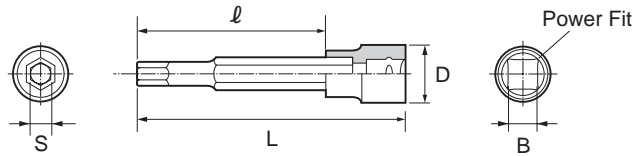


**RELATED EQUIPMENT  
SERIES**

# BT / QL-MH

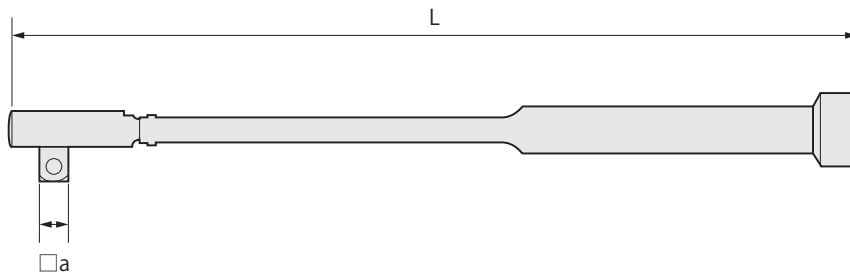
Hex. Bit Socket / Torque Wrench

## Hex. Bit Socket



Code	Model	S	D	L	l	B	Chuck model	Chuck size		Tightening torque (Nm)	Torque wrench
								mm	inch		
8912 00353000	<b>BT2-04</b>	4	16	54.5	32	6.3sq.	PHC-A	06-08	0250-0312	11 ~ 12	QL15N-ML
							PHC-A	09-20	0375-0750	7 ~ 8	
							PHC-S	06-12, 16	0250-0500	9 ~ 10	
							PHZ-S	06-12	—		
8912 00354000	<b>BT3-06</b>	6	17	66	37	9.5sq.	PHC-A	25, 32	1000, 1250	29 ~ 30	QL50N-ML
							PHC-S	20-25	—	23 ~ 24	

## Torque wrench



Code	Model	Torque range	□ a	L	Hex. Bit Socket
8912 00351000	<b>QL15N-ML</b>	3~15Nm	6.3	195	BT2-04
8912 00352000	<b>QL50N-ML</b>	10~50Nm	9.5	260	BT3-06

BT  
CAT  
AHO  
HSK-A/E/F/C  
HSK-T  
UTS  
Specialized Machine

Related Equipment  
Bush & Chamfering Drill

Spanner Head Torque Wrench

Shrink Fit System

Digital measuring equipment reference position

Tool Presetter

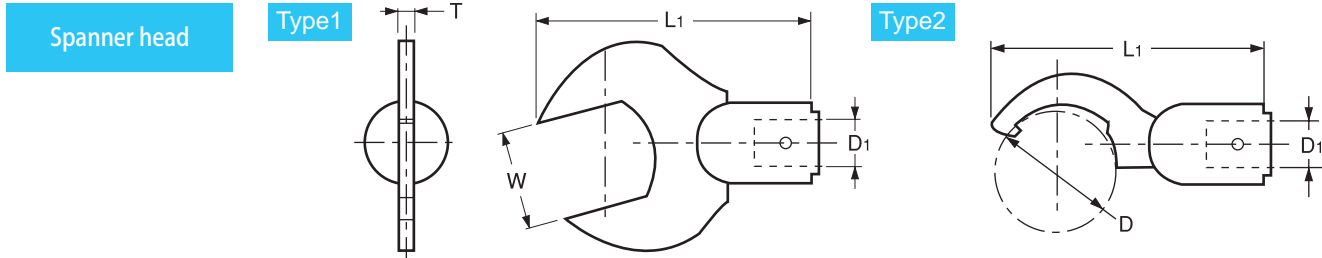
HSK Clamper

"R" Zero Setter

Simple Setter

# SH / CL

## Spanner Head / Torque Wrench



### HDC-A, SDM, GDC-A, HDZ, GDZ

Code	Model	Type	W	T <sup>+0.4 -0.2</sup>	D	D1	L1	Nut	Spanner	Tightening torque (Nm)	Torque wrench
3150 00000115	SH -1A-15	1	24	4.5	—	15	78	HDP-09,KDP-1916	S-1L	30 ~ 35	CL50N × 15D
3150 00000315	SH -3A-15	1	30	4.5	—	15	83	HDP-12,KDP-2422	S-3L	35 ~ 40	CL100N × 15D
3150 00000415	SH -4A-15	1	33	4.5	—	15	84	HDP-16,KDP-2825	S-4L	40 ~ 45	CL100N × 15D
3150 00000515	SH -5A-15	1	42	5.5	—	15	89	HDP-22,KDP-3632	S-5L	55 ~ 60	CL100N × 15D
3150 00002310	SH -23-10	2	—	—	23	10	60	HDP-07A	S-0	10 ~ 15	CL25N × 10D
3150 00002515	SH -25-15	2	—	—	29	15	77	GDP-09	FK-0025	30 ~ 35	CL50N × 15D
3150 00003415	SH -34-15	2	—	—	38	15	82	GDP-12	FK-0034	35 ~ 40	CL100N × 15D
								GDP-16	FK-0034	40 ~ 45	
								GDP-22	FK-0045	55 ~ 60	
3150 00004515	SH -45-15	2	—	—	49	15	86	GDP-22	FK-0045	55 ~ 60	CL100N × 15D
3150 00000619	SH -6A-19	2	—	—	66	19	118	HDP-32	S-6	80 ~ 90	CL200N × 19D

### ERC, ERC-T, ERZ

Code	Model	Type	W	D	D1	L1	Nut	Spanner	Tightening torque (Nm)	Torque wrench
—	— *	1	11	—	—	—	ERP-8	S-8E	5 ~ 7	—
—	— *	1	14	—	—	—	ERP-11S	S-11E	15 ~ 20	—
3150 00002310	SH -23-10	2	—	23	10	60	ERP-11	S-0	10 ~ 15	CL25N × 10D
3150 00003415	SH -34-15	2	—	32	15	82	ERP-16	FK-0034	35 ~ 40	CL100N × 15D
				35			40 ~ 45			
				—			—			
—	— *	2	—	42	—	—	ERP-25	HS-1-16	55 ~ 66	—
—	— *	2	—	50	—	—	ERP-32	HS-2-20	65 ~ 70	—
—	— *	2	—	63	—	—	ERP-40	HS2.5-25	75 ~ 80	—
—	— *	2	—	78	—	—	ERP-50	HS4-42	130 ~ 140	—

\* Please contact NT USA for spanner head other than listed above.

Torque wrench					
Code	Model	Torque range	D2	L2	Spanner head
3154 00010000	CL 25N × 10D	5 ~ 25Nm	10	189	SH-23-10
3154 00020000	CL 50N × 15D	10 ~ 50Nm	15	219	SH-1A-15, SH-25-15
3154 00030000	CL 100N × 15D	20 ~ 100Nm	15	294	SH-3A-15, SH-4A-15, SH-5A-15, SH-30-15, SH-34-15, SH-45-15
3154 00040000	CL 200N × 19D	40 ~ 200Nm	19	435	SH-6A-19

Please use spanner head with correct torque in accordance with manual.

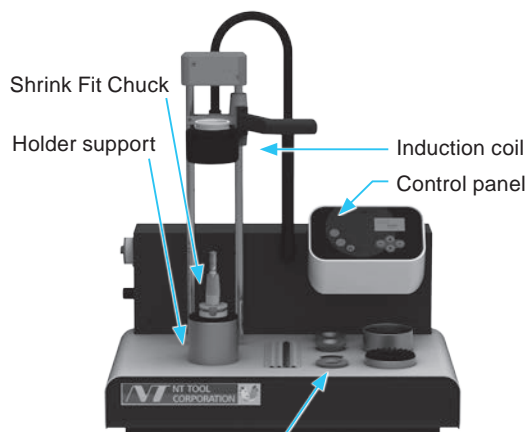
# ISG3400 New

Magnetic Induction Heating Device

## Heating Device

- Quick cutting tool change by induction heating.
- Both carbide and high-speed steel cutting tools can be used.

SAP No.		5046884	
Model		ISG3400 TLK-WS	
Coil		Quick Change	
Chucking Range	SC	ø3mm ~ ø32mm ø1/8" ~ ø1-1/4"	Up to ø50 by replacing the coil.
	HSS	ø6mm ~ ø32mm ø1/4" ~ ø1-1/4"	
Heating Method		Induction Heating	
Heating Range (Height)		350mm 13.77"	
Output		11kw	
Power Supply		3x480V-16A	
Dimensions D x W x H		780mm x 535mm x 950mm 31" x 22" x 38"	
Weight		45kg 100 lbs	



Shrink fit chuck / Pole disc storage area

## Included Accessories

Induction coil	SAP No.	Model	Specifications
	6726141	<b>ISGS3200-1</b>	1. For the chucks whose O.D. is 53.0mm and less. (SRD32 can be heated. SRK32 cannot be heated.) Special induction coil is needed for SRK32A and SRE [ L1 ≤ 60mm ( 2.362" ) ]. Please contact NT TOOL for details. 2. By exchanging a changing disk, it can be used in the edged tool size of ø 3 ~ 32mm.
Pole Disc One-Piece	SAP No.	Model	Size (Tool shank diameter)
	6726157	<b>ISGS3201-0</b>	ø 3 ~ 5.9mm
	6726143	<b>ISGS3201-1</b>	ø 6 ~ 12mm
	6726144	<b>ISGS3201-2</b>	ø 12.1 ~ 22mm
	6726145	<b>ISGS3201-3</b>	ø 22.1 ~ 32mm
For optimal shielding of the magnetic field between coil and tool shank.			
Clamping Ring	SAP No.	Model	Specifications
	6950431	<b>ISGS309</b>	For secure holding of the pole disc inside the coil.
Protective Gloves	SAP No.	Model	Specifications
	6947666	<b>VA662-10</b>	For protection against possible burns and cutting injuries.

Digital measuring equipment  
reference position

Tool Presetter

HSK Clamper

"R" Zero Setter

Simple Setter

Spanner Head  
Torque Wrench

Shrink Fit System

Specialized Machine

BT  
CAT  
AHO  
HSK-A/E/F/C  
HSK-T  
UTS

Related Equipment  
Bush & Chamfering Drill

## Heating Device Options (sold separately)

### Induction coil

Special induction coil is needed for SRK32A and SRE [ L1 ≤ 60mm ( 2.362" ) ]. Please contact NT TOOL for details.

### Pole Disc Two-Piece



SAP No.	Model	Size (Tool shank diameter)	
9074540	<b>ISGS3201GT-0</b>	ø 3 ~ 5.9mm	For use when the cutting diameter is bigger than the shrinking diameter.
9074541	<b>ISGS3201GT-1</b>	ø 6 ~ 12mm	
9074542	<b>ISGS3201GT-2</b>	ø 12.1 ~ 20mm	
9074543	<b>ISGS3201GT-3</b>	ø 20.1 ~ 32mm	

### Holder support Air Cooled



SAP No.	Model, shank size
6725939	T3-W/HSK32
6725940	T3-W/HSK40
6725941	T3-W/HSK50 (Capable for UTS5040 use.)
6725942	T3-W/HSK63 (Capable for UTS6350 use.)
6725943	T3-W/HSK80 (Capable for UTS10080 use.)
6725938	T3-W/HSK100
6725958	T3-W/SK30, CAT, BT
6725944	T3-W/SK40, CAT, BT
6725945	T3-W/SK50, CAT, BT
6725933	T3-W/25, ABS25
6725934	T3-W/32, ABS32, CAPTO C3
6725935	T3-W/40, ABS40, CAPTO C4
6725936	T3-W/50, ABS50, CAPTO C5
6725937	T3-W/63, ABS63, CAPTO C6
6726048	T3-W/SCA1
6726050	T3-W/SCA2
6725948	T3-W/WE1
6725949	T3-W/WE2

1. For holding and correct positioning of the shrink chuck on the shrink unit.
2. Other than listed above, Please contact NT TOOL for details.

### Cooling Plate



SAP No.	Model	
6726004	<b>T3-Z/WZ</b>	For depositing of shrunk out tools.

## FKS Liquid Cooler (Sold Separately)



SAP No.	5050874
Model	FKS3400
Dimension WxLxH (mm)	W424 x L516 x H700
Air Pressure	4 bar/58 psi

1. The liquid cooler is a separate unit for cooling chucks which have been heated up during the shrinking process. With the start-button the cycle cooling and drying runs automatically.
2. Please always use zetasol120/5 coolant.  
(1ℓ of of Zetasol Emulsion liquid concentrate which needs to be diluted to 1:4 ratio is included.)

## Liquid Cooler Options (sold separately)

### FKS3400 Tool Holders



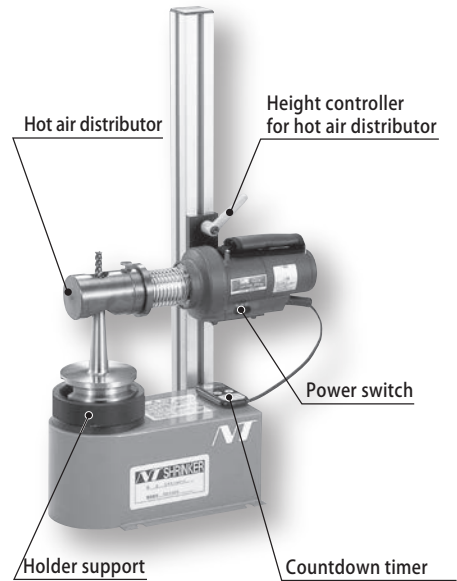
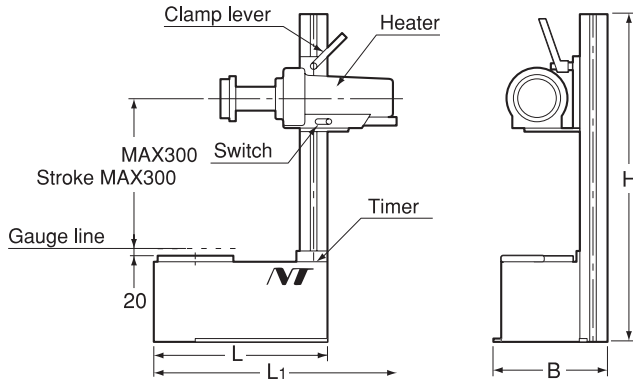
SAP No.	Model	shank size
6773725	<b>FKS03-HSK25/32</b>	HSK-25 / 32
6773726	<b>FKS03-HSK40/50</b>	HSK-40 /50 / F63 / UTS5040
6773728	<b>FKS03-SK30/40</b>	SK 30 / 40, CAT 30 / 40, BT 30 / 40

1. For holding and correct positioning of the shrink chuck on the liquid cooler.
2. Other than listed above, Please contact NT TOOL for details.

# MEMO

# SRK-HA1 , SRK-HB2

Economy Type Heater



Code	Model	L	B	H	L1	Voltage	Watt	Anpere	kg
3064 00000111	<b>SRK- HA1</b>	275	190	660	380	100V (Single phase)	1200W	12A	7.5
3064 00000121	<b>SRK- HB2-200</b>	275	190	660	416	200V (Single phase)	3000W	6A	7.5
3064 00000124	<b>SRK- HB2-220</b>	275	190	660	416	220V (Single phase)	3000W	6A	7.5
3064 00000125	<b>SRK- HB2-230</b>	275	190	660	416	230V (Single phase)	3000W	6A	7.5

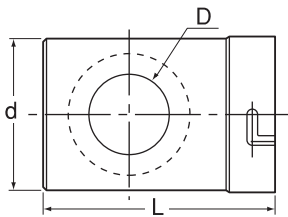
● Accessories

Power cord (3m), countdown timer and a pair of heat- resistant gloves are included. (Hot air distributor and holder support are sold separately.)

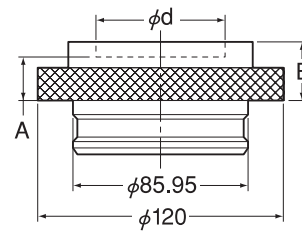
⚠ Not applicable for SR ※ 6A, SR ※ 8A and SRE.

### Accessories

#### Hot air distributor (Heating head)



#### Holder support



Model	Chuck type	Tool Shank Dia.	D	d	L
<b>SRK-HA -HE15S</b>	Slimtype (SRS)	$\phi$ 3 ~ 10	16	43	77
<b>SRK-HA -HE27S</b>	Slimtype (SRS)	$\phi$ 12 ~ 20	29	61	87
<b>SRK-HA -HE15</b>	Heavytype, DINstandard (SRK,SRD)	Heavy type $\phi$ 3 ~ 5	15	43	85
<b>SRK-HA -HE26</b>	Heavytype, DINstandard (SRK,SRD)	Heavy type $\phi$ 6~10 DIN standard $\phi$ 3~12	27	43	85
<b>SRK-HA -HE32</b>	Heavytype, DINstandard (SRK,SRD)	Heavy type $\phi$ 12~20 DIN standard $\phi$ 14~20	39	61	93
<b>SRK-HA -HE40</b>	Heavytype, DINstandard (SRK,SRD)	$\phi$ 25 ~ 32	59	79	122

Model	d	A	B
<b>SRK-SP -HSK 25</b>	25.3	20	27
<b>SRK-SP -HSK 32</b>	32.3	20	27
<b>SRK-SP -HSK 40</b>	40.3	20	27
<b>SRK-SP -BT30</b>	46.3	20	27
<b>SRK-SP -HSK 50</b>	50.3	20	27
<b>SRK-SP -HSK 63/BT40</b>	63.8	20	27
<b>SRK-SP -HSK 80</b>	80.3	20	27
<b>SRK-SP -HSK100/BT50</b>	100.3	20	30

BT  
CAT  
AHO  
HSK-A/E/F/C  
HSK-T  
UTS  
Specialized Machine

Related Equipment  
Bush & Chamfering Drill

Spanner Head  
Torque Wrench  
Sfrink Fit System

Digital measuring equipment  
reference position

Tool Presetter

HSK Clamper

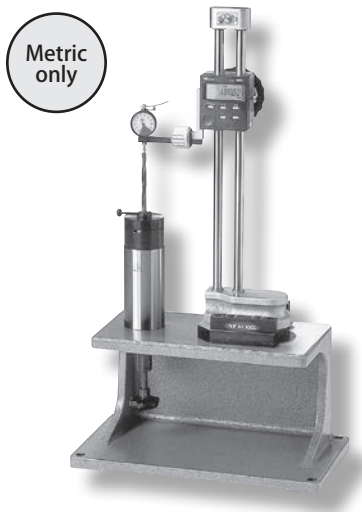
"R" Zero Setter

Simple Setter

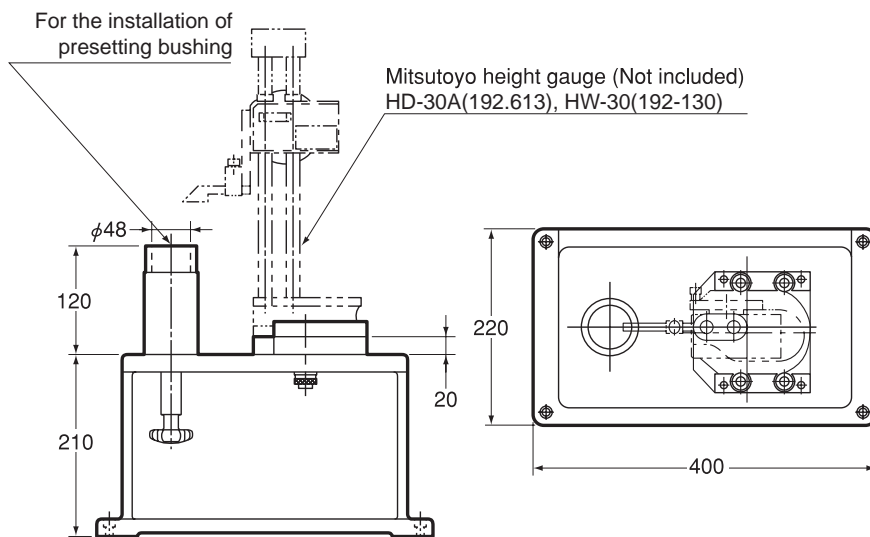


# SPN2-SRK-PS1

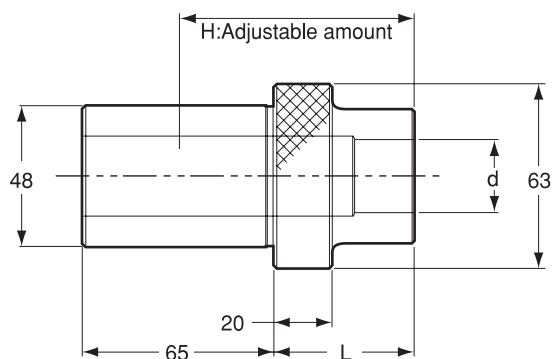
Presetting gauge



Metric measurement only.

