GENERAL HAND TOOLS & CLAMPS

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Socket wrenches
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Ratchet wrenches
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Offset wrenches
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Grips
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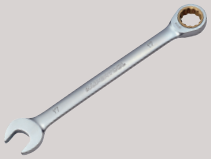

Gear wrenches
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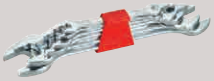

Open-end spanners
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S8000DX

TOOL SET (Deluxe Set) for Professional Use

▶ Features

- Deluxe tool set suitable for maintenance of machinery, automobiles and farming machines.
- All individual pieces are set in trays.

Square drive 9.5 mm 3/8"

Item No.	Total Q'ty (pcs)	Set N.W. (kg)
S8000DX	70	18.7

Set details — Total Q'ty: 70pcs

Item name	Item No.	Size (mm)	Q'ty
Socket (9.5sq.) 6pt.	**NHS3 (18pcs)**	6·7·8·9·10·11·12	18
Socket (9.5sq.) 12pt.		13·14·15·16·17·18·19·20·21·22·24	
Ratchet handle (push type)	**NRH3P**	9.5sq. (L=181)	1
Extension bar	**NEB3075**	9.5sq. (L=75)	1
	NEB3150	9.5sq. (L=150)	1
	NEB3250	9.5sq. (L=250)	1
Nut spinner handle	**NSH3**	9.5sq. (L=253)	1
T-Slide handle	**NTH3**	9.5sq. (L=165)	1
Universal joint	**NUJ3**	9.5sq. (L=53)	1
Gear wrench (standard type)	**GRW (10sizes)**	8·10·12·13·14·17·19·21·22·24	10
Double offset box end wrench	**S4506N**	8×10·11×13·12×14·17×19·19×22·24×27	6

Item name	Item No.	Size (mm)	Q'ty
Double open end spanner	**SX60J**	6×7·8×10·11×13·12×14·17×19·22×24	6
Screwdriver	**SD06S**	⊖75·⊖100·⊖150 ⊕No.1·⊕No.2·⊕No.3	6
Wide adjustable wrench	**MWM36**	36	1
Combination pliers	**CPZ200**	200	1
Water pump pliers	**GWZ250H**	250	1
Side cutting pliers	**SZ175S**	175	1
Long nose pliers	**SL150S**	150	1
Diagonal cutting pliers	**SN150SS**	150	1
Long ball-point hex key wrench	**HKLB9S**	1.5·2·2.5·3·4·5·6·8·10	9
Combination hammer	**HM7410**	1pound	1
Tool case (chest type)	**S505R**	505×233×300	1

S7000DX

TOOL SET (Deluxe Set) for Professional Use

▶ Features

- Deluxe tool set suitable for maintenance of machinery, automobiles and farming machines.
- All individual pieces are set in trays.

Square drive 12.7 mm 1/2"

Item No.	Total Q'ty (pcs)	Set N.W. (kg)
S7000DX	62	19.7

Set details — Total Q'ty: 62pcs

Item name	Item No.	Size (mm)	Q'ty
Socket (12.7sq.) 12Pt.	**NHS4 (13pcs)**	10·12·13·14·17·19·21·22·24·26·27·30·32	13
Ratchet handle (push type)	**NRH4P**	12.7sq. (L=257)	1
Extension bar	**NEB4150**	12.7sq. (L=150)	1
Nut spinner handle	**NSH4**	12.7sq. (L=306)	1
T-Slide handle	**NTH4**	12.7sq. (L=250)	1
Gear wrench (standard type)	**GRW (10sizes)**	8·10·12·13·14·17·19·21·22·24	10
Double offset box end wrench	**S4506N**	8×10·11×13·12×14·17×19·19×22·24×27	6
Double open end spanner	**SX60J**	6×7·8×10·11×13·12×14·17×19·22×24	6

Item name	Item No.	Size (mm)	Q'ty
Screwdriver	**SD06S**	⊖75·⊖100·⊖150 ⊕No.1·⊕No.2·⊕No.3	6
Wide adjustable wrench	**MWM36**	36	1
Combination pliers	**CPZ200**	200	1
Water pump pliers	**GWZ250H**	250	1
Side cutting pliers	**SZ175S**	175	1
Long nose pliers	**SL150S**	150	1
Diagonal cutting pliers	**SN150SS**	150	1
Long ball-point hex key wrench	**HKLB9S**	1.5·2·2.5·3·4·5·6·8·10	9
Combination hammer	**HM7410**	1pound	1
Tool case (chest type)	**S505B**	505×233×300	1

●For all the appendix of the general hand tools & clamps, please refer to P.278～280

Square drive 12.7 mm 1/2"

Total Q'ty:52pcs

S7000DS

TOOL SET (Deluxe Set) for Professional Use

▶ Features

- Tool set suitable for maintenance of machinery, automobiles and farming machines.
- All individual pieces are set in trays.

Item No.	Total Q'ty(pcs)	Set N.W.(kg)
S7000DS	52	15.3

Set details

Item name	Item No.	Size(mm)	Q'ty
Socket(12.7sq.)12pt.	**NHS4 (14pcs)**	8·10·12·13·14·17·19·21·22·24·26·27·30·32	14
Ratchet handle (push type)	**NRH4P**	12.7sq.(L=257)	1
Nut spinner handle	**NSH4**	12.7sq.(L=306)	1
Extension bar	**NEB4150**	12.7sq.(L=150)	1
Double offset box end wrench	**S4506N**	8×10·11×13·12×14·17×19·19×22·24×27	6
Double open end spanner	**SX60J**	6×7·8×10·11×13·12×14·17×19·22×24	6
Screwdriver	**SD06S**	⊖75·⊖100·⊖150 ⊕No.1·⊕No.2·⊕No.3	6

Item name	Item No.	Size(mm)	Q'ty
Adjustable angle wrench (heavy duty type)	**MAN300**	300	1
Combination pliers	**CPZ200**	200	1
Water pump pliers	**GWP250**	250	1
Side cutting pliers	**SZ175S**	175	1
Long nose pliers	**SL150S**	150	1
Diagonal cutting pliers	**SN150SS**	150	1
Long ball-point hex key wrench	**HKLB9S**	1.5·2·2.5·3·4·5·6·8·10	9
Combination hammer	**HM7410**	1pound	1
Tool case	**S496B**	496×222×240	1

Square drive 12.7 mm 1/2"

Total Q'ty:48pcs

S6500N

TOOL SET (Standard set) for Professional Use

▶ Features

- Standard tool set suitable for maintenance of machinery, automobiles and farming machines.
- The tool case material is resin.

Item No.	Total Q'ty(pcs)	Set N.W.(kg)
S6500N	48	8.4

Set details

Item name	Item No.	Size(mm)	Q'ty
Socket(12.7sq.)12pt.	**NHS4 (11pcs)**	10·12·13·14·17·19·21·22·24·26·27	11
Combination spanner	**CBW1100**	7·8·10·12·13·14·17·19·21·22·24(cloth bag)	11
Screwdriver	**SD06S**	⊖75·⊖100·⊖150 ⊕No.1·⊕No.2·⊕No.3	6
Long ball-point hex key wrench	**HKLB9S**	1.5·2·2.5·3·4·5·6·8·10	9
Ratchet handle (push type)	**NRH4P**	12.7sq.(L=257)	1
Extension bar	**NEB4150**	12.7sq.(L=150)	1

Item name	Item No.	Size(mm)	Q'ty
Wide adjustable wrench	**MWM36**	36	1
Combination pliers	**CPZ200**	200	1
Water pump pliers	**GWP250**	250	1
Side cutting pliers	**SZ175S**	175	1
Long nose pliers	**SL150S**	150	1
Diagonal cutting pliers	**SN150SS**	150	1
Combination hammer	**HM7410**	1pound	1
Cotton work gloves	—	1pair	1
Tool case	**SR450S**	455×240×206	1

Tool sets / cases
Socket wrenches
Ratchet wrenches
Offset wrenches, grips
Gear wrenches, open-end spanners
Spanners
Safety ropes
Combination hammer
Sockets
Hex key wrenches
Adjustable angle wrenches
Pliers
Hook spanners, pin spanners
Toggle clamps
C clamps
L clamps
Super setters
Grip pliers
Welding tools
Iron man

●For all the appendix of the general hand tools & clamps, please refer to P.278～280

Square drive 12.7 mm 1/2"

S5000DS

DOUBLE LID TOOL SET (3-Layer Type) for Professional Use (Deluxe Type)

▶ Features

- Tool set suitable for maintenance of machinery, automobiles and farming machines.
- All individual pieces are set in sponge cushions.
- The tool case opens widely, making it easy to take and replace tools.

Item No.	Total Q'ty (pcs)	Set N.W. (kg)
S5000DS	53	14.6

■Set details　Total Q'ty:53pcs

Item name	Item No.	Size (mm)	Q'ty
Socket (12.7sq.) 12pt.	**NHS4 (14pcs)**	8·10·12·13·14·17·19·21·22·24·26·27·30·32	14
Ratchet handle (push type)	**NRH4P**	12.7sq. (L=257)	1
Nut spinner handle	**NSH4**	12.7sq. (L=306)	1
Extension bar	**NEB4150**	12.7sq. (L=150)	1
Universal joint	**NUJ4**	12.7sq. (L=73)	1
Double offset box end wrench	**S4506N**	8×10·11×13·12×14·17×19·19×22·24×27	6
Double open end spanner	**SX60J**	6×7·8×10·11×13·12×14·17×19·22×24	6
Screwdriver	**SD06S**	⊖75·⊖100·⊖150 ⊕No.1·⊕No.2·⊕No.3	6
Adjustable angle wrench (heavy duty type)	**MAN300**	300	1
Combination pliers	**CPZ200**	200	1
Water pump pliers	**GWP250**	250	1
Side cutting pliers	**SZ175S**	175	1
Long nose pliers	**SL150S**	150	1
Diagonal cutting pliers	**SN150SS**	150	1
Long ball-point hex key wrench	**HKLB9S**	1.5·2·2.5·3·4·5·6·8·10	9
Combination hammer	**HM7410**	1pound	1
Tool case	**S470B3**	470×220×345	1

Square drive 12.7 mm 1/2"

S5000DX

DOUBLE LID TOOL SET (3-Layer Type) for Professional Use (Deluxe Type)

▶ Features

- Tool set suitable for maintenance of machinery, automobiles and farming machines.
- Except the gear wrenches set inside a cloth bag, all individual pieces are set in sponge cushions.
- The tool case opens widely, making it easy to take and replace tools.

Item No.	Total Q'ty (pcs)	Set N.W. (kg)
S5000DX	63	16.7

■Set details　Total Q'ty:63pcs

Item name	Item No.	Size (mm)	Q'ty
Socket (12.7sq.) 12pt.	**NHS4 (14pcs)**	8·10·12·13·14·17·19·21·22·24·26·27·30·32	14
Ratchet handle (push type)	**NRH4P**	12.7sq. (L=257)	1
Nut spinner handle	**NSH4**	12.7sq. (L=306)	1
Extension bar	**NEB4150**	12.7sq. (L=150)	1
Universal joint	**NUJ4**	12.7sq. (L=73)	1
Gear wrench (standard type)	**GRW (10Sizes)**	8·10·12·13·14·17·19·21·22·24	10
Double offset box end wrench	**S4506N**	8×10·11×13·12×14·17×19·19×22·24×27	6
Double open end spanner	**SX60J**	6×7·8×10·11×13·12×14·17×19·22×24	6
Screwdriver	**SD06S**	⊖75·⊖100·⊖150 ⊕No.1·⊕No.2·⊕No.3	6
Adjustable angle wrench (heavy duty type)	**MAN300**	300	1
Combination pliers	**CPZ200**	200	1
Water pump pliers	**GWP250**	250	1
Side cutting pliers	**SZ175S**	175	1
Long nose pliers	**SL150S**	150	1
Diagonal cutting pliers	**SN150SS**	150	1
Long ball-point hex key wrench	**HKLB9S**	1.5·2·2.5·3·4·5·6·8·10	9
Combination hammer	**HM7410**	1pound	1
Tool case	**S470B3**	470×220×345	1

●For all the appendix of the general hand tools & clamps, please refer to P.278～280

Square drive 12.7 mm 1/2"

Total Q'ty: 47pcs

S5000S

DOUBLE LID TOOL SET (2-Layer Type) for Professional Use (Standard Type)

▶ Feature

- Standard tool set suitable for maintenance of machinery, automobiles and farming machines.

Item No.	Total Q'ty (pcs)	Set N.W. (kg)
S5000S	47	11.6

Set details

Item name	Item No.	Size (mm)	Q'ty
Socket (12.7sq.) 12pt.	**NHS4 (11pcs)**	10·12·13·14·17·19·21·22·24·26·27	11
Ratchet handle (push type)	**NRH4P**	12.7sq. (L=257)	1
Extension bar	**NEB4150**	12.7sq. (L=150)	1
Double offset box end wrench	**S4506N**	8×10·11×13·12×14·17×19·19×22·24×27	6
Double open end spanner	**SX60J**	6×7·8×10·11×13·12×14·17×19·22×24	6
Screwdriver	**SD06S**	⊖75·⊖100·⊖150 ⊕No.1·⊕No.2·⊕No.3	6

Item name	Item No.	Size (mm)	Q'ty
Adjustable angle wrench (heavy duty type)	**MAN300**	300	1
Combination pliers	**CPZ200**	200	1
Water pump pliers	**GWP250**	250	1
Side cutting pliers	**SZ175S**	175	1
Diagonal cutting pliers	**SN150SS**	150	1
Long ball-point hex key wrench	**HKLB9S**	1.5·2·2.5·3·4·5·6·8·10	9
Combination hammer	**HM7410**	1pound	1
Tool case	**S470B2**	470×220×300	1

S470B3

DOUBLE LID METAL TOOL CASE (3-Layer Type)

▶ Features

- 3 layers, double opening lid type.
- Wide opening making it easy to take and replace tools.

▶ Accessories

- Dividers : 14 sheets

＊No sponge cushions to set tools are included.

