25-110 | GPFC250M | | | 0~250 | 26kg | | |
| 50850-25-220 | | | | | | | |
| 50850-35-110 | GPFC350M | | | 0~350 | 29kg | | |
| 50850-35-220 | | | | | | | |
| 50850-45-110 | GPFC450M | 0~450 | 32.5kg | | | | |
| 50850-45-220 | | | | | | | |

Punch Former

51000

PF300

Punch Former (big)



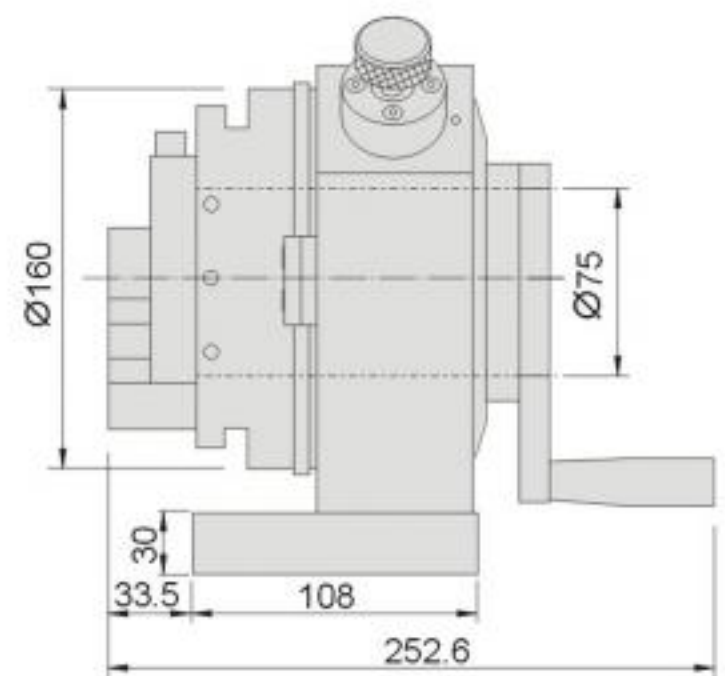
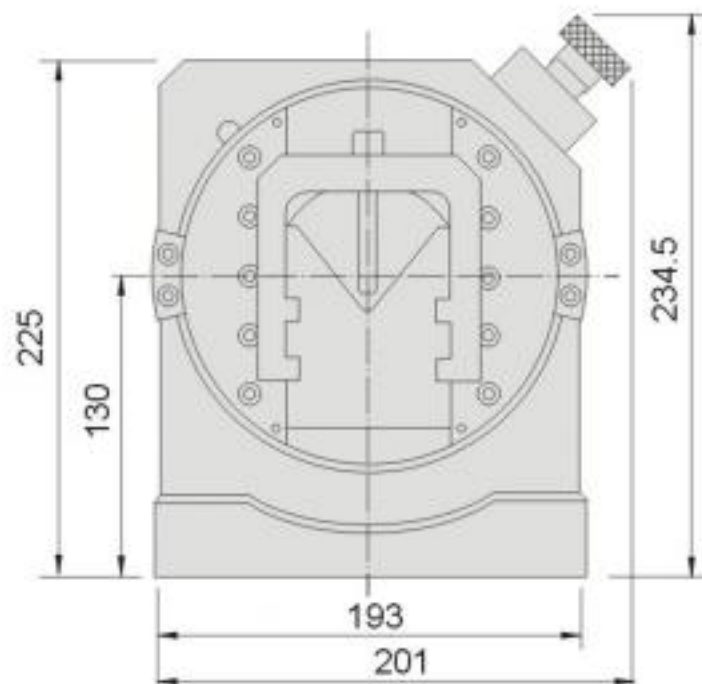
N.W. 21.3kg

Features :

- ▶ PF300 Punch Former is special designed for larger punch under $\varnothing 70$.
- ▶ 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.

Main parameters:

| | |
|--------------------------------------|-------------------------|
| Center height | 130mm |
| Clamping dia. range of V-block | $\varnothing 70$ mm |
| Travel of V-block..... | 60mm |
| Indexer tooth q'ty & accuracy | 24, $15^\circ \pm 10''$ |
| Through hole diameters | $\varnothing 75$ mm |
| Clamping accuracy (50mm) | 0.008mm |





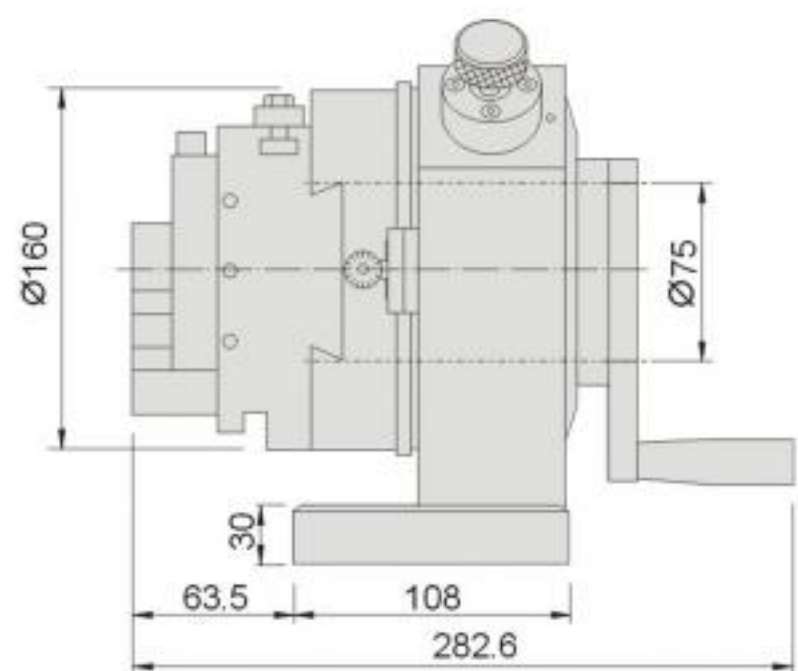
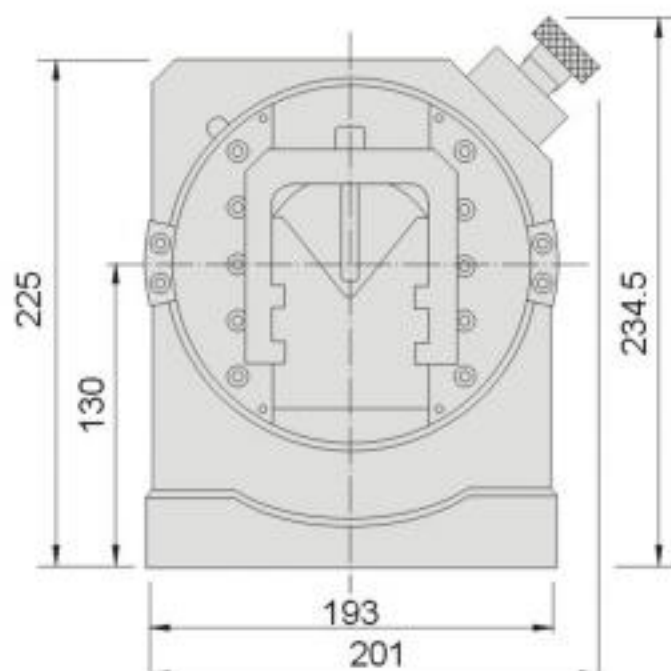
N.W. 23.3kg

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.

Main parameters:

| | |
|---------------------------------------|------------|
| Center height | 130mm |
| Clamping dia. range of V-block | Ø70mm |
| Travel of V-block | 60mm |
| Slide plate horizontal movement | ±25mm |
| Indexer tooth q'ty & accuracy | 24、15°±10" |
| Clamping accuracy (50mm) | Ø75mm |
| Through hole diameters | 0.008mm |



Punch Former

51080

PF600

3-Jaws Punch Former (big)



PUNCH FORMER



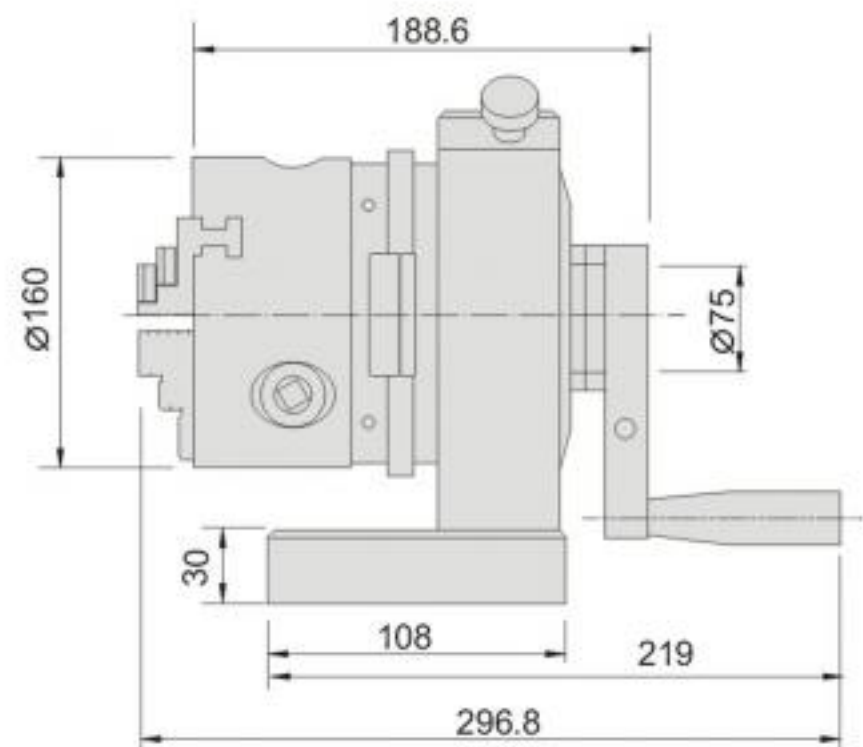
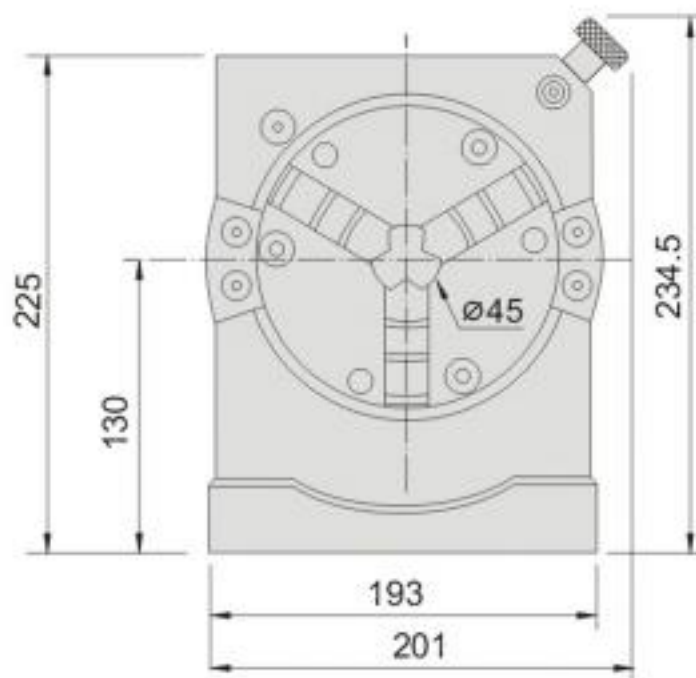
N.W. 24.3kg

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.

Main parameters:

| | |
|-------------------------------------|----------------------------|
| Center height | 130mm |
| Indexer tooth q'ty & accuracy | 24, $15^{\circ} \pm 10''$ |
| Through hole diameters | $\varnothing 45\text{mm}$ |
| Hole dia. of 3-Jaw Chuck | $\varnothing 45\text{mm}$ |
| 3-Jaw chuck repeat accuracy | 0.015mm |
| Min. clamping range: Outer dia..... | $\varnothing 4\text{mm}$ |
| Inner dia..... | $\varnothing 48\text{mm}$ |
| Max. clamping range: Outer dia..... | $\varnothing 160\text{mm}$ |
| Inner dia..... | $\varnothing 150\text{mm}$ |



51100 PFA **Punch Former (Dual)**



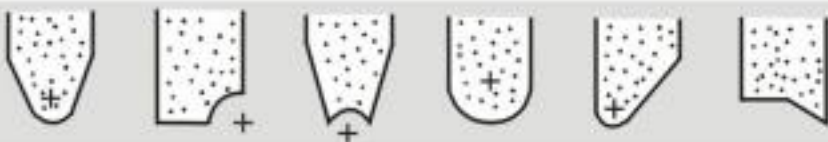
N.W. 8.6kg



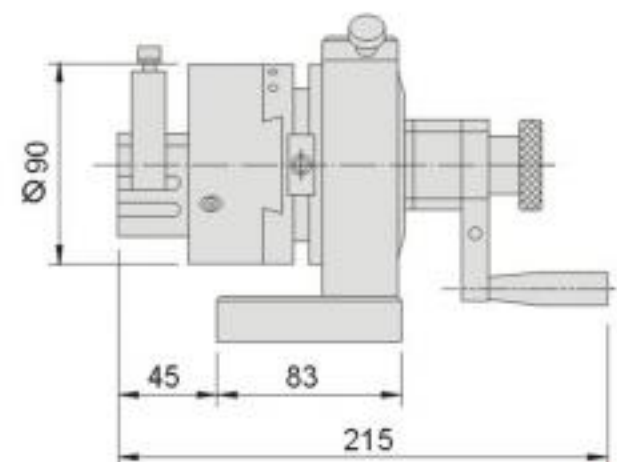
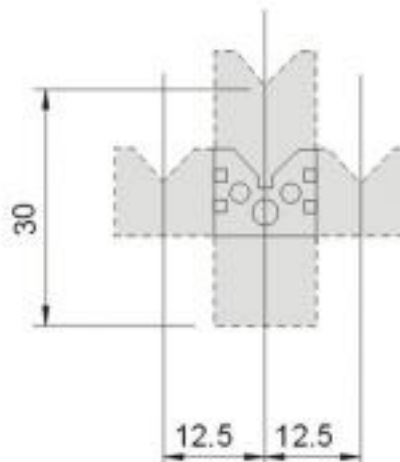
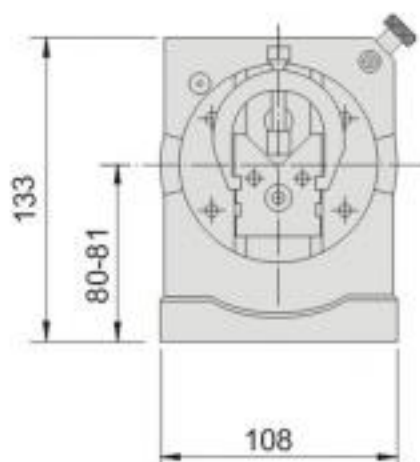
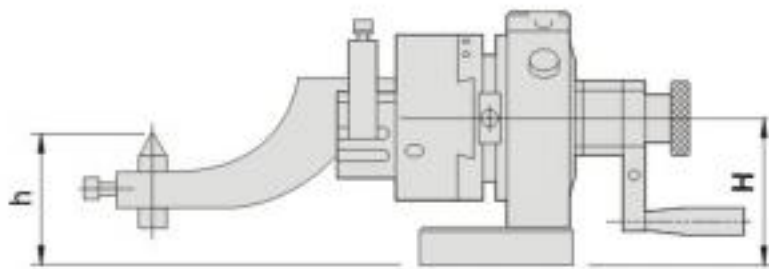
Punch Forming Applications



Diamond pin is not included



Wheel Dressing 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 shapes.