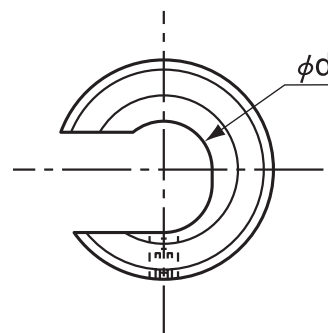


## Presetting bushing



Model	d	L	H
SPN2 -SRK3-B1	3	10	10 ~ 55
SPN2 -SRK4-B1	4	12	12 ~ 57
SPN2 -SRK5-B1	5	15	15 ~ 60
SPN2 -SRK6-B1	6	26	26 ~ 71
SPN2 -SRK8-B1	8	26	26 ~ 71
SPN2 -SRK10-B1	10	32	32 ~ 77
SPN2 -SRK12-B1	12	37	37 ~ 82
SPN2 -SRK14-B1	14	37	37 ~ 82
SPN2 -SRK16-B1	16	40	40 ~ 85
SPN2 -SRK18-B1	18	40	40 ~ 85
SPN2 -SRK20-B1	20	42	42 ~ 87
SPN2 -SRK20-B2	20	55	55 ~ 100
SPN2 -SRK25-B1	25	48	48 ~ 93
SPN2 -SRK25-B2	25	65	65 ~ 110
SPN2 -SRK32-B1	32	51	51 ~ 96
SPN2 -SRK32-B2	32	75	75 ~ 120

## Presetting ring



Model	$\phi d$
SPN2-SRK-PR- $\phi d$	3,4,5,6,8,10,12,14,16,18,20,25,32

Choose both presetting bushing and presetting ring according to shank dia.

# ZM-1 / ZM-2

Zero Master / 3D Master ( Digital Measuring Equipment Of Reference Position )

- BT
- CAT
- AHO
- HSK-A/E/F/C
- HSK-T
- UTS
- Specialized Machine
- Related Equipment
- Bush & Chamfering Drill
- Spanner Head Torque Wrench
- Shrink Fit System



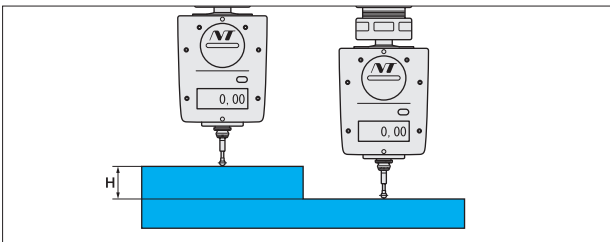
Name	ZERO MASTER		3D MASTER	
Model	<b>ZM-1</b>		<b>ZM-2</b>	
Probe	With Short probe	( With Long probe )	With Short probe	( With Long probe )
Code	3900 10000001		3900 10000002	
L	102mm	143mm	113mm	153mm
Ls	24.8mm		50mm	
B	52mm		65mm	
φD	12mm		20mm	
φd	4mm	8mm	4mm	8mm
Measurement accuracy	Radial direction	±0.01mm	±0.02mm	±0.001mm
	Axial direction	±0.01mm	±0.01mm	±0.001mm
T:Usable dimension of probe	About 25mm	About 65mm	About 25mm	About 65mm
Weight	250g		660g	
Battery	CR2032		CR2032	

Long probe is sold separately.  
Metric measurement only.

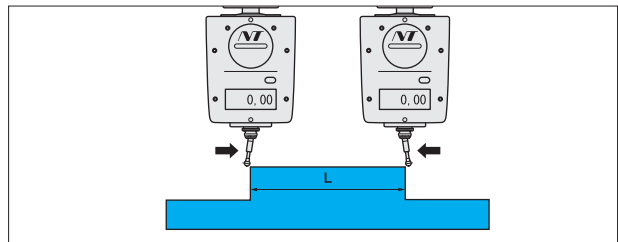
Digital measuring equipment of reference position

## Application

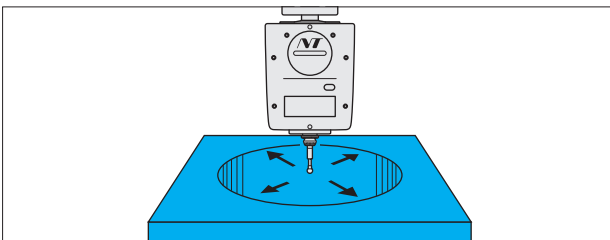
Height measurement



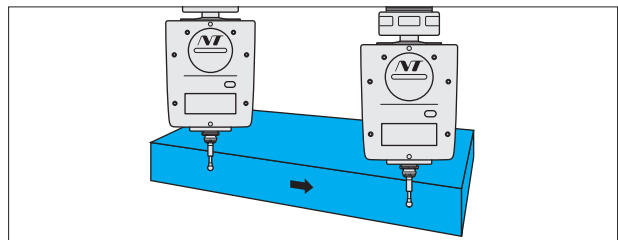
Width measurement



Hole and spindle center measurement , Diameter measurement



Parallelism measurement



Tool Presetter

HSK Clamper

"R" Zero Setter

Simple Setter

## Accessories

Model	Code	Specification
<b>ZM-P25</b>	3900 20000025	Short probe(25mm)
<b>ZM-P65</b>	3900 20000065	Long probe(65mm)

## Ordering Example

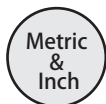
ZERO MASTER with short probe 25 mm  
**ZM-1**



# OTP400 , OTP600

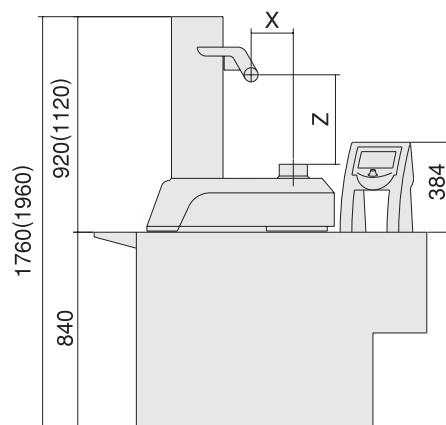
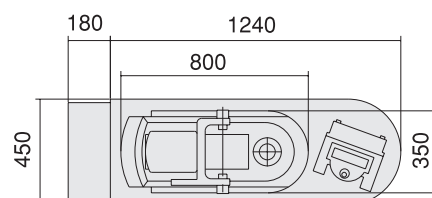
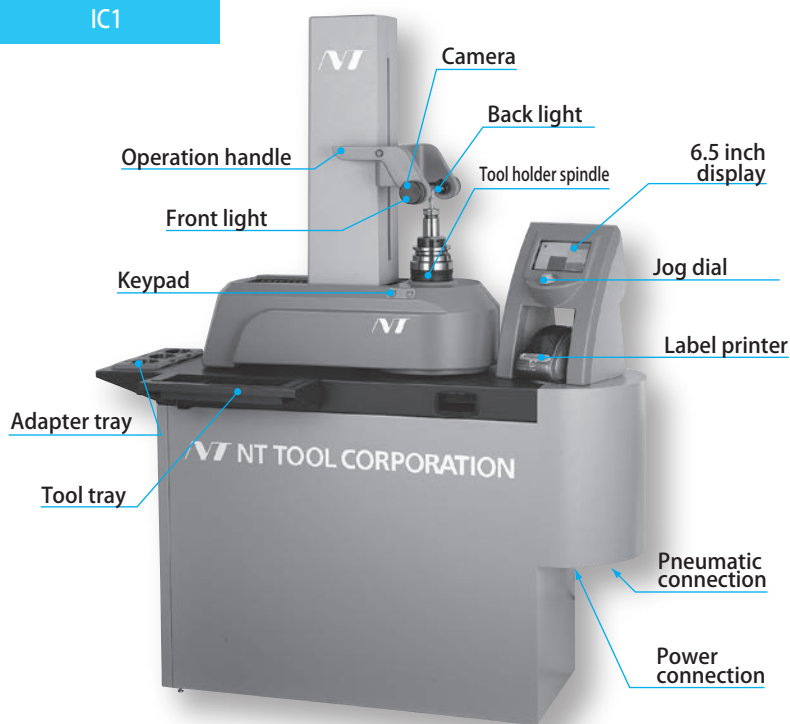
Contactless Tool Presetter

## Feature



- Protect cutting edge by contactless measuring.
- Various cutting edge shapes can be measured.

## IC1



Specifications	OTP400-IC1	OTP600-IC1
External dimensions	1420 × 450 × 1760 (D × W × H)	1420 × 450 × 1960 (D × W × H)
Weight	110kg	115kg
Power supply	85 ~ 265V AC, 50/60Hz	
Power consumption	100VA and below	
Air pressure	0.4 ~ 0.6MPa	
Measurement	X-axis : $\phi 0 \sim 400\text{mm}$ Z-axis : $0 \sim 400\text{mm}$	X-axis : $\phi 0 \sim 400\text{mm}$ Z-axis : $0 \sim 600\text{mm}$
Min. readable unit	X-axis: $\phi 0.001\text{mm}$ Z-axis: $0.001\text{mm}$	
Spindle size	Please use an adapter when using a holder other than NT50.	
Clamp method	Vacuum clamp	
Specifications of camera	488 × 468pixel	
Screen magnification ratio	12-fold	
Display size	6.5"	
Cutting edge measurement range	6.5mm × 6mm	
Menu manipulation method	Jog dial (knob button)	
Language selection	Japanese, English, German	
Accessories	Label printer, Label for printer, Adapter tray, Tool tray	

Switchable between Inch and Metric display.

## Ordering Example

**OTP400 - IC1**  
IC1type

BT

CAT

AHO

HSK-A/E/F/C

HSK-T

UTS

Specialized Machine

Related Equipment

Bush & Chamfering Drill

Spanner Head

Torque Wrench

Shrink Fit System

Digital measuring equipment reference position

Tool Presetter

HSK Clamper

"R" Zero Setter

Simple Setter

## Adapter for OTP

Select an adapter from the following types when using shanks other than NT50.

※ The measuring range of the Z-axis is narrowed by adapters' thickness.

### Ordering Example

## OTP-NT50-NT30

### For National taper shank



Code	Model	BT size	Loss in Z in mm * 1
4994 00500030	<b>OTP-NT50-NT30</b>	BT30	20
4994 00500040	<b>OTP-NT50-NT40</b>	BT40	20



- Built-in calibration edge.

※ Tool presetter with vacuum mechanism draws in a holder with drawing force in proportion to the area of the holder.

### For HSK shank



Code	Model	HSK size	Loss in Z in mm * 1
4994 00502032	<b>OTP-NT50-HSK32A</b>	HSK32A(C, E), HSK40F(B, D)	50
4994 00502040	<b>OTP-NT50-HSK40A</b>	HSK40A(C, E), HSK50F(B, D)	50
4994 00502050	<b>OTP-NT50-HSK50A</b>	HSK50A(C, E), HSK63F(B, D)	50
4994 00502063	<b>OTP-NT50-HSK63A</b>	HSK63A(C, E), HSK80F(B, D)	50
4994 00502080	<b>OTP-NT50-HSK80A</b>	HSK80A(C, E), HSK100F(B, D)	60
4994 00502100	<b>OTP-NT50-HSK100A</b>	HSK100A(C, E), HSK125F(B, D)	100

- Built-in calibration edge.
- Without drive key.

※ Measuring the tools without clamp function.

### For HSK shank with drawing-in mechanism



Code	Model	HSK size	Loss in Z in mm * 1
4994 00506032	<b>OTP-NT50-HSK32A-M</b>	HSK32A(C, E), HSK40F(B, D)	75
4994 00506040	<b>OTP-NT50-HSK40A-M</b>	HSK40A(C, E), HSK50F(B, D)	75
4994 00506050	<b>OTP-NT50-HSK50A-M</b>	HSK50A(C, E), HSK63F(B, D)	75
4994 00506063	<b>OTP-NT50-HSK63A-M</b>	HSK63A(C, E), HSK80F(B, D)	75
4994 00506080	<b>OTP-NT50-HSK80A-M</b>	HSK80A(C, E), HSK100F(B, D)	105
4994 00506100	<b>OTP-NT50-HSK100A-M</b>	HSK100A(C, E), HSK125F(B, D)	105

- Built-in calibration edge.
- Drawing-in mechanism for HSK shanks (Wrench-operated)
- Adapter may conveniently remain attached to the presetter spindle when clamping tools that hold cutters with/without drive key.

### For UTS shank



Code	Model	UTS size	Loss in Z in mm * 1
4994 00505040	<b>OTP-NT50-CA-KM40</b>	UTS 5040	60
4994 00505050	<b>OTP-NT50-CA-KM50</b>	UTS 6350	60
4994 00505080	<b>OTP-NT50-CA-KM80</b>	UTS 10080	60

- Drawing-in mechanism for HSK shanks (Wrench-operated)
- No calibration edge.
- Adapter may conveniently remain attached to the presetter spindle when clamping tools that hold cutters.

※ When installing a holder to an adapter, wrench operation is hard.  
Please make sure end face of the holder is contacting to the adapter.

\* 1: Z-axis meas. range reduced value (mm)

For Capto shank



Code	Model	Capto size	Loss in Z in mm * 1
—	<b>OTP-NT50-ADC3</b>	Capto C3	30
—	<b>OTP-NT50-ADC4</b>	Capto C4	30
—	<b>OTP-NT50-ADC5</b>	Capto C5	30
—	<b>OTP-NT50-ADC6</b>	Capto C6	30
—	<b>OTP-NT50-ADC8</b>	Capto C8	70

- Manual tool clamping with clamping screw.
- With axial tool clamping.
- Without calibration edges.



Code	Model	Capto size	Loss in Z in mm * 1
—	<b>OTP-NT50-ADC3-E</b>	Capto C3	130
—	<b>OTP-NT50-ADC4-E</b>	Capto C4	140
—	<b>OTP-NT50-ADC5-E</b>	Capto C5	95
—	<b>OTP-NT50-ADC6-E</b>	Capto C6	120
—	<b>OTP-NT50-ADC8-E</b>	Capto C8	140

- \*Integrated calibration edges for size C3, C4.
- Manual tool clamping about ¾ turn.
- Comfortable usage since adapter must not be taken out of spindle in order to clamp tool.

Accessory(option)



Label printer (IC1 standard acc.)

Code	Model
4994 00510005	<b>OTP-PRINT-DY</b>

Cartridge-free thermal printer for printing out measured values, annotated with tool numbers, cutter numbers, adapters applied, and other information.



Label roll

Code	Model
4994 00510006	<b>OTP-LABEL-DY</b>

260 Labels (size 89 x 36mm) per roll.

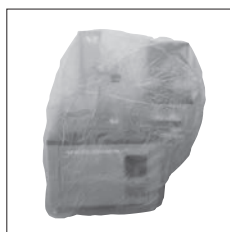


Cleaning paste

Code	Model
4994 00510008	<b>OTP-PUTTY</b>



Cleanses the cutting edge for precise measurement.



Dust cover

Code	Model
4994 00510007	<b>OTP-PROTECTION</b>

Dust cover for IC1 of OTP400/OTP600 series PVC-made, clear & colorless.

# AOTP New

Contactless Tool Presetter

- BT
- CAT
- AHO
- HSK-A/E/F/C
- HSK-T
- UTS
- Specialized Machine
- Related Equipment
- Bush & Chamfering Drill
- Spanner Head Torque Wrench
- Shrink Fit System



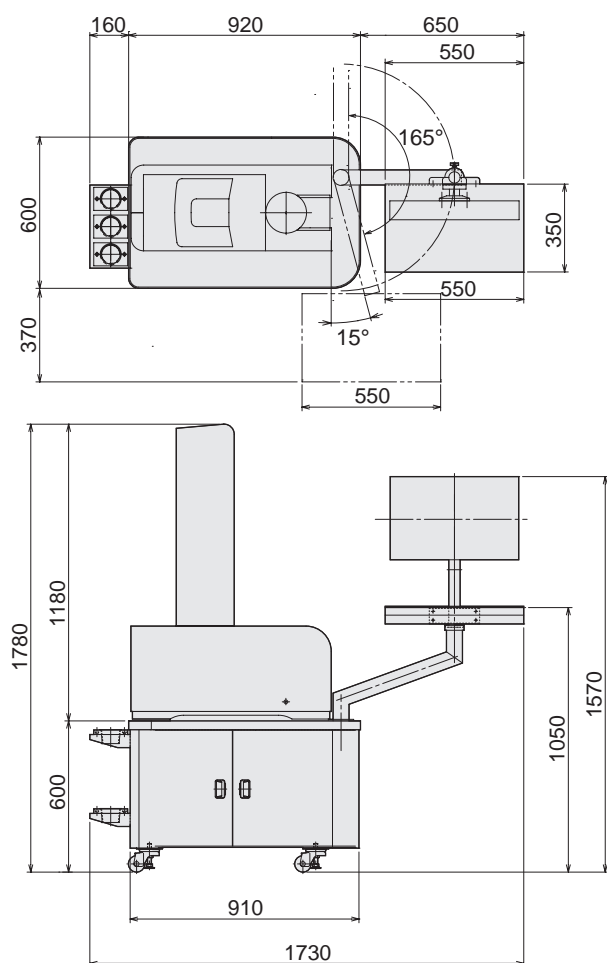
- Digital measuring equipment reference position

- Tool Presetter

- HSK Clamper

- "R" Zero Setter

- Simple Setter



## Specification of AOTP

Code	Model	Retention Stud	
		BT	CAT
4940 00050011	AOTP-500-1A	PSB-7, PSB-8, PSB-14 PSB-19, PSB-7-OH PSB-8-OH	—
4940 00050012	AOTP-500-1B	PSB-20	—
4940 00050013	AOTP-500-1C	PSB-17	—
4940 00050024	AOTP-500-2D	PSB-24	PSC50-1
4940 00050025	AOTP-500-2E	PSB-50P	—

1. Please select a model based on the retention stud type.
2. Retention stud not shown in the above chart can be also used. Please contact NT Tool Corporation for details.