Item No.	Color	Size (mm)	N.W. (kg)
S470B3	Matte black	470×220×230	6.1

Height including the handle : 345mm

S470B2

DOUBLE LID METAL TOOL CASE (2-Layer Type)

▶ Feature

- 2 layers, double opening lid type.

▶ Accessories

- Dividers : 14 sheets

＊No sponge cushions to set tools are included.

Item No.	Color	Size (mm)	N.W. (kg)
S470B2	Matte black	470×220×185	4.8

Height including the handle : 300mm

●For all the appendix of the general hand tools & clamps, please refer to P.278～280

S505B

S505R

S505B • S505R

METAL TOOL CASE (Chest Type) (3-Drawer Type)

▶ Features

- Drawers are equipped with ball bearing sliders.
- Keep your valuable tools safely with the key lock feature.
- Outstanding durability due to high quality coat.

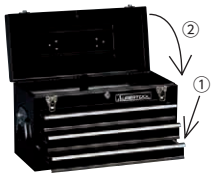
＊No trays to set tools are included.

Ball bearing sliders

Drawers are equipped with ball bearing sliders allowing smooth opening and closing.

Side handles

When the tool case gets heavy, you can conveniently carry it by the side handles.



Lock mechanism

Closing the top lid locks the drawers automatically, preventing accidental pop out of the tools.

Key lock, emblem

Keep your valuable tools safely with the key lock feature. With "SUPERTOOL" mark emblem.

Item No.	Color	Size(mm)	Upper tray / drawer size (mm)		N.W. (kg)
			Upper tray	Drawer	
S505B	Gloss black	505×233×300	490×220×60	435×200×50	9.4
S505R	Gloss red				

S496B

METAL TOOL CASE (Chest Type) (2-Drawer Type)

▶ Features

- Drawers are equipped with ball bearing sliders.
- Keep your valuable tools safely with the key lock feature.
- Outstanding durability due to high quality coat.

＊No trays to set tools are included.

Item No.	Color	Size(mm)	Upper tray / drawer size (mm)		N.W. (kg)
			Upper tray	Drawer	
S496B	Gloss black	496×222×240	477×210×60	466×191×50	7.6

SR450S

TOOL CASE (Super High Impact Resistant Copolymer Resin Made)

▶ Features

- The case is divided in 2, upper and lower, trays.
- For the upper tray, EVA resin to set tools is included.
- For the lower tray, small items, like screws, can be stored.

Item No.	Color	Size(mm)	N.W.(kg)
SR450S	Black	455×240×206	1.9

●For all the appendix of the general hand tools & clamps, please refer to P.278～280

Square drive 9.5 mm 3/8"

SOCKET WRENCH SET

N310S

▶ Feature ● Steel case as standard acc.

Set details

Item name	Item No.	Size(mm)
Socket(9.5sq.)6pt.	**NHS3 (10pcs)**	7.8.10.12
Socket(9.5sq.)12pt.		13.14.17.19.21.22
Ratchet handle (push type)	**NRH3P**	9.5sq.(L=181)
T-Slide handle	**NTH3**	9.5sq.(L=165)
Universal joint	**NUJ3**	9.5sq.(L=53)
Extension bar	**NEB3075**	9.5sq.(L=75)
	NEB3150	9.5sq.(L=150)

Item No.	Q'ty	Metal tool case size (mm)		Set N.W. (kg)
		L	H	
N310S	15	305	123	2

Square drive 9.5 mm 3/8"

N313S

▶ Feature ● Steel case as standard acc.

Set details

Item name	Item No.	Size(mm)
Socket(9.5sq.)6pt.	**NHS3 (13pcs)**	6.7.8.9.10.11.12
Socket(9.5sq.)12pt.		13.14.17.19.21.22
Ratchet handle (push type)	**NRH3P**	9.5sq.(L=181)
Nut spinner handle	**NSH3**	9.5sq.(L=253)
T-Slide handle	**NTH3**	9.5sq.(L=165)
Universal joint	**NUJ3**	9.5sq.(L=53)
Extension bar	**NEB3075**	9.5sq.(L=75)
	NEB3150	9.5sq.(L=150)

Item No.	Q'ty	Metal tool case size (mm)		Set N.W. (kg)
		L	H	
N313S	19	305	123	2.4

Square drive 9.5 mm 3/8"

N318S

▶ Feature ● Steel case as standard acc.

Set details

Item name	Item No.	Size(mm)
Socket(9.5sq.)6pt.	**NHS3 (18pcs)**	6.7.8.9.10.11.12
Socket(9.5sq.)12pt.		13.14.15.16.17.18.19.20.21.22.24
Ratchet handle (push type)	**NRH3P**	9.5sq.(L=181)
Nut spinner handle	**NSH3**	9.5sq.(L=253)
T-Slide handle	**NTH3**	9.5sq.(L=165)
Universal joint	**NUJ3**	9.5sq.(L=53)
Extension bar	**NEB3075**	9.5sq.(L=75)
	NEB3150	9.5sq.(L=150)
	NEB3250	9.5sq.(L=250)

Item No.	Q'ty	Metal tool case size (mm)		Set N.W. (kg)
		L	H	
N318S	25	305	123	2.7

●For all the appendix of the general hand tools & clamps, please refer to P.278~280

N-S
SOCKET WRENCH SET

▶ Feature
- Steel case as standard acc.

Square drive 12.7 mm 1/2"

N412S Set details

Item name	Item No.	Size(mm)
Socket(12.7sq.)12pt.	**NHS4 (12pcs)**	8.10.11.12.13.14.17.19. 21.22.24.27
Ratchet handle (push type)	**NRH4P**	12.7sq.(L=257)
T-Slide handle	**NTH4**	12.7sq.(L=250)
Universal joint	**NUJ4**	12.7sq.(L=73)
Extension bar	**NEB4150**	12.7sq.(L=150)

N415S Set details

Item name	Item No.	Size(mm)
Socket(12.7sq.)12pt.	**NHS4 (15pcs)**	8.10.11.12.13.14.17.19. 21.22.24.26.27.30.32
Ratchet handle (push type)	**NRH4P**	12.7sq.(L=257)
Nut spinner handle	**NSH4**	12.7sq.(L=306)
T-Slide handle	**NTH4**	12.7sq.(L=250)
Universal joint	**NUJ4**	12.7sq.(L=73)
Extension bar	**NEB4075**	12.7sq.(L=75)
	NEB4150	12.7sq.(L=150)

N420S Set details

Item name	Item No.	Size(mm)
Socket(12.7sq.)12pt.	**NHS4 (20pcs)**	8.9.10.11.12.13.14.15. 16.17.18.19.21.22.23. 24.26.27.30.32
Ratchet handle (push type)	**NRH4P**	12.7sq.(L=257)
Nut spinner handle	**NSH4**	12.7sq.(L=306)
T-Slide handle	**NTH4**	12.7sq.(L=250)
Universal joint	**NUJ4**	12.7sq.(L=73)
Extension bar	**NEB4075**	12.7sq.(L=75)
	NEB4150	12.7sq.(L=150)

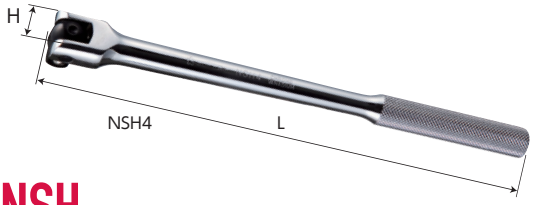
Item No.	Q'ty	Metal tool case size (mm)		Set N.W. (kg)
		L	H	
N412S	16	447	150	3.35
N415S	21			4.55
N420S	26			4.9

Square drive 9.5 mm 3/8"
Square drive 12.7 mm 1/2"

NRH-P
RATCHET HANDLE (Push Type)

▶ Features
- When the socket is put on, unintended socket detachment can be avoided.
- One-touch setting by pressing the push button.
- Suitable for work in confined spaces with a number of gear of 72 and feed angle of 5°.

Item No.	Square drive (mm)	Size(mm)		Head thickness (mm)	N.W. (g)
		L	D		
NRH3P	9.5	181	32	18	330
NRH4P	12.7	257	40	21	640



Square drive 9.5 mm 3/8"
Square drive 12.7 mm 1/2"

NSH
NUT SPINNER HANDLE

▶ Feature
- The head turns 90° to left & right to be used in 180° range.

Item No.	Square drive (mm)	Size(mm)		Head thickness (mm)	N.W. (g)
		L	H		
NSH3	9.5	253	22	16	320
NSH4	12.7	306	28	20	580

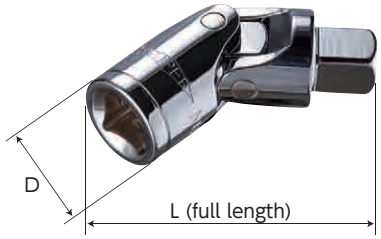
●For all the appendix of the general hand tools & clamps, please refer to P.278～280

NEB3250

NEB
EXTENSION BAR

Square drive 9.5 mm 3/8" | Square drive 12.7 mm 1/2"

Item No.	Square drive (mm)	Size (mm)		N.W. (g)
		L	D	
NEB3075	9.5	75	12	70
NEB3150	9.5	150	12	140
NEB3250	9.5	250	12	230
NEB4075	12.7	75	23	120
NEB4150	12.7	150	23	230

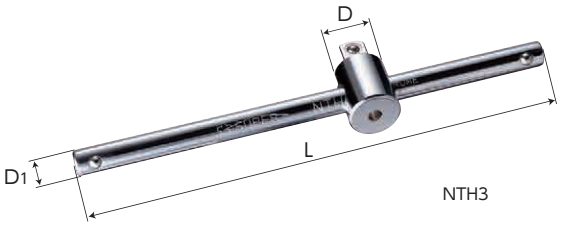


NUJ4

NUJ
UNIVERSAL JOINT

Square drive 9.5 mm 3/8" | Square drive 12.7 mm 1/2"

Item No.	Square drive (mm)	Size (mm)		N.W. (g)
		L	D	
NUJ3	9.5	56	18	60
NUJ4	12.7	73	25	150



NTH3

NTH
T-SHAPED SLIDING HANDLE

Square drive 9.5 mm 3/8" | Square drive 12.7 mm 1/2"

Item No.	Square drive (mm)	Size (mm)			N.W. (g)
		L	D	D1	
NTH3	9.5	164	18.5	9.2	120
NTH4	12.7	250	23.7	12.8	330

NHS310

NHS
SOCKET for Socket Wrench

Square drive 9.5 mm 3/8" | Square drive 12.7 mm 1/2"

■NHS306～324 Square drive 9.5mm (3/8")

Item No.	Width across flats (mm)	Size (mm)			Socket shape	N.W. (g)
		L	D	D1		
NHS306	6	28	10	17	6pt.	20
NHS307	7	28	11	17	6pt.	20
NHS308	8	28	12	17	6pt.	20
NHS309	9	28	13.5	17	6pt.	25
NHS310	10	28	14.5	17	6pt.	25
NHS311	11	28	16	17	6pt.	25
NHS312	12	28	17	17	6pt.	25
NHS313	13	28	18	18	12pt.	30
NHS314	14	28	20	18	12pt.	30
NHS315	15	28	22	19	12pt.	35
NHS316	16	28	22	19	12pt.	35
NHS317	17	30	24	21	12pt.	50
NHS318	18	30	26	22	12pt.	55
NHS319	19	30	26	22	12pt.	55
NHS320	20	32	28	26	12pt.	75
NHS321	21	32	28	26	12pt.	75
NHS322	22	32	30	26	12pt.	80
NHS324	24	32	32	28	12pt.	85

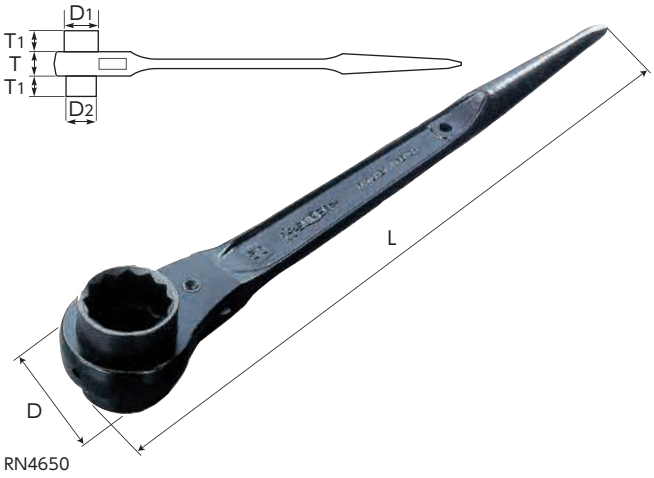
■NHS408～432 Square drive 12.7mm (1/2")

Item No.	Width across flats (mm)	Size (mm)			Socket shape	N.W. (g)
		L	D	D1		
NHS408	8	38	14	22	12pt.	45
NHS409	9	38	14.5	22	12pt.	45
NHS410	10	38	15.5	22	12pt.	45
NHS411	11	38	16.5	22	12pt.	45
NHS412	12	38	18	22	12pt.	50
NHS413	13	38	19	22	12pt.	50
NHS414	14	38	20.5	22	12pt.	50
NHS415	15	38	22	20.5	12pt.	50
NHS416	16	38	22	20.5	12pt.	50
NHS417	17	38	24	22	12pt.	60
NHS418	18	38	26	23	12pt.	80
NHS419	19	38	26	23	12pt.	65
NHS421	21	38	28	24.5	12pt.	70
NHS422	22	38	29.5	26	12pt.	90
NHS423	23	38	32	26	12pt.	105
NHS424	24	38	32	26	12pt.	100
NHS426	26	41	35.5	28	12pt.	135
NHS427	27	43	35.5	30	12pt.	135
NHS430	30	44	40	32	12pt.	185
NHS432	32	44	42	34	12pt.	195

Tool sets / cases
Socket wrenches
Ratchet wrenches
Offset wrenches, grips
Gear wrenches, open-end spanners
Spanners
Safety ropes
Combination hammer
Sockets
Hex key wrenches
Adjustable angle wrenches
Pliers
Hook spanners, pin spanners
Toggle clamps
C clamps
L clamps
Super setters
Grip pliers
Welding tools
Iron man