Main parameters:

| | |
|---------------------------------------|---------------|
| Center height | 80 ~ 81mm |
| Clamping dia. range of V-block | Ø 4 ~ 30mm |
| Travel of V-block | 30mm |
| Slide plate horizontal movement | ±12.5mm |
| 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

Punch Former

51150 PFB Punch Former

PUNCH FORMER



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 shaes.
- ▶ Optional accessory PFB1 to achieve angular wheel dressing.
- ▶ Optional accessory SVB to achieve min. $\varnothing 0.5\text{mm}$ clamping capability.

Main parameters:

| | |
|--------------------------------------|-------------------------------|
| Center height | 80 ~ 81mm |
| Clamping dia. range of V-block..... | $\varnothing 4 - 30\text{mm}$ |
| Travel of V-block | 30mm |
| Indexer tooth q'ty & accuracy | 24, $15^\circ \pm 10'$ |
| Clamping accuracy (50mm)..... | 0.005mm |
| Through hole dia. | $\varnothing 30\text{mm}$ |
| Capable wheel size of dressing | $\varnothing 200\text{mm}$ |
| Max. radius dressing Convex | R48mm |
| Concave | R100mm |

51150-01 PFB1

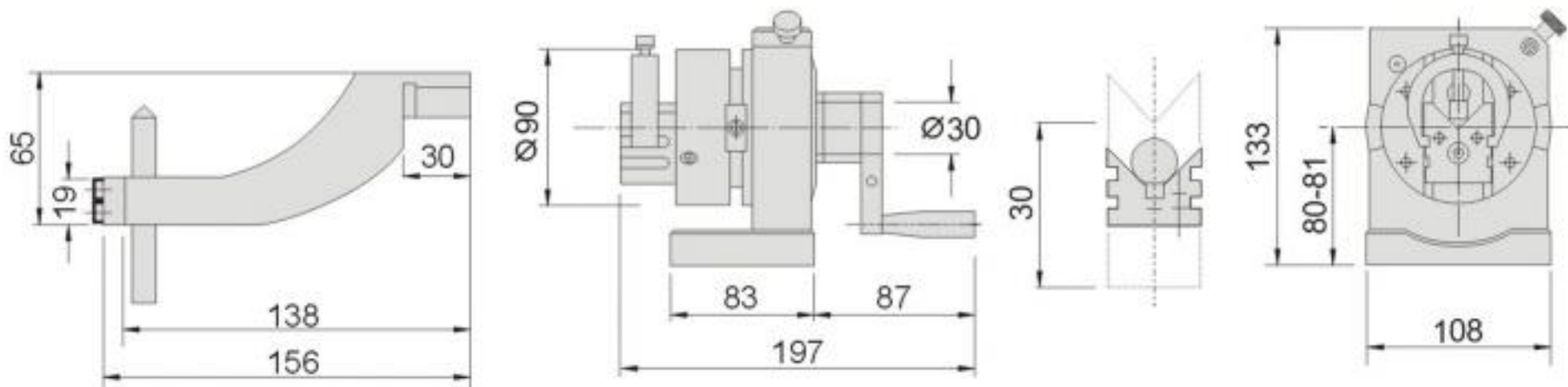


N.W. 0.6kg

51150-02 SVB



N.W. 0.2kg



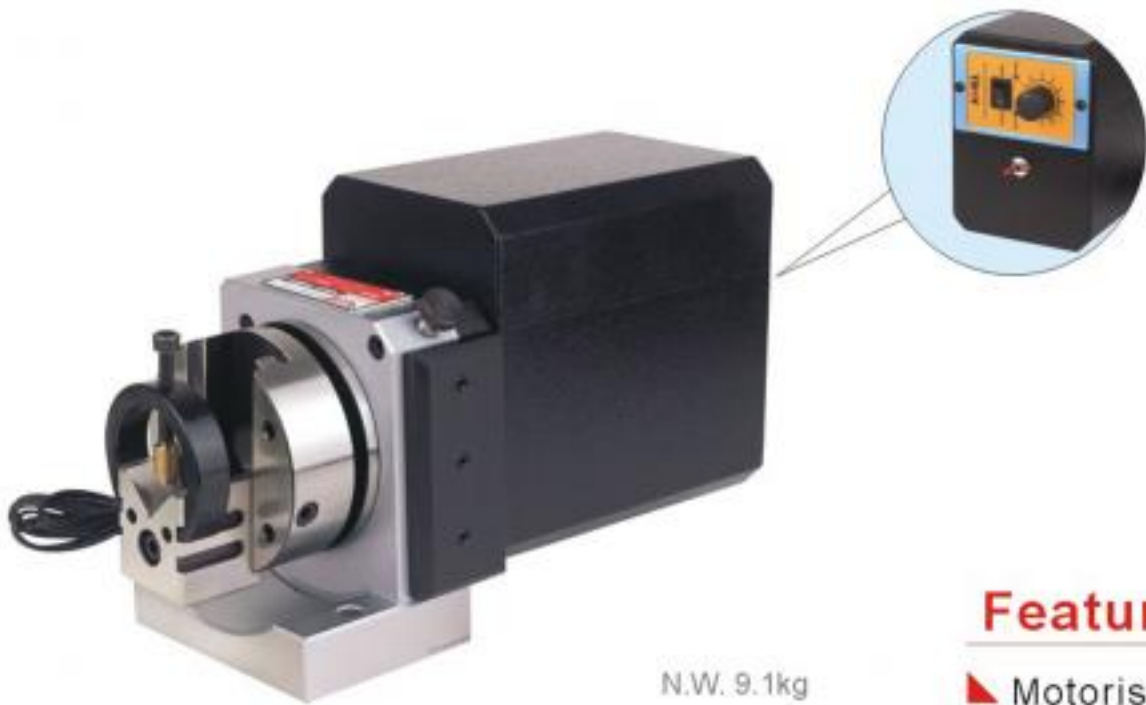
Punch forming applications

Grinding wheel dressing application



51160 PFBM Motorised Punch Former

PUNCH FORMER



N.W. 9.1kg

Features :

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

Main parameters:

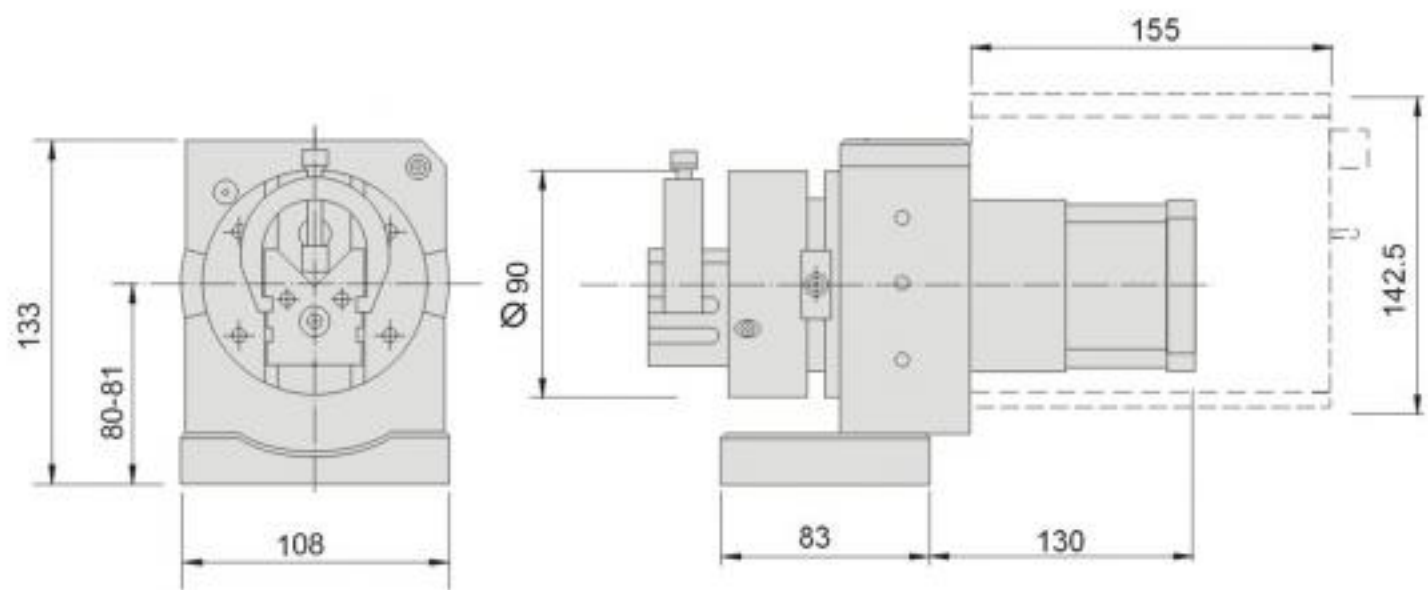
Center height 80 ~ 81mm
 Clamping diameter in V-slot \varnothing 4 ~ 30mm
 Travel of V-block 25mm
 Clamping accuracy (50mm) 0.005mm
 Roller driving motor 110V/60HZ 50~300rpm
 Roller driving motor 220V/50HZ 50~300rpm



View without dust cover

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 | Volts |
|-----------|-------|--------|
| 51160-110 | PFBM | AC110V |
| 51160-220 | | AC220V |

Punch Former

51200

PFC

3-Jaw Punch Former

PUNCH FORMER



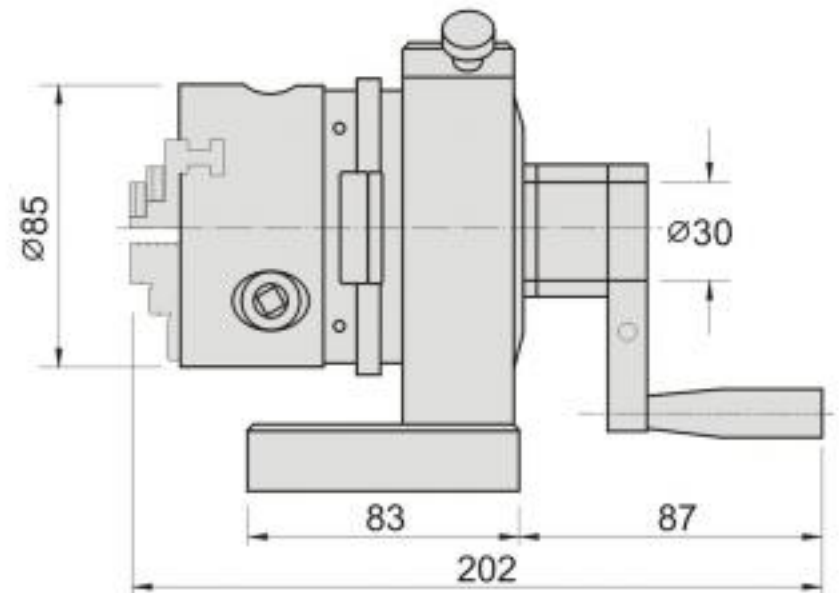
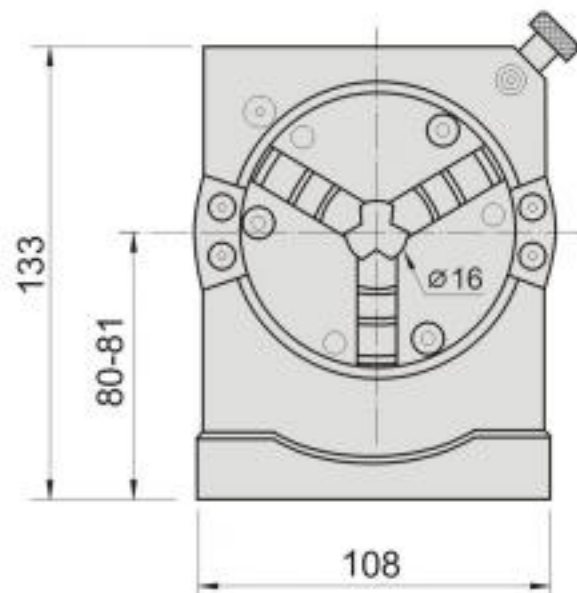
N.W. 7.6kg

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 & accuracy..... | 24, $15^{\circ} \pm 10''$ |
| Through hole diameters..... | $\varnothing 30$ mm |
| Rotational accuracy..... | 0.003mm |
| Repeat accuracy..... | 0.015mm |
| Hole dia. of 3-Jaw Chuck..... | $\varnothing 16$ mm |
| Min. clamping range | O.D. $\varnothing 2$ mm, I.D. $\varnothing 24$ mm |
| Max. clamping range | O.D. $\varnothing 70$ mm, I.D. $\varnothing 64$ mm |



51210 PFCM Motorised 3-Jaw Punch Former

PUNCH FORMER



N.W. 10.1kg



View without dust cover

Features :

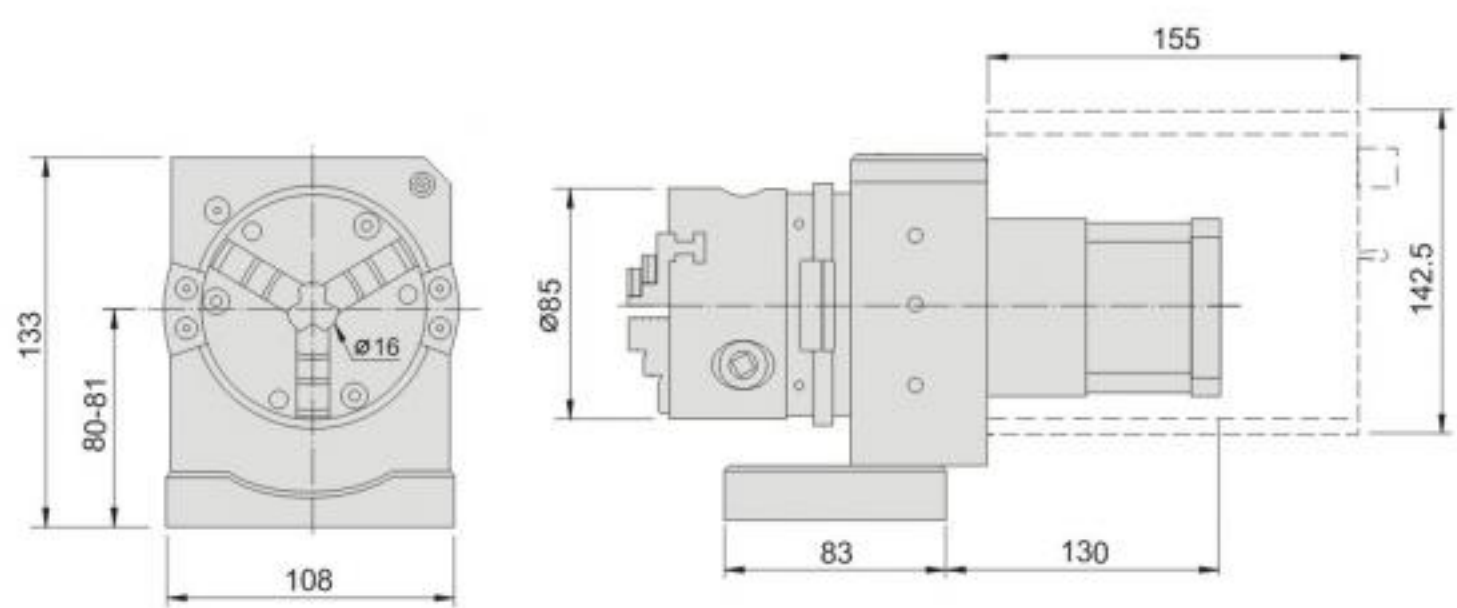
- ▶ Motorised function prevent human fatigue when processing.
- ▶ Increase efficiency when processing punches.