External dimensions	1730mm x 600mm x 1780mm (DxWxH)
Weight	280kg
Power supply	100 ~ 240V AC, 50/60Hz
Power consumption	300W
Air pressure	0.4 ~ 0.6Mpa
Measurement	X-axis      ø400mm Z-axis      500mm
Minimum reading	0.001mm
Spindle Size	<u>BT50 (Adapters for different spindle sizes available.)</u> 1. When using an adapter, Z-axis measurement area will be narrower due to the height of the adapter. 2. Manual spindle rotation. Motor drive can be added as an option.
Clamp method	Mechanical clamp
Specifications of camera	1.3 million pixel CCD monochrome
Screen magnification ratio	30× Magnification
Display size	23.6"
Cutting edge measurement range	9.0 x 6.5mm
Menu manipulation method	Touch panel, mouse, keyboard
Language selection	English, Japanese, Korean
Accessories	Adapter tray

1. Switchable between Inch and Metric display.
2. Label printer is sold separately.
3. Specifications and design of the product are subject to change without notice.

## Unit Option

	Standard	Option
Spindle rotation	Manual	Automatic (Motor driven)
Cutting edge height adjustment	—	Height adjustment handle can be added to the front.

In addition to those options, customization of software and body is possible upon request. Please contact NT TOOL for details.

## Adapter (Sold Separately)

To measure tool holders other than BT50 shank size, adapters are necessary. Please contact NT TOOL for details.

For BT, CAT and SK	For HSK	For UTS
--------------------	---------	---------

For BT 30 and CAT 30  
For BT40, CAT40 and SK40  
※Please designate the type of retention stud in use.



HSK32, HSK40, HSK50,  
HSK63, HSK100



UTS6350, UTS10080



## Accessories

### Label printer

※ Sold Separately.

#### Model

**AOTP-PRINT-KG**

Thermal printer. No need for cartridges.  
Measured value can be printed.  
Tool name, model, comment registered beforehand can be printed together.

### Label for printer

※ Sold Separately.

#### Model

**AOTP-PRINT-LA**

Approx. 70 labels.  
Label size : 100 X 24mm

### Cleaning putty

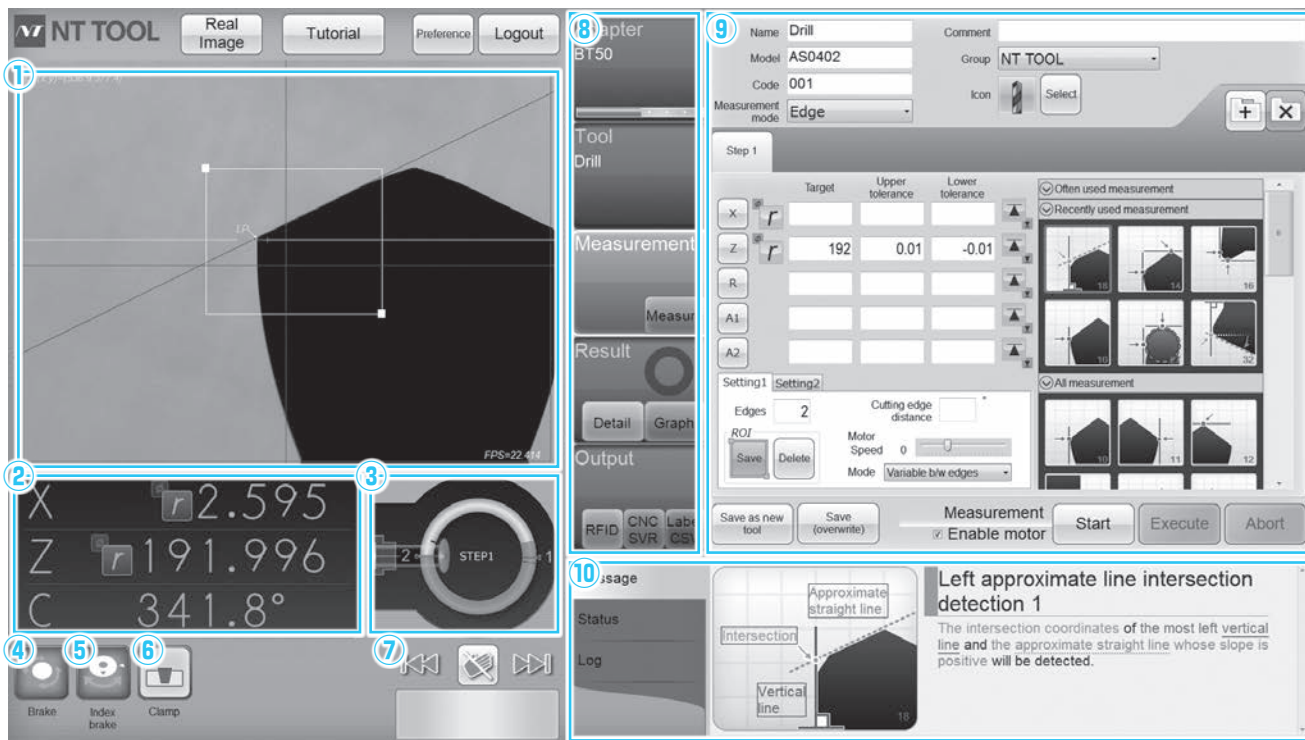
※ Included with AOTP.

#### Model

**AOTP-DUST-C**

To clean the cutting edge for accurate measurement.

## Basic Function



### ① Camera (Captured Image)

Actual field of view 9.0mm × 6.5mm  
30× Magnification  
35× Digital Zoom

### ② Coordinates

X=Radius/Diameter, Z=Height,  
C=Rotational Position.  
\*X and Z value indicates position of the camera center when not measuring.

### ③ Magic Eye

Cutting edge detection

### ④ Break

Spindle can be stopped at any location.

### ⑤ Index Break

Spindle can be pin-locked at 90 degrees.

### ⑥ Clamp / Unclamp

### ⑦ Spindle Control

Forward / reverse to the next / previous cutting edge.

: Free the motor.

### ⑧ Operation Order Tab

### ⑨ Operation Field

### ⑩ Message Field

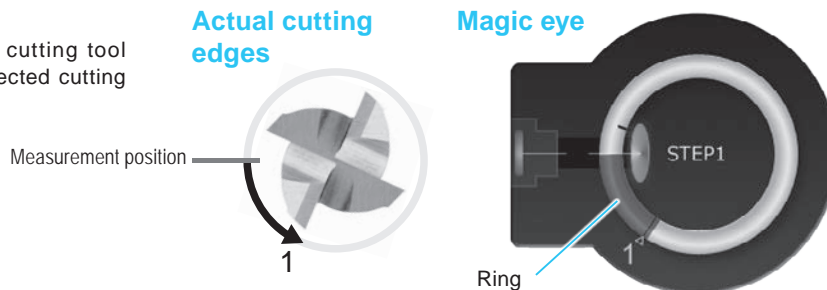
The software can be customized upon request.  
Please contact NT Tool Corporation.

## "Magic Eye" shows the positions of cutting edges.

Target cutting edge is always clear even with endmills and facemill cutters.

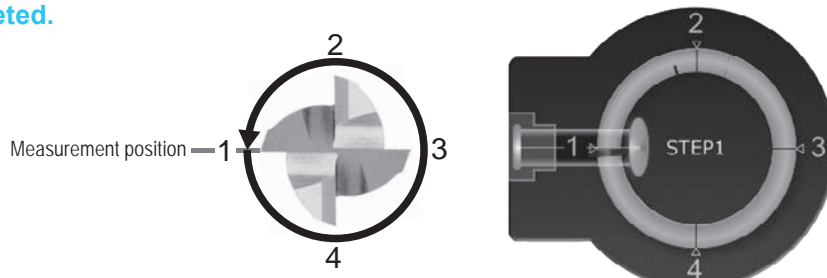
### Beginning of measurement

The ring turns green in accordance with cutting tool rotation. Numbers are assigned on the detected cutting edges.



### Detection of cutting edges completed.

Shows position of cutting edges in real-time.

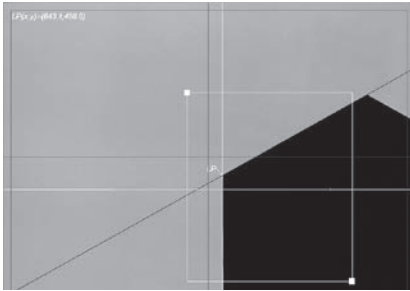




## Measurement function

### Runout measurement of the cutting edge

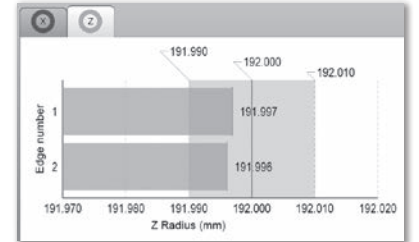
Capture the area where you want to measure. Then, turn the spindle 360degrees.



○: Good, ×: Bad

	X axis	Z axis	Radius	Angle 1	Angle 2	C axis
Upper tol.		0.010				
Target		192.000				
Lower tol.		-0.010				
1	2.599	191.997			162.9°	
2	2.595	191.996			341.8°	
Δ	0.004	0.001				

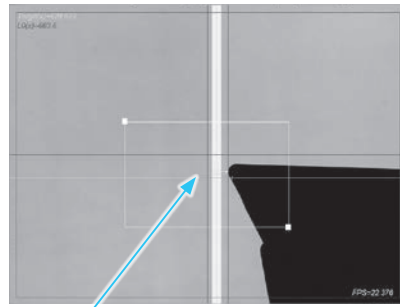
Measurement result



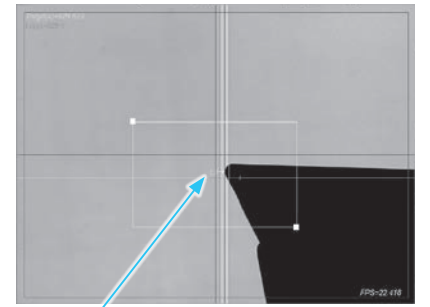
Graph

### Target Bar

Easy diameter adjustment for boring bars with presetting target shown on the screen.



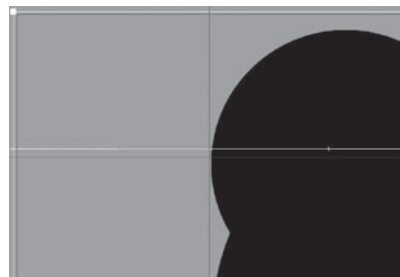
Presetting Target Range (Yellow color when the cutting edge is out of the range)



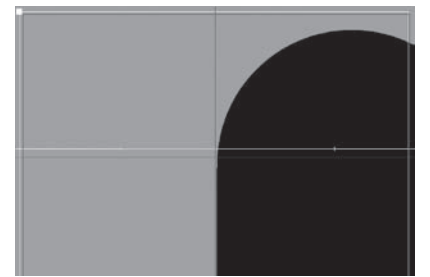
Presetting Target Range (Green color when the cutting edge is within the range)

### Measuring Afterimage

The cutting tool's profile is plotted by rotating the spindle 360 degrees.



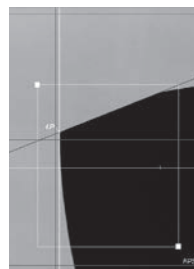
Before afterimage measurement



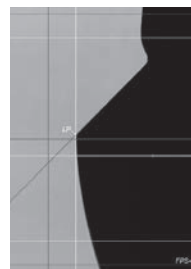
After afterimage measurement (afterimage of rotated tool is shown.)

### Measuring Step Drill

Each step can be measured separately.



Step 1

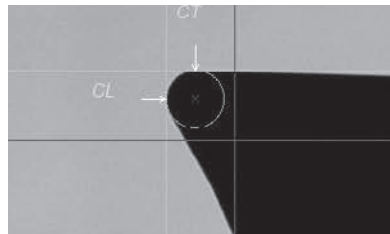


Step 2

	X axis	Z axis	Radius	Angle 1	Angle 2	C axis
Upper tol.						
Target						
Lower tol.						
1	3.255	211.726			71.2°	
2	3.251	211.705			252.3°	
Δ	0.004	0.024				

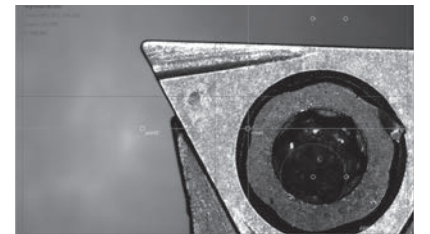
### Measuring Radius

Nose-radius can be measured by based on contour of cutting edge.



### Real image of cutting edge

Wearing and chipping on cutting edge can be inspected.



# NTP-300A , NTP-400

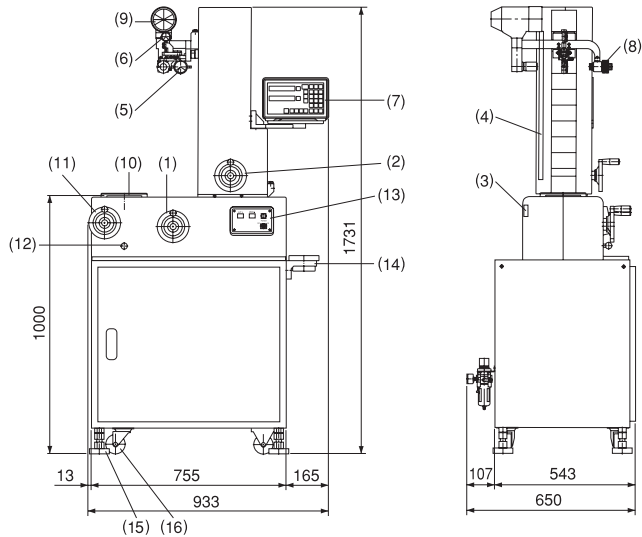
Tool Presetter

- One presetter can measure various kinds of shanks with taper reduction parts.

- BT
- CAT
- AHO
- HSK-A/E/F/C
- HSK-T
- UTS
- Specialized Machine
- Related Equipment
- Bush & Chamfering Drill
- Spanner Head Torque Wrench
- Shrink Fit System
- Digital measuring equipment of reference position
- Tool Presetter
- HSK Clamper
- "R" Zero Setter
- Simple Setter

NTP - 300A

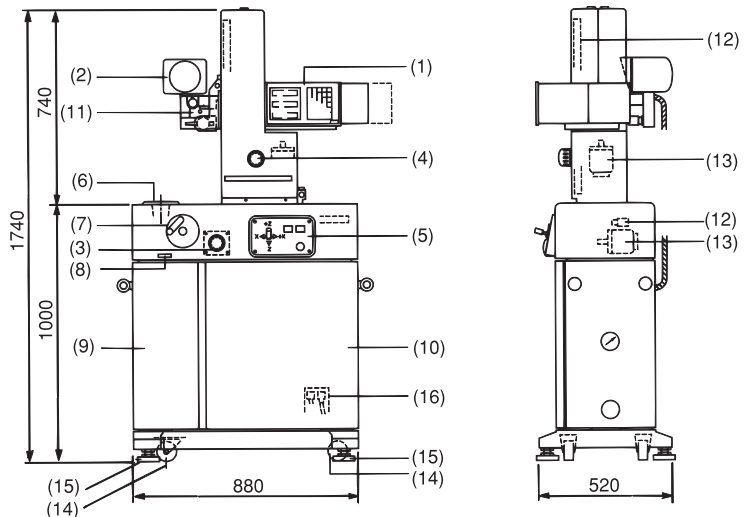
Metric only





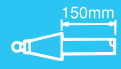
- (1) X-axis handle
- (2) Z-axis handle
- (3) X-axis scale
- (4) Z-axis scale
- (5) X-axis dial gauge
- (6) Z-axis dial gauge
- (7) Digital display
- (8) Optical projector (Light source unit)
- (9) Optical projector (Projecting unit)
- (10) Spindle
- (11) Spindle turning handle
- (12) Spindle fixing knob
- (13) Control panel
- (14) Tool setting pot
- (15) Level bolts
- (16) Casters

NTP - 400

Metric only



- (1) Digital display
- (2) Optical projector
- (3) X-axis handle
- (4) Z-axis handle
- (5) Control panel
- (6) Spindle
- (7) Spindle turning handle
- (8) Spindle fixing knob
- (9) Air cylinder storage unit
- (10) Accessory storage unit
- (11) Dial gauge for X,Z-axis
- (12) Scale for X,Z-axis
- (13) Motor for X,Z-axis
- (14) Casters
- (15) Level bolts
- (16) Connecting unit

Specifications		NTP-300A	NTP-400
Measurement range	X axis (Tool diameter) Z axis (Tool length)	D=0 ~ $\phi$ 300mm L=50 ~ 500mm	D=0 ~ $\phi$ 400mm L=50 ~ 500mm
Min. readable unit	X-axis	Digital display $\phi$ 0.002mm (Diameter) 0.001mm (Radius)	
	Z-axis	Digital display 0.005mm	
Dial gauge	 1 division	X-axis 0.001mm Z-axis 0.01mm	
Spindle shank	 Spindle	BT30 ~ BT50 HSK32 ~ HSK100 UTS5040 ~ UTS10080 (Special)	
Master gauge	 150mm	Including 150mm as standard.	
Column movement method		Handle (Manual)	Lever (Moter drive)
Power supply		AC100V $\pm$ 10% 50/60Hz If voltage exceeds AC 100V, please advise when ordering.	
Pneumatic supply	For auto tool lock	0.4 ~ 0.7MPa	
Weight		350kg	400kg
Standard accessories		Wrench set, Taper cleaner, Cover set, Lamp, Operating manual, Pedestal, Precision table, Spanner	

Metric measurement only.

Digital display	
A : Standard	B : with RS232C

Retention stud		
MASI	MASII	Others

When ordering others, please specify.