●For all the appendix of the general hand tools & clamps, please refer to P.278～280

Tool sets / cases
Socket wrenches
Ratchet wrenches
Offset wrenches, grips
Gear wrenches, open-end spanners
Spanners
Safety ropes
Combination hammer
Sockets
Hex key wrenches
Adjustable angle wrenches
Pliers
Hook spanners, pin spanners
Toggle clamps
C clamps
L clamps
Super setters
Grip pliers
Welding tools
Iron man



RN4650

RN
RATCHET WRENCH, Double Size

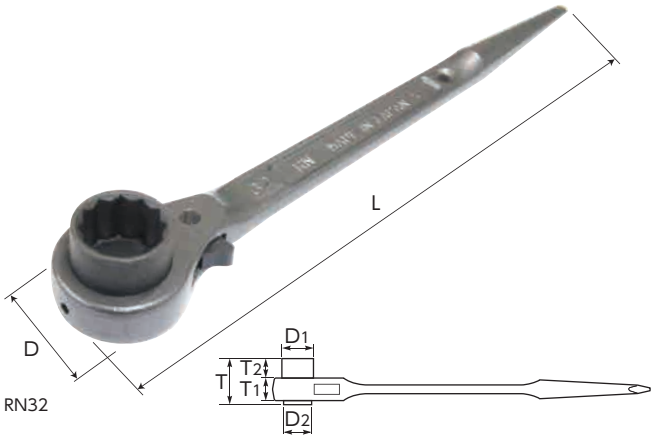
Cation paint (Excellent rust proofing)

▶ Features

- The opening of the socket for change over of the reversible type enables easy cleaning of sand and dirt, etc.
- Safety rope holes are provided on all sizes. (17x19･17x21 and 19x21 have 2 holes)

Item No.	Size name (mm)	Size (mm) L	D	D1	D2	T	T1	N.W. (g)
RN1012	10×12	225	28	18	15	14	11	160
RN1013	10×13	225	28	18	15	14	11	160
RN1014	10×14	225	28	19	15	14	11	160
RN1113	11×13	225	28	18	16	14	11	160
RN1214	12×14	225	28	19	18	14	11	160
RN1317	13×17	265	34	23	18	16	14.5	240
RN1319	13×19	310	41	26	18	18	16	400
RN1415	14×15	265	34	20	19	16	14.5	240
RN1417	14×17	265	34	23	19	16	14.5	240
RN1719	17×19	310	41	27	24	18	16	400
RN1721	17×21	310	41	29	24	18	16	400
RN1722	17×22	310	42	30	23	18	16	430
RN1921	19×21	310	41	29	27	18	16	400
RN1922	19×22	310	42	30	26	18	16	430
RN1924	19×24	355	49	33	26	20	18	680
RN2124	21×24	355	49	33	28	20	18	680
RN2126	21×26	355	49	36	28	20	18	680

Item No.	Size name (mm)	Size (mm) L	D	D1	D2	T	T1	N.W. (g)
RN2127	21×27	355	49	37	28	20	18	680
RN2224	22×24	355	49	33	30	20	18	680
RN2227	22×27	355	49	37	30	20	18	680
RN2326	23×26	355	49	36	31	20	18	680
RN2426	24×26	355	49	36	33	20	18	680
RN2427	24×27	355	49	37	33	20	18	680
RN2430	24×30	400	62	42	34	22	20.5	1,080
RN2632	26×32	400	62	44	36	22	20.5	1,080
RN2730	27×30	400	62	42	38	22	20.5	1,080
RN2732	27×32	400	62	44	38	22	20.5	1,080
RN3032	30×32	400	62	44	42	22	20.5	1,080
RN3235	32×35	445	67	47	43	24	21.5	1,400
RN3236	32×36	445	67	49	43	24	21.5	1,400
RN3541	35×41	490	76	55	47	26	24	2,050
RN3641	36×41	490	76	55	49	26	24	2,050
RN4146	41×46	500	83	61	55	29	23.5	2,500
RN4650	46×50	545	89	66	61	29	25.5	3,080

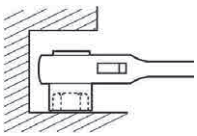


RN32

RN
RATCHET WRENCH, Single Size

▶ Features

- Reversible claw for use in clockwise or counter clockwise directions.
- This wrench is optimal for tightening in narrow spaces as the socket extends from only one side.
- Metallic grey baked-on finish.
- For sizes 19mm and above, a hole for attaching a safety rope is provided.



Item No.	Size name (mm)	Size (mm) L	D	D1	D2	T	T1	T2	N.W. (g)
RN10	10	225	28	15	18	26	14	10	170
RN12	12	225	28	18	18	26	14	10	180
RN13	13	225	28	18	18	26	14	10	180
RN14	14	225	28	19	18	26	14	10	180
RN17	17	270	34	23	19	32	16	14.5	300
RN19	19	310	41	26	26	36	18	16	380
RN21	21	310	41	28	26	36	18	16	460
RN22	22	310	42	30	26	36	18	16	480
RN24	24	355	49	33	35	40	20	18	650

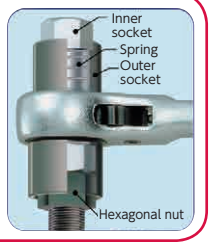
Item No.	Size name (mm)	Size (mm) L	D	D1	D2	T	T1	T2	N.W. (g)
RN26	26	355	49	35	35	40	20	18	680
RN27	27	355	51	36	32	40	20	18	710
RN30	30	400	62	41	41	44	22	20.5	1,100
RN32	32	400	62	43	41	44	22	20.5	1,150
RN35	35	445	67	47	43	47	24	21.5	1,250
RN36	36	445	67	49	43	47	24	21.5	1,250
RN41	41	490	76	55	49	52	26	24	1,850
RN46	46	500	83	61	55	54	29	24	2,250

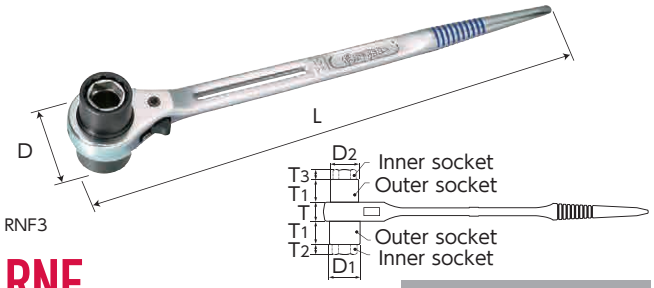
●For all the appendix of the general hand tools & clamps, please refer to P.278～280

4-SIZE RATCHET WRENCH
5-SIZE RATCHET WRENCH

4 sizes at 1 end !

- When the outer socket is used, the inner socket is pushed up easily, and after the use, the inner socket returns to the original position by spring.
- Suitable for plumbing work, duct work, electric facility work, building construction and work on any kind of facilities.





RNF

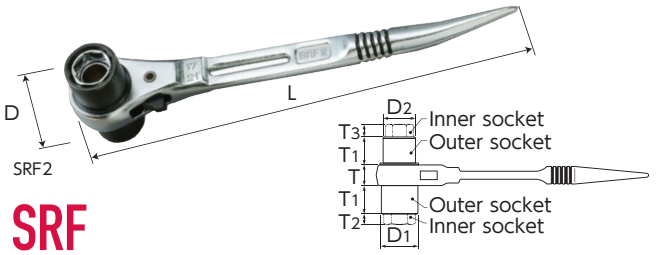
4-SIZE RATCHET WRENCH PAT.

MOVIE

▶ Features

- Convenient slide hole (60, 80mm) for our safety rope to be attached.
- Anti-slipping colored grooves are designed at the grip.
- Nickel chrome plate finish.

Item No.	Size name (mm)		Size (mm)								N.W. (g)
	Inner socket	Outer socket	L	D	D1	D2	T	T1	T2	T3	
RNF2	14 17	19 21	310	41	29	27	18	22	8.5	9.5	440
RNF3	17 19	21 24	310	41	32	28	18	25	9.5	11.5	450
RNF4	19 22	24 27	356	51	37	33	20	27	11.5	12.5	780



SRF

4-SIZE RATCHET WRENCH (Short Type) PAT.

MOVIE

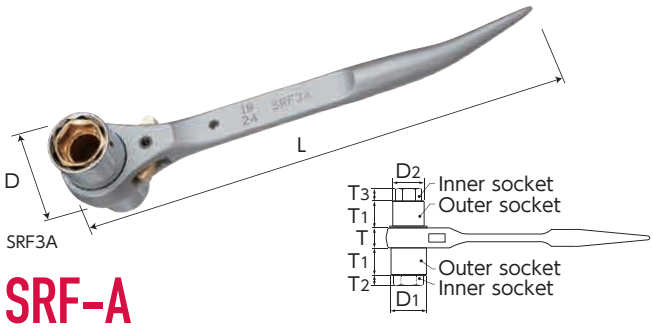
▶ Features

- Light-weighted and compact.
- Convenient slide hole for our safety rope to be attached.

∗ For SFR1, a small round hole is designed for our safety rope to be attached and the spear is straight, not bent.

- Nickel chrome plate finish.

Item No.	Size name (mm)		Size (mm)								N.W. (g)
	Inner socket	Outer socket	L	D	D1	D2	T	T1	T2	T3	
SRF1	10 13	14 17	198	36	23	19	16	22	6.5	7.5	290
SRF2	14 17	19 21	240	41	29	27	18	22	8.5	9.5	460
SRF3	17 19	21 24	240	41	32	28	18	25	9.5	11.5	470



SRF-A

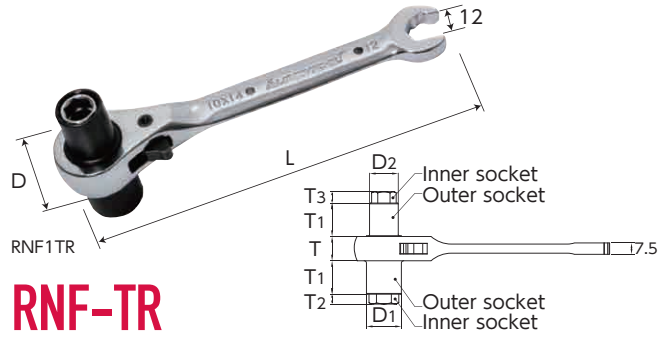
4-SIZE ALUMINUM RATCHET WRENCH (Short Type) PAT.

▶ Features

- Body : Aluminum ; Inner Socket : Titanium plate.
- Ultra light-weighted and compact.
- Small round hole for our safety rope to be attached.

∗ For SRF1A the spear is straight, not bent.

Item No.	Size name (mm)		Size (mm)								N.W. (g)
	Inner socket	Outer socket	L	D	D1	D2	T	T1	T2	T3	
SRF1A	10 13	14 17	198	36	23	19	16	22	6.5	7.5	196
SRF3A	17 19	21 24	240	41	32	28	18	25	9.5	11.5	310



RNF-TR

5-SIZE RATCHET WRENCH PAT.

▶ Features

- The spanner end also comes with a ratchet mechanism.
- 2 small round holes for our safety rope to be attached (2-Φ4).
- Suitable for plumbing work, duct work, electric facility work, building construction and work on any kind of facilities.
- Nickel chrome plate finish.

Item No.	Size name (mm)		Size (mm)								N.W. (g)
	Inner socket	Outer socket	L	D	D1	D2	T	T1	T2	T3	
RNF0TR	8 10	13 14	166	35	18.9	18.2	16	19.5	6	7	250
RNF1TR	10 13	14 17	166	35	23	18.9	16	22	6.5	7.5	270

●For all the appendix of the general hand tools & clamps, please refer to P.278～280

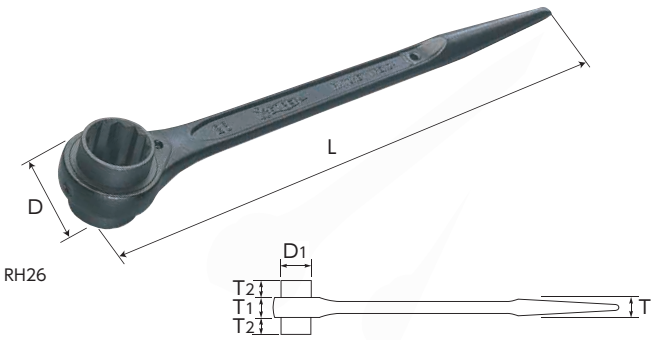
RH

RATCHET WRENCH, Single Size (Heavy Duty Type)

Cation paint (Excellent rust proofing)

▶ Features

- Can be turned over for use in clockwise or counter clockwise directions.
- For sizes 17mm and above, a hole for attaching a safety rope is provided.



Item No.	Size name (mm)	Size (mm) L	D	D1	T	T1	T2	N.W. (g)
RH10	10	225	28	15	11	12	8	130
RH12	12	225	28	18	11	12	8	130
RH13	13	225	28	18	11	12	9	140
RH14	14	225	28	19	11	12	9	140
RH17	17	290	37	23	14	15	11	270
RH19	19	290	37	26	14	15	11	280
RH21	21	335	46	28	17	16	12	410
RH22	22	335	46	30	17	16	12	420
RH24	24	335	46	32	17	16	12	430

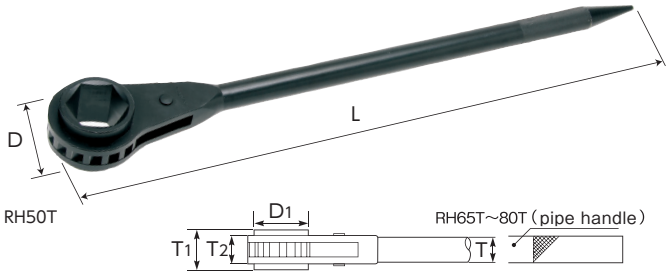
Item No.	Size name (mm)	Size (mm) L	D	D1	T	T1	T2	N.W. (g)
RH26	26	355	51	35	19	16	13	520
RH27	27	355	51	36	19	16	13	520
RH30	30	400	59	41	23	18	18	750
RH32	32	400	59	43	23	18	18	920
RH35	35	445	66	47	25	19	22	1,220
RH36	36	445	66	49	25	19	22	1,350
RH41	41	490	75	55	30	21	26	1,750
RH46	46	500	84	61	30	22	24	2,100

RH-T

RATCHET WRENCH, Single Size (Heavy Duty Type)

▶ Features

- Can be turned over for use in clockwise or counter clockwise directions.
- Black baked-on finish.
- The socket shape is hexagonal type.