Main parameters:

| | |
|--------------------------------|--------------------------|
| Center height | 80 ~ 81mm |
| Rotational accuracy | 0.003mm |
| Repeat accuracy..... | 0.015mm |
| Hole dia. of 3-Jaw Chuck | ∅ 16mm |
| Min. clamping range | O.D. ∅ 2mm, I.D. ∅ 24mm |
| Max. clamping range | O.D. ∅ 70mm, I.D. ∅ 64mm |
| 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 | Volts |
|-----------|-------|--------|
| 51210-110 | PFCM | AC110V |
| 51210-220 | | AC220V |

Punch Former

51250

PFD

ER Collet Punch Former



PUNCH FORMER



ER40

ER32

ER16

Features :

- ▶ 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

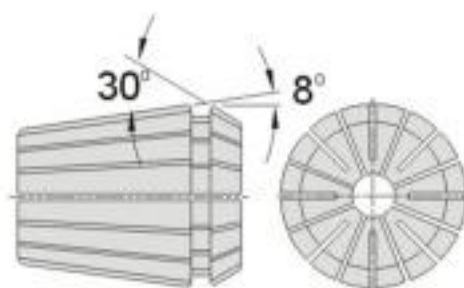
PFD-SE16



N.W. 5.6kg

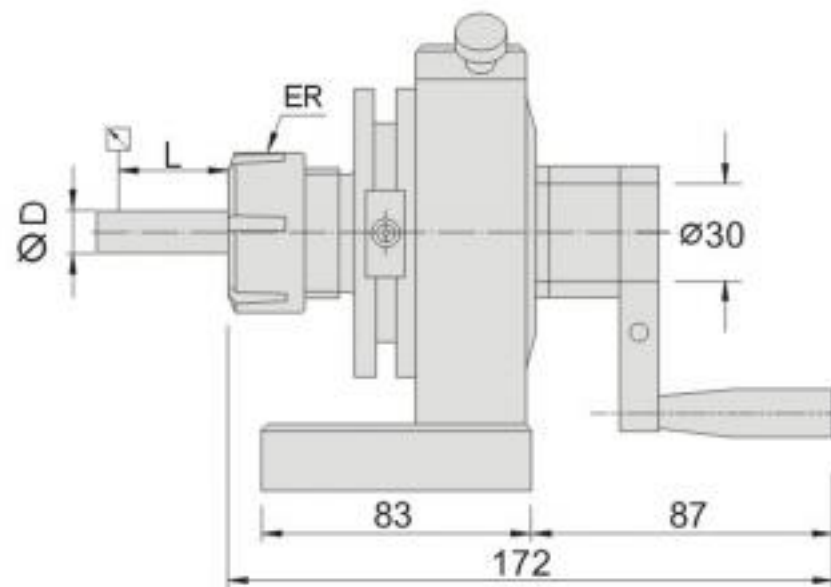
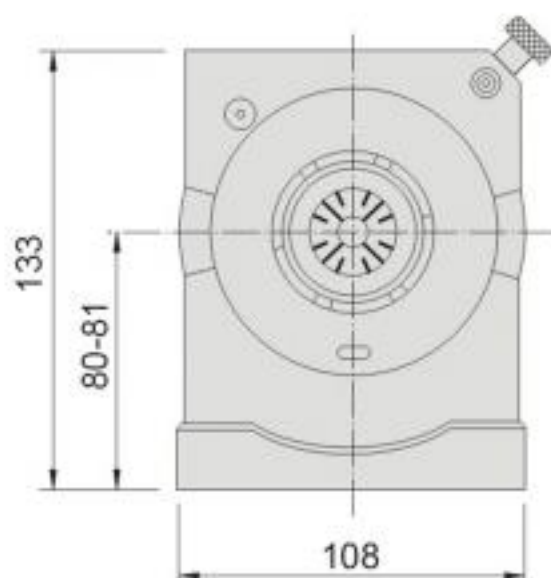


SE16



Collet Standard Accuracy

| L | D | Accuracy |
|----|-----------|----------|
| 6 | 1.0-1.6 | 0.015 |
| 10 | 1.6-3.0 | 0.015 |
| 16 | 3.0-7.0 | 0.015 |
| 25 | 7.0-10.0 | 0.015 |
| 40 | 10.0-18.0 | 0.020 |
| 50 | 18.0-24.0 | 0.020 |
| 60 | 24.0-34.0 | 0.020 |



| Order No. | Model | Collet Size | Collet Accuracy | N.W. |
|-----------|----------|-------------------|-----------------|-------|
| 51250-16 | PFD-ER16 | 2, 3, 4, 6, 8 | 0.010 | 5.6kg |
| 51250-32 | PFD-ER32 | 4, 8, 12, 16, 20 | 0.008 | 6.6kg |
| 51250-40 | PFD-ER40 | 6, 10, 16, 20, 25 | 0.008 | 7.6kg |
| 51250-16A | PFD-SE16 | 2, 3, 4, 6, 8 | 0.005 | 5.6kg |

51260 PFDM Motorised ER Collet Punch Former

PUNCH FORMER



View without dust cover



ER40 ER32 ER16

Features :

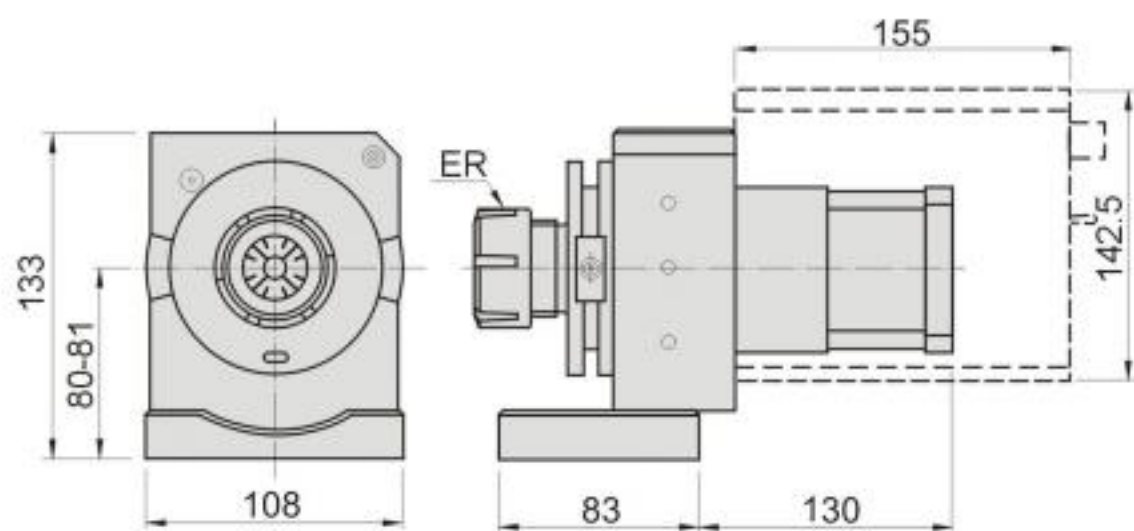
- ▶ Motorised function prevent human fatigue when processing.
- ▶ With ER collets, the flexible range of collet is 1mm.
- ▶ Clamping under 4mm apply ER16 collet.
- ▶ PFDM can rapidly clamp the workpiece and achieving higher stability during processing, no need to adjust the center accuracy.
- ▶ This 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 | |

Punch Former

51300

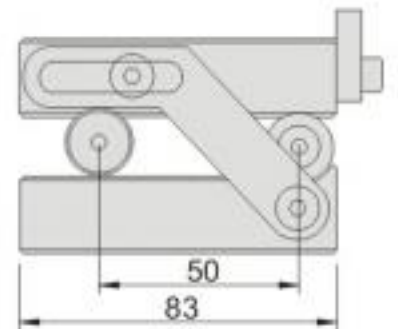
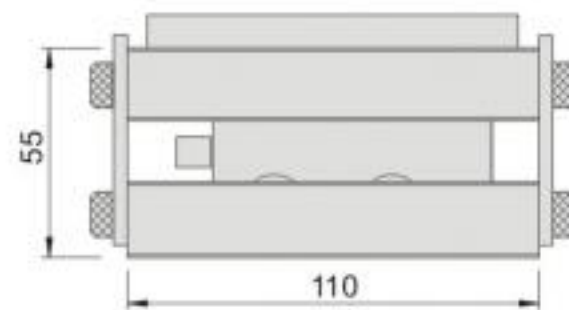
SPF50

Sine Plate for Punch Former

PUNCH FORMER

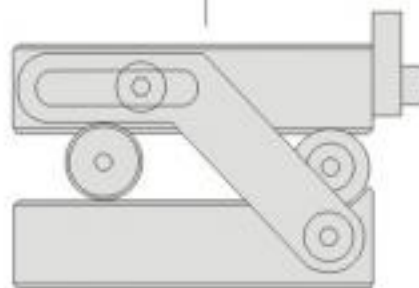


N.W. 3.3kg



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

51320

GTF

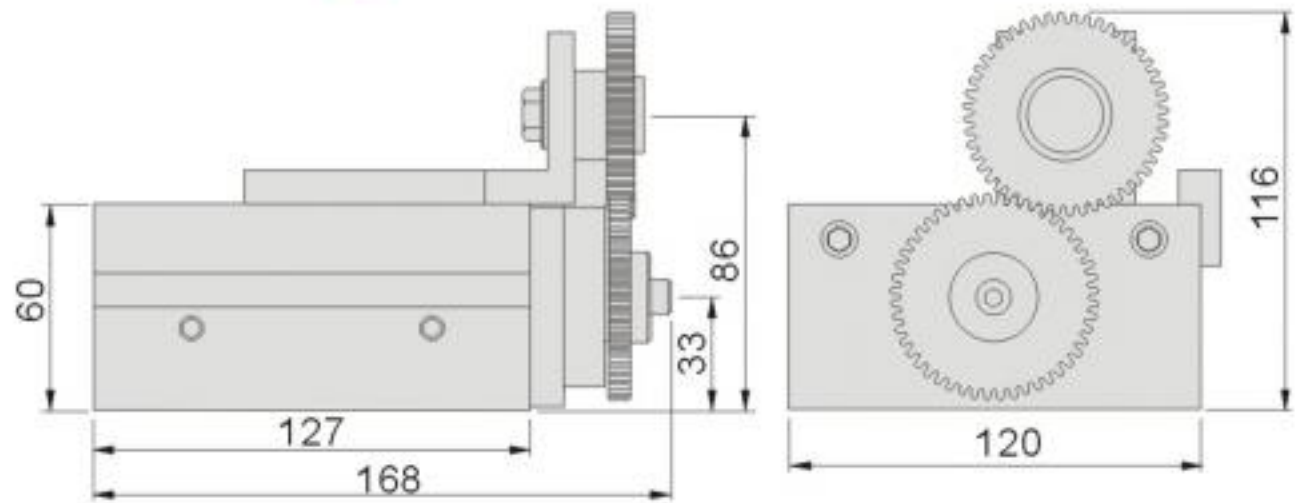
Replaceable type Thread Grinding Slider

Features :

- ▶ GTF Sine Plate is designed for applying on Punch Formers (PFB, PFC & PFD) to make thread grinding.
- ▶ Depending the thread pitch needs, choosing appropriate accessories. (Pitch 0.5/0.7/0.8/1.0/1.25/1.5/1.75/2.0).
- ▶ Standard accessory: P 1.0, and two extra thread bars from abovementioned spec. , Dust proof cover is also included.
- ▶ Custom made thread bar is available.



Stroke 50mm



PFB



PFC



PFD

Thread Bars



Examples:



N.W. 7.6kg

**GTF
51320**

Thread Grinding Slider.