### NTP-300A

#### Ordering Example

**NTP-300A - A - BT40 - 2**  
 Digital display A type | Holder Support | Retention stud MAS II

### NTP-400

#### Ordering Example

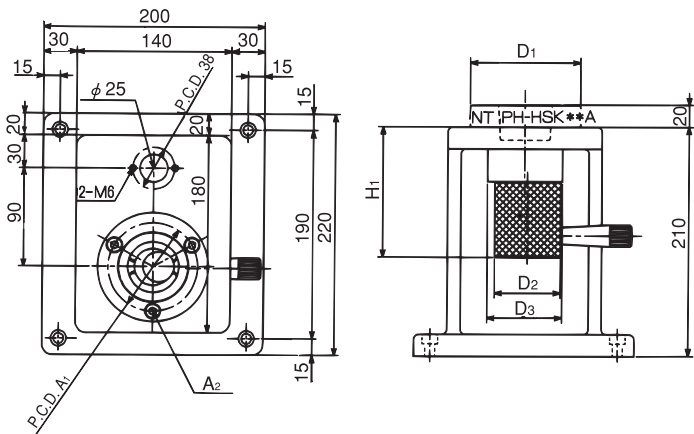
**NTP-400 - B - BT50 - 1**  
 Digital display B type | Holder Support | Retention stud MAS I

# SPN1-HSK

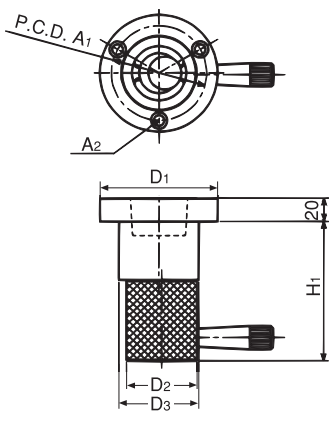
HSK Clamper

BT  
CAT  
AHO  
HSK-A/E/F/C  
HSK-T  
UTS  
Specialized Machine  
Related Equipment  
Bush & Chamfering Drill  
Spanner Head Torque Wrench

## Set

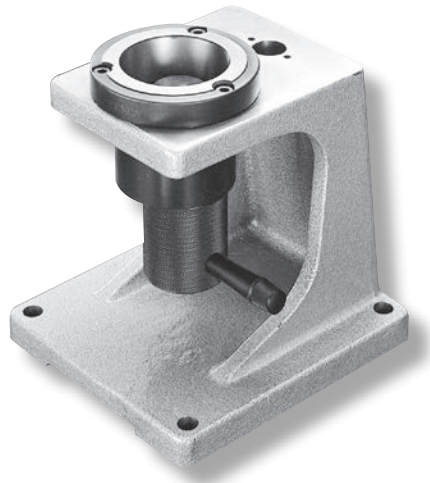


## Holder support only



## Feature

1. Easy to clamp holder as just insert HSK (A, C, or T) shank and rotate knob 90 degrees.
2. Tool length measurement is possible.



## Set

Code	Model
5580 00001040	<b>SPN1 -HSK40A</b>
5580 00001050	<b>SPN1 -HSK50A</b>
5580 00001063	<b>SPN1 -HSK63A</b>
5580 00001100	<b>SPN1 -HSK100A</b>

## Holder support only

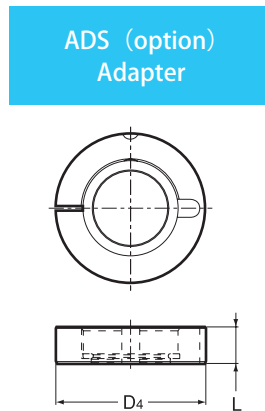
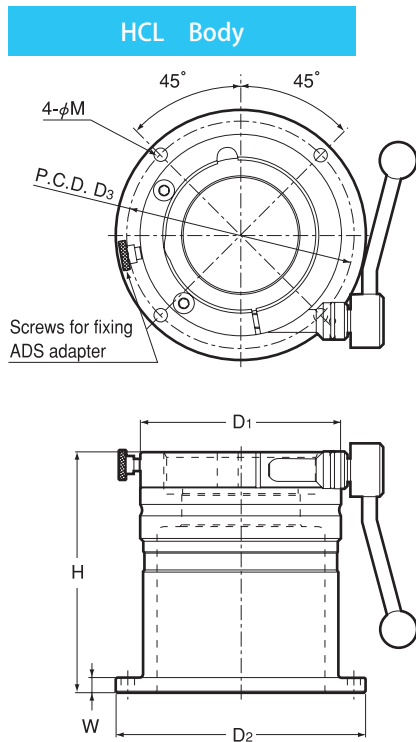
Model	Code	D1	D2	D3	H1	A1	A2
<b>PH -HSK40A</b>	5584 00000040	80	47	54	127	65	3-M6
<b>PH -HSK50A</b>	5584 00000050	80	47	54	127	65	3-M6
<b>PH -HSK63A</b>	5584 00000063	118	60	85	125	102	3-M8
<b>PH -HSK100A</b>	5584 00000100	118	60	85	145	102	3-M8

**Ordering Example**  
**SPN1 - HSK63A**  
 Base PBN-1 Shank size

**Ordering Example**  
**PH - HSK63A**  
 Shank size

# HCL

## HSK Clamper



### Application / Feature

1. Best suited for tightening milling chucks or collet chucks.
2. All types of HSK(A-F, and T) and UTS can be clamped.
3. With ADS adaptors, various different shanks can be clamped.
4. Tool holder can be clamped by turning the clamp lever only. The clamp lever can be turned in either direction.
5. ABS resins will prevent damages to taper or flange face of HSK/UTS shank.

### Body

Code	Model	Shank size	D1	H	D2	D3	W	M	kg	Adapter
5590 06300000	<b>HCL -63</b>	HSK63, UTS6350	98	162	131	115	10	9 (For M8)	4.6	ADS-63 * *
5590 10000000	<b>HCL -100</b>	HSK100, UTS10080	135	162	168	152	10	9 (For M8)	7.0	ADS-100 * *

- ※ Do not use for measuring tool presetting length.
- ※ Fixing bolts (4pcs) for installing to surface plate or work table are NOT included.

### Adapter

Model	Code	Shank size	D4	L	kg	Body
<b>ADS -6325</b>	5590 06325000	HSK25	63	24.2	0.5	HCL-63
<b>ADS -6332</b>	5590 06332000	HSK32	63	24.2	0.4	HCL-63
<b>ADS -6340</b>	5590 06340000	HSK40	63	24.2	0.3	HCL-63
<b>ADS -6350</b>	5590 06350000	HSK50, UTS5040	63	24.2	0.2	HCL-63
<b>ADS -10063</b>	5590 10063000	HSK63, UTS6350	100	24.2	0.9	HCL-100
<b>ADS -10080</b>	5590 10080000	HSK80	100	24.2	0.6	HCL-100

### Body

#### Ordering Example

**HCL - 63**  
Shank size

### Adapter

#### Ordering Example

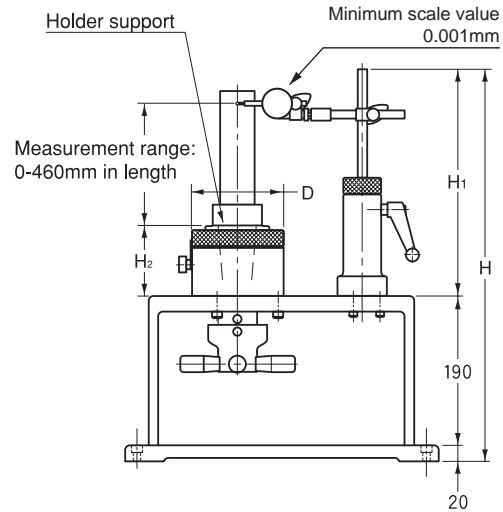
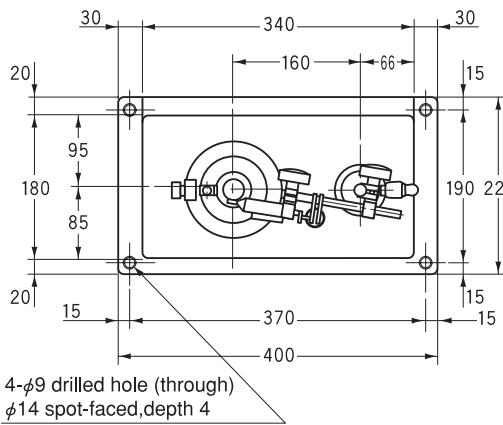
**ADS - 63 50**  
Body size Shank size

# SPZ-2

"R" Zero Setter

- BT
- CAT
- AHO
- HSK-A/E/F/C
- HSK-T
- UTS
- Specialized Machine
- Related Equipment
- Bush & Chamfering Drill
- Spanner Head Torque Wrench

Metric only



## Feature

1. Less than 3 μm runout accuracy at 200mm(HSK, UTS)
2. Rotary holder support for BT, HSK, UTS.
3. Holder pull-in mechanism.

Code	Model	Holder support	D	H	H1	H2	kg	Retention stud
3030 00003011	SPZ-2 -NT30-1	NT30	118	660	450	90	39	BT:MAS I MAS II
3030 00004011	SPZ-2 -NT40-1	NT40	118	660	450	90	39	BT:MAS I MAS II
3030 00005011	SPZ-2 -NT50-1	NT50	158	710	500	120	46	BT:MAS I MAS II
3030 00003012	SPZ-2 -NT30-2	NT30	118	660	450	90	39	BT:JIS SK:DIN
3030 00004012	SPZ-2 -NT40-2	NT40	118	660	450	90	39	BT:JIS SK:DIN
3030 00005012	SPZ-2 -NT50-2	NT50	158	710	500	120	46	BT:JIS SK:DIN
3030 10004010	SPZ-2 -HSK40	HSK40A, HSK40C	118	660	450	90	40	
3030 10005010	SPZ-2 -HSK50	HSK50A, HSK50C	118	660	450	90	40	
3030 10006310	SPZ-2 -HSK63	HSK63A, HSK63C	118	660	450	90	39	
3030 10010010	SPZ-2 -HSK100	HSK100A, HSK100C	158	710	500	120	49	
3030 20635010	SPZ-2 -UTS6350	UTS6350, (HS63)	118	660	450	90	39	
3030 21008010	SPZ-2 -UTS10080	UTS10080, (HS100)	158	710	500	120	48	

- ※ Master shank is sold separately.
- ※ Retention stud with 90 degree pull-in angle (the angle of the part hooked by jaw) is not capable.
- ※ Metric measurement only.

## Ordering Example

**SPZ-2 - NT30 - 1**

Retention size  
Holder Support

Shrink Fit System

Digital measuring equipment reference position

Tool Presetter

HSK Clamper

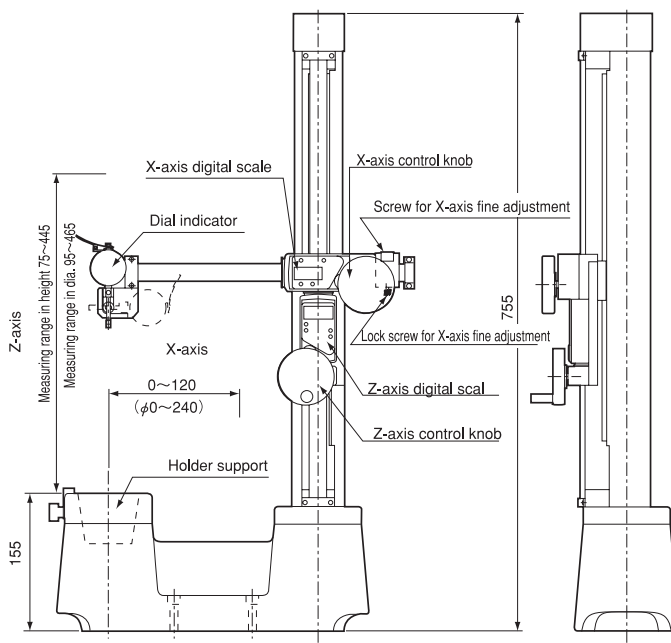
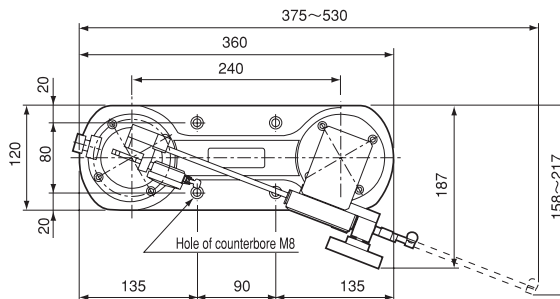
"R" Zero Setter

Simple Setter

# SPHV-3

## Simple Setter

- Light weight and compact design. Placeable on work table. Digital scales adopted for both X axis and Z axis.



Code	Model	Taper size	Measuring range (mm)	Min readable unit (mm)	Applicable holder support
2600 30000030	SPHV-3 -30	NT30	X-axis $\phi 0 \sim 240$ Z-axis 75 ~ 445 Z height measurement 95 ~ 465 Z diameter measurement	0.01	NTSP-30
2600 30000040	SPHV-3 -40	NT40	X-axis $\phi 0 \sim 240$ Z-axis 75 ~ 445 Z height measurement 95 ~ 465 Z diameter measurement	0.01	NTSP-40
2600 30000050	SPHV-3 -50	NT50	X-axis $\phi 0 \sim 240$ Z-axis 75 ~ 445 Z height measurement 95 ~ 465 Z diameter measurement	0.01	NTSP-50

- ※ A suitable master arbor (GL=150) is included.
- ※ A longer master arbor (GL=300) is sold separately.
- ※ Holder support can be exchanged.
- ※ Holder support can not rotate.
- ※ Metric measurement only.

### Ordering Example

**SPHV-3 - 30**

Support size

## SIMPLE SETTER

Expensive all purpose tool presetters are widely available in the market. However, customers have been spending a lot of time and money to make presetters for projection length of cutting tool.

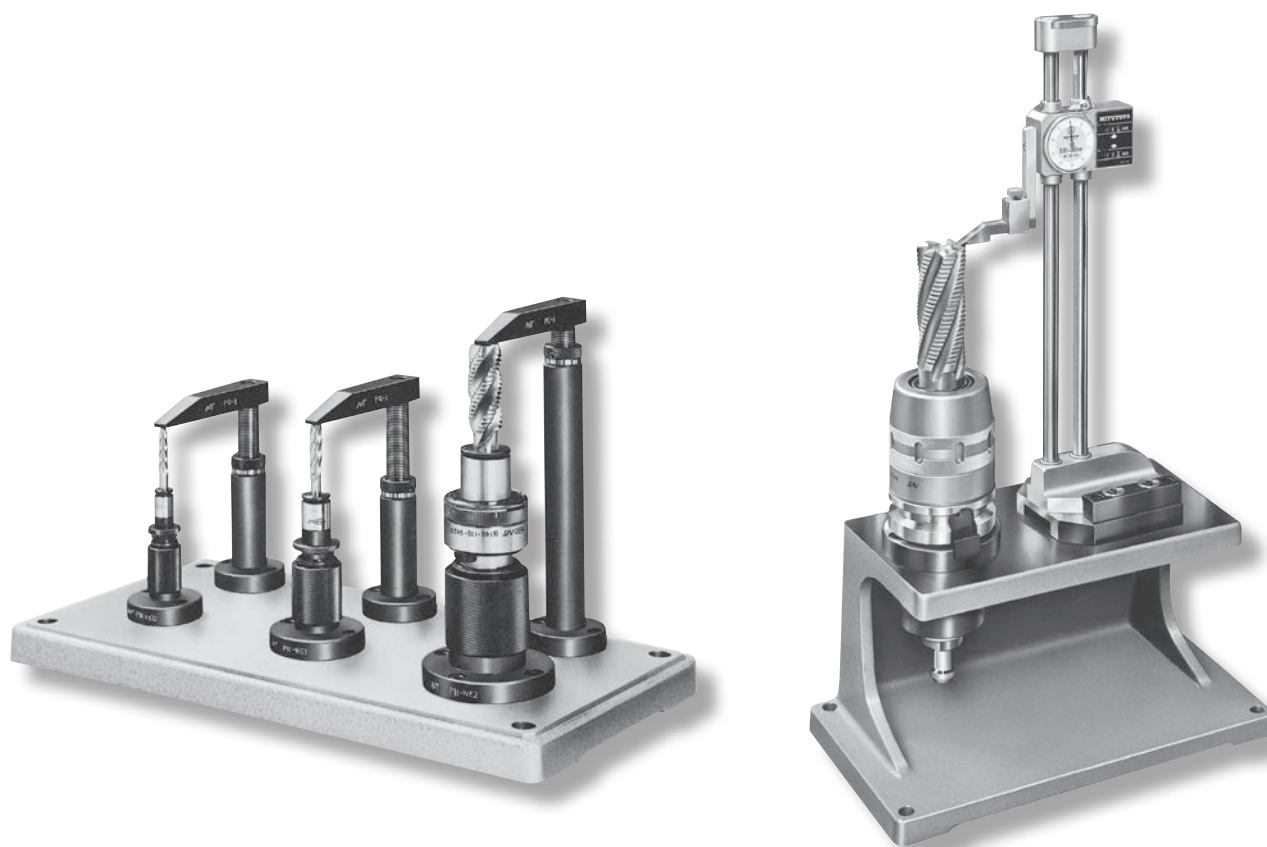
NT's simple setter provides preset gauge suitable for customers needs.

### Application

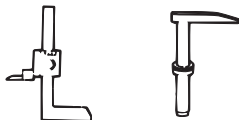
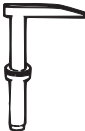




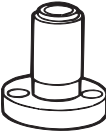
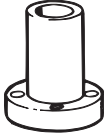



- Tool presetting for the use on machining centers and dedicated machines.