Item No.	Size name (mm)	Size (mm) L	D	D1	T	T1	T2	N.W. (kg)
RH50T	50	644	87	69	28	65	33	4
RH55T	55	759	97	76	30		35	5.5
RH60T	60	806	102	82	32	70	38	6.5
RH65T	65	907	113	92	34×4.5	75	46	7

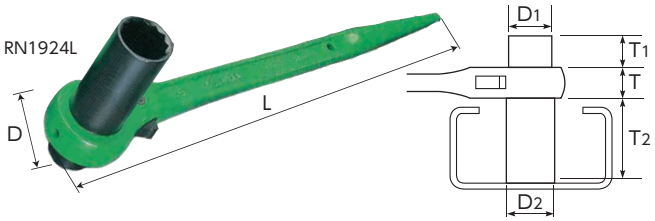
Item No.	Size name (mm)	Size (mm) L	D	D1	T	T1	T2	N.W. (kg)
RH70T	70	911	122	98	38.1×5	80	46	8.3
RH75T	75	965	130	102				9
RH80T	80	1,162	143	113	48.6×5		52	13

RN-L

RATCHET WRENCH, Double Size (Single Long Socket Type)

▶ Features

- Optimal for tightening in the deep grooves of C or H shaped channels and angles.
- Convenient for use on long bolts (U nuts of car-bodies and ducts).
- Safety rope holes are provided on all sizes. (17x19・17x21 and 19x21 have 2 holes)
- Green baked-on finish.

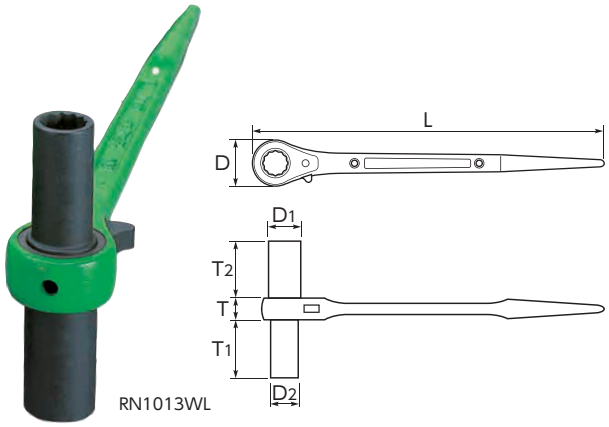


▶ Example of use

Item No.	Size name (mm)	Size (mm) L	D	D1	D2	T	T1	T2	N.W. (g)
RN1012L	10×12L	225	28	15	18	14	10	28	160
RN1013L	10×13L	225	28	15	18	14	10	28	180
RN1214L	12×14L	225	28	18	19	14	11	29	160
RN1317L	13×17L	265	34	18	23	16	14	52	290
RN1417L	14×17L	265	34	19	23	16	14	52	300
RN1719L	17×19L	310	41	23	26	18	16	52	450
RN1721L	17×21L	310	41	23	28	18	16	52	480
RN1921L	19×21L	310	41	26	28	18	16	52	460

Item No.	Size name (mm)	Size (mm) L	D	D1	D2	T	T1	T2	N.W. (g)
RN1924L	19×24L	355	49	26	32	20	18	64	780
RN3024L	30×24L	400	62	41	32	22	20	65	1,170
RN2126L	21×26L	355	49	28	35	20	18	69	800
RN2127L	21×27L	355	51	28	36	20	18	72	850
RN2427L	24×27L	355	51	32	36	20	18	72	860
RN2430L	24×30L	400	62	32	41	22	20	76	1,270
RN2732L	27×32L	400	62	36	43	22	20	82	1,350
RN3236L	32×36L	445	67	43	49	24	21	91	1,800

●For all the appendix of the general hand tools & clamps, please refer to P.278~280



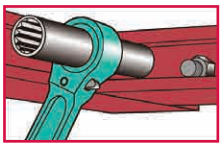
RN-WL

RATCHET WRENCH, Double Size (Double Long Socket Type)

▶ Features

- Optimal for tightening in deep grooves.
- Safety rope holes are provided on all sizes. (17x19･17x21 and 19x21 have 2 holes)
- Green baked-on finish.

▶ Example of use

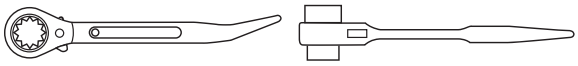


Item No.	Size name (mm)	Size (mm)							N.W. (g)
		L	D	D1	D2	T	T1	T2	
RN1012WL	10L×12L	225	28	18	15	14	32	32	230
RN1013WL	10L×13L	225	28	18	15	14	32	32	230
RN1014WL	10L×14L	225	28	19	15	14	32	32	230
RN1113WL	11L×13L	225	28	18	16	14	32	32	230
RN1214WL	12L×14L	225	28	19	18	14	32	32	230
RN1314WL	13L×14L	265	28	19	18	14	32	32	230

Item No.	Size name (mm)	Size (mm)							N.W. (g)
		L	D	D1	D2	T	T1	T2	
RN1317WL	13L×17L	265	34	23	18	16	33	33	340
RN1415WL	14L×15L	265	34	20	19	16	33	33	340
RN1417WL	14L×17L	265	34	23	19	16	33	33	340
RN1719WL	17L×19L	310	41	26	23	18	34	34	500
RN1721WL	17L×21L	310	41	28	23	18	34	34	500
RN1921WL	19L×21L	310	41	28	26	18	34	34	500

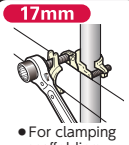
SRB Series

RATCHET WRENCH, Double Size with Bent Spear (Short Type)



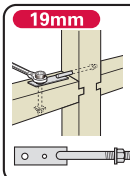
- Very useful short-type wrench for temporary stands at work and housing work.
- Easy to use with light and compact body. ● Safety rope holes are provided on all sizes.

17mm



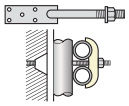
- For clamping scaffolding components

19mm



- For battledore ironware pulled in two directions
- For Z-marked ironware (for battledore bolts)
- For base metal fittings for construction

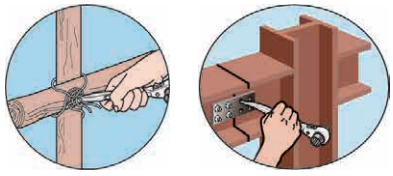
21mm



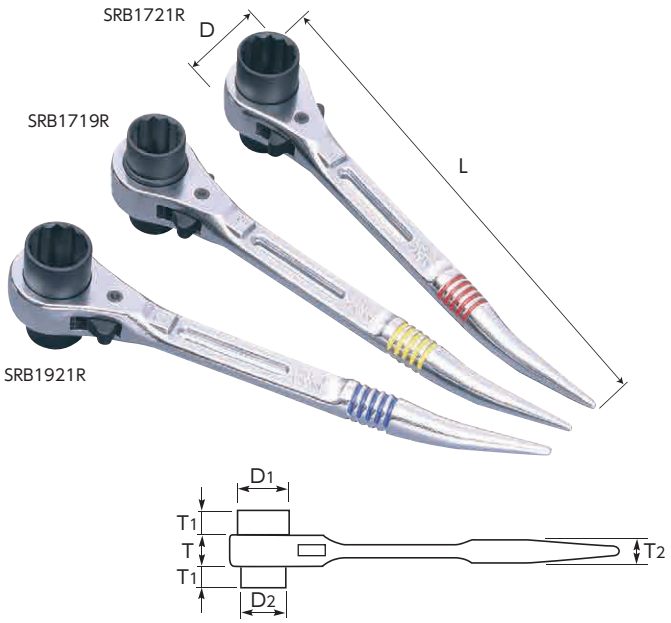
- For battledore bolts and W1/2" connecting ironware
- For turning form tie-nut

24mm

- For hold down ironware
- For base metal fittings for construction



For tightening wire and aligning bolt holes



SRB-R

RATCHET WRENCH, Double Size with Bent Spear (Short Type with Slide Hole)

▶ Features

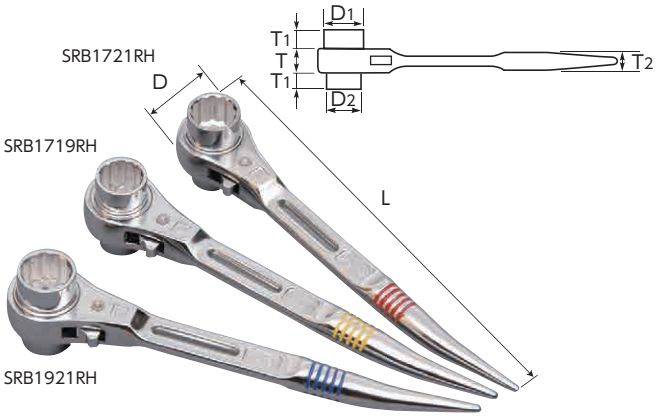
- Slide hole for safety rope (43mm).
- You can get your tool in and out of the holder at work smoothly.
- Anti-slippage color lined grooves.
- Nickel chrome plate finish.
- Check sizes by color : Yellow (17x19), Red (17x21), Blue (19x21).

▶ Example of use

Item No.	Size name (mm)	Size (mm)							N.W. (g)
		L	D	D1	D2	T	T1	T2	
SRB1719R	17×19	240	41	27	24	18	16	16	380
SRB1721R	17×21	240	41	29	24	18	16	16	380
SRB1921R	19×21	240	41	29	27	18	16	16	380

●For all the appendix of the general hand tools & clamps, please refer to P.278～280

Tool sets / cases
Socket wrenches
Ratchet wrenches
Offset wrenches, grips
Gear wrenches, open-end spanners
Spanners
Safety ropes
Combination hammer
Sockets
Hex key wrenches
Adjustable angle wrenches
Pliers
Hook spanners, pin spanners
Toggle clamps
C clamps
L clamps
Super setters
Grip pliers
Welding tools
Iron man



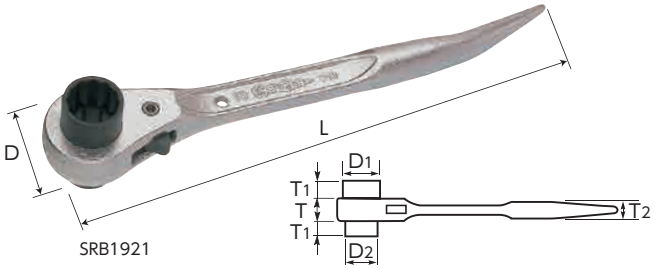
SRB-RH

RATCHET WRENCH, Double Size, All Polish Type with Bent Spear (Short Type with Slide Hole)

▶ Features

- Slide hole for safety rope (43mm).
- You can get your tool in and out of the holder at work smoothly.
- Anti-slippage color lined grooves.
- All polish.
- Nickel chrome plate finish.
- Check sizes by color : Yellow (17x19), Red (17x21), Blue (19x21).

Item No.	Size name (mm)	Size(mm)							N.W. (g)
		L	D	D1	D2	T	T1	T2	
SRB1719RH	17×19	240	41	27	24	18	16	16	380
SRB1721RH	17×21	240	41	29	24	18	16	16	380
SRB1921RH	19×21	240	41	29	27	18	16	16	380



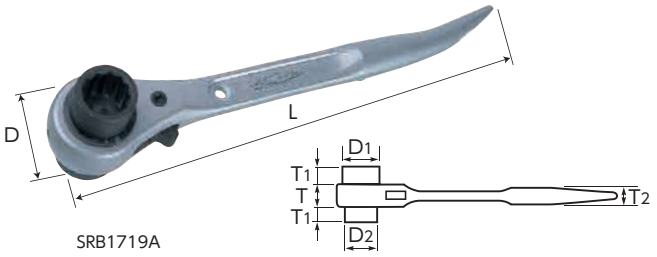
SRB

RATCHET WRENCH, Double Size with Bent Spear (Short Type Standard)

▶ Feature

- Nickel chrome plate finish.

Item No.	Size name (mm)	Size(mm)							N.W. (g)
		L	D	D1	D2	T	T1	T2	
SRB1719	17×19	240	41	27	24	18	16	16	390
SRB1721	17×21	240	41	29	24	18	16	16	390
SRB1921	19×21	240	41	29	27	18	16	16	390



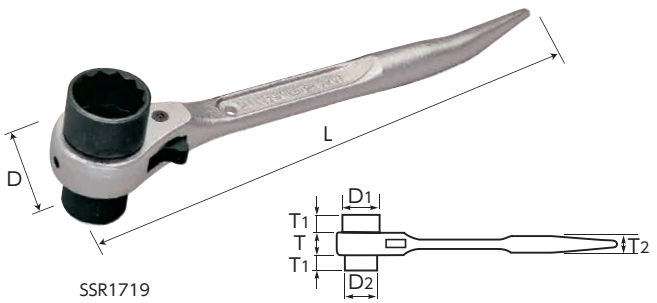
SRB-A

RATCHET WRENCH, Double Size, Aluminum Alloy Body (Short Type)

▶ Feature

- 40% weight reduction with use of aluminum body.