**51320-01
GTFB**

N.W. 15.2kg



**51320-02
GTFC**

N.W. 15.2kg



**51320-03/04/05
GTFD-ER16/32/40**

N.W. 13.2kg
14.2kg
15.2kg

Application examples:



PUNCH FORMER

Punch Former

51450

PGA

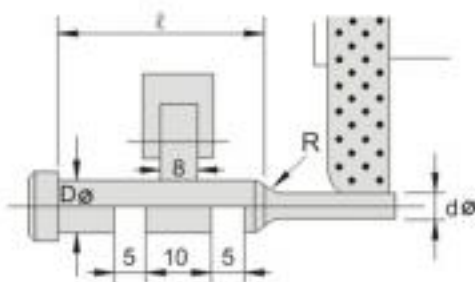
Punch Grinder

PUNCH FORMER

PAT: 208219
ZL 02 2 52581.5

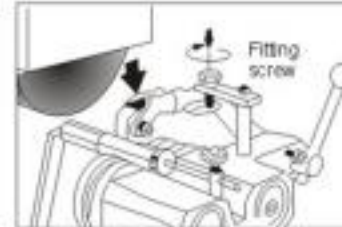
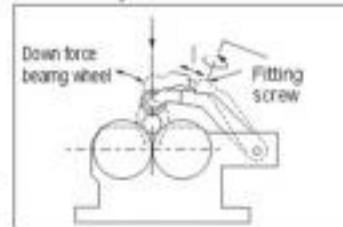
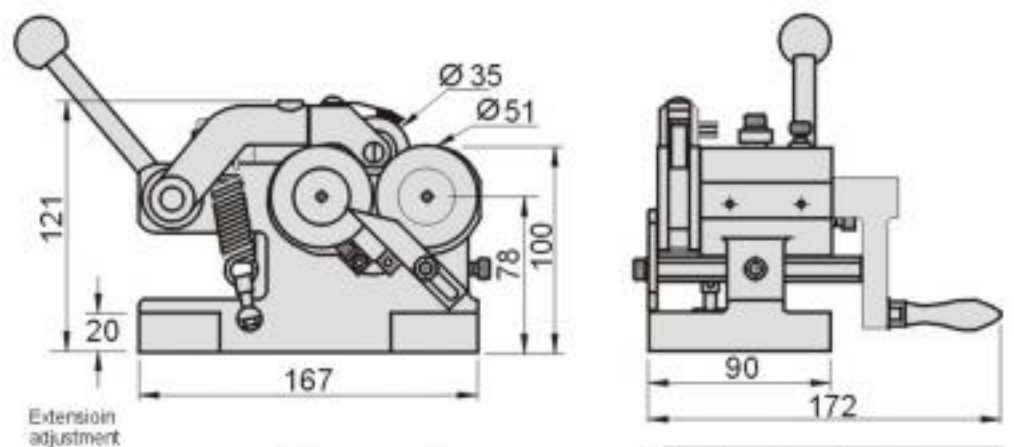


N.W. 5.6kg



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.



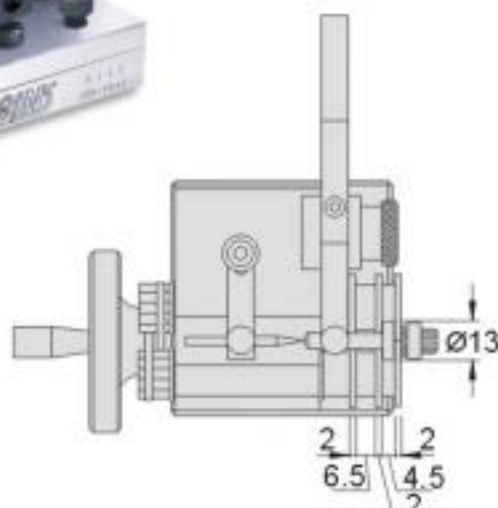
51500

PGAS

Punch Grinder

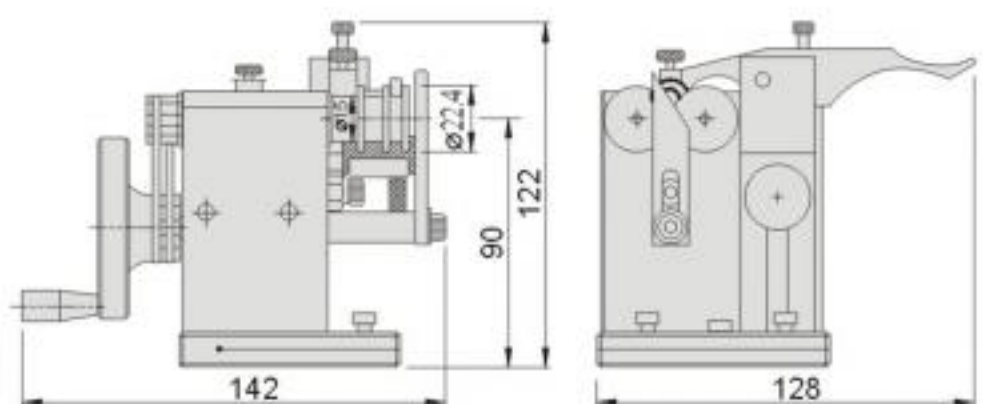


N.W. 2.5kg



Features :

- ▶ PGAS can be applied on surface grinder and automatically find concentricity for cylindrical grinding from $\text{Ø}0.5$ to $\text{Ø}10\text{mm}$, for longer workpiece job, refer to 55441 PGCF model.
- ▶ For measuring concentricity purpose, PGAS can measure from $\text{Ø}0.5$ to $\text{Ø}25\text{mm}$ with accuracy 0.003mm.



51550 PGAM Motorised Punch Grinder



N.W. 10.2kg

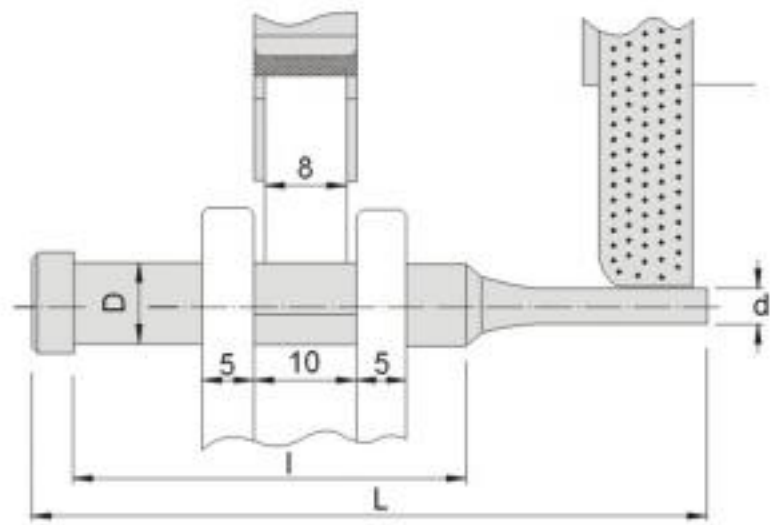
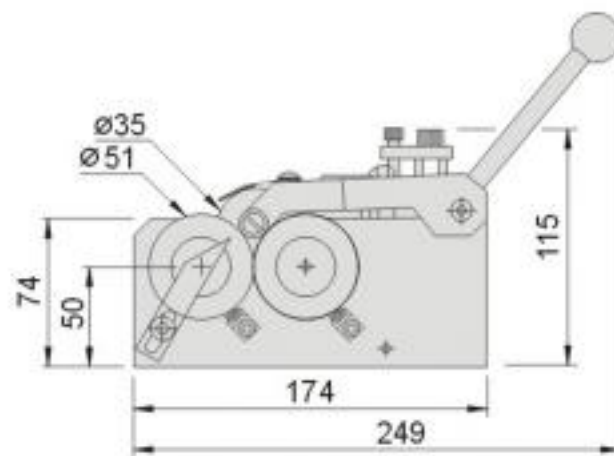
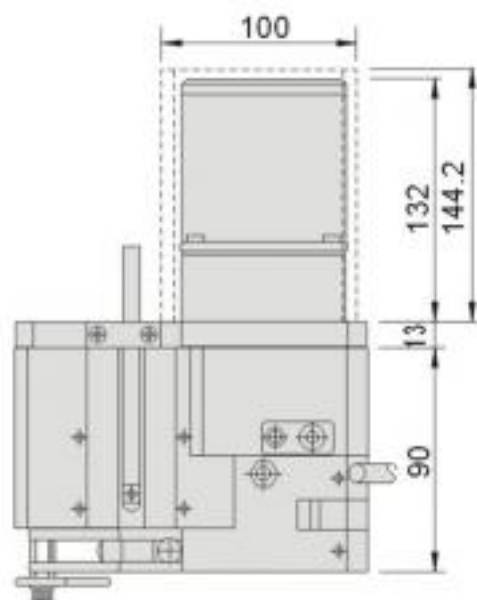
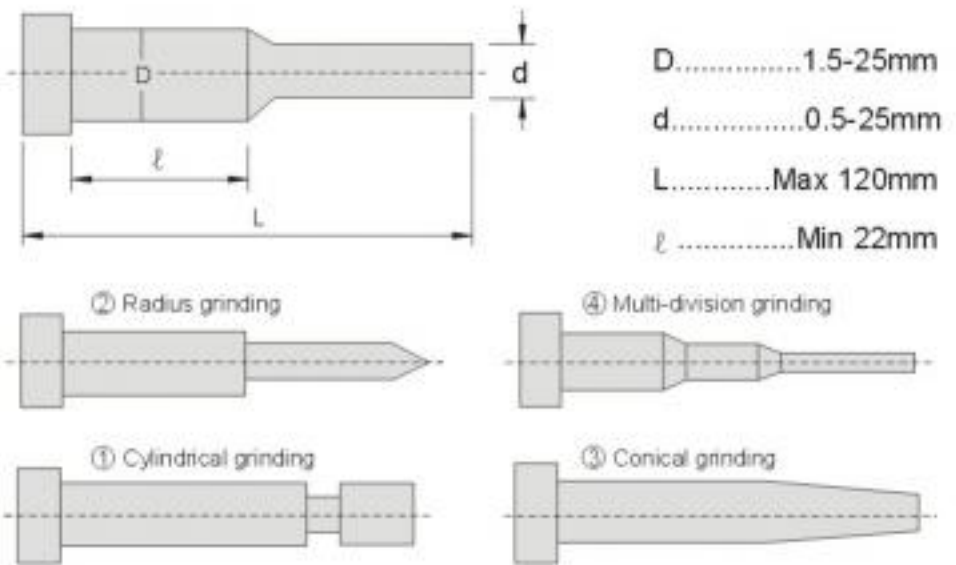
Features :

- ▶ 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 | | AC220V 1Phase |

Wheel Dresser

52100 WD165 Universal Wheel Dresser

PAT: 156082
ZL 99 2 11126.9



N.W. 6.6kg

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.

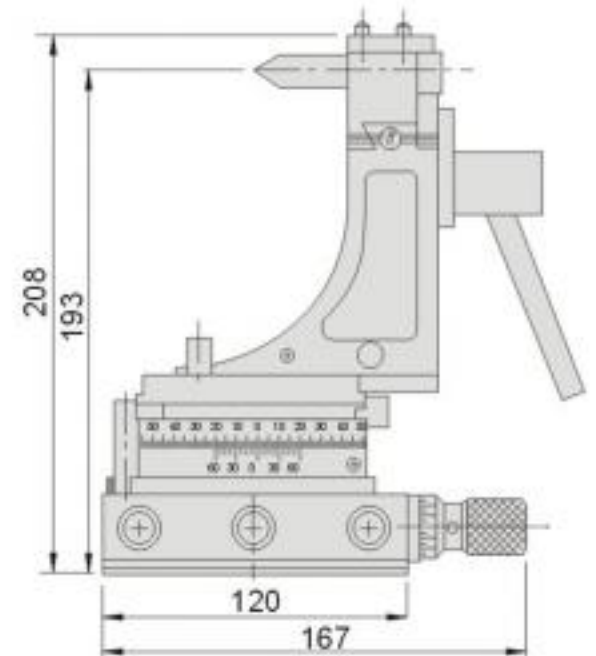
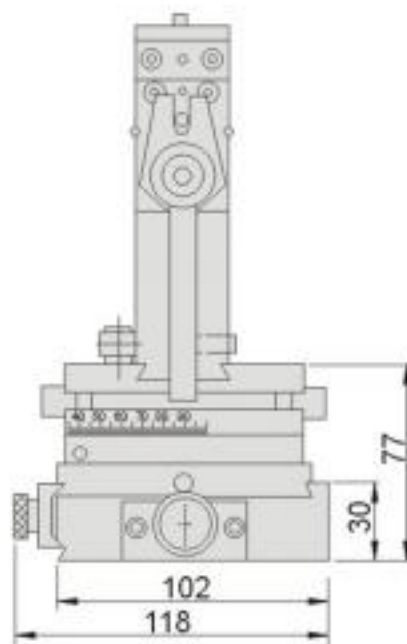
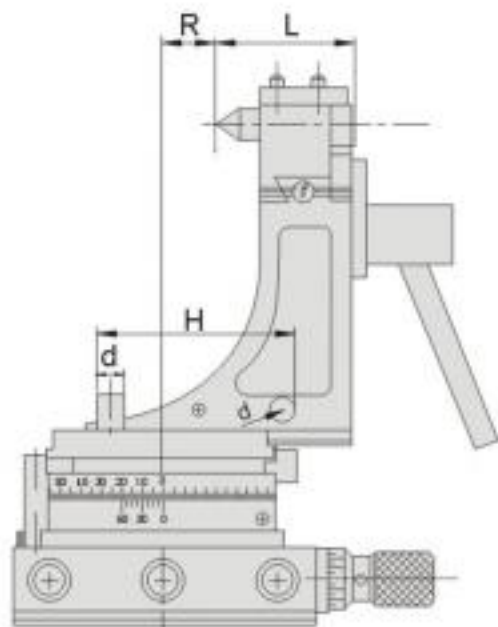
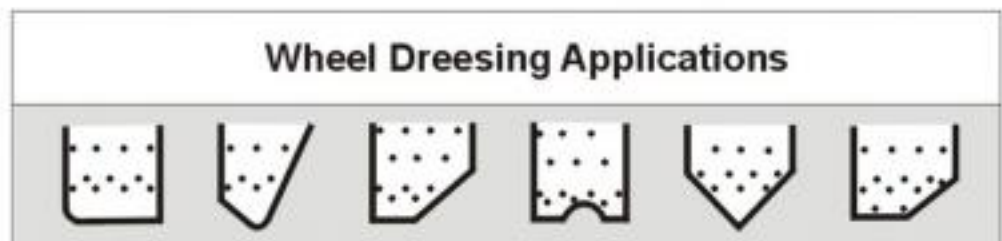
R: Radius of the arc surface to be dressed.