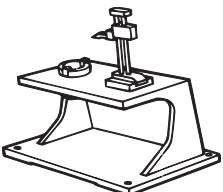
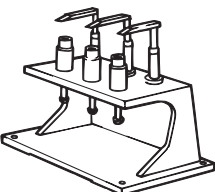
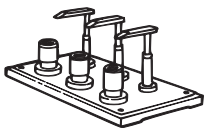
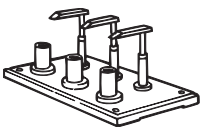
### Feature

- Wide variety of types and sizes
- Quick-to-built-up preset gauge





	For NC Toolings	For NT stub holders	For tap adapters	For Tr. shank
Gauge	<p>Height gauge</p>  <p>conventional</p> <p>PG-1</p>		 <p>PG-1</p>	
Gauge stand	 <p>PS-H4</p> <p>PS-0</p>		 <p>PS-0</p>	
Holder support	 <p>PH-NT</p>	 <p>PH-STC PH-K PH-KH</p>	 <p>PH-WE</p>	 <p>PH-Tr</p>
Base	 <p>PBN-1</p> <p>PBN-2</p> <p>PBK-1</p> <p>PBK-2</p>		 <p>PBT-1</p>	 <p>PBT-2</p>

Set-up	 <p>SPN1-NT</p> <p>Break-down: PG-1, PS-0, PH-NT, PBN-1 (1pc each)</p>	 <p>SPK1-K</p> <p>Break-down: PG-1, PS-0, PH-K, PBK-1 (1pc each)</p>	 <p>SPW1-WE</p> <p>Break-down: PG-1, PS-0, PH-WE, PBT-1 (1pc each)</p>	 <p>SPT1-Tr</p> <p>Break-down: PG-1, PS-0, PH-Tr, PBT-1 (1pc each)</p>
	 <p>SPN2-NT + Existing Height gauge</p> <p>Break-down: PS-H4, PH-NT, PBN-2 (1pc each)</p>	 <p>SPK2-K</p> <p>Break-down: PG-1, PS-0, PH-K, PBK-2 (3pcs each), PBK-2 (1pc)</p>	 <p>SPW2-WE</p> <p>Break-down: PG-1, PS-0, PH-WE, PBT-2 (3pcs each), PBT-2 (1pc)</p>	 <p>SPT2-Tr</p> <p>Break-down: PG-1, PS-0, PH-Tr, PBT-2 (3pcs each), PBT-2 (1pc)</p>

BT  
CAT  
AHO  
HSK-A/E/F/C  
HSK-T  
UTS  
Specialized Machine  
Related Equipment  
Bush & Chamfering Drill

Spanner Head Torque Wrench

Shrink Fit System

Digital measuring equipment of reference position

Tool Presetter

HSK Clamper

"R" Zero Setter

Simple Setter

# SPN

Simple Setter For NC Tooling

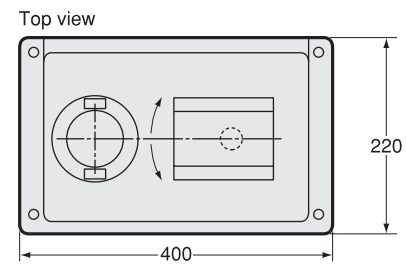
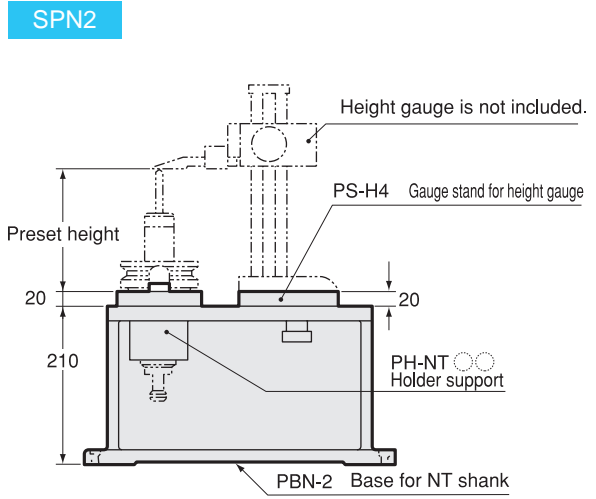
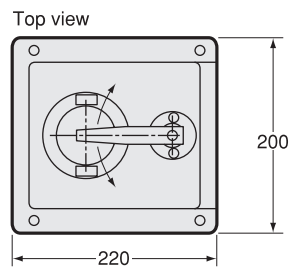
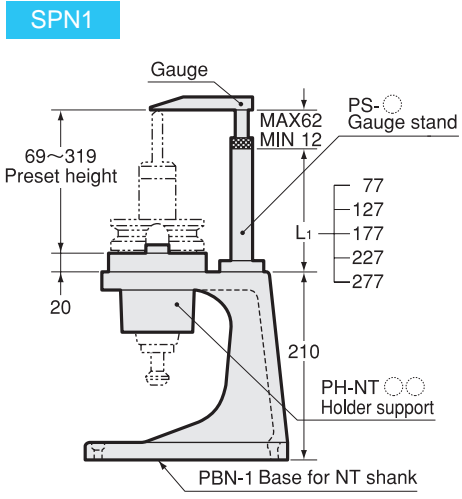
BT  
CAT  
AHO  
HSK-A/E/F/C  
HSK-T  
UTS  
Specialized Machine  
Related Equipment  
Bush & Chamfering Drill  
Spanner Head Torque Wrench

Shrink Fit System  
Digital measuring equipment of reference position

Tool Presetter  
HSK Clamper

"R" Zero Setter

Simple Setter



Gauge		Gauge stand		Holder support		Base	
PG-1	conventional	PS-○	PS-H4	PH-NT ○	PBN-1 ○	PBN-2 ○	

**Ordering Example**  
**SPN1 - NT40 - 227**  
 Base PBN-1    Holder Support    Gauge stand height L1

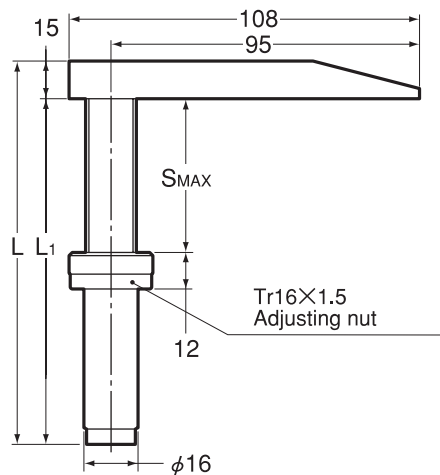
**Ordering Example**  
**SPN2 - NT40 + PS-H4**  
 Base PBN-2    Holder Support    Gauge stand

**Code**  
**0090 01 1 0 4 227**  
 Base PBN-1    Holder Support    Gauge stand height L1

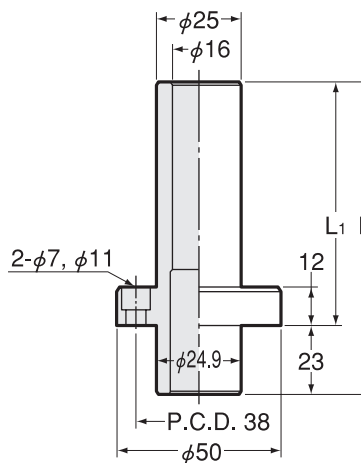
**Code**  
**0090 01 2 0 4 4 00**  
 Base PBN-2    Holder Support    Gauge stand PS-H4

Product code for each holder support is as follows. NT 30=1, NT 35=2, NT 40=4, NT 45=5 and NT 50=6.

PG  
Guage



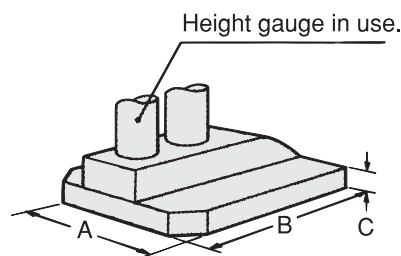
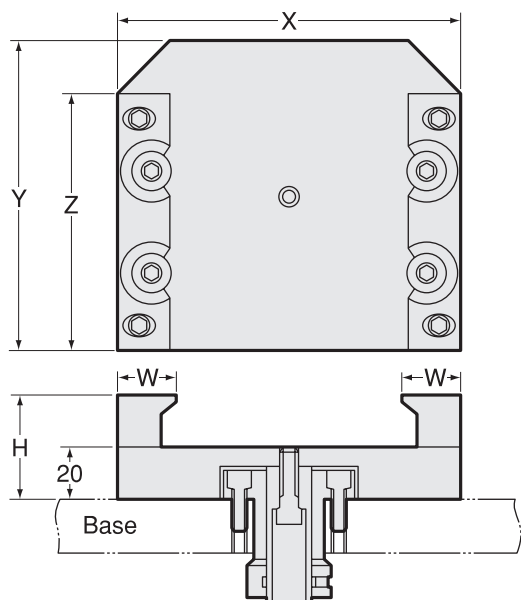
PS  
Guage stand



Code	Model	L	L1	SMAX	kg
0091 06000001	<b>PG-1</b>	128	113	50	0.4

Code	Model	L	L1
0091 01000001	<b>PS -1</b>	100	77
0091 01000002	<b>PS -2</b>	150	127
0091 01000003	<b>PS -3</b>	200	177
0091 01000004	<b>PS -4</b>	250	227
0091 01000005	<b>PS -5</b>	300	277

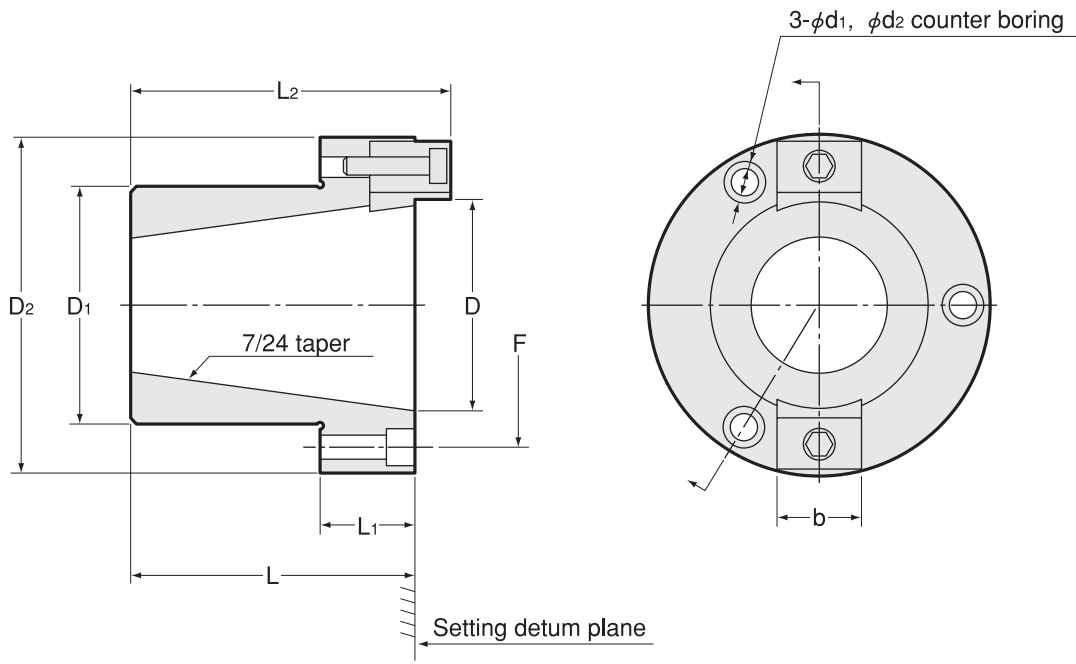
Gauge stand for height gauge



Code	Model	X	Y	Z	W	H	A	B	C
0091 01100004	<b>PS-H4</b>	136	135	110	21	37	91	135	12

- When ordering special gauge stand, please let us know base dimensions A x B x C.
- PS-H4 is used for Mitutoyo height gauge HD-30AX(192-613-10) or HW-30(192-130).

Holder support PH-NT



Code	Model	Shank size			D	D1	D2	L	L1	L2	F	b	d1	d2	kg
0091 02000030	<b>PH -NT30</b>	BT30	CAT30	SK30	31.75	48	74	45	20	52	59	15.7	7	11	0.9
0091 02000035	<b>PH -NT35</b>	BT35	—	—	38.1	48	74	50	20	57	59	13.8	7	11	0.8
0091 02000040	<b>PH -NT40</b>	BT40	CAT40	SK40	44.45	54	80	55	20	62	65	15.7	7	11	1.0
0091 02000045	<b>PH -NT45</b>	BT45	—	SK45	57.15	68	100	75	20	85	81	18.9	9	14	1.8
0091 02000050	<b>PH -NT50</b>	BT50	CAT50	SK50	69.85	78	110	90	20	100	92	25.3	9	14	2.3

To set CAT or SK shank holder, remove one of the stopper keys on the holder support PH-NT.

BT  
CAT  
AHO  
HSK-A/E/F/C  
HSK-T  
UTS  
Specialized Machine

Related Equipment  
Bush & Chamfering Drill

Spanner Head  
Torque Wrench

Shrink Fit System

Digital measuring equipment  
reference position

Tool Presetter

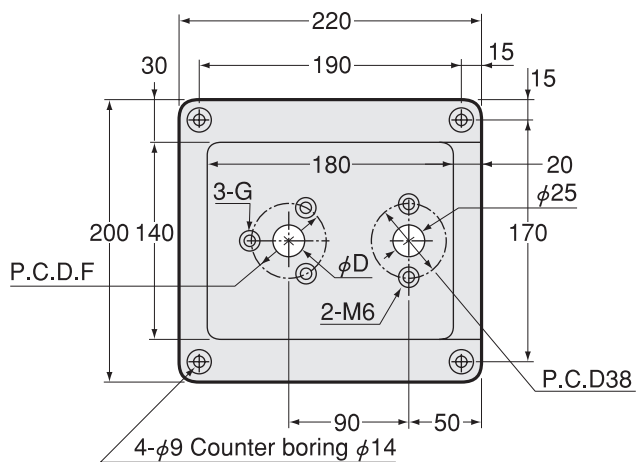
HSK Clamper

"R" Zero Setter

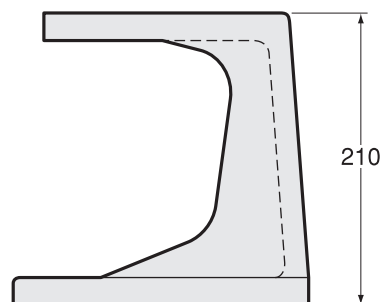
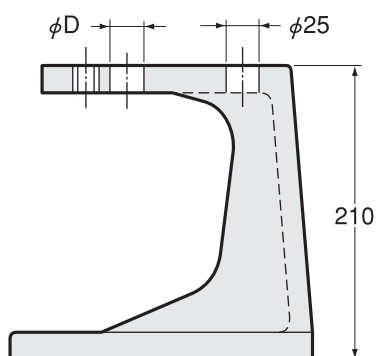
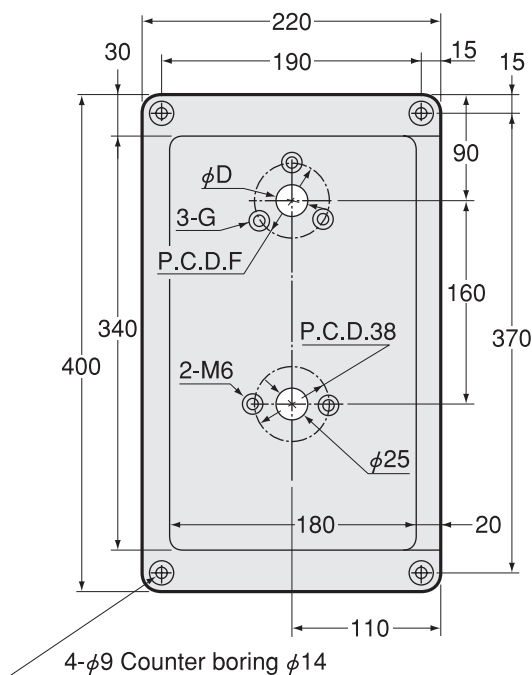
Simple Setter

Base PBN

TYPE1



TYPE2



Code	Model	Type	φF	φD <sup>+0.2</sup> <sub>0</sub>	G	Holder support	Gauge stand
0091 07000130	<b>PBN -1-30</b>	1	59	48	M6	PH-NT30	PS-1 ~ PS-5 PS-H4
0091 07000230	<b>PBN -2-30</b>	2	59	48	M6	PH-NT30	PS-1 ~ PS-5 PS-H4
0091 07000135	<b>PBN -1-35</b>	1	59	48	M6	PH-NT35	PS-1 ~ PS-5 PS-H4
0091 07000235	<b>PBN -2-35</b>	2	59	48	M6	PH-NT35	PS-1 ~ PS-5 PS-H4
0091 07000140	<b>PBN -1-40</b>	1	65	54	M6	PH-NT40	PS-1 ~ PS-5 PS-H4
0091 07000240	<b>PBN -2-40</b>	2	65	54	M6	PH-NT40	PS-1 ~ PS-5 PS-H4
0091 07000145	<b>PBN -1-45</b>	1	81	68	M8	PH-NT45	PS-1 ~ PS-5 PS-H4
0091 07000245	<b>PBN -2-45</b>	2	81	68	M8	PH-NT45	PS-1 ~ PS-5 PS-H4
0091 07000150	<b>PBN -1-50</b>	1	92	78	M8	PH-NT50	PS-1 ~ PS-5 PS-H4
0091 07000250	<b>PBN -2-50</b>	2	92	78	M8	PH-NT50	PS-1 ~ PS-5 PS-H4

BT  
CAT  
AHO  
HSK-A/E/F/C  
HSK-T  
UTS  
Specialized Machine

Related Equipment  
Bush & Chamfering Drill

Spanner Head  
Torque Wrench

Shrink Fit System

Digital measuring equipment  
reference position

Tool Presetter

HSK Clamper

"R" Zero Setter

Simple Setter

# SPK-K

Simple Setter For Kd

- BT
- CAT
- AHO
- HSK-A/E/F/C
- HSK-T
- UTS
- Specialized Machine
- Related Equipment
- Bush & Chamfering Drill
- Spanner Head Torque Wrench

- Shrink Fit System

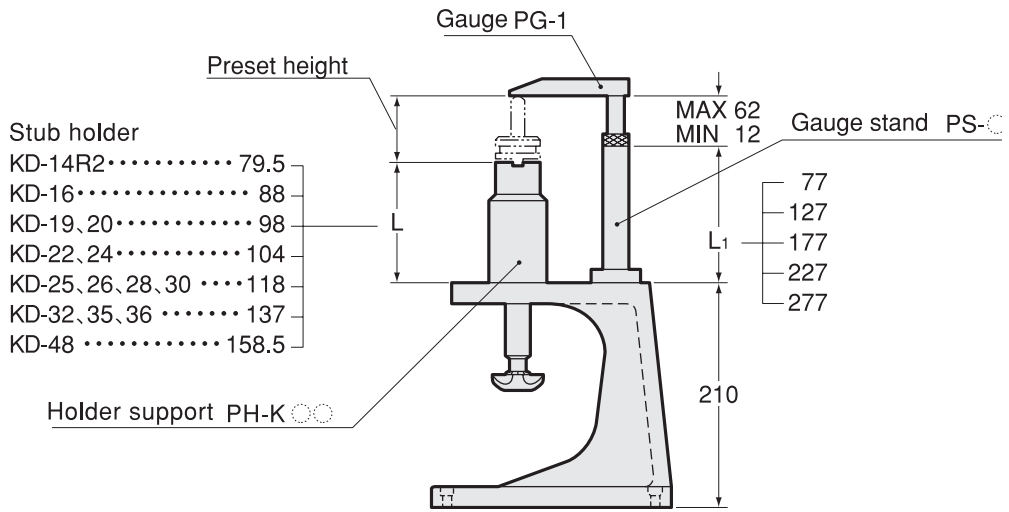
- Digital measuring equipment reference position

- Tool Presetter

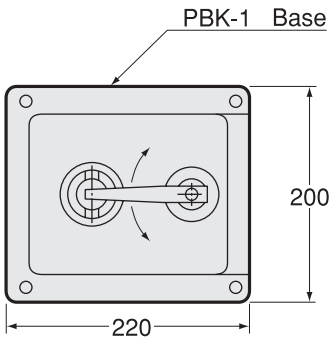
- HSK Clamper

- "R" Zero Setter

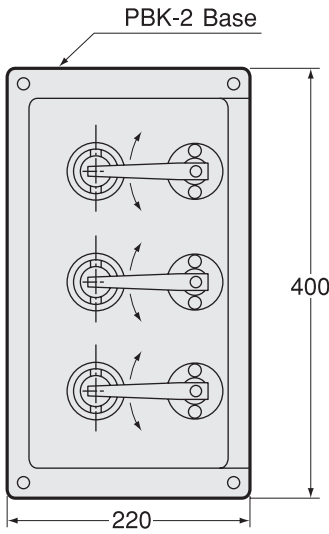
- Simple Setter

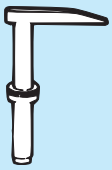
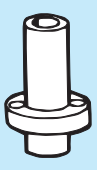