Item No.	Size name (mm)	Size(mm)							N.W. (g)
		L	D	D1	D2	T	T1	T2	
SRB1719A	17×19	240	41	27	24	18	16	16	230
SRB1721A	17×21	240	41	29	24	18	16	16	230
SRB1921A	19×21	240	41	29	27	18	16	16	230



SSR

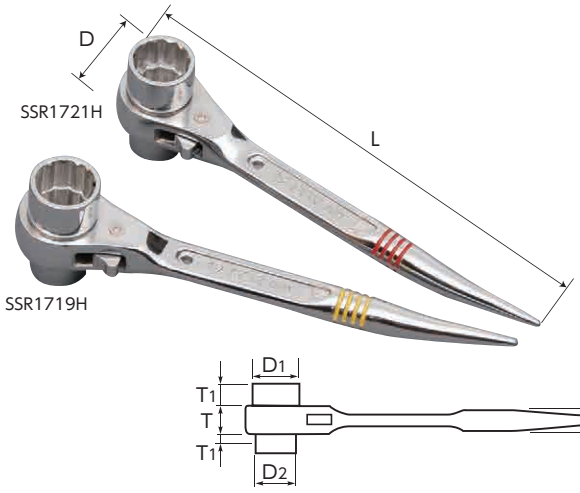
RATCHET WRENCH, Double Size with Bent Spear (Mini Short Type)

▶ Features

- Smaller, lighter and easier to use.
- Head (D) and length (L) much smaller, bringing 30% weight reduction.
- Nickel chrome plate finish.

Item No.	Size name (mm)	Size(mm)							N.W. (g)
		L	D	D1	D2	T	T1	T2	
SSR1719	17×19	205	36	27	23	16	17	14	270
SSR1721	17×21	205	36	29	23	16	17	14	270

●For all the appendix of the general hand tools & clamps, please refer to P.278～280



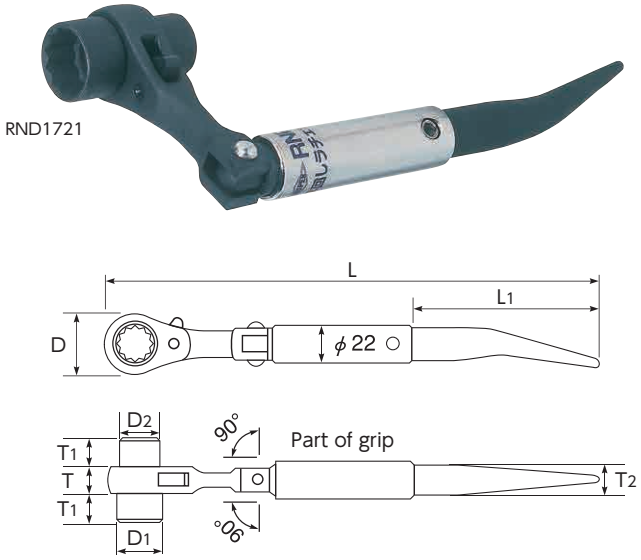
SSR-H

RATCHET WRENCH, Double Size, All Polish Type with Bent Spear (Mini Short Type)

▶ Features

- Smaller, lighter and easier to use.
- Anti-slippage color lined grooves.
- All polish.
- Nickel chrome plate finish.
- Check sizes by color : Yellow (17x19), Red (17x21).

Item No.	Size name (mm)	Size (mm)							N.W. (g)
		L	D	D1	D2	T	T1	T2	
SSR1719H	17×19	195	36	27	23	16	17	14	250
SSR1721H	17×21	195	36	29	23	16	17	14	250



RND

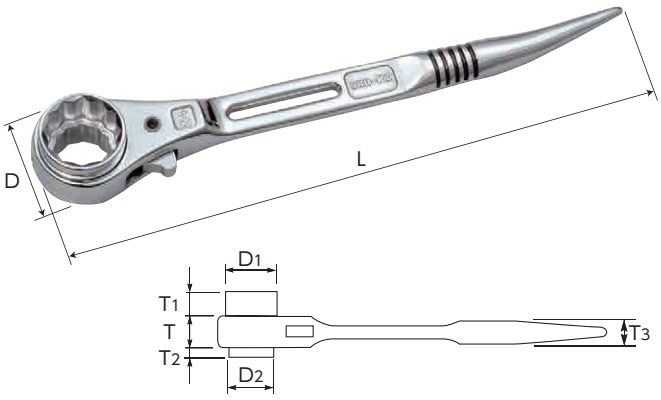
QUICK TURN RATCHET WRENCH, Double Size (with Bent Spear)

▶ Features

- Easy to bend the wrench in one touch and turn the bolt or nut.
- Suitable for assembling and disassembling scaffold clamp.

▶ Example of use

Item No.	Size name (mm)	Size (mm)								N.W. (g)
		L	L1	D	D1	D2	T	T1	T2	
RND1719	17×19	287	110	36	26	23	16	17	14.5	530
RND1721	17×21	287	110	36	28	23	16	17	14.5	530



SRB1924RZ

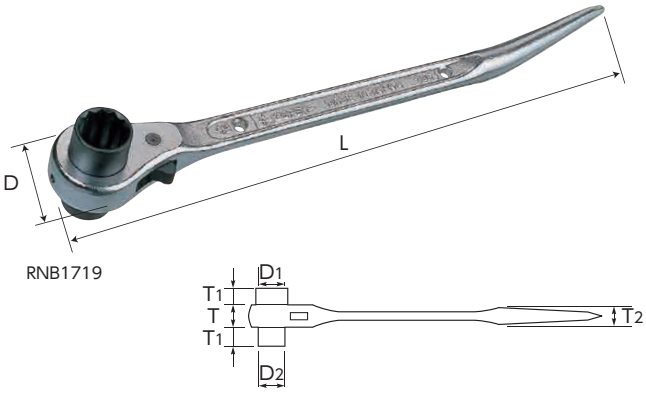
RATCHET WRENCH, Double Size, All Polish Type (Flat Type with Slide Hole)

▶ Features

- Slide hole for safety rope (43mm).
- You can get your tool in and out of the holder at work smoothly.
- Anti-slippage color lined grooves.
- All polish.
- Nickel chrome plate finish.

Item No.	Size name (mm)	Size (mm)								N.W. (g)
		L	D	D1	D2	T	T1	T2	T3	
SRB1924RZ	19×24	240	41	32	28	18	8	5	16	370

●For all the appendix of the general hand tools & clamps, please refer to P.278~280



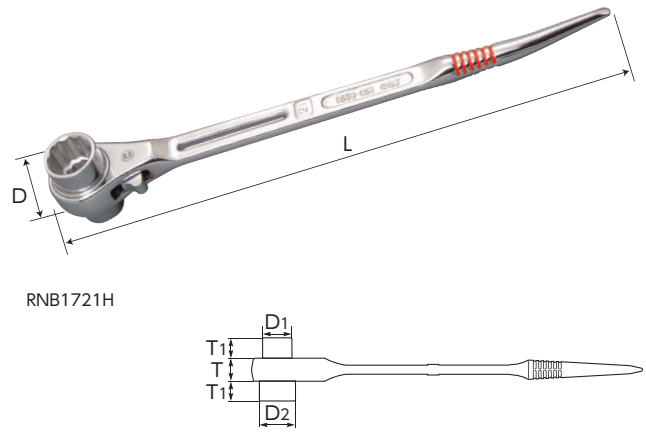
RNB

RATCHET WRENCH, Double Size with Bent Spear

▶ Features

- Ratchet wrench with bent spear suitable for wire tightening.
- Nickel chrome plate finish.
- 2 holes for attaching a safety rope are provided.

Item No.	Size name (mm)	Size(mm)							N.W. (g)
		L	D	D1	D2	T	T1	T2	
RNB1719	17×19	310	41	27	24	18	16	15	400
RNB1721	17×21	310	41	29	24	18	16	15	400
RNB1921	19×21	310	41	29	27	18	16	15	400



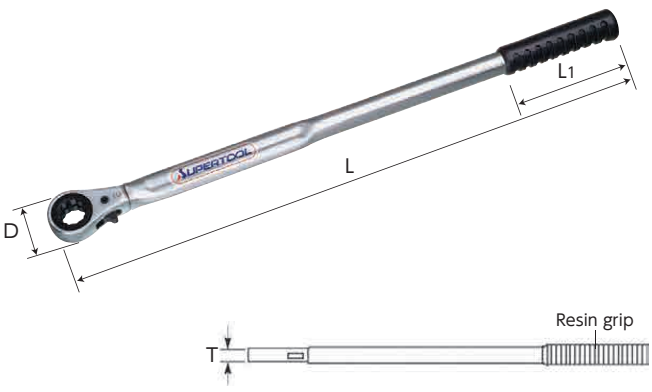
RNB-RH

RATCHET WRENCH, Double Size (All Polish Type with Bent Spear)

▶ Features

- Slide hole for safety rope (60mm).
- You can get your tool in and out of the holder at work smoothly.
- Anti-slippage color lined grooves.
- All polish.
- Nickel chrome plate finish.
- Check sizes by color : Yellow (17x19), Red (17x21)

Item No.	Size name (mm)	Size(mm)						N.W. (g)
		L	D	D1	D2	T	T1	
RNB1719RH	17×19	310	41	24	27	18	16	400
RNB1721RH	17×21	310	41	24	29	18	16	400

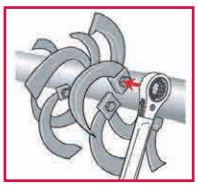


RNTL1719L

RATCHET WRENCH, Double Size (Flat Type for Farm Machine Blade Replacement)

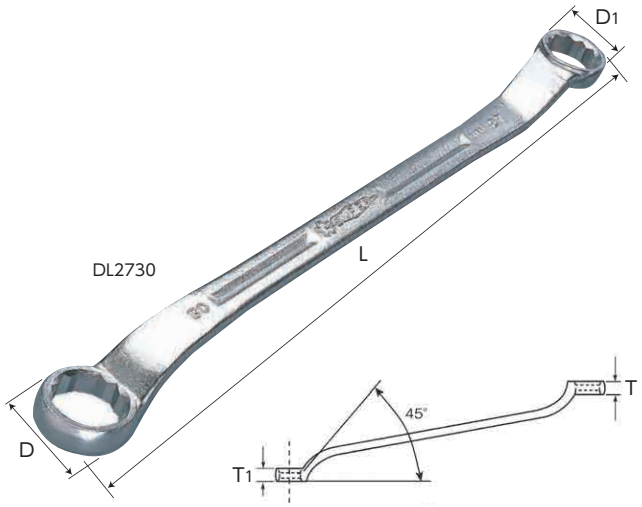
▶ Feature

- Optimal as tool to replace claws of cultivators or tractors.



Item No.	Size name (mm)	Size(mm)				N.W. (g)
		L	L1	D	T	
RNTL1719L	17×19	485	105	41	19	650

●For all the appendix of the general hand tools & clamps, please refer to P.278～280

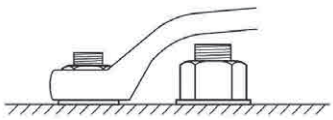


DL

DOUBLE OFFSET WRENCH 45° Type

▶ Features

- The offset angle of 45° prevents collision with surrounding materials.
- Lightweight design and strength for loads surpassing the JIS standard.
- 12 points for all sizes.



Item No.	Size name (mm)	Size (mm)					N.W. (g)
		L	D	D1	T	T1	
DL89	8×9	173	14.5	13	6	5.5	50
DL810	8×10	173	16.5	13	6.5	5.5	55
DL1012	10×12	198	19.5	16.5	7.5	6.5	75
DL1013	10×13	198	21	16.5	8	6.5	90
DL1113	11×13	200	21	18	8	7	95
DL1214	12×14	221	22.5	19.5	8.5	7.5	110
DL1317	13×17	250	27	21	9.5	8	150
DL1417	14×17	250	27	22.5	9.5	8	155
DL1719	17×19	283	30	27	10	9.5	230
DL1721	17×21	300	31.5	26	11	10	270
DL1921	19×21	301	32	29	11	10	285
DL1922	19×22	302	33	29	11	10	285
DL1924	19×24	314	37	29	12.5	10.5	335
DL2126	21×26	346	37.5	32	13	11.5	430
DL2224	22×24	316	36	33	12	11	335
DL2427	24×27	348	39	36	13.5	13	460
DL2430	24×30	388	46.5	37.5	14	12.5	605
DL2632	26×32	395	49.5	40	15	13.5	690
DL2730	27×30	388	46.5	40	14	13.5	620
DL2732	27×32	395	49.5	40	15	13.5	690
DL2932	29×32	397	49.5	46.5	15	14	700
DL3032	30×32	397	49.5	46.5	15	14	700
DL3036	30×36	431	55	46.5	16	14	880
DL3235	32×35	431	55	49.5	16	15	850
DL3236	32×36	431	55	49.5	16	15	850
DL3641	36×41	458	63	55	18.5	16	1,250
DL4146	41×46	492	70.5	63	20.5	18.5	1,440

S4506N

DOUBLE OFFSET WRENCH 45° Type 6PCS-SET

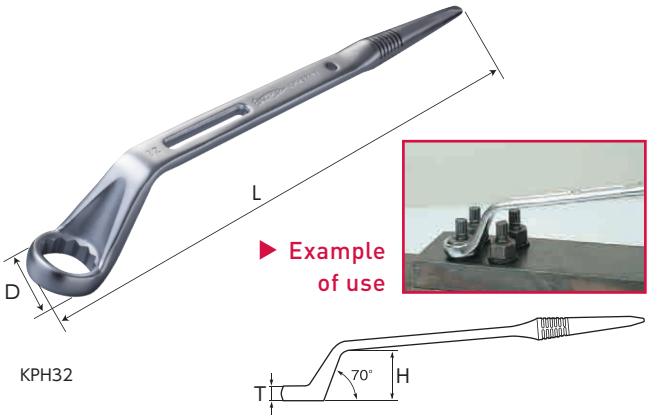
▶ Features

- Frequently used 11 sizes.
- Aluminum case as standard acc.
- Mirror design.
- Nickel chrome plate finish.