L: distance from tip of diamond cutter to base plate

Main parameters:

- Center height 193mm
- Measuring guide diameter $\varnothing 10\text{mm}$
- Max. swing distance of diamond cutter..... $\pm 14\text{mm}$
- Max. wheel diameter $\varnothing 205\text{mm}$
- Reading accuracy of turret index..... 5'
- Max. translation of feed 25mm
- Feed per division of handle scale 0.01mm
- Max.dressing convex arc 50R ,concave arc 0~100

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



52150 RDA Radius and Angle Dresser

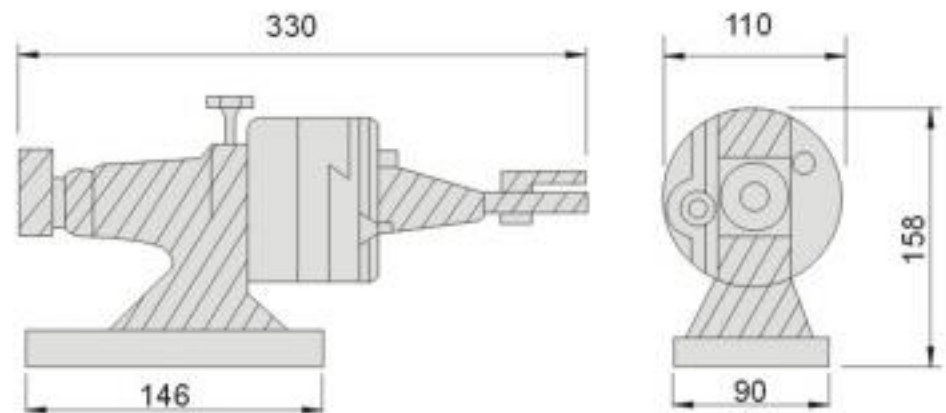


N.W. 10.5kg



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 $\varnothing 350$ mm



WHEEL DRESSER

52200 RDB Radius and Angle Dresser

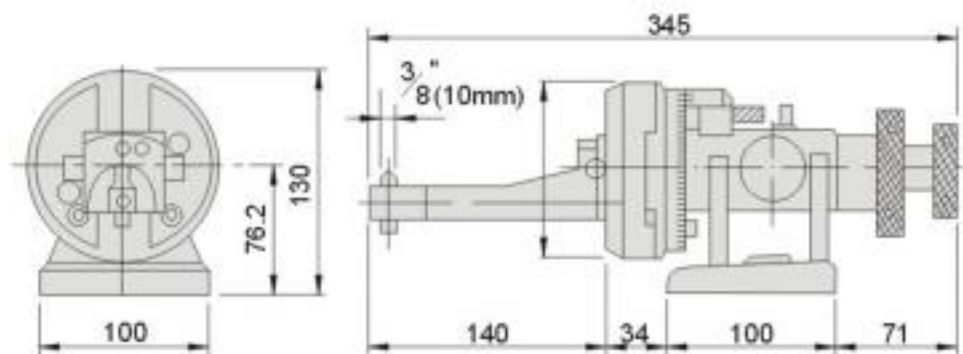


N.W. 8.5kg



Features :

- ▶ RDB Max. convex R45mm, Max concave R100mm, Max horizontal movement is 65mm. Max. applicable wheel dressing is $\varnothing 325$ mm



52250 RDC Radius and Angle Dresser

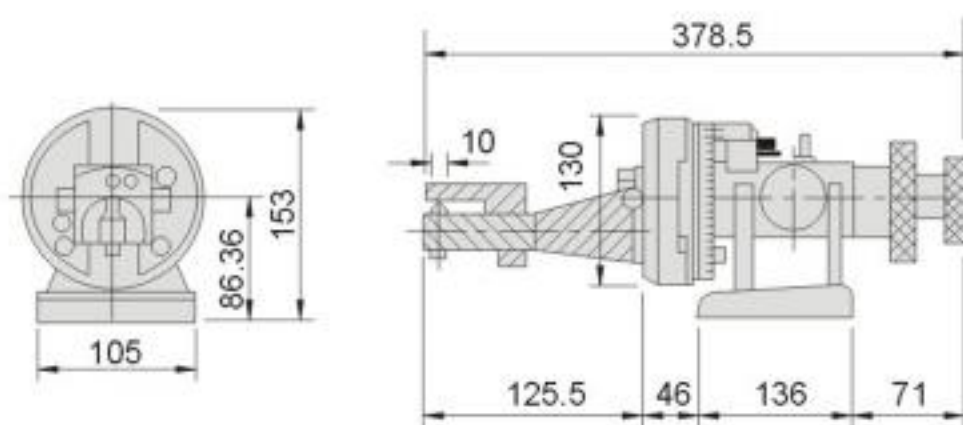


N.W. 9.5kg



Features :

- ▶ RDC Max. convex R60mm, Max concave R150mm, Max horizontal movement is 90mm.
- ▶ Max. applicable wheel dressing is $\varnothing 279$ mm



Wheel Dresser

52300

KT50

Visual Radius Angle Dresser

PAT: 160112
ZL 99 2 11127.7



N.W. 3.8kg

Wheel Dressing Applications



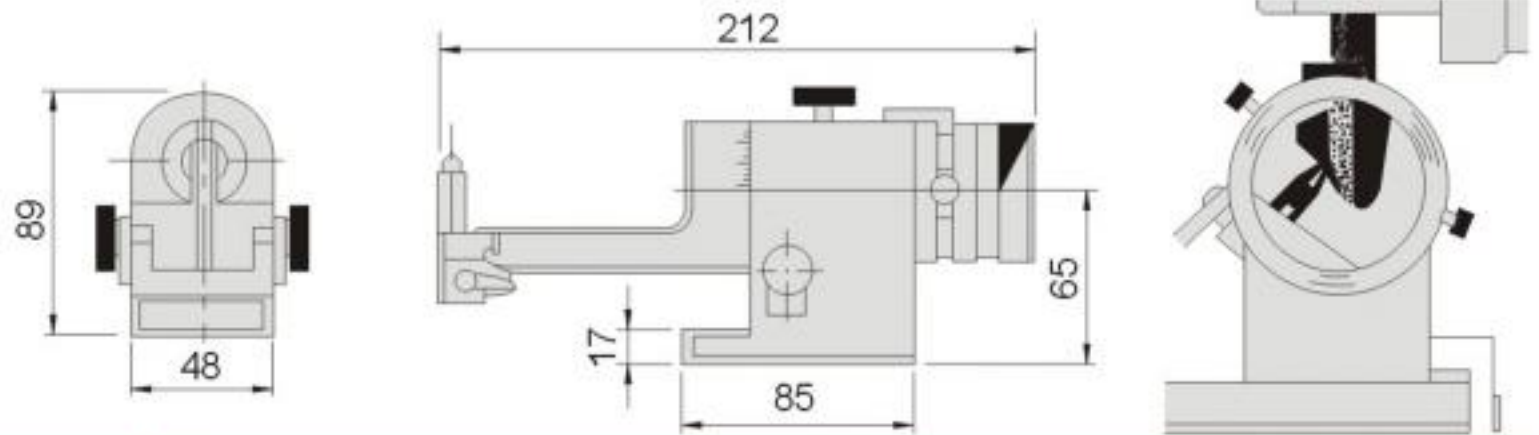
Features :

- ▶ 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 | | Metric |



52320

KT50S

Visual Radius and Angle Dresser

N.W. 3.5kg



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 Dressing Applications



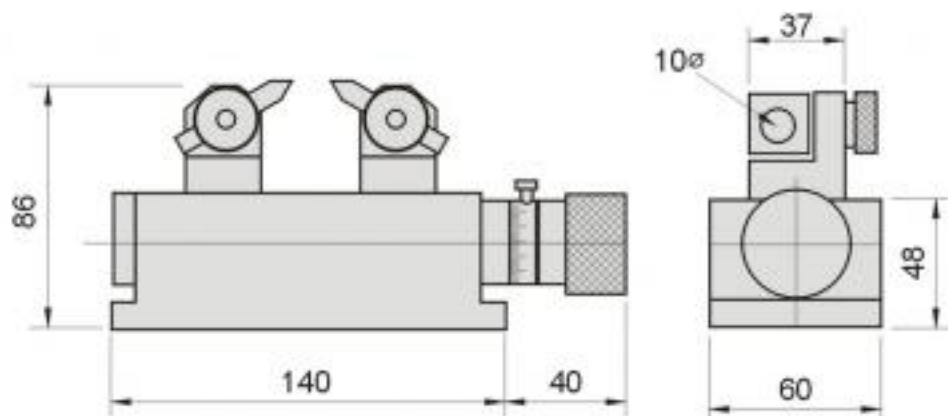
52350

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 |

WHEEL DRESSER

52360

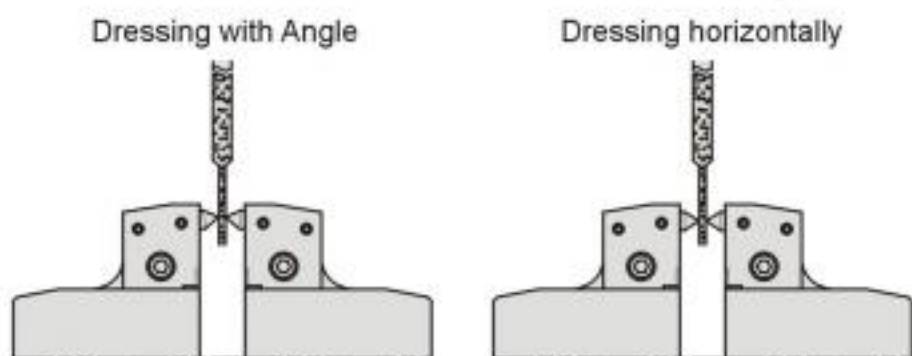
DF50

Precision Duplex Dresser

PAT: 174305
 ZL 00 2 31135.6

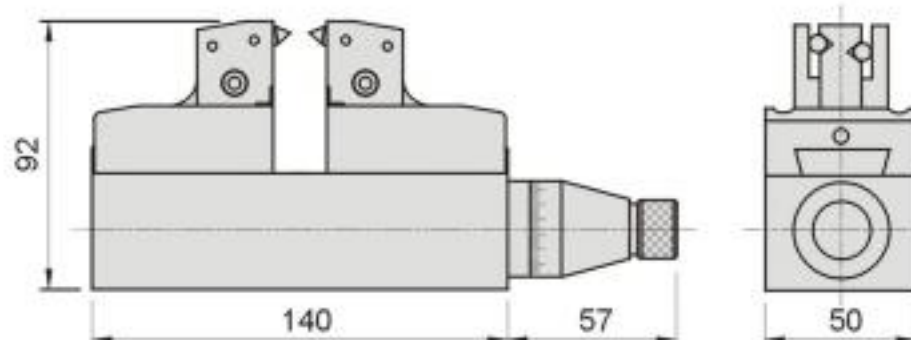


N.W. 3.4kg



Features :

- ▶ 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 |

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

Wheel Dresser

52380

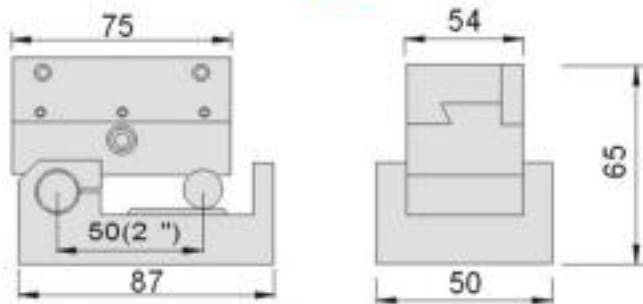
AP50H

Angle Sine Dresser

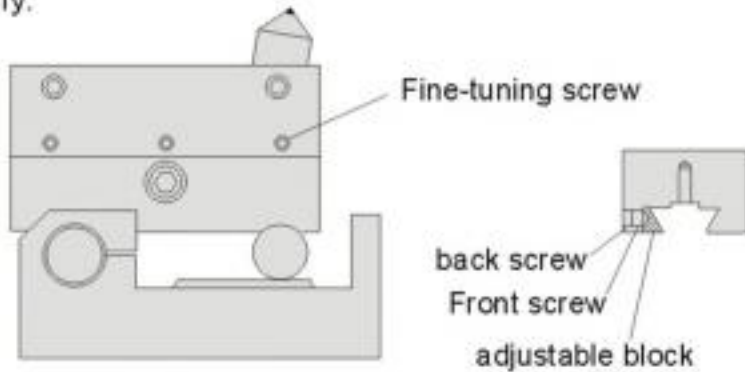


PAT: ZL 2007 2 0196026.3
M 333986

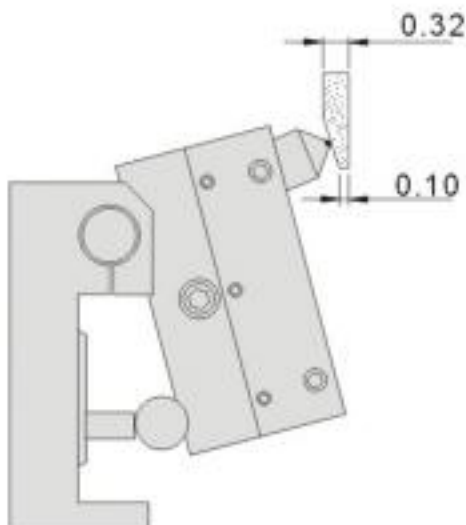
N.W. 1.4kg



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.

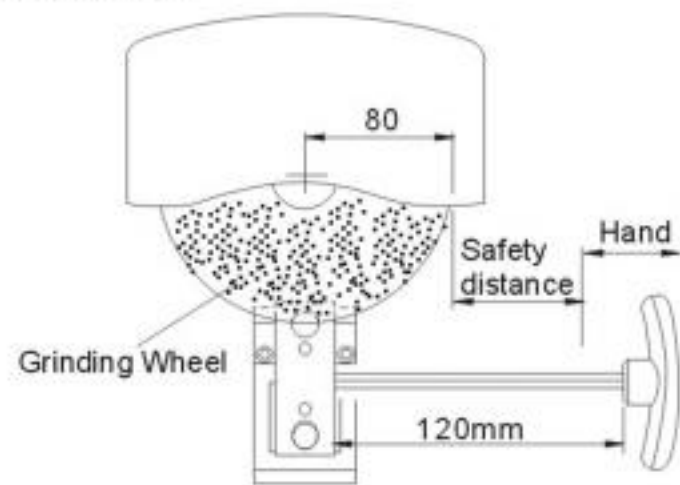


Features :

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

| Order No. | Model | Spec |
|-----------|-------|--------|
| 52380-11 | AP50H | Inch |
| 52380-12 | | 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.