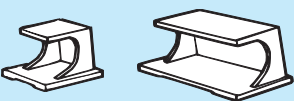


**SPK1**



**SPK2**



Gauge	Gauge stand	Holder support	Base
			
PG-1	PS-○	PH-○K	PBK-1○ PBK-2○

**Ordering Example**

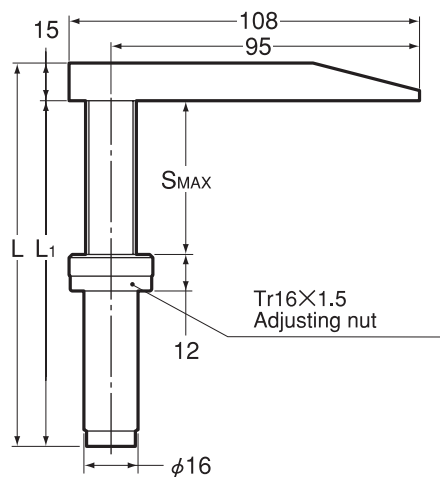
**Code**

**SPK1 - K16 - 77**      **0090 02 1 16 077**

Base PBK-1    Holder Support    Gauge stand height L1      Base PBK-1    Holder Support      Gauge stand height L1

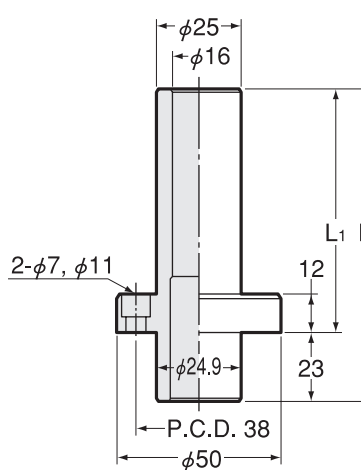


**PG**  
Guage



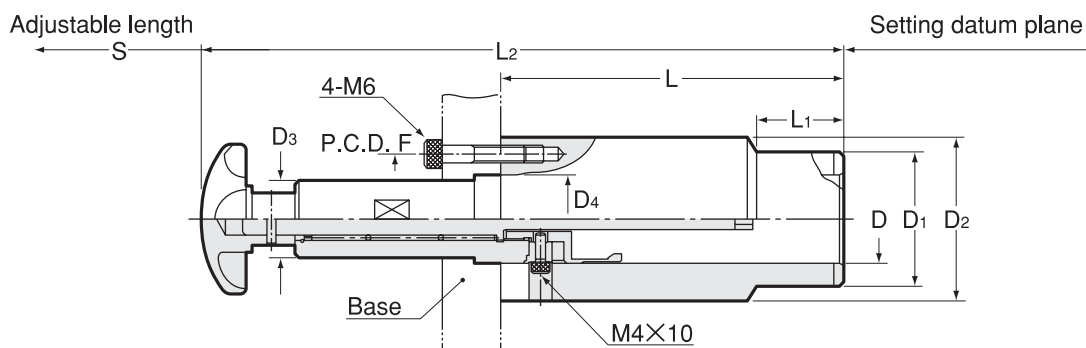
Code	Model	L	L1	SMAX	kg
0091 06000001	<b>PG-1</b>	128	113	50	0.4

**PS**  
Guage stand



Code	Model	L	L1
0091 01000001	<b>PS -1</b>	100	77
0091 01000002	<b>PS -2</b>	150	127
0091 01000003	<b>PS -3</b>	200	177
0091 01000004	<b>PS -4</b>	250	227
0091 01000005	<b>PS -5</b>	300	277

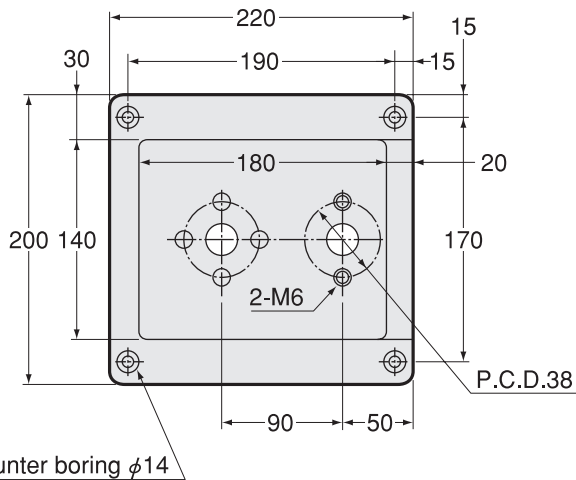
**PH-K**  
Holder support



Code	Model	D	D1	D2	D3	D4	L	L1	L2	F	S	kg
0091 03000014	<b>PH -K14R2</b>	14	23	55	24	25	79.5	30	182	45	45	1.2
0091 03000016	<b>PH -K16</b>	16	25	55	24	25	88	30	190.5	45	45	1.3
0091 03000019	<b>PH -K19</b>	19	28	55	24	25	98	30	200.5	45	45	1.5
0091 03000020	<b>PH -K20</b>	20	28	55	24	25	98	30	200.5	45	45	1.5
0091 03000022	<b>PH -K22</b>	22	32	55	24	25	104	30	206.5	45	45	1.6
0091 03000024	<b>PH -K24</b>	24	32	55	24	25	104	30	206.5	45	45	1.6
0091 03000025	<b>PH -K25</b>	25	35	55	24	25	118	30	220.5	45	45	1.8
0091 03000026	<b>PH -K26</b>	26	35	55	24	25	118	30	220.5	45	45	1.8
0091 03000028	<b>PH -K28</b>	28	38	55	24	25	118	30	220.5	45	45	1.8
0091 03000030	<b>PH -K30</b>	30	40	55	24	25	118	30	220.5	45	45	
0091 03000032	<b>PH -K32</b>	32	42	55	24	25	137	30	239.5	45	45	1.9
0091 03000035	<b>PH -K35</b>	35	45	55	24	25	137	30	239.5	45	45	1.9
0091 03000036	<b>PH -K36</b>	36	45	55	24	25	137	30	239.5	45	45	1.8
0091 03000048	<b>PH -K48</b>	48	63	65	24	25	158.5	30	261	45	45	

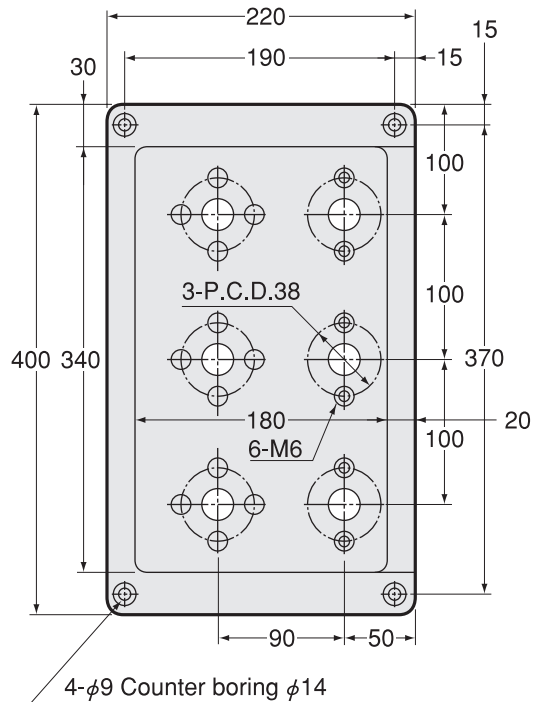
PBK Base

TYPE1

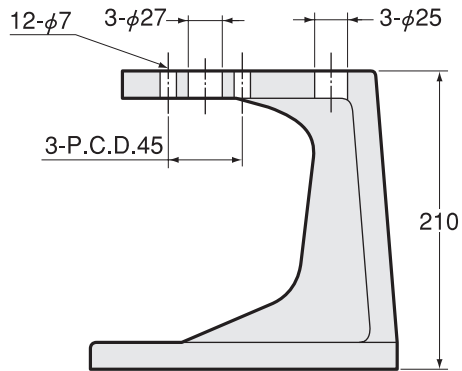
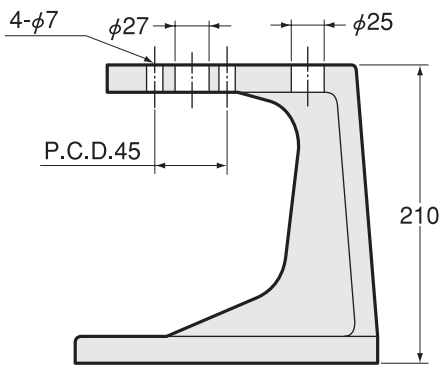


4-φ9 Counter boring φ14

TYPE2



4-φ9 Counter boring φ14

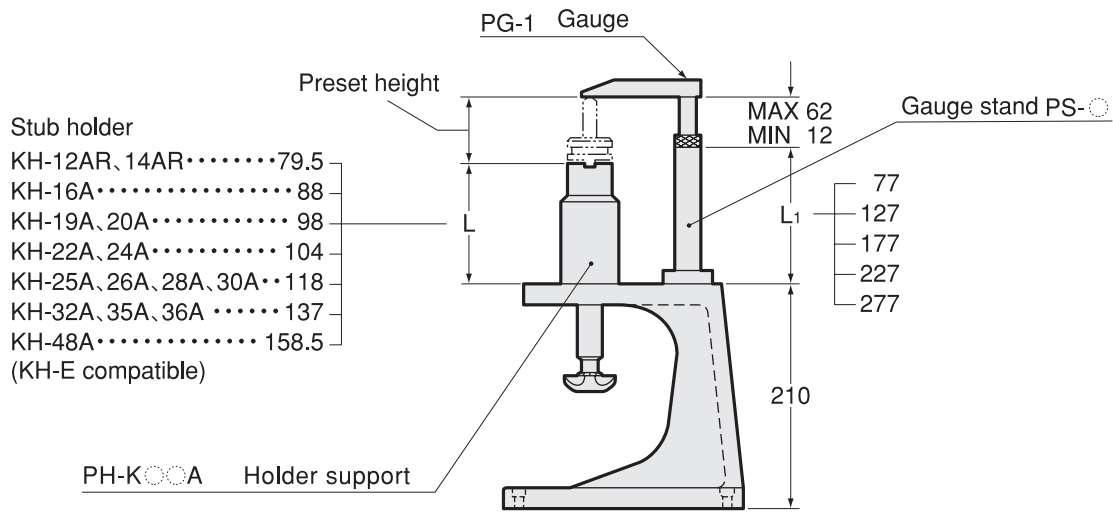


Code	Model	Type	Holder support	Gauge stand
0091 07100145	<b>PBK -1-45</b>	1	PH-K14R2 ~ PH-K48	PS-1 ~ PS-5
0091 07100245	<b>PBK -2-45</b>	2	PH-K14R2 ~ PH-K48	PS-1 ~ PS-5

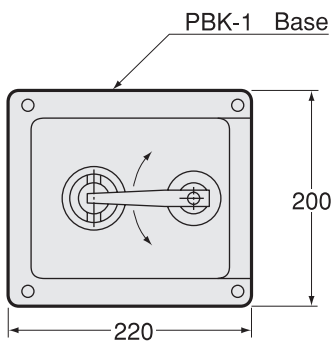


# SPK-KHA

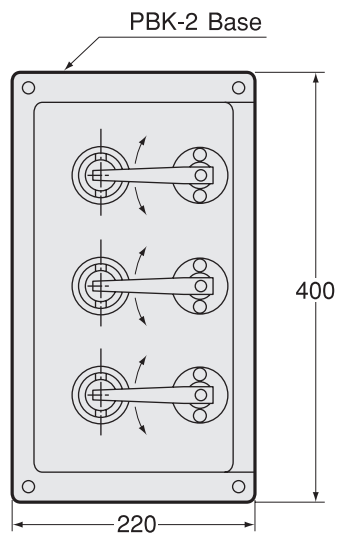
Simple Setter For KH-A, KH-E

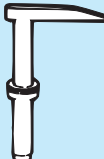
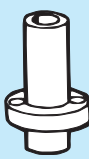


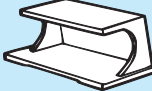


SPK1



SPK2



Gauge	Gauge stand	Holder support	Base
			 
PG-1	PS-	PH-KH A	PBK-1 PBK-2

## Ordering Example

**SPK1 - KH16A - 77**

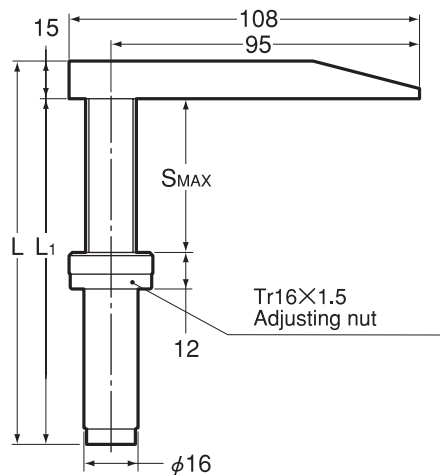
Base PBK-1 Holder Support Gauge stand height L1

## Code

**0090 12 1 16 077**

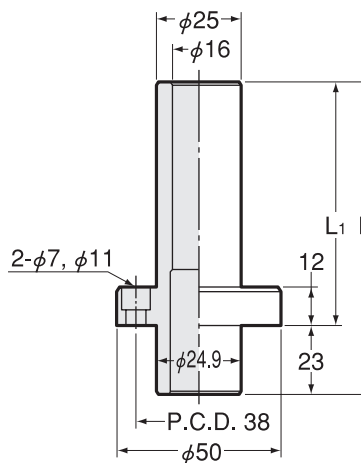
Base PBK-1 Holder Support Gauge stand height L1

**PG  
Guage**



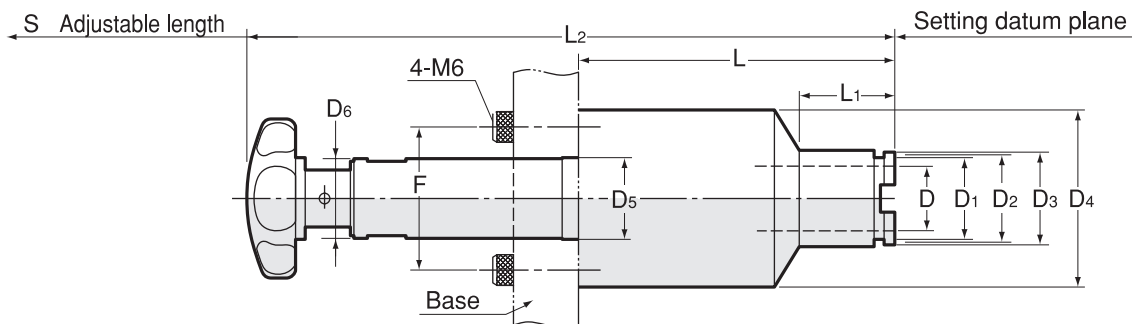
Code	Model	L	L1	SMAX	kg
0091 06000001	<b>PG-1</b>	128	113	50	0.4

**PS  
Guage stand**



Code	Model	L	L1
0091 01000001	<b>PS -1</b>	100	77
0091 01000002	<b>PS -2</b>	150	127
0091 01000003	<b>PS -3</b>	200	177
0091 01000004	<b>PS -4</b>	250	227
0091 01000005	<b>PS -5</b>	300	277

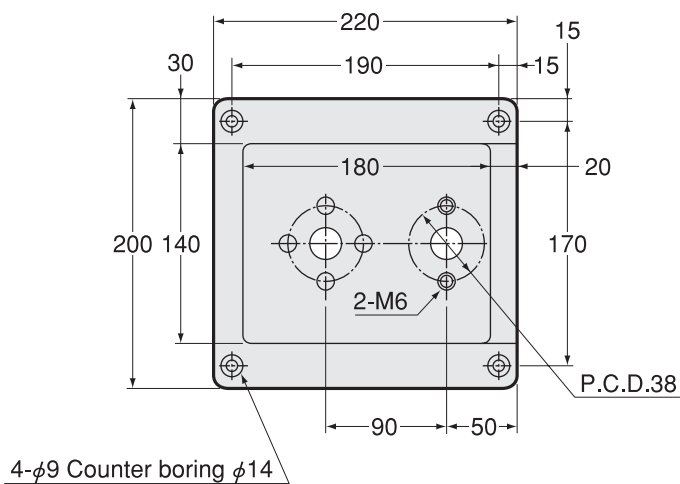
**PH-KHA  
Holder support**



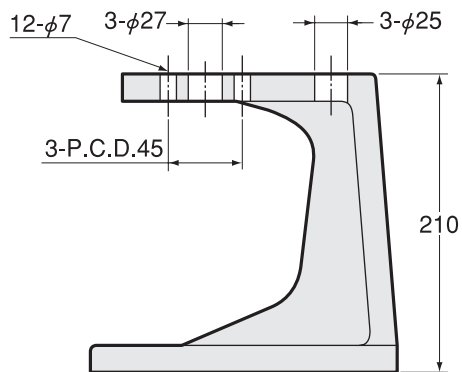
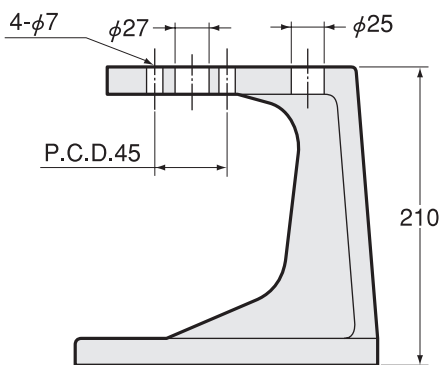
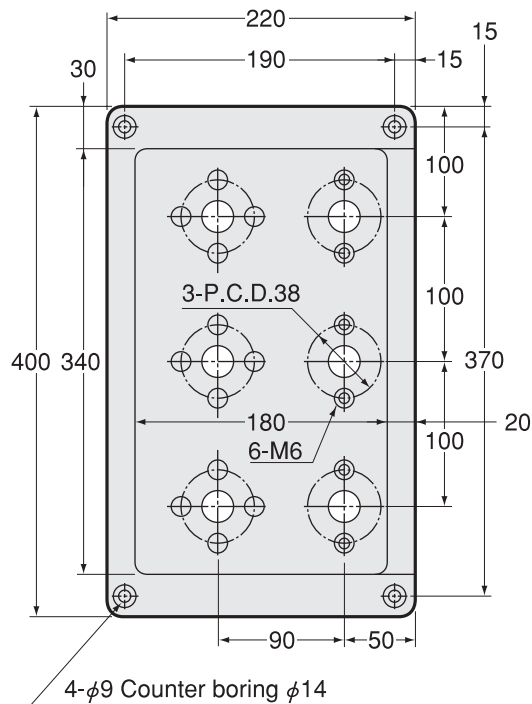
Code	Model	D	D1	D2	D3	D4	D5	D6	L	L1	L2	F	S	kg
0091 13000012	<b>PH -KH12AR</b>	12	16.5	18	20	55	25	24	79.5	30	182	45	45	1.2
0091 13000014	<b>PH -KH14AR</b>	14	20	22	24	55	25	24	79.5	30	182	45	45	1.2
0091 13000016	<b>PH -KH16A</b>	16	24	26.4	29	55	25	24	88	30	190.5	45	45	1.4
0091 13000019	<b>PH -KH19A</b>	19	27	29.4	32	55	25	24	98	30	200.5	45	45	1.5
0091 13000020	<b>PH -KH20A</b>	20	27	29.4	32	55	25	24	98	30	200.5	45	45	1.5
0091 13000022	<b>PH -KH22A</b>	22	30	32.4	35	55	25	24	104	30	206.5	45	45	1.6
0091 13000024	<b>PH -KH24A</b>	24	32	34.4	37	55	25	24	104	30	206.5	45	45	1.6
0091 13000025	<b>PH -KH25A</b>	25	35	37.4	41	55	25	24	118	30	220.5	45	45	1.9
0091 13000026	<b>PH -KH26A</b>	26	35	37.4	41	55	25	24	118	30	220.5	45	45	1.8
0091 13000028	<b>PH -KH28A</b>	28	38	40.4	44	55	25	24	118	30	220.5	45	45	1.8
0091 13000030	<b>PH -KH30A</b>	30	38	40.4	44	55	25	24	118	30	220.5	45	45	1.8
0091 13000032	<b>PH -KH32A</b>	32	41	43.8	47	55	25	24	137	30	239.5	45	45	2.0
0091 13000035	<b>PH -KH35A</b>	35	45	47.8	52	55	25	24	137	30	239.5	45	45	1.9
0091 13000036	<b>PH -KH36A</b>	36	45	47.8	52	55	25	24	137	30	239.5	45	45	1.9
0091 13000048	<b>PH -KH48A</b>	48	62	65.4	68	70	25	24	158.5	30	261	45	45	3.1