Item No.	Set details	Set Q'ty(pcs)	Set N.W.(g)
S4506N	8×10·11×13·12×14·17×19·19×22·24×27	6	1,750

●For all the appendix of the general hand tools & clamps, please refer to P.278~280

Tool sets / cases
Socket wrenches
Ratchet wrenches
Offset wrenches, grips
Gear wrenches, open-end spanners
Spanners
Safety ropes
Combination hammer
Sockets
Hex key wrenches
Adjustable angle wrenches
Pliers
Hook spanners, pin spanners
Toggle clamps
C clamps
L clamps
Super setters
Grip pliers
Welding tools
Iron man



▶ Example of use

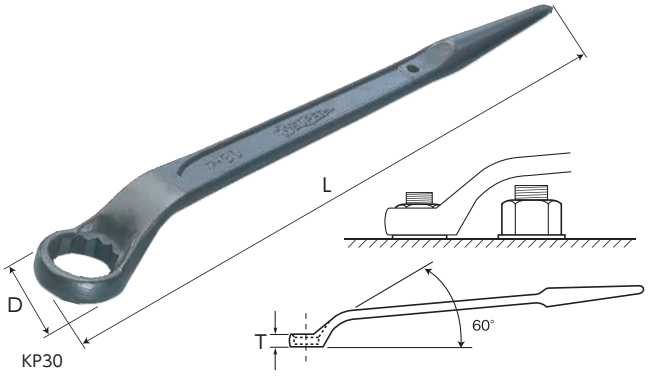
KPH

OFFSET WRENCH 70° Type (Shear Bolt Use)

▶ Features

- Design focused on the offset height (H) and angle.
- Designed for a shear bolt use with 70° angle with sufficient height (H).
- Slide hole for safety rope and anti-slippage grooves at the spear grip.
- Name plate useful in case of loss.
- Nickel chrome plate finish.

Item No.	Size name (mm)	Size (mm)				N.W. (g)
		L	H	D	T	
KPH27	27	357	55	41	14	480
KPH32	32	394	68	50	15	660
KPH36	36	454	70	56	16	1,250



KP

OFFSET WRENCH 60° Type

Cation paint (Excellent rust proofing)

▶ Features

- The cone shaped spear part is optimal for aligning bolt holes.
- The 60° slanted and length of the neck part prevents collision with adjacent bolts or angle ribs.
- Safety rope holes are provided on all sizes.

Item No.	Size name (mm)	Size (mm)			N.W. (g)
		L	D	T	
KP17	17	313	26	10	190
KP19	19	335	30	11	260
KP21	21	351	33	12	360
KP22	22	352	34	12	320
KP24	24	374	37	13	420
KP26	26	390	40	14	440
KP27	27	391	42	14	580
KP30	30	413	46	15	720

Item No.	Size name (mm)	Size (mm)			N.W. (g)
		L	D	T	
KP32	32	430	50	16	750
KP35	35	468	54	17	950
KP36	36	468	56	17	1,110
KP41	41	506	64	20	1,380
KP46	46	545	72	22	1,910
KP50	50	583	77	23	2,170
KP55	55	601	83	24	2,340

▶ Example of use

RG

GRIP

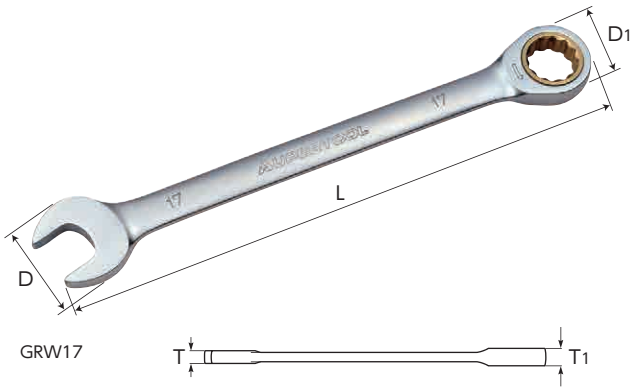
▶ Features

- For use on the spear part of ratchet wrenches and 60° slanted single offset wrenches.
- Ergonomically designed anti-slippage grooved grip for long time safe use.

Item No.	Size (mm)		Applicable item No. and wrench sizes for grip use (mm)				N.W. (g)
	L	D	RN(double size)	RN(single size)	RH(single size)	KP(offset single size)	
RG3	86	25	13×17·14×15·14×17	17	17·19		30
RG4	102	28	13×19·17×19·17×21·17×22·19×21·19×22	19·21·22	21·22·24	17·19	50
RG5	113	32	19×24～24×27(9Size)	24·26·27	26·27	21·22·24	70
RG6	125	36	24×30～30×32(5Size)·32×35·32×36	30·32·35·36	30·32·35·36	24·26·27·30·32·35·36	90
RG8	153	40	35×41·36×41·41×46	41·46	41·46	41·46	140

∗ For the underlined size, processing of the tail is required.

●For all the appendix of the general hand tools & clamps, please refer to P.278～280



GRW17

GRW

GEAR WRENCH, Straight Type

▶ Features

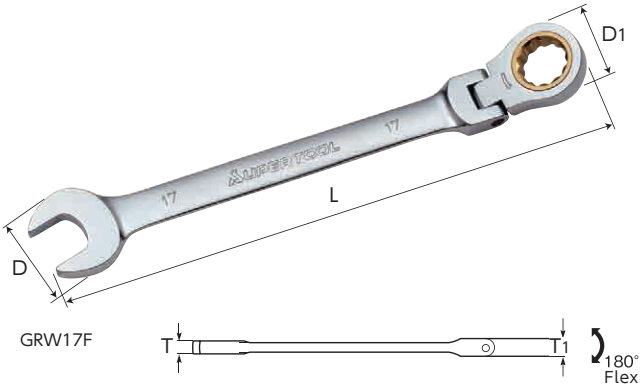
- 72 teeth ratchet with 5° of sweep, best for confined areas.
- Designed for final tightening.

Applications

●Electric wire, piping and air conditioner ●Machinery equipment
●Automobile repair ●Suitable for any work in confined spaces

Item No.	Size name (mm)	Size (mm)					N.W. (g)
		L	D	D1	T	T1	
GRW8	8	140	16.7	18.6	4.4	6.4	38
GRW10	10	160	20.9	20.2	4.9	7	55
GRW12	12	170	25.1	23.4	5.4	7.6	84
GRW13	13	178	27.2	24.8	5.9	8.1	96
GRW14	14	190	29.3	27.2	6.2	8.5	108
GRW15	15	200	31.3	28.3	6.4	9	130

Item No.	Size name (mm)	Size (mm)					N.W. (g)
		L	D	D1	T	T1	
GRW17	17	224	35.5	31.2	6.9	10	183
GRW19	19	248	39.7	33.9	7.4	11	237
GRW21	21	288	45.2	40.4	8.4	13	320
GRW22	22	288	45.2	40.4	8.4	13	320
GRW24	24	320	51.5	46.2	9.4	14.5	460



GRW17F

GRW-F

GEAR WRENCH, Flex Type

▶ Features

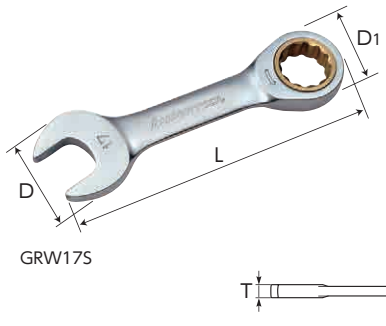
- 72 teeth ratchet with 5° of sweep, best for confined areas.
- Convenient flexible socket head.
- Designed for final tightening.

Applications

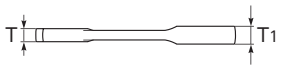
●Electric wire, piping and air conditioner ●Machinery equipment
●Automobile repair ●Suitable for any work in confined spaces

Item No.	Size name (mm)	Size (mm)					N.W. (g)
		L	D	D1	T	T1	
GRW8F	8	140	16.7	18.6	4.4	6.4	38
GRW10F	10	160	20.9	21.4	4.9	7	62
GRW12F	12	170	25.1	25.4	5.4	7.6	87
GRW13F	13	178	27.2	25.4	5.9	8.1	104
GRW14F	14	190	29.3	26.4	6.2	8.5	121
GRW15F	15	200	31.3	26.4	6.4	9	137

Item No.	Size name (mm)	Size (mm)					N.W. (g)
		L	D	D1	T	T1	
GRW17F	17	224	35.5	31	6.9	10	196
GRW19F	19	248	39.7	33	7.4	11	248
GRW21F	21	288	45.2	39	8.4	13	363
GRW22F	22	288	45.2	39	8.4	13	363
GRW24F	24	320	51.5	45.4	9.4	14.5	545



GRW17S



GRW-S

GEAR WRENCH, Straight Short Type

▶ Features

- 72 teeth ratchet with 5° of sweep, best for confined areas.
- Designed for final tightening.

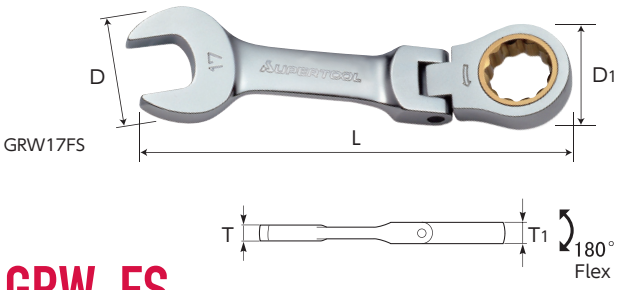
Applications

●Electric wire, piping and air conditioner ●Machinery equipment
●Automobile repair ●Suitable for any work in confined spaces

Item No.	Size name (mm)	Size (mm)					N.W. (g)
		L	D	D1	T	T1	
GRW8S	8	89	19.2	18.6	5.6	6.4	30
GRW10S	10	94	20.7	19.6	5.6	7	34
GRW12S	12	107	27	25	5.6	7.6	59
GRW13S	13	107	27	25	5.6	8.1	59

Item No.	Size name (mm)	Size (mm)					N.W. (g)
		L	D	D1	T	T1	
GRW14S	14	115	29.2	26.6	6	8.5	73
GRW17S	17	127	35.4	31.6	7	10	115
GRW19S	19	139	39.8	33.6	8.1	11	147

●For all the appendix of the general hand tools & clamps, please refer to P.278~280



GRW-FS

GEAR WRENCH, Flex Short Type

▶ Features

- 72 teeth ratchet with 5° of sweep, best for confined areas.
- Convenient flexible socket head.
- Designed for final tightening.

Applications

●Electric wire, piping and air conditioner ●Machinery equipment
●Automobile repair ●Suitable for any work in confined spaces

Item No.	Size name (mm)	Size (mm)					N.W. (g)
		L	D	D1	T	T1	
GRW8FS	8	93	19.2	18.6	5.6	6.4	38
GRW10FS	10	98	23.4	21.4	6	7	57
GRW12FS	12	111	29.3	25.4	6.8	7.6	83
GRW13FS	13	111	29.3	25.4	7	8.1	83
GRW14FS	14	119	30.4	26.4	7.6	8.5	103
GRW17FS	17	128	36.2	31	8.2	10	141
GRW19FS	19	138	40.4	33	8.6	11	172

GRW700 • GRW700F

GEAR WRENCH 7PCS-SET

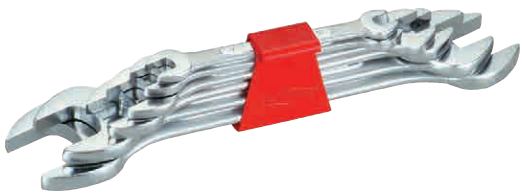
▶ Features

- Selected 7 sizes of most frequent use.
- Aluminum case.
- 72 teeth ratchet with 5° of sweep, best for confined areas.
- Designed for final tightening.

Applications

●Electric wire, piping and air conditioner ●Machinery equipment
●Automobile repair ●Suitable for any work in confined spaces

Item No.	Set details	Set Q'ty(pcs)	Set N.W.(g)
GRW700	GRW8·10·12·13·14·17·19	7	1,200
GRW700F	GRW8F·10F·12F·13F·14F·17F·19F	7	1,315



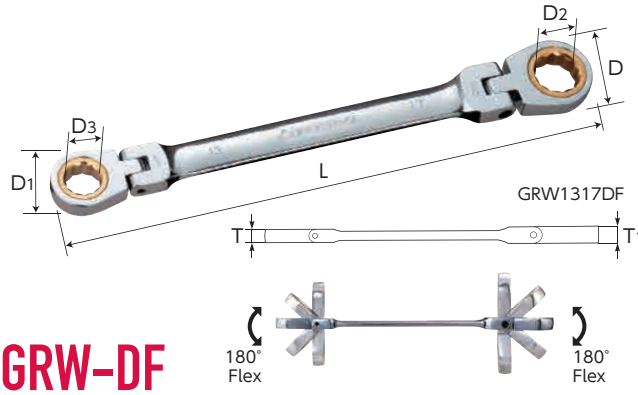
SX60J

OPEN-END SPANNERS 6PCS-SET

▶ Feature

- Spanner pointed ends allow easy handling in confined spaces.

Item No.	Set details	Set N.W.(g)
SX60J	6×7·8×10·11×13·12×14·17×19·22×24	600



GRW-DF

GEAR WRENCH, Double Flex Type

▶ Features

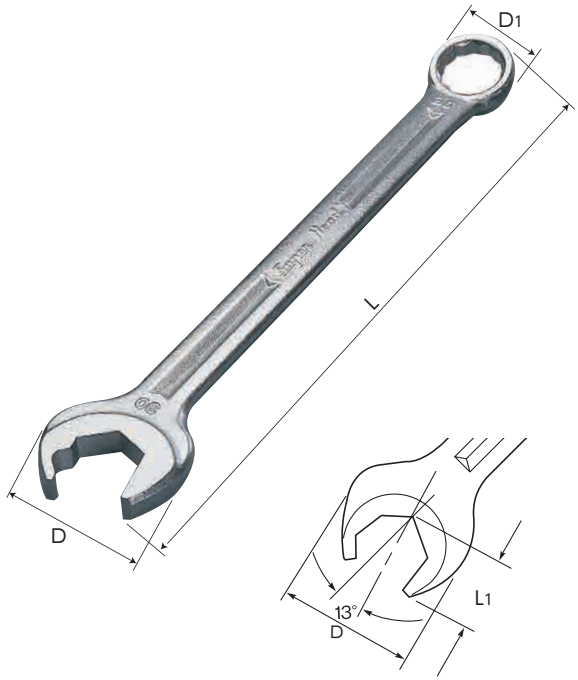
- 72 teeth ratchet with 5° of sweep, best for confined areas.
- Both sides are 180° flexible.
- Designed for final tightening.