AP50H has its own Patent and it basically the improved version of original type. Below is the comparison.

| AP50H | AP50 |
|--|---|
| <ol style="list-style-type: none"> 1. Applying gears driven 2. Safety distance when applying 3. Three fine-tuning screw at side 4. Easy to achieve precision dressing for any user | <ol style="list-style-type: none"> 1. Applying manually 2. Close to wheel when applying 3. No fine-tuning function 4. Must have specialist to make precision dressing |
| | |

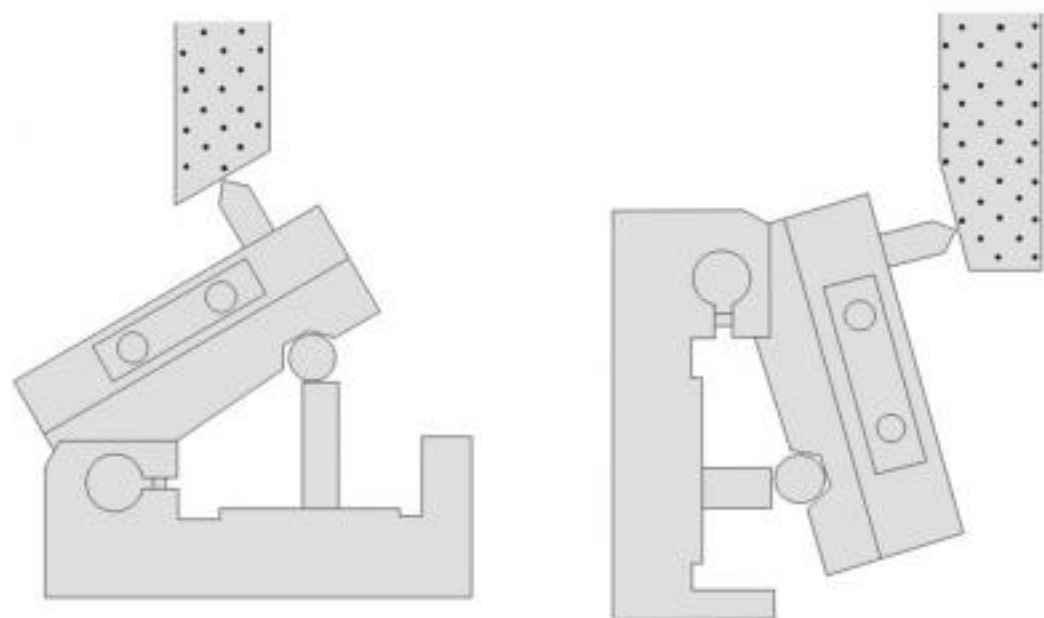
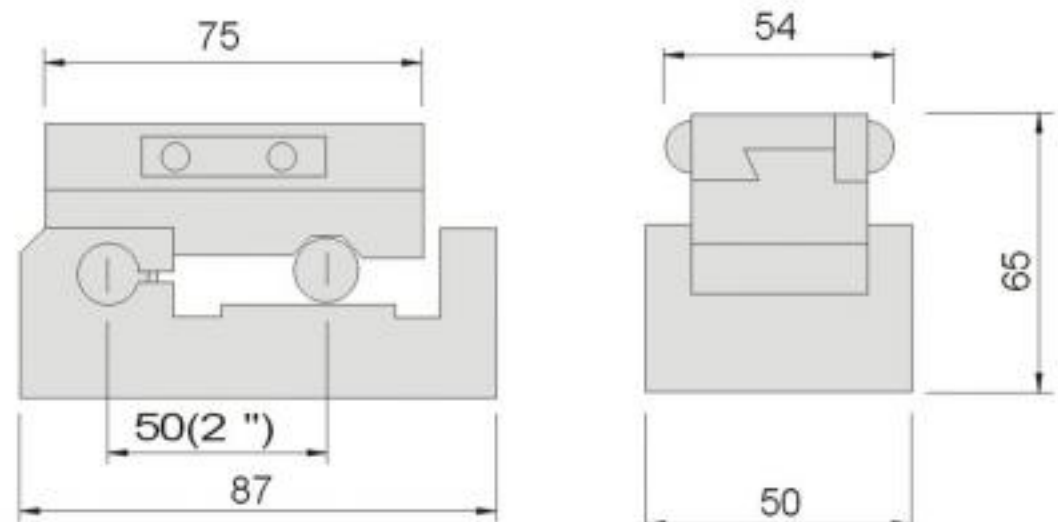
PAT: 191154
ZL 99 2 11094.7



Features :

- ▶ 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° (horizontal), 45-90° (vertical) and both are within 0.005mm accuracy.
- ▶ Double axis accuracy is $\pm 0.002\text{mm}$.
- ▶ It has stroke of 65mm.

N.W. 1.4kg



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

Wheel Dresser

52430

RD30

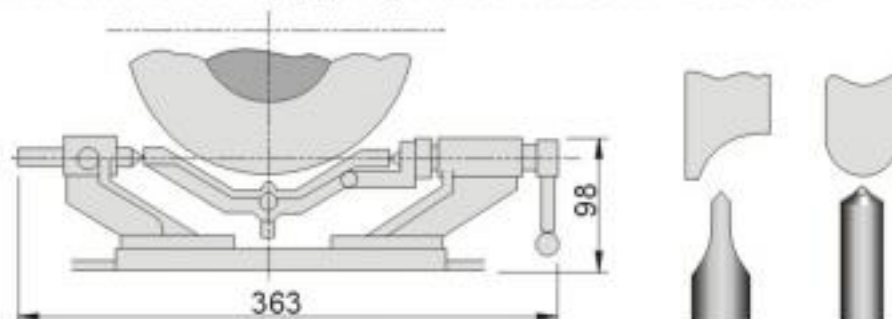
Precision Concave Convex Forming Dresser



N.W. 2.6kg

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 $\varnothing 205\text{mm}$



52440

RD30A

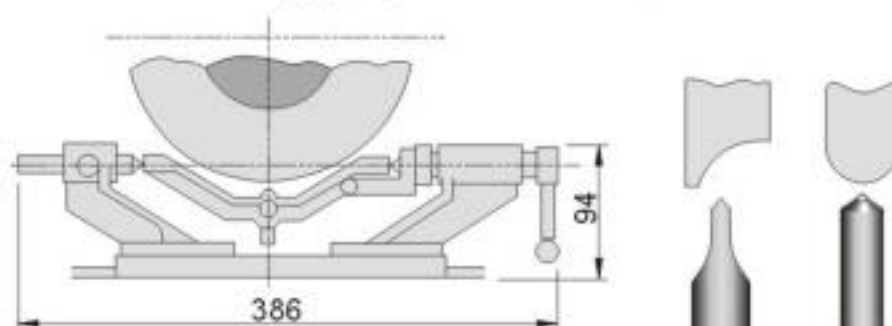
Precision Concave Convex Forming Dresser



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.
- ▶ Suitable for applying wheel under $\varnothing 205\text{mm}$



52450

RD40

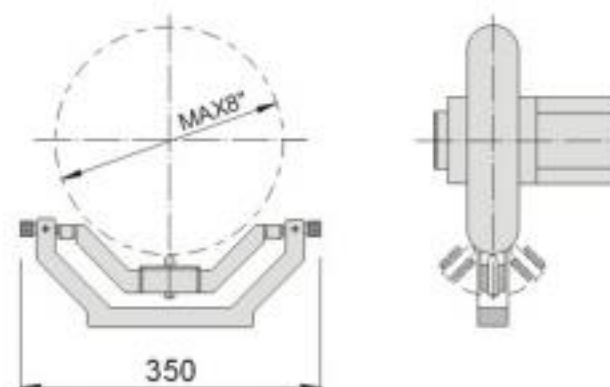
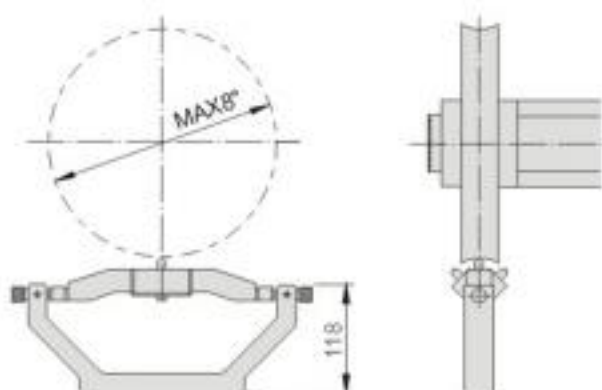
Concave Convex Forming Dresser



N.W. 6.2kg

Features :

- ▶ This medium type dresser is applied to surface grinders for convex and concave dressing.
- ▶ Suitable for wheels under 8" ($\varnothing 205\text{mm}$).
- ▶ Work range : Convex R0.5-40mm
- ▶ Concave R0.5-90mm
- ▶ Diamond pin is optional



Grinding Machine Accessories

52554

F250

F250 Flange

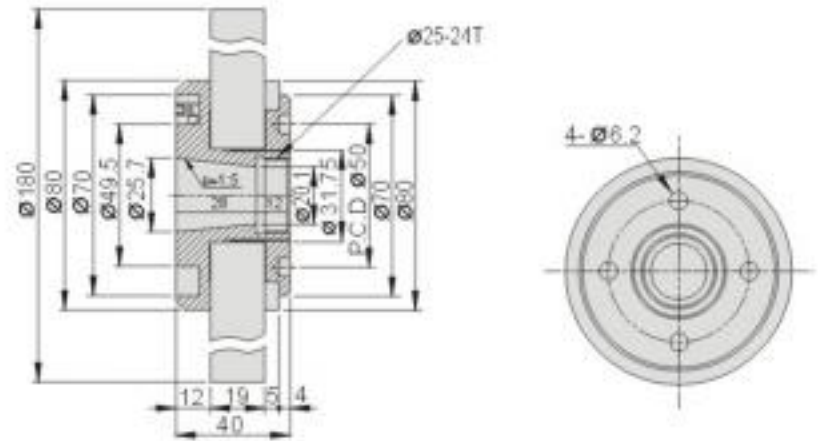
GRINDING MACHINE
ACCESSORIES



N.W. 0.7kg

Features :

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



52556

F350

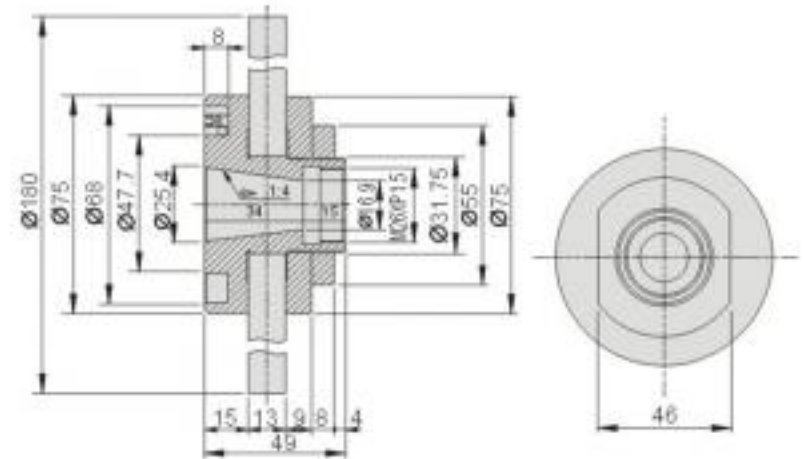
F350 Flange



N.W. 0.9kg

Features :

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



52558

F450

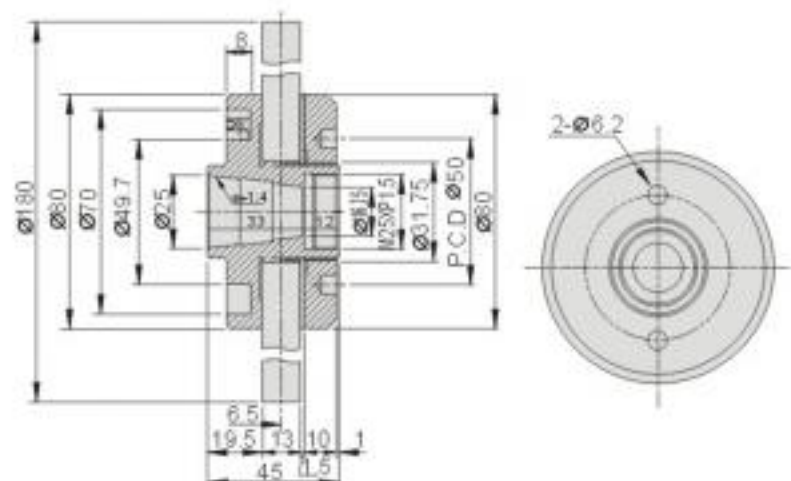
F450 Flange



N.W. 0.9kg

Features :

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

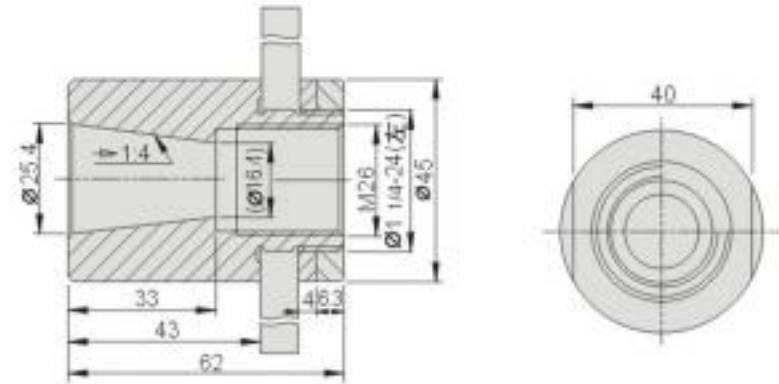


52560
F300
F300 Flange


N.W. 0.6kg

Features :

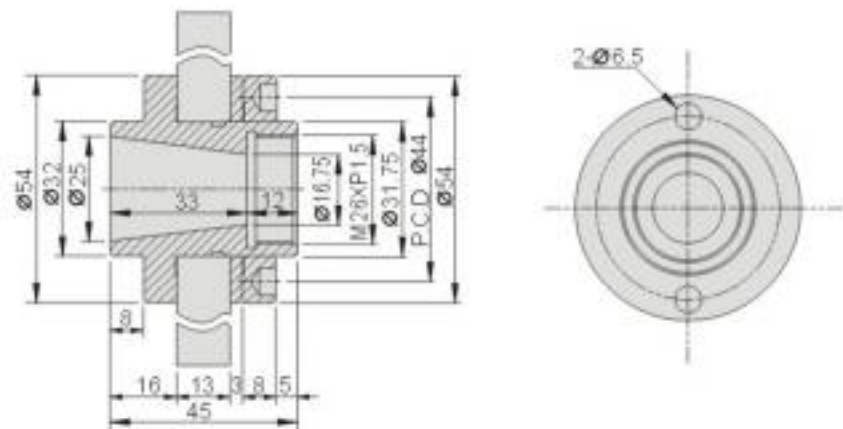
- ▶ F300 is applied to 614, 618 surface grinding machine.