PBK Base

TYPE1



TYPE2



Code	Model	Type	Holder support	Gauge stand
0091 07100145	<b>PBK -1-45</b>	1	PH-KH12AR ~ PH-KH48A	PS-1 ~ PS-5
0091 07100245	<b>PBK -2-45</b>	2	PH-KH12AR ~ PH-KH48A	PS-1 ~ PS-5

BT  
CAT  
AHO  
HSK-A/E/F/C  
HSK-T  
UTS  
Specialized Machine

Related Equipment

Bush & Chamfering Drill

Spanner Head  
Torque Wrench

Shrink Fit System

Digital measuring equipment  
reference position

Tool Presetter

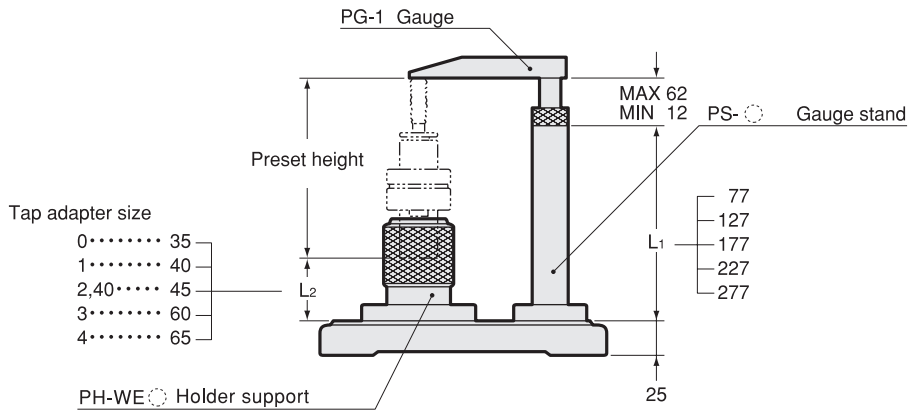
HSK Clamper

"R" Zero Setter

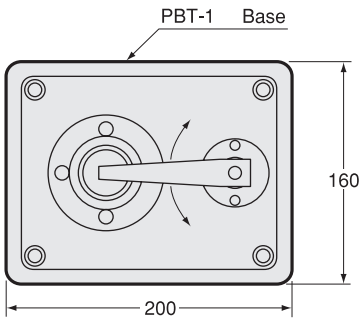
Simple Setter

# SPW

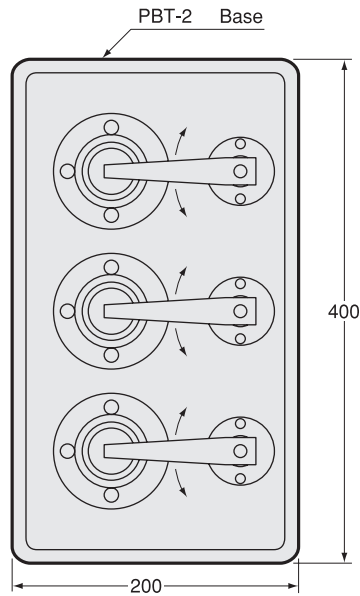
## Simple Setter For Tap Adapter

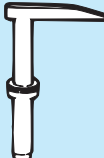
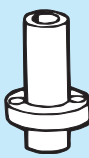
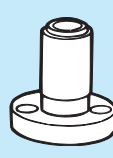
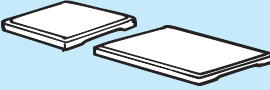


SPW1



SPW2



Gauge	Gauge stand	Holder support	Base
			
PG-1	PS- ○	PH-WE ○	PBT-1 ○ PBT-2 ○

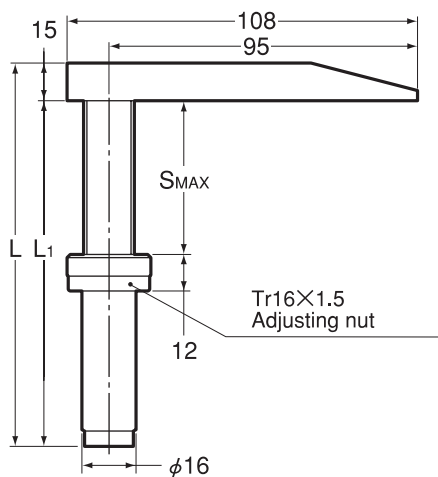
### Ordering Example

**SPW1 - WE1 - 127**  
 Base PBT-1    Holder Support    Gauge stand height L1

### Code

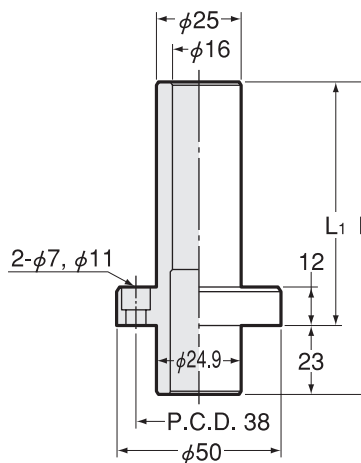
**0090 03 1 0 1 127**  
 Base PBT-1    Tap adapter size    Gauge stand height L1

Guage PG



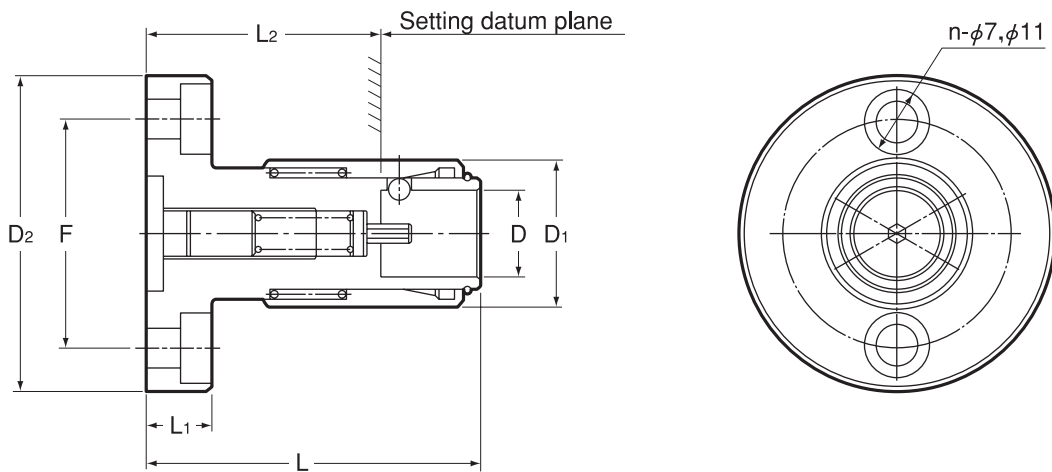
Code	Model	L	L1	SMAX	kg
0091 06000001	<b>PG-1</b>	128	113	50	0.4

Guage stand PS



Code	Model	L	L1
0091 01000001	<b>PS -1</b>	100	77
0091 01000002	<b>PS -2</b>	150	127
0091 01000003	<b>PS -3</b>	200	177
0091 01000004	<b>PS -4</b>	250	227
0091 01000005	<b>PS -5</b>	300	277

Holder support PH-WE



Code	Model	D	D1	D2	L	L1	L2	F	n	kg
0091 04000000	<b>PH -WE0</b>	13.5	23	50	50	12	35	36	2	0.3
0091 04000001	<b>PH -WE1</b>	19.5	32	60	56	12	40	45	2	0.5
0091 04000040	<b>PH -WE40</b>	26.5	40	65	70	12	45	51	4	
0091 04000002	<b>PH -WE2</b>	31.5	50	76	72	12	45	62	4	1.0
0091 04000003	<b>PH -WE3</b>	48.5	72	100	105	12	60	83	4	
0091 04000004	<b>PH -WE4</b>	60.5	92	120	114	12	65	105	4	

BT

CAT

AHO

HSK-A/E/F/C

HSK-T

UTS

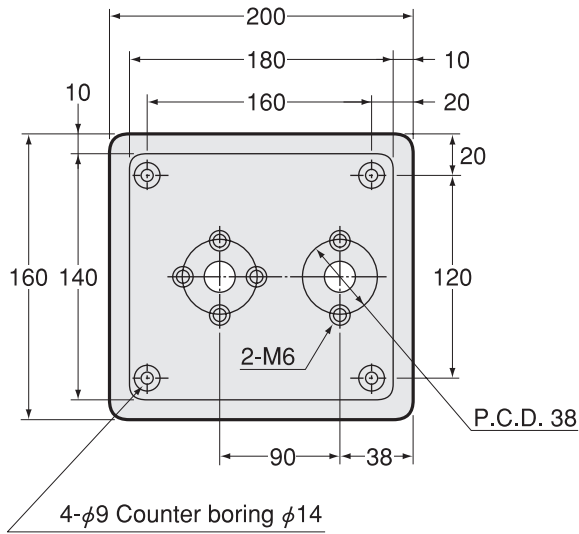
Specialized Machine

Related Equipment

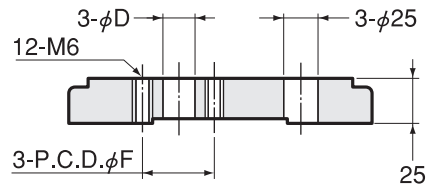
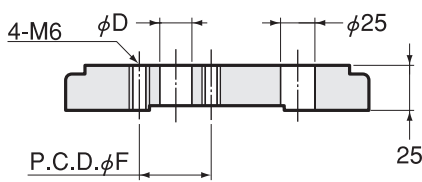
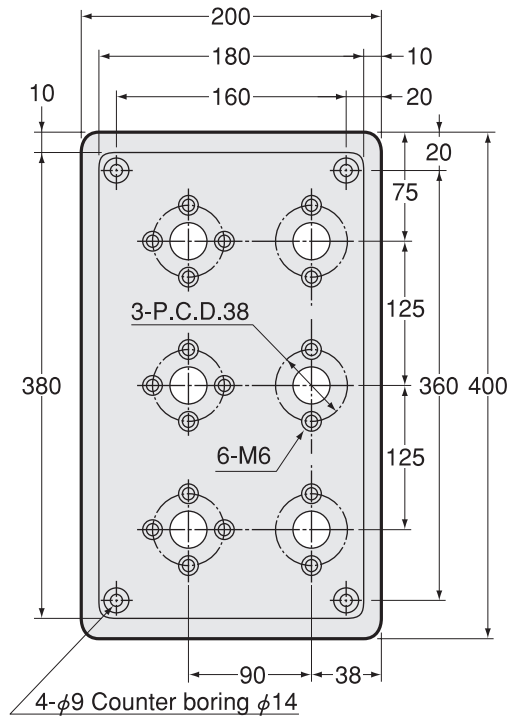
Bush & Chamfering Drill

Base PBT

TYPE1



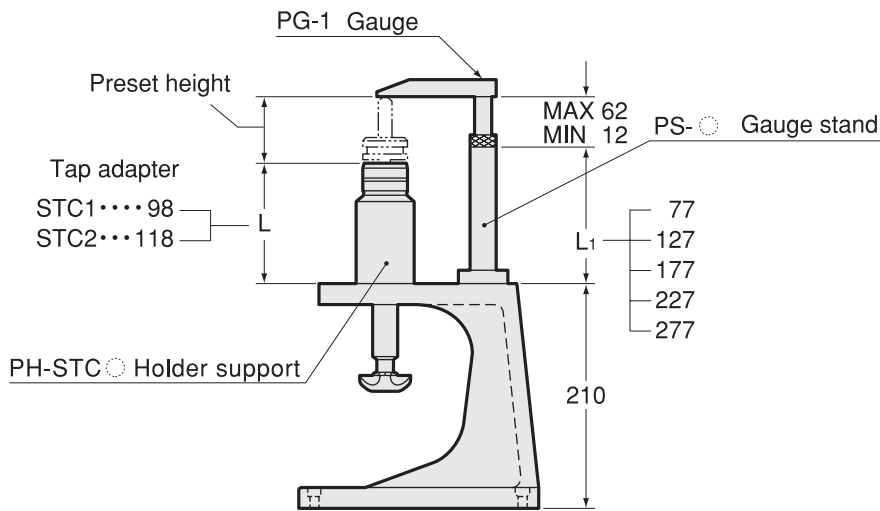
TYPE2



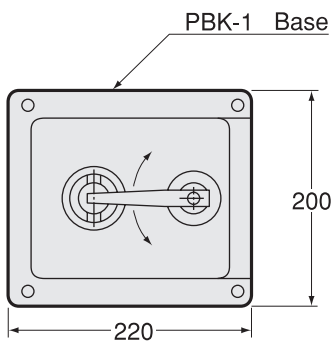
Code	Model	Type	φ F	φ D	Holder support	Gauge stand
0091 07200136	PBT -1-36	1	36	17	PH-WE0	PS-1 ~ PS-5
0091 07200236	PBT -2-36	2	36	17	PH-WE0	PS-1 ~ PS-5
0091 07200145	PBT -1-45	1	45	23	PH-WE1	PS-1 ~ PS-5
0091 07200245	PBT -2-45	2	45	23	PH-WE1	PS-1 ~ PS-5
0091 07200151	PBT -1-51	1	51	31	PH-WE40	PS-1 ~ PS-5
0091 07200251	PBT -2-51	2	51	31	PH-WE40	PS-1 ~ PS-5
0091 07200162	PBT -1-62	1	62	37	PH-WE2	PS-1 ~ PS-5
0091 07200262	PBT -2-62	2	62	37	PH-WE2	PS-1 ~ PS-5
0091 07200183	PBT -1-83	1	83	56	PH-WE3	PS-1 ~ PS-5
0091 07200283	PBT -2-83	2	83	56	PH-WE3	PS-1 ~ PS-5
0091 07201105	PBT -1-105	1	105	68	PH-WE4	PS-1 ~ PS-5
0091 07202105	PBT -2-105	2	105	68	PH-WE4	PS-1 ~ PS-5

# SPK-STC

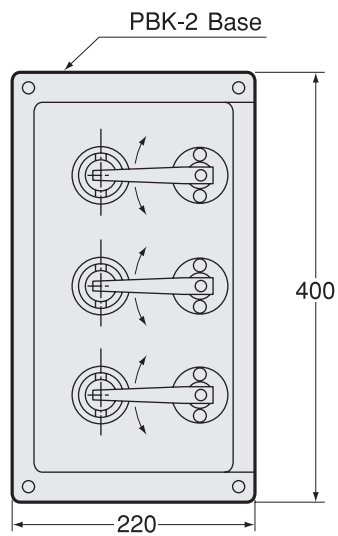
Simple Setter For STC

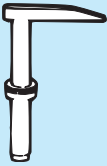
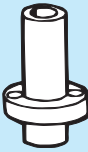


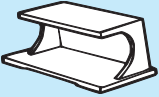


## SPK1



## SPK2



Gauge	Gauge stand	Holder support	Base	
				
PG-1	PS-○	PH-STC○	PBK-1○	PBK-2○

### Ordering Example

**SPK1 - STC1 - 77**

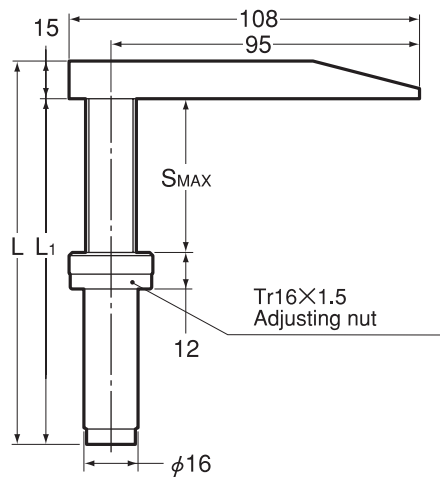
Base PBK-1    Holder Support    Gauge stand height L1

### Code

**0090 13 1 01 077**

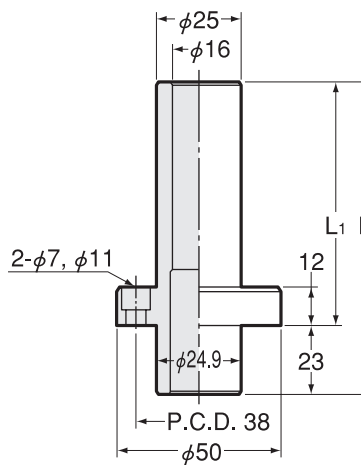
Base PBK-1    Holder Support    Gauge stand height L1