Applications

●Electric wire, piping and air conditioner ●Machinery equipment
●Automobile repair ●Suitable for any work in confined spaces

Item No.	Hexagon width across flats D3×D2	Size (mm)					N.W. (g)
		L	D	D1	T	T1	
GRW810DF	8×10	177	22.5	20.5	7.7	8.2	85
GRW1012DF	10×12	194	28	22.5	8.2	9.4	135
GRW1214DF	12×14	212	31	28	9.4	9.7	205
GRW1317DF	13×17	239	34	28	9.4	10.8	235
GRW1719DF	17×19	259	37	34	10.8	11.3	315

●For all the appendix of the general hand tools & clamps, please refer to P.278~280

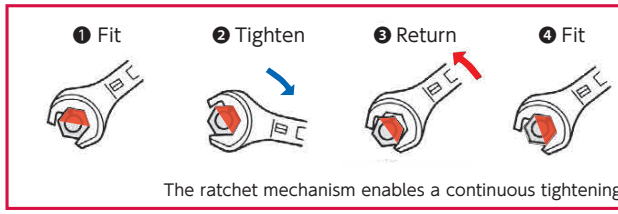


SH

SUPER HEAD SPANNER (with Ratchet Mechanism)

▶ Features

- Spanner with ratchet mechanism.
- Optimal for tightening and removing bolts and nuts in confined spaces, assembling and disassembling precision machinery, tightening union nuts of brake-pipes.
- The offset wrench side ensures safe removal of rusted bolts and nuts.
- Offset angle of 15˚.



The ratchet mechanism enables a continuous tightening.

Item No.	Size name (mm)	Size (mm)					N.W. (g)
		L	L1	D	D1	Head thickness	
SH8	8	135	9.5	17.5	13	5.5	30
SH10	10	163	12	22	16	6.5	50
SH12	12	173	14	26	18.5	7.5	70
SH13	13	180	15	28.5	20	8	90
SH14	14	186	16.5	30.5	21.5	8.5	90
SH17	17	195	20	37	26	9.5	140
SH19	19	203	22.5	41.5	29	10	190
SH21	21	217	25	46	32	11	240
SH22	22	225	26	48	33	11.5	280
SH24	24	245	28.5	52.5	36	12.5	360

SH600

SH800

SH

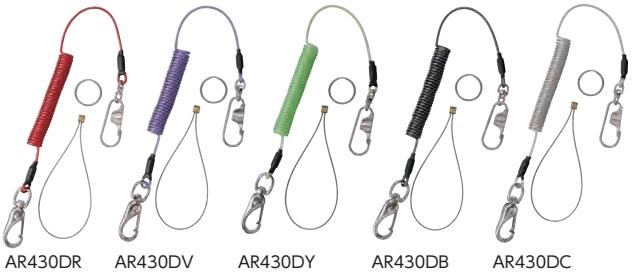
SUPER HEAD SPANNER 6PCS-SET・8PCS-SET

▶ Features

- SH600 : Cloth bag
- SH800 : Vinyl bag

Item No.	Set details	Set Q'ty (pcs)	Set N.W. (g)
SH600	SH8・10・12・13・14・17	6	570
SH800	SH8・10・12・13・14・17・19・21	8	1,000

●For all the appendix of the general hand tools & clamps, please refer to P.278～280



AR430DR AR430DV AR430DY AR430DB AR430DC

AR430(DR • DV • DY • DB • DC)

SAFETY ROPE (Stainless Wire Core with Direct Catch Hook) (capacity : 1kg)

▶ Features

- Direct catch slim hook can be attached to the tool directly.
- Polyurethane cord with stainless wire core allows high durability.
- Outstanding flexibility and shape restoration.

▶ Accessories

- Wire, ring

▶ Example of use

Item No.	Color	Size (mm)				N.W. (g)
		Cord dia.	Core dia.	Normal length	Max. stretched length	
AR430DR	Red	3	0.8	470	1,700	65
AR430DV	Violet					
AR430DY	Yellow green					
AR430DB	Clear black					
AR430DC	Clear					

ARN10P ARN10Y ARN10G

ARN10P • ARN10Y • ARN10G

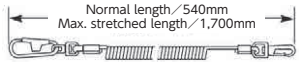
SAFETY ROPE (Nylon Rope Core) (capacity : 1kg)

▶ Features

- Polyurethane cord with nylon rope core.
- Super flexibility for smooth operation.

▶ Accessories

- Wire, ring



Item No.	Color	Size (mm)				N.W. (g)
		Cord dia.	Core dia.	Normal length	Max. stretched length	
ARN10P	Pink	4.5	3	540	1,700	85
ARN10Y	Yellow					
ARN10G	Green					

ARK10R ARK10G ARK10K

ARK10R • ARK10G • ARK10K

SAFETY ROPE (Kevlar Core) (capacity : 1kg)

▶ Features

- Light weight, flexible and extremely thin design for burden-less operation.
- Polyurethane cord with Kevlar core by DuPont Inc., USA. (special ultra thin fiber (2 μm) used in bulletproof vest).

▶ Accessories

- Wire, ring

Item No.	Color	Size (mm)				N.W. (g)
		Cord dia.	Core dia.	Normal length	Max. stretched length	
ARK10R	Red	2.5	1.2	490	1,820	60
ARK10G	Green					
ARK10K	Fluorescent purple					

ARS05R ARS05C ARS05B

ARS05R • ARS05C • ARS05B

SAFETY ROPE (Stainless Wire Core) (capacity : 500g)

▶ Features

- Polyurethane cord with stainless wire core allows high durability.
- The cord is ultra light-weighted and extra thin, allowing outstanding flexibility and shape restoration.

▶ Accessories

- Ring

Item No.	Color	Size (mm)				N.W. (g)
		Cord dia.	Core dia.	Normal length	Max. stretched length	
ARS05R	Red	2	0.8	310	1,100	25
ARS05C	Clear					
ARS05B	Black					

●For all the appendix of the general hand tools & clamps, please refer to P.278～280

ARS10R ARS10Y ARS10P

ARS10R • ARS10Y • ARS10P

SAFETY ROPE (Stainless Wire Core) (capacity : 1kg)

▶ Features

- Polyurethane cord with stainless wire core allows high durability.
- Excellent flexibility and fast shape restoration.

▶ Accessories

- Wire, ring

Item No.	Color	Size (mm)				N.W. (g)
		Cord dia.	Core dia.	Normal length	Max. stretched length	
ARS10R	Fluorescent red	3	1	480	2,300	70
ARS10Y	Yellow					
ARS10P	Fluorescent purple					

ARS30R ARS30W ARS30B

ARS30R • ARS30W • ARS30B

SAFETY ROPE (Stainless Wire Core) (capacity : 3kg) PAT.

▶ Features

- Three-layer structure polyurethane cord with stainless wire core allows high durability.
- Excellent flexibility and fast shape restoration.

▶ Example of use

Item No.	Color	Size (mm)				N.W. (g)
		Cord dia.	Core dia.	Normal length	Max. stretched length	
ARS30R	Red	5	1.6	420	1,400	108
ARS30W	White					
ARS30B	Black					

ARS20R ARS20W ARS20B

ARS20R • ARS20W • ARS20B

SAFETY ROPE (Stainless Wire Core) (capacity : 2kg)

▶ Features

- Polyurethane cord with stainless wire core allows high durability.
- Excellent flexibility and fast shape restoration.
- Outstanding flexibility and durability with a three-layer structure.

▶ Example of use

Item No.	Color	Size (mm)				N.W. (g)
		Cord dia.	Core dia.	Normal length	Max. stretched length	
ARS20R	Red	4	1.2	410	1,600	70
ARS20W	White					
ARS20B	Black					

HM7410 • HM7410H

COMBINATION HAMMER

▶ Features

- With plastic head on one side and steel head on the other side, 2 usages in 1 tool.
- Head : Steel, polyamide (Nylon 6:PA6)
- Shaft : Pipe steel
- Grip : Resin

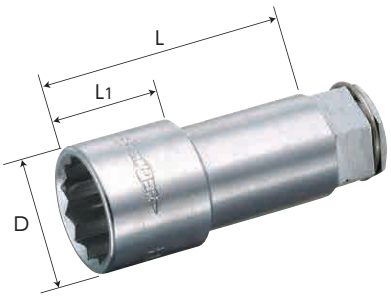
Item No.	Size name	Size (mm)			N.W. (g)
		L	H	D	
HM7410	1pound	267	90	32	495

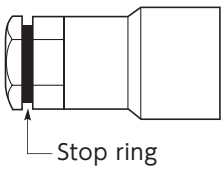
Spare head

- Resin suitable for a wide range of use environments.
- Polyamide (Nylon 6:PA6)

Item No.	Size (mm)		N.W. (g)
	L1	D	
HM7410H	30	32	24

●For all the appendix of the general hand tools & clamps, please refer to P.278~280





HSN

HS SOCKET

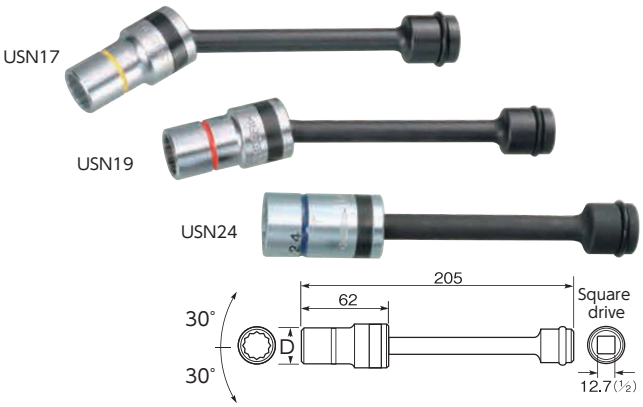
Square drive 9.5 mm 3/8" | Square drive 12.7 mm 1/2"

▶ Features

- Insert the HSN socket to a ratchet wrench or a 60° slanted offset wrench to tighten bolts and nuts in confined or deep spaces.
- Nickel chrome plate finish.

▶ Example of use

Item No.	Size name (mm)	Drive size(mm)		Size(mm)			N.W. (g)
		(Hexagon)	(Square)	L	L1	D	
HSN17	17	17	9.52(3/8)	53	22	24	80
HSN19	19	19	9.52(3/8)	53	23	26.5	100
HSN21	21	21	12.7(1/2)	58	24	29	130
HSN24	24	24	12.7(1/2)	58	27	33	150



USN

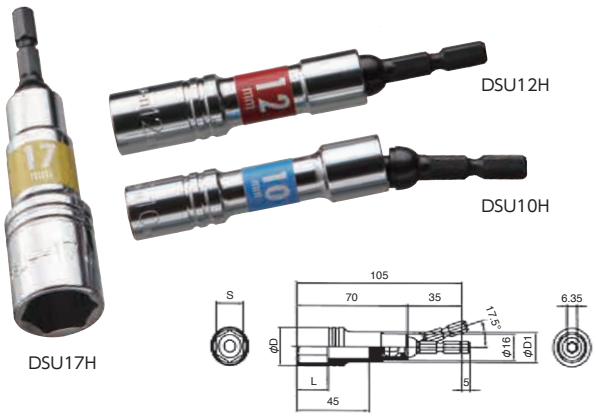
UNI-SOCKET (for Impact Wrench)

▶ Feature

- Optimal for use in confined or deep spaces when assembling steel structural housing.

▶ Example of use

Item No.	Size name (mm)	Size(mm)	Applicable bolts and nuts		N.W. (g)
		D	Standard	Small	
USN17	17	25	M10	M12	380
USN19	19	27	M12	M14	390
USN24	24	34	M16	M18	510



DSU-H

SOCKET BIT FOR ELECTRIC SCREWDRIVER (Universal Type)

Suits with 18V electric impact driver

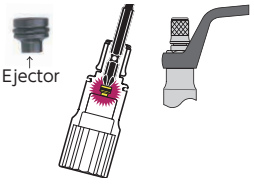
▶ Features

- 6pt. socket for heavy duty.
- Standard length type.
- Usable for both fix and angle type for bit part.
- Socket angle : 17.5°.
- Size can be identified with color.

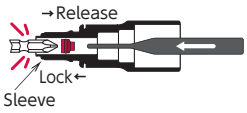
Item No.	Seal color	Width across flats (S) (mm)	Size(mm)			N.W. (g)
			L	φD	φD1	
DSU7H	Light green	7	15	10.5	9.5	50
DSU8H	Black	8	15	12.7	10.5	60
DSU10H	Sky blue	10	15	15.0	12.0	70
DSU12H	Orange	12	20	17.5	14.0	80
DSU13H	Purple	13	20	17.9	14.0	80

Item No.	Seal color	Width across flats (S) (mm)	Size(mm)			N.W. (g)
			L	φD	φD1	
DSU14H	Green	14	20	19.7	16.0	90
DSU17H	Yellow	17	20	23.5	18.5	110
DSU19H	Red	19	20	26.0	20.5	120
DSU21H	Blue	21	20	28.5	22.5	150
DSU24H	Gold	24	20	33.0	25.0	180

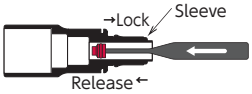
●For all the appendix of the general hand tools & clamps, please refer to P.278～280



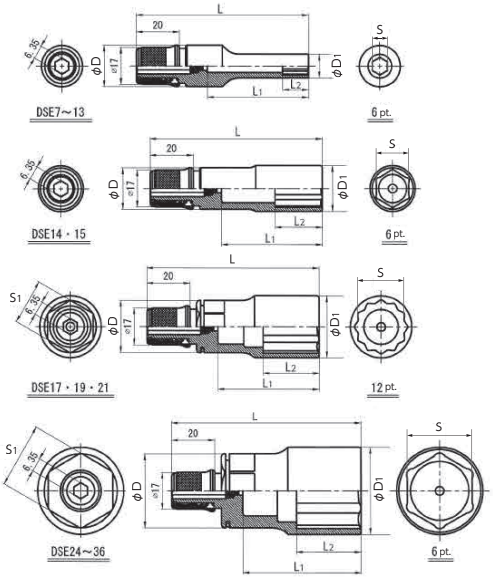
Convenient 6pt. size for tightening operation with an offset wrench or a ratchet wrench (DSE17~36).