52562
F320
F320 Flange


N.W. 0.4kg

Features :

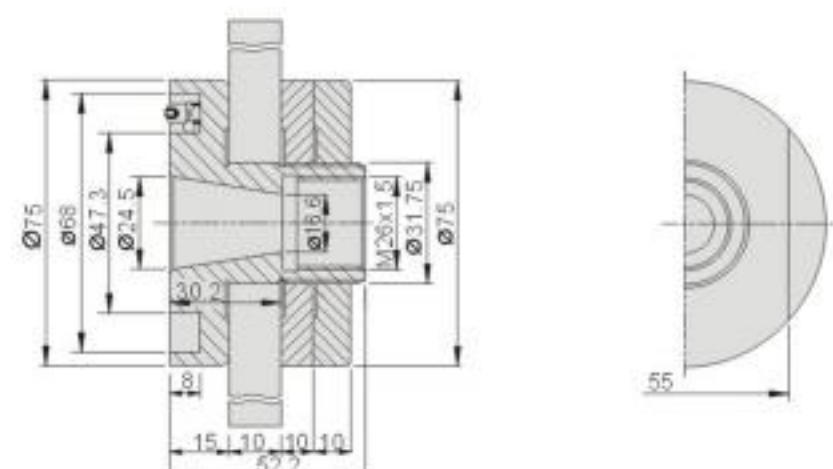
- ▶ F320 is used for cylinder of Tool Grinder.


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

52566

W20

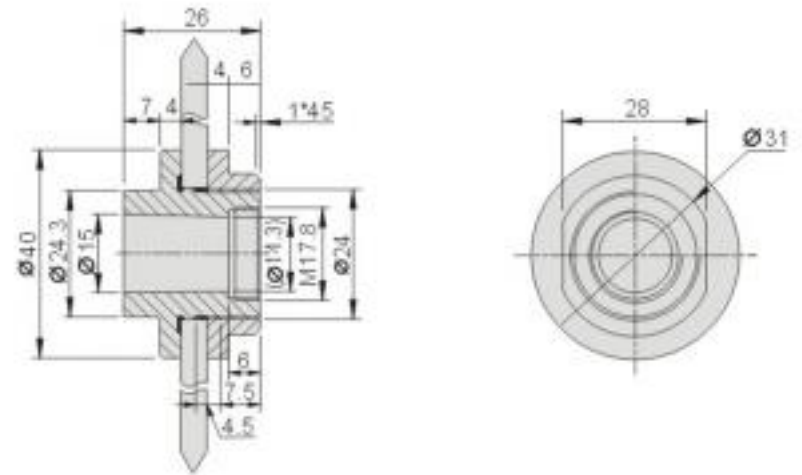
W20 Flange



N.W. 0.1kg

Features :

- W20 is used in WAIDA Optical Profile Grinder.



52568

W40

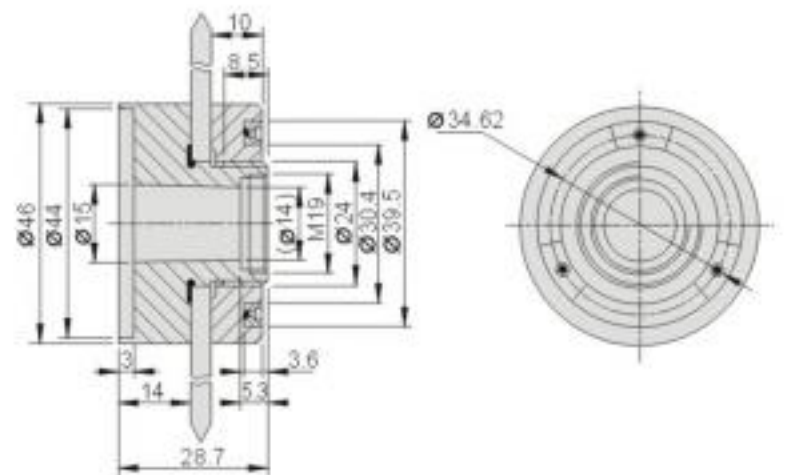
W40 Flange



N.W. 0.2kg

Features :

- W40 is used in WAIDA Optical Profile Grinder.



52570

P60

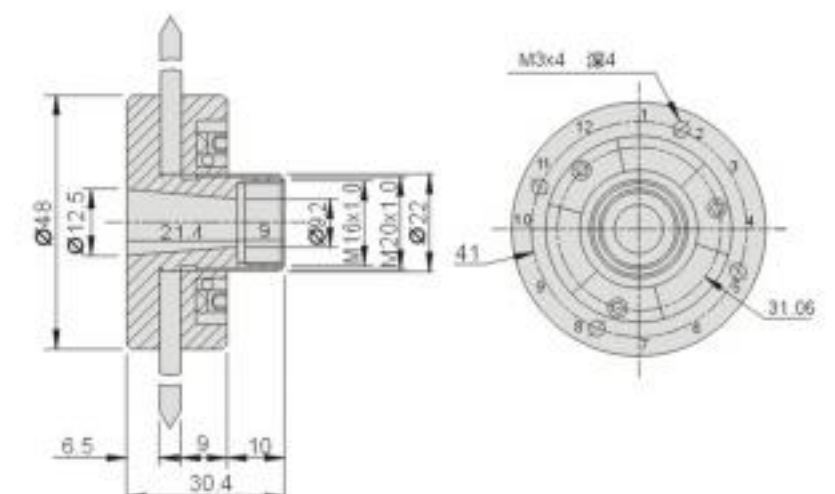
P60 Flange



N.W. 0.2kg

Features :

- P60 is used in Petewe Optical Profile Grinder.



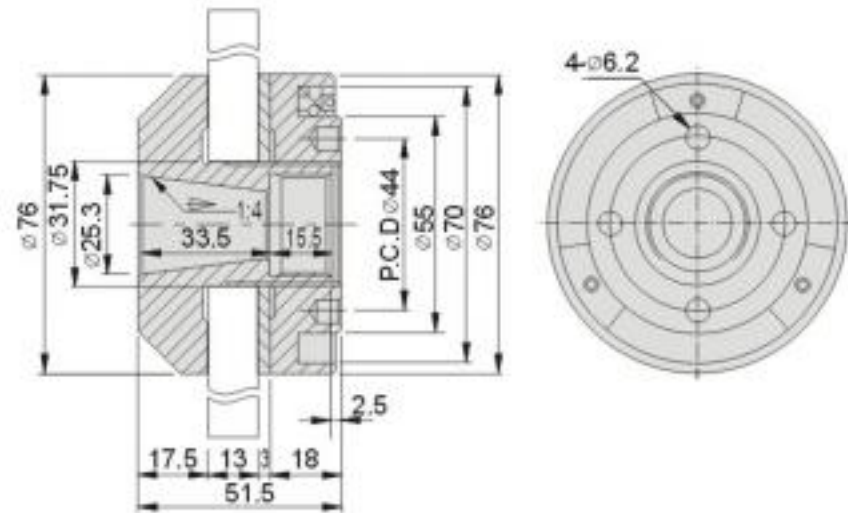
52572 FC110 FC110 Flange



N.W. 1.1kg

Features :

- ▶ Suitable for applying on WASINO Grinders.



GRINDING MACHINE ACCESSORIES

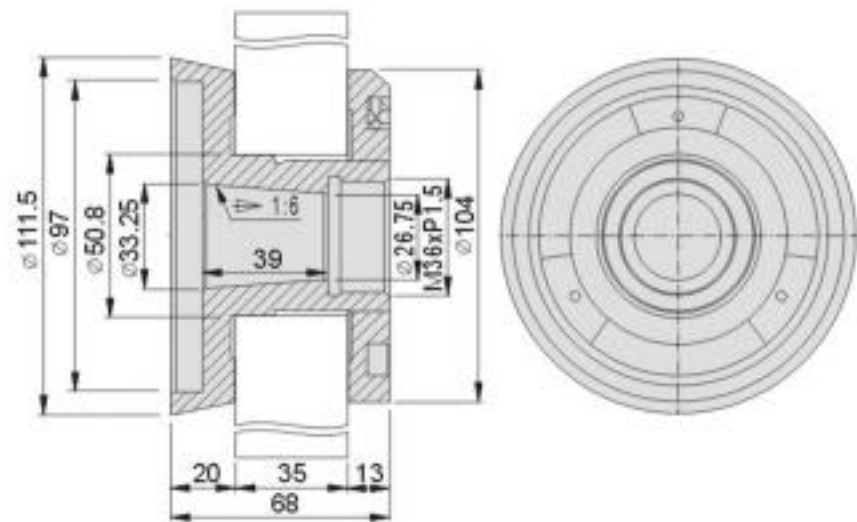
52574 FC520 FC520 Flange



N.W. 1.95kg

Features :

- ▶ Suitable for OKAMOTO ACC-52DX Grinders.



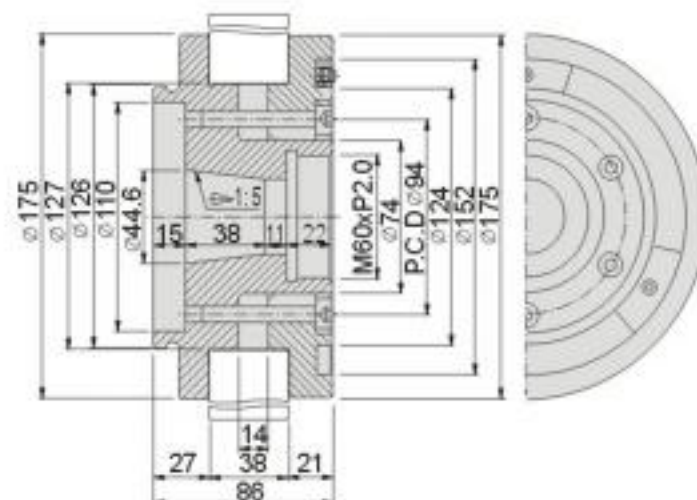
52576 FC630 FC630 Flange



N.W. 8.0kg

Features :

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



Grinding Machine Accessories

52578

FEB10

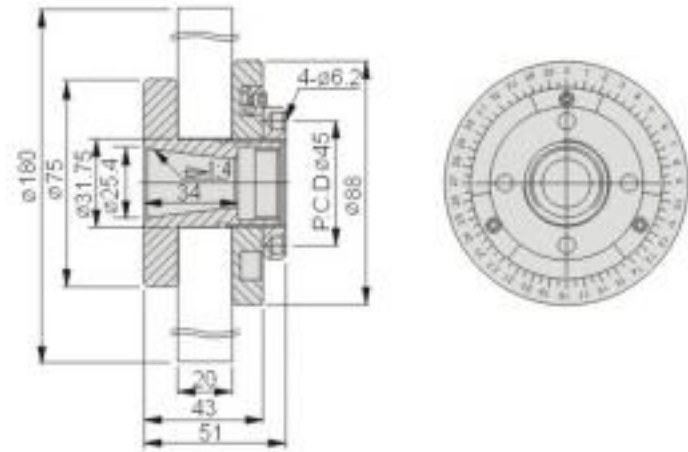
FEB10 Flange



N.W. 1kg

Features :

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



52580

FEB15

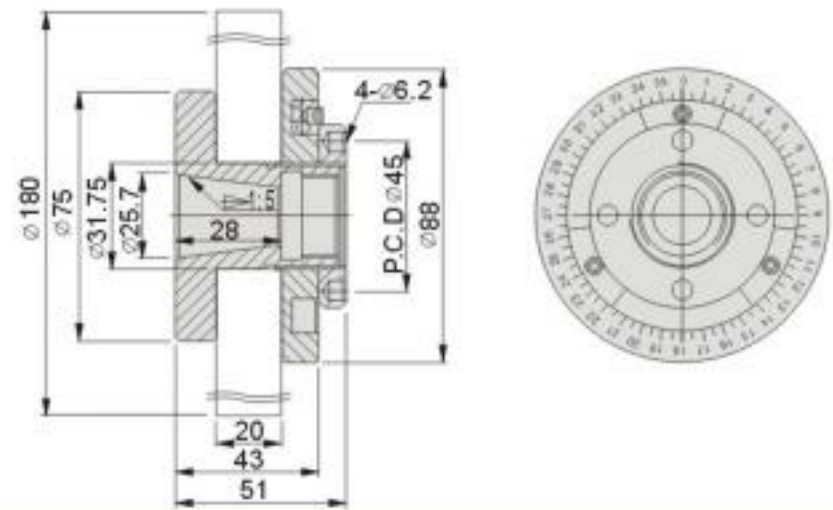
FEB15 Flange



N.W. 1kg

Features :

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



52582

FEB18

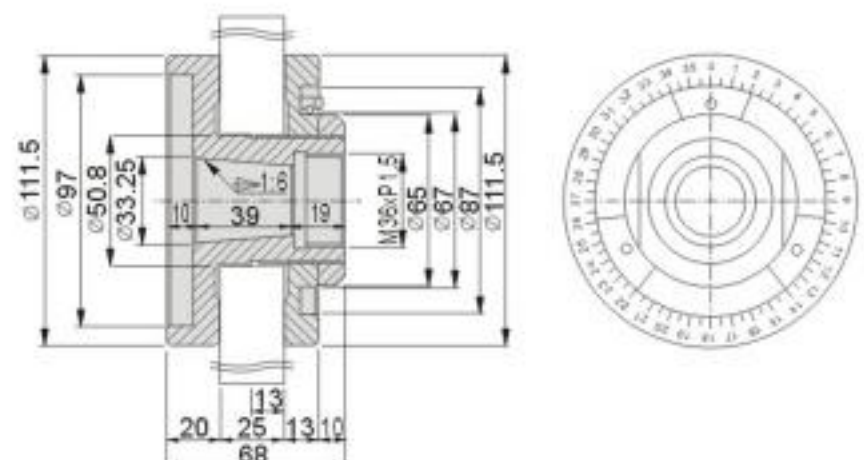
FEB18 Flange



N.W. 2.2kg

Features :

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

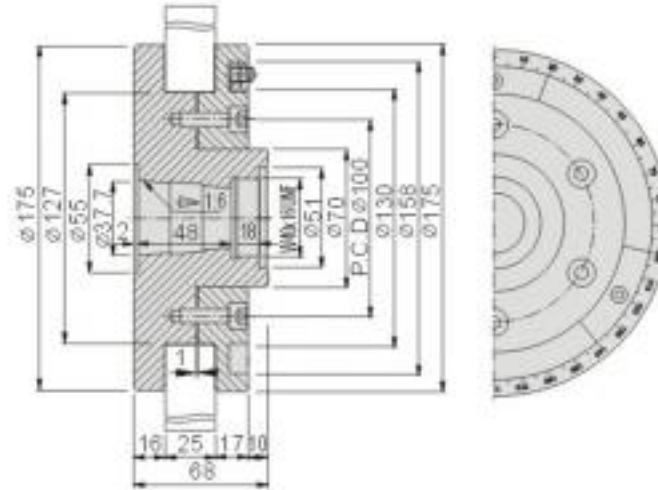


52584
FEB20
FEB20 Flange


N.W. 8kg

Features :