**PG  
Guage**



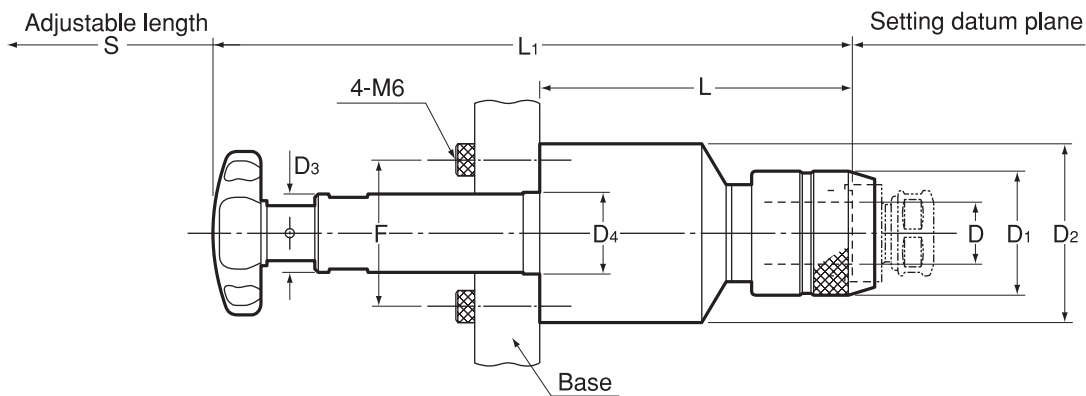
Code	Model	L	L1	SMAX	kg
0091 06000001	<b>PG-1</b>	128	113	50	0.4

**PS  
Guage stand**



Code	Model	L	L1
0091 01000001	<b>PS -1</b>	100	77
0091 01000002	<b>PS -2</b>	150	127
0091 01000003	<b>PS -3</b>	200	177
0091 01000004	<b>PS -4</b>	250	227
0091 01000005	<b>PS -5</b>	300	277

**Holder support PH-STC**

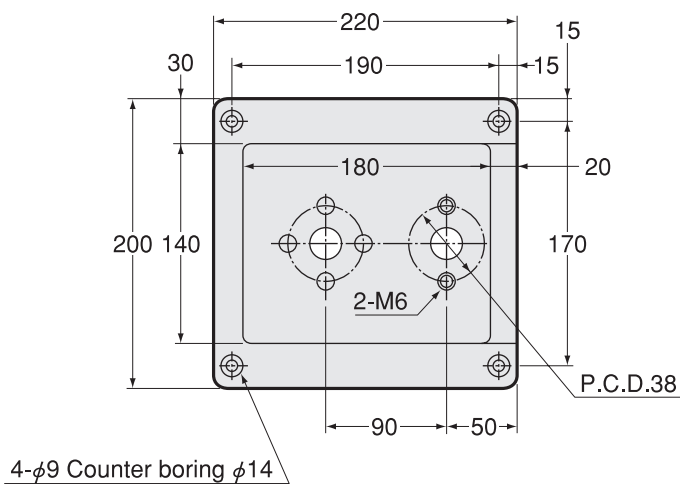


Code	Model	D	D1	D2	D3	D4	L	L1	F	S	kg
0091 14000001	<b>PH -STC1</b>	19	38	55	24	25	98	200.5	45	45	1.5
0091 14000002	<b>PH -STC2</b>	31	55	55	24	25	118	220.5	45	45	1.9

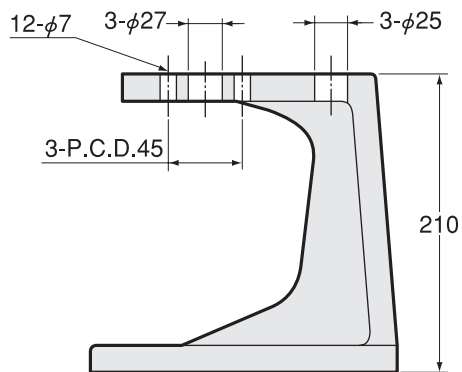
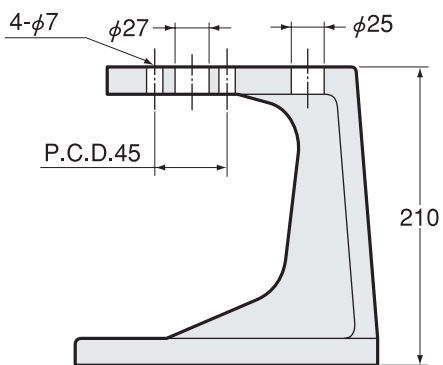
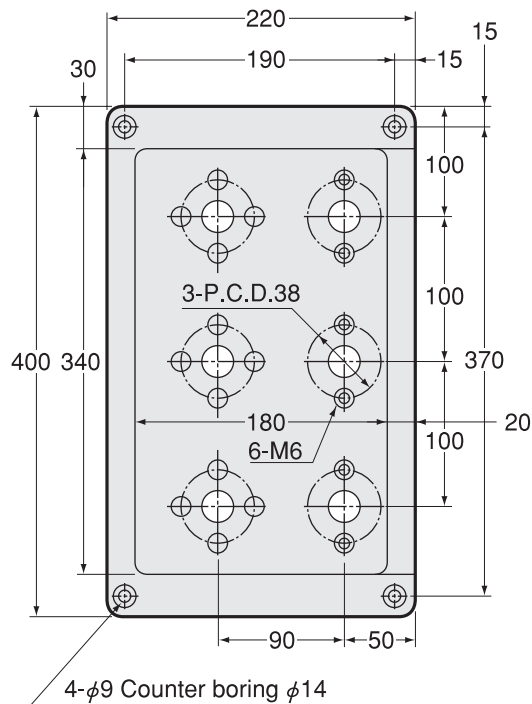


Base PBK

TYPE1



TYPE2



Code	Model	Type	Holder support	Gauge stand
0091 07100145	<b>PBK -1-45</b>	1	PH-STC1, PH-STC2	PS-1 ~ PS-5
0091 07100245	<b>PBK -2-45</b>	2	PH-STC1, PH-STC2	PS-1 ~ PS-5

BT

CAT

AHO

HSK-A/E/F/C

HSK-T

UTS

Specialized Machine

Related Equipment

Bush & Chamfering Drill

Spanner Head Torque Wrench

Shrink Fit System

Digital measuring equipment reference position

Tool Presetter

HSK Clamper

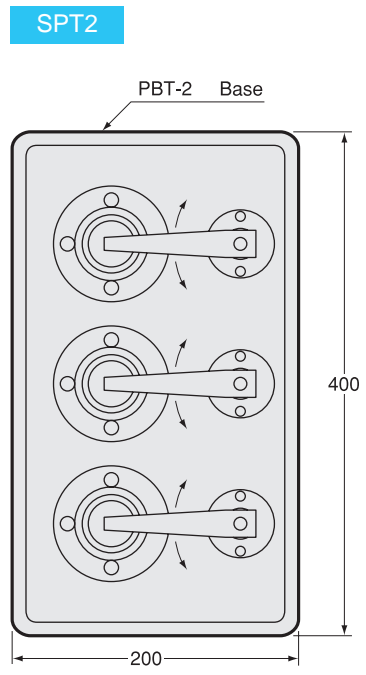
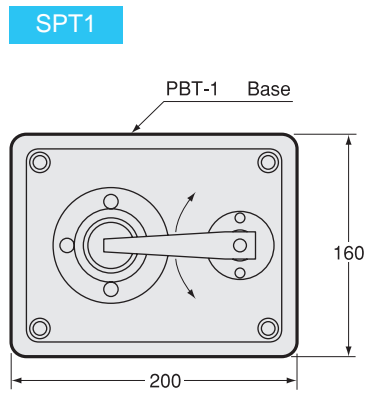
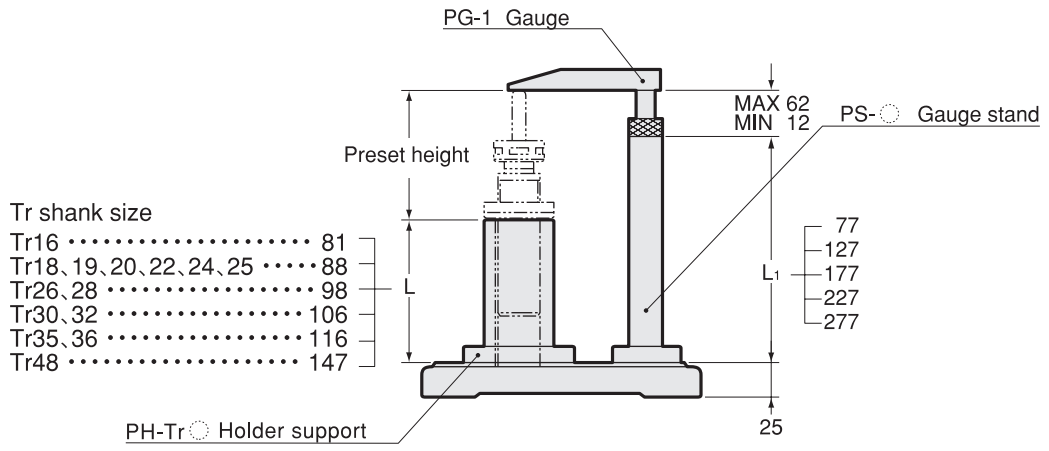
"R" Zero Setter

Simple Setter

# SPT

Simple Setter For Tr Shank

- BT
- CAT
- AHO
- HSK-A/E/F/C
- HSK-T
- UTS
- Specialized Machine
- Related Equipment
- Bush & Chamfering Drill
- Spanner Head Torque Wrench
- Shrink Fit System
- Digital measuring equipment reference position
- Tool Presetter
- HSK Clamper
- "R" Zero Setter
- Simple Setter



Gauge	Gauge stand	Holder support	Base
PG-1	PS-○	PH-Tr○	PBT-1○ PBT-2○

Ordering Example

**SPT1 - Tr16X5 - 77**

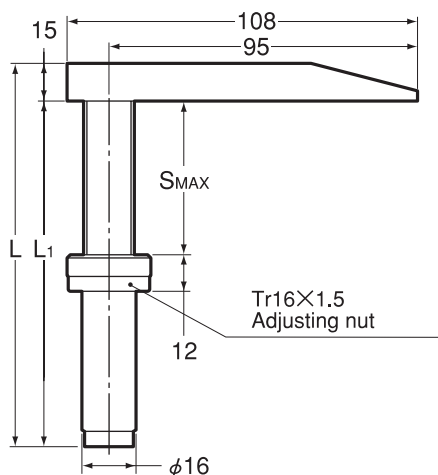
Base PBT-1    Holder Support    Gauge stand height L1

Code

**0090 4 1 16 5 077**

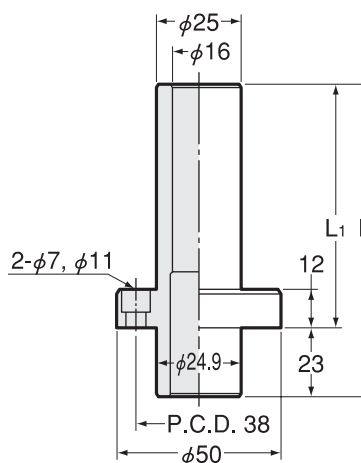
Base PBT-1    Tr-16    Gauge stand height L1  
 Key width 5

Guage PG



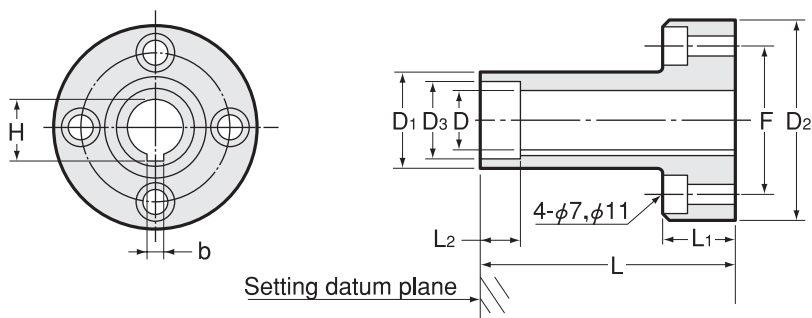
Code	Model	L	L1	SMAX	kg
0091 06000001	<b>PG-1</b>	128	113	50	0.4

Guage stand PS



Code	Model	L	L1
0091 01000001	<b>PS -1</b>	100	77
0091 01000002	<b>PS -2</b>	150	127
0091 01000003	<b>PS -3</b>	200	177
0091 01000004	<b>PS -4</b>	250	227
0091 01000005	<b>PS -5</b>	300	277

Holder support PH-Tr

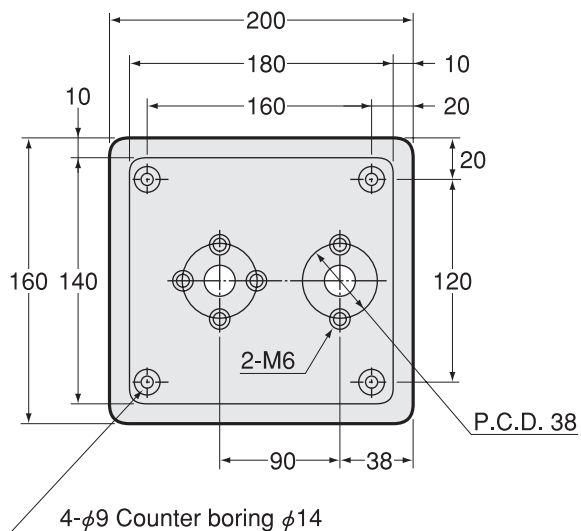


※ PH-Tr22x5 have Tr nut type and SSMA nut type respectively. Please specify when you place an order.

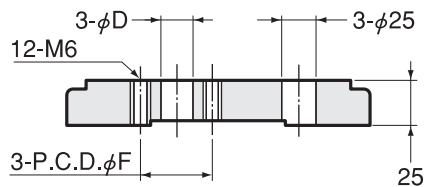
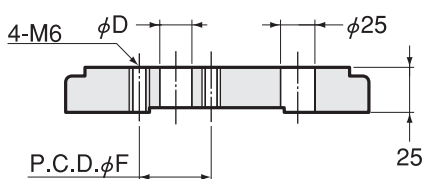
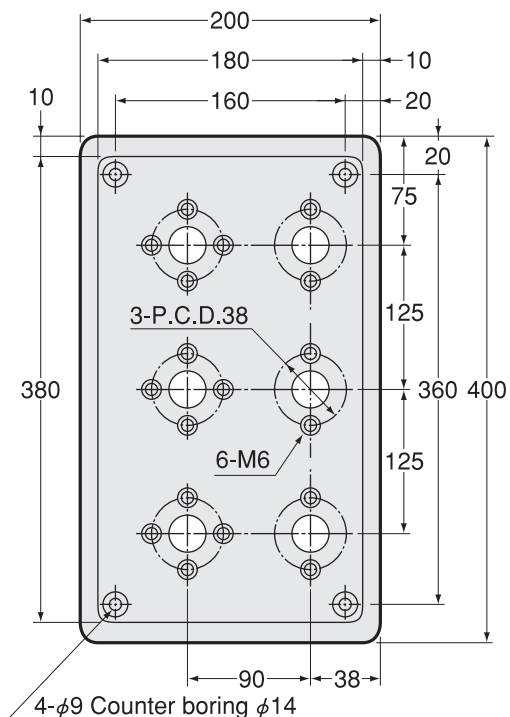
Code	Model	D	D1	D2	D3	L	L1	L2	F	b	H
0091 05000163	<b>PH -Tr16x3</b>	16	24	50	20.5	81	20	10.5	36	3	17.5
0091 05000164	<b>PH -Tr16x4</b>	16	24	50	20.5	81	20	10.5	36	4	17.7
0091 05000165	<b>PH -Tr16x5</b>	16	24	50	20.5	81	20	10.5	36	5	17.5
0091 05000184	<b>PH -Tr18x4</b>	18	32	60	22.5	88	20	12	45	4	20
0091 05000195	<b>PH -Tr19x5</b>	19	32	60	26	88	20	12	45	5	21.5
0091 05000205	<b>PH -Tr20x5</b>	20	32	60	26	88	20	13	45	5	22.5
0091 05000225	<b>PH -Tr22x5</b>	22	33	60	(29.5)	88	20	13	45	5	24.5
0091 05000245	<b>PH -Tr24x5</b>	24	38	65	32.5	88	20	13	51	5	26.5
0091 05000256	<b>PH -Tr25x6</b>	25	38	65	32.5	88	20	13	51	6	27
0091 05000265	<b>PH -Tr26x5</b>	26	39	65	34.5	98	20	13	51	5	28.5
0091 05000267	<b>PH -Tr26x7</b>	26	39	65	34.5	98	20	13	51	7	29.5
0091 05000285	<b>PH -Tr28x5</b>	28	39	65	34.5	98	20	13	51	5	30.5
0091 05000286	<b>PH -Tr28x6</b>	28	39	65	34.5	98	20	13	51	6	30
0091 05000307	<b>PH -Tr30x7</b>	30	50	76	44	106	20	17	62	7	33.5
0091 05000326	<b>PH -Tr32x6</b>	32	50	76	38.5	106	20	14.5	62	6	35
0091 05000328	<b>PH -Tr32x8</b>	32	50	76	38.5	106	20	14.5	62	8	34
0091 05000356	<b>PH -Tr35x6</b>	35	50	76	44	116	20	17	62	6	37
0091 05000357	<b>PH -Tr35x7</b>	35	50	76	44	116	20	17	62	7	38.5
0091 05000368	<b>PH -Tr36x8</b>	36	50	76	44	116	20	17	62	8	38
0091 05003610	<b>PH -Tr36x10</b>	36	50	76	44	116	20	17	62	10	40
0091 05000487	<b>PH -Tr48x7</b>	48	67	100	58.5	147	20	21	83	7	51.5
0091 05000488	<b>PH -Tr48x8</b>	48	67	100	58.5	147	20	21	83	8	50.5
0091 05004810	<b>PH -Tr48x10</b>	48	67	100	58.5	147	20	21	83	10	50.5
0091 05004812	<b>PH -Tr48x12</b>	48	67	100	58.5	147	20	21	83	12	52

Base PBT

TYPE1



TYPE2



Code	Model	Type	φ F	φ D	Holder support	Gauge stand
0091 07200136	PBT -1-36	1	36	17	PH-Tr16	PS-1 ~ PS-5
0091 07200236	PBT -2-36	2	36	17	PH-Tr16	PS-1 ~ PS-5
0091 07200145	PBT -1-45	1	45	23	PH-Tr18 ~ 22	PS-1 ~ PS-5
0091 07200245	PBT -2-45	2	45	23	PH-Tr18 ~ 22	PS-1 ~ PS-5
0091 07200151	PBT -1-51	1	51	31	PH-Tr24 ~ 28	PS-1 ~ PS-5
0091 07200251	PBT -2-51	2	51	31	PH-Tr24 ~ 28	PS-1 ~ PS-5
0091 07200162	PBT -1-62	1	62	37	PH-Tr30 ~ 36	PS-1 ~ PS-5
0091 07200262	PBT -2-62	2	62	37	PH-Tr30 ~ 36	PS-1 ~ PS-5
0091 07200183	PBT -1-83	1	83	56	PH-Tr48	PS-1 ~ PS-5
0091 07200283	PBT -2-83	2	83	56	PH-Tr48	PS-1 ~ PS-5