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

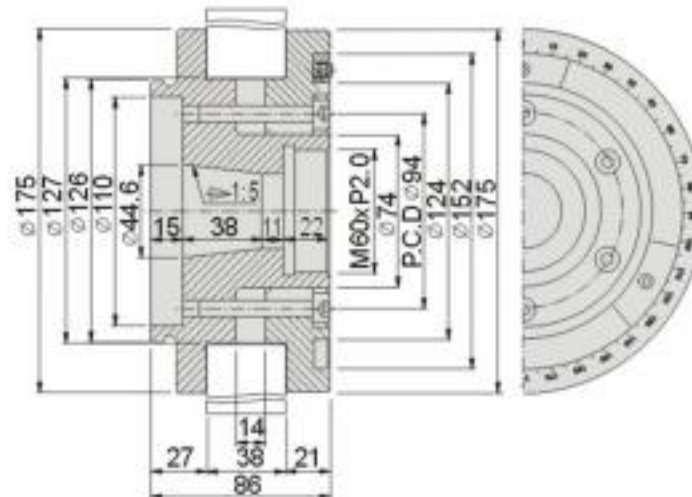

 GRINDING MACHINE
ACCESSORIES

52586
FEB22
FEB22 Flange


N.W. 8kg

Features :

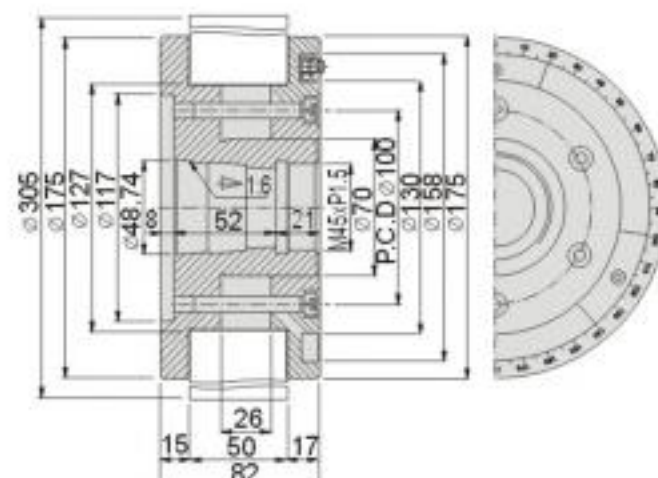
- ▶ Laser mark graduation reading on plates
- ▶ Suitable for OKAMOTO ACC-63DX, TATUNG PSG-64 Grinders.


52588
FEB25
FEB25 Flange


N.W. 2.2kg

Features :

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



Grinding Machine Accessories

52590

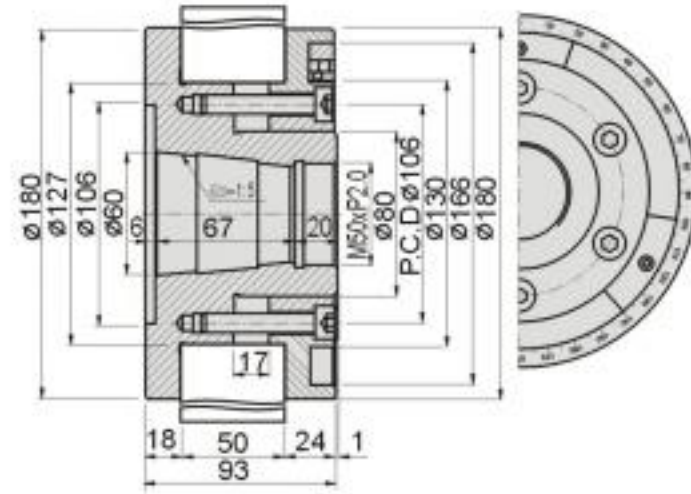
FEB30

FEB30 Flange



Features :

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



52592

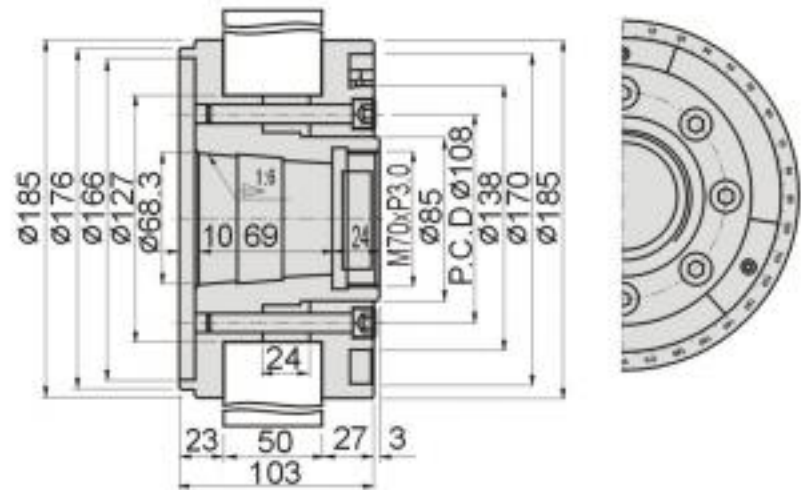
FEB35

FEB35 Flange



Features :

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



52594

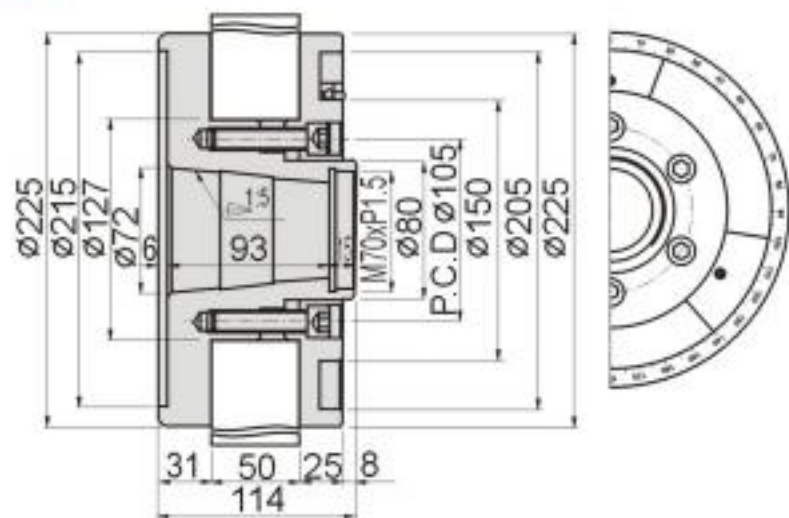
FEB40

FEB40 Flange



Features :

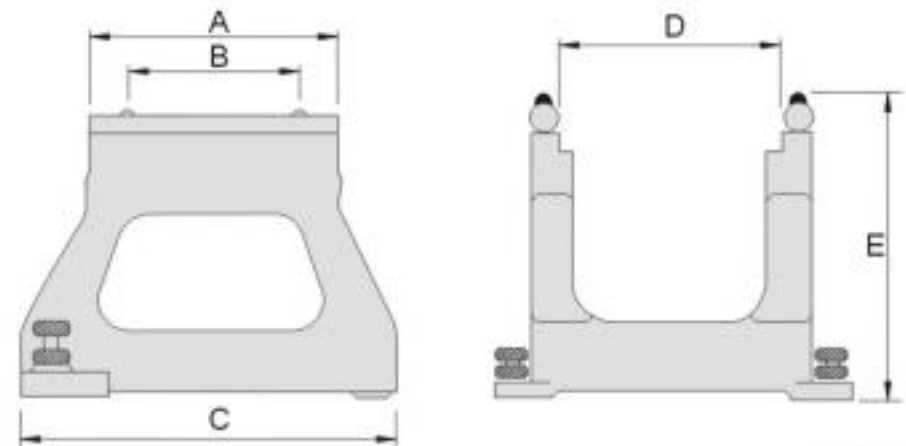
- ▶ Laser mark graduation reading on plates
- ▶ Suitable for large OKAMOTO Grinders.



52596
LBS08/14
Level Balancing Stand

Features :

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



Unit:mm

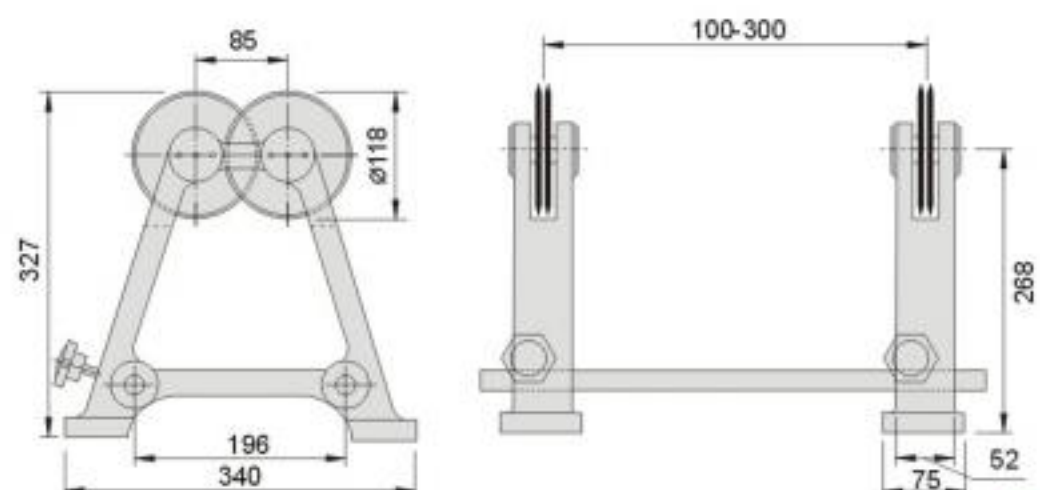
| Order No. | Model | Max. Applicable Dia | A | B | C | D | E | N.W. |
|-----------|-------|---------------------|-----|-----|-----|-----|-----|-------|
| 52596-08 | LBS08 | 205 | 155 | 130 | 226 | 115 | 185 | 4kg |
| 52596-14 | LBS14 | 355 | 180 | 160 | 260 | 125 | 235 | 4.6kg |

52598
WBS300
Wheel Balancing Stand


N.W. 14kg

Features :

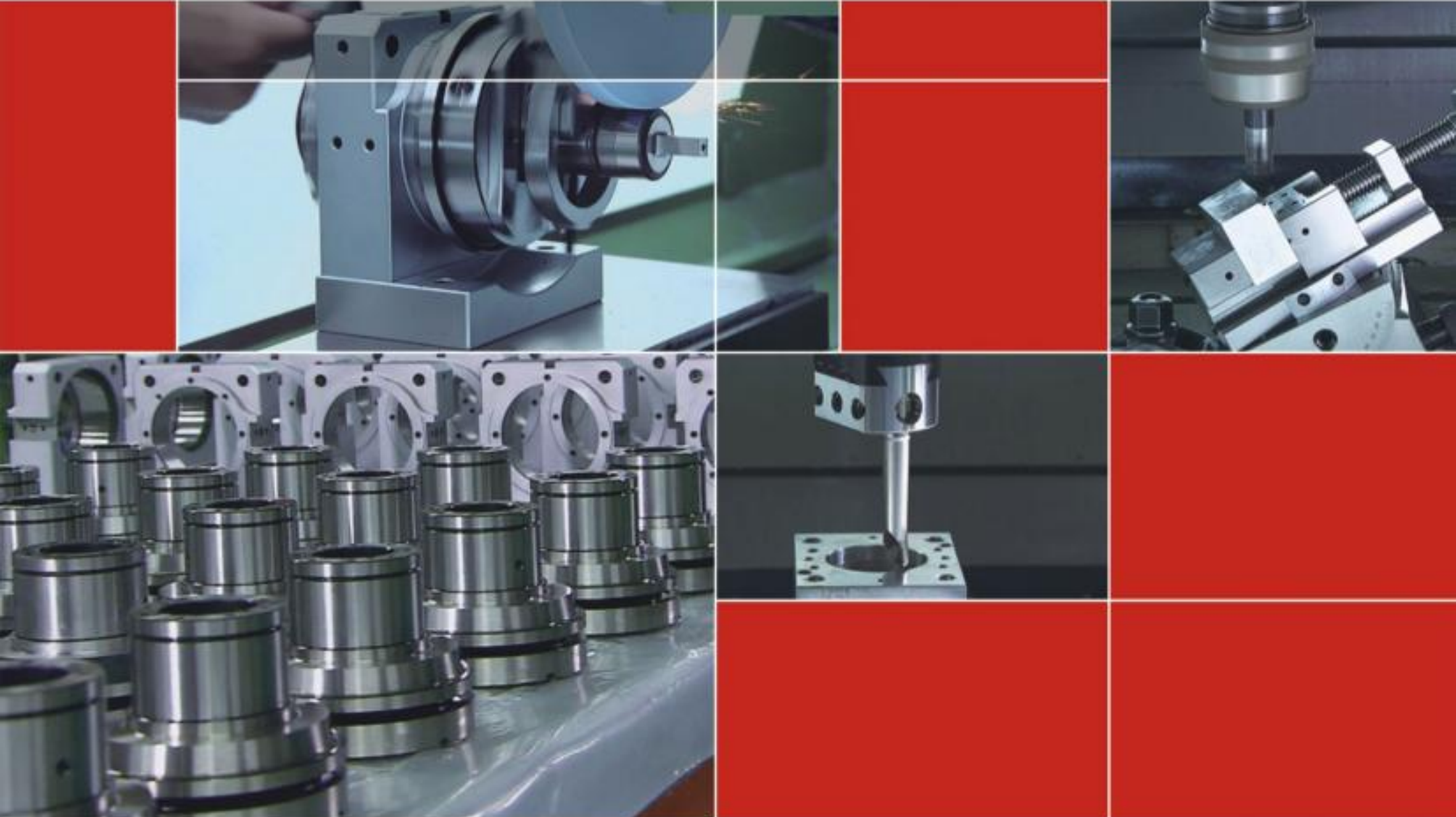
- ▶ Better cost effectiveness and extend grinding wheel life.
- ▶ Portable and adjustable with friendly operation.
- ▶ Adopting super-sensitive bearings.
- ▶ Made of aluminum alloy with lightweight design.
- ▶ 4 precisely ground and polished revolving discs hardened HRC56°~58°
- ▶ Max. range of the two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



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



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