▮Easy removal of stuck bit !
While keeping released the lock of sleeve, hit lightly the center with a punch to take out the bit.



▮The setting of the ejector is easy too !
Check the correct direction of the injector and insert it while keep releasing the sleeve. Complete the setting by hitting lightly the ejector with a punch.



DSE

SOCKET BIT FOR ELECTRIC SCREWDRIVER (Replaceable Type) "Pro-spec"

Suits with 18V electric impact driver

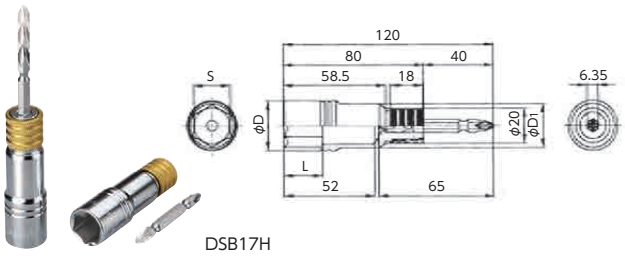
▶ Features

- "Ejector (PAT.)" mechanism to avoid bit tip getting stuck.
- The socket being detachable, the product can be used all the life time of the socket.
- Socket sizes are 12pt. for 17, 19, 21, and 6 pt. for other sizes.
- Can be used with driver bits available on the market.

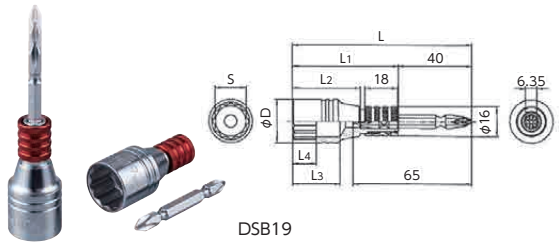
▶ Accessories

- Driver bit (DB2S65) 1pc.

Item No.	Width across flats (S) (mm)	Size (mm)						N.W. (g)
		L	L1	L2	ϕD	ϕD1	S1	
DSE7	7	80	47	12	19.0	11.0	–	100
DSE8	8	80	47	12	19.0	12.0	–	103
DSE10	10	80	47	16	19.0	14.5	–	108
DSE12	12	80	47	18	19.0	17.0	–	114
DSE13	13	80	47	20	19.0	18.5	–	120
DSE14	14	80	47	22	19.0	20.0	–	120
DSE15	15	80	47	22	19.0	21.0	–	123
DSE17	17	80	47	24	21.0	23.5	19	130
DSE19	19	80	47	24	22.0	25.5	19	136
DSE21	21	80	47	26	24.0	28.5	21	154
DSE24	24	83	50	28	27.0	32.5	24	200
DSE27	27	88	55	30	30.5	36.0	27	255
DSE30	30	88	55	30	34.0	40.0	30	301
DSE32	32	93	60	30	36.0	43.0	32	380
DSE36	36	98	65	30	41.0	48.0	36	492



DSB17H



DSB19

DSB

SOCKET BIT FOR ELECTRIC SCREWDRIVER (Replaceable Type) Short Type

Suits with 18V electric impact driver

▶ Features

- 12pt. flower socket allowing smooth insertion into nuts.
- Can be used with driver bits available on the market.
- Size can be identified with color.

▶ Accessories

- Driver bit (DB2S65) 1pc.

Item No.	Sleeve color	Width across flats (S) (mm)	Size (mm)						N.W. (g)
			L	L1	L2	L3	L4	ϕD	
DSB8	Black	8	90	50	29	22.5	7	12.7	70
DSB10	Sky blue	10	90	50	29	22.5	8.5	14.5	70
DSB12	Orange	12	94	54	33	24	11	17.5	80
DSB13	Purple	13	94	54	33	24	11	17.9	80
DSB14	Green	14	94	54	33	24	13	19.7	80
DSB17	Yellow	17	98	58	37	26	13	23.5	100
DSB19	Red	19	98	58	37	26	14	26	110
DSB21	Blue	21	98	58	37	26	15.5	29.5	120
DSB24	Gold	24	98	58	37	26	17.5	33	140

DSB-H

SOCKET BIT FOR ELECTRIC SCREWDRIVER (Replaceable Type) 6pt. Socket Type

Suits with 18V electric impact driver

▶ Features

- 6pt. socket for heavy duty.
- Standard length type.
- Can be used with driver bits available on the market.
- Size can be identified with color.

▶ Accessories

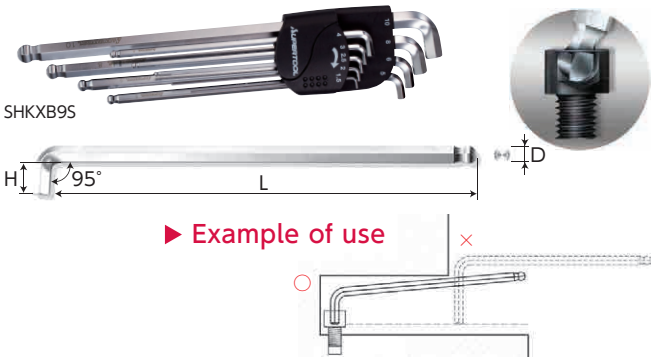
- Driver bit (DB2S65) 1pc.

Item No.	Sleeve color	Width across flats (S) (mm)	Size (mm)			N.W. (g)
			L	ϕD	ϕD1	
DSB17H	Yellow	17	20	23.5	21	110
DSB19H	Red	19		26	23	120
DSB21H	Blue	21	22	28.5	25	150
DSB24H	Gold	24		33	28.5	180

▮DRIVE BIT sold individually (common for DSE, DSB, DSB-H)

Item No.	Full length (mm)
DSB2S65	65

●For all the appendix of the general hand tools & clamps, please refer to P.278~280



SHKX • SHKXB • SHKXB-S

STUBBY EXTRA LONG ARM BALL-POINT HEX KEY WRENCH

Features

- Length (H) is designed at less than 1/2 of suitable standard, for use in confined spaces.
- Bent angle of 95° is slightly larger than the standard, so that the fingertips do not touch the surface of the workpiece.
- Up to 25° angle off-axis to screw is allowed.
- Material : SNCM•V ● Finish : Chrome plated matte finish
- Hardness : 55~60HRC

Set details (each individual wrench)

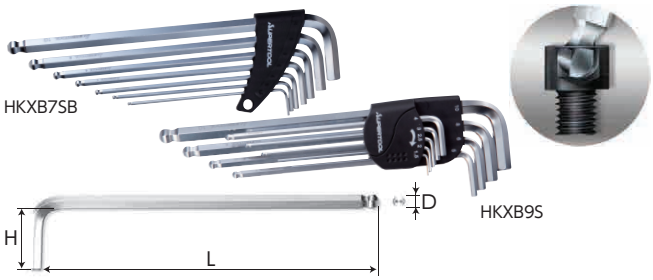
Item No.	Hex width across flats (D) (mm)	Size (mm) L	Size (mm) H	N.W. (g)
SHKX1.5	1.5	90	6	1.5
SHKX2	2	100	7	3
SHKXB2.5	2.5	112	8	5.1
SHKXB3	3	126	9	8.3
SHKXB4	4	140	11	16.6
SHKXB5	5	160	12	29.6
SHKXB6	6	180	14	48
SHKXB8	8	200	16	95.2
SHKXB10	10	224	19	167.7

∗ 1.5 and 2 are not ball-point but standard hex head.

Extra Long 9pcs-set

Item No.	Set details	Set N.W.(g)
SHKXB9S	SHKX1.5・2・SHKXB2.5・3・4・5・6・8・10	436

∗ 1.5 and 2 are not ball-point but standard hex head.



HKX • HKXB • HKXB-S • HKXB7SB

EXTRA LONG ARM BALL-POINT HEX KEY WRENCH

Features

- Up to 25° angle off-axis to screw is allowed.
- Material : SNCM•V ● Finish : Chrome plated matte finish
- Hardness : 55~60HRC

Set details (each individual wrench)

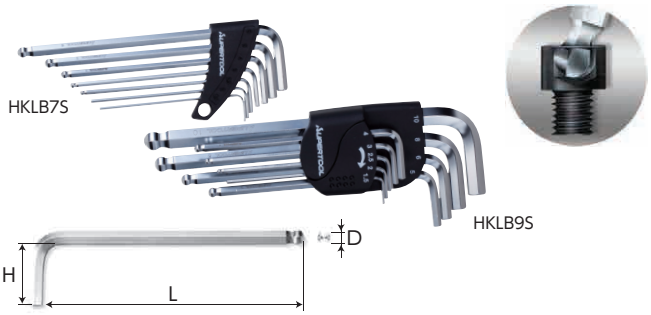
Item No.	Hex width across flats (D) (mm)	Size (mm) L	Size (mm) H	N.W. (g)
HKX1.5	1.5	90	14	1.6
HKX2	2	100	16	3.2
HKXB2.5	2.5	112	18	5.6
HKXB3	3	125	20	9
HKXB4	4	140	24	18
HKXB5	5	158	28	32
HKXB6	6	178	32	52
HKXB8	8	200	36	104.1
HKXB10	10	224	40	182.2

∗ 1.5 and 2 are not ball-point but standard hex head.

Extra Long 7pcs-set・9pcs-set

Item No.	Set details	Set N.W. (g)
HKXB7S	HKX1.5・2・HKXB2.5・3・4・5・6	122
HKXB7SB	HKXB2.5・3・4・5・6・8・10	463
HKXB9S	HKX1.5・2・HKXB2.5・3・4・5・6・8・10	472

∗ 1.5 and 2 are not ball-point but standard hex head.



HKL • HKLB-S

LONG ARM BALL-POINT HEX KEY WRENCH

Features

- Up to 25° angle off-axis to screw is allowed.
- Material : SNCM•V ● Finish : Chrome plated matte finish
- Hardness : 55~60HRC

Set details (each individual wrench)

Item No.	Hex width across flats (D) (mm)	Size (mm) L	Size (mm) H	N.W. (g)
HKL1.5	1.5	77	14	1.4
HKL2	2	83	16	2.7
HKLB2.5	2.5	90	18	4.6
HKLB3	3	98	20	7.3
HKLB4	4	106	24	14.3
HKLB5	5	118	28	25.2
HKLB6	6	137	32	42
HKLB8	8	156	36	84.9
HKLB10	10	170	40	145.4

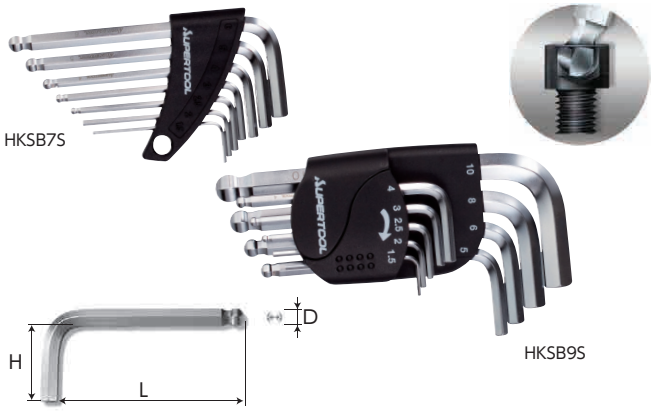
∗ 1.5 and 2 are not ball-point but standard hex head.

Long 7pcs-set・9pcs-set

Item No.	Set details	Set N.W. (g)
HKLB7S	HKL1.5・2・HKLB2.5・3・4・5・6	99
HKLB9S	HKL1.5・2・HKLB2.5・3・4・5・6・8・10	385

∗ 1.5 and 2 are not ball-point but standard hex head.

●For all the appendix of the general hand tools & clamps, please refer to P.278~280



HKS • HKSB • HKSB-S

STANDARD ARM BALL-POINT HEX KEY WRENCH

▶ Features

- Up to 25° angle off-axis to screw is allowed.
- Material : SNCM·V
- Finish : Chrome plated matte finish
- Hardness : 55~60HRC

■Set details (each individual wrench)

Item No.	Hex width across flats (D) (mm)	Size (mm) L	Size (mm) H	N.W. (g)
HKS1.5	1.5	45	14	0.9
HKS2	2	50	16	1.8
HKSB2.5	2.5	56	18	3.2
HKSB3	3	63	20	5.2
HKSB4	4	70	24	10.4

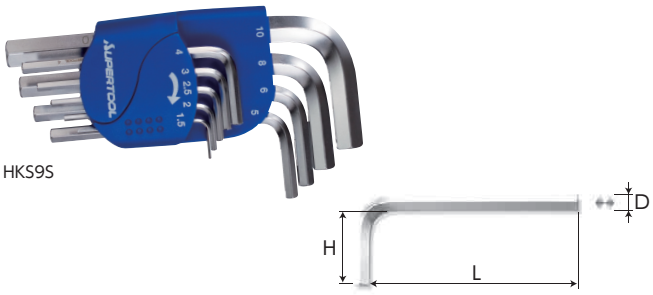
Item No.	Hex width across flats (D) (mm)	Size (mm) L	Size (mm) H	N.W. (g)
HKSB5	5	79	28	18.5
HKSB6	6	90	32	30.4
HKSB8	8	100	36	60.5
HKSB10	10	112	40	105.9

∗ 1.5 and 2 are not ball-point but standard hex head.

■Standard 7pcs-set·9pcs-set

Item No.	Set details	Set N.W.(g)
HKSB7S	HKS1.5·2·HKSB2.5·3·4·5·6	73
HKSB9S	HKS1.5·2·HKSB2.5·3·4·5·6·8·10	292

∗ 1.5 and 2 are not ball-point but standard hex head.



HKX • HKX9S

EXTRA LONG ARM HEX KEY WRENCH

▶ Features

- Material : SNCM·V
- Finish : Chrome plated matte finish
- Hardness : 55~60HRC

■Set details (each individual wrench)

Item No.	Hex width across flats (D) (mm)	Size (mm) L	Size (mm) H	N.W. (g)
HKX1.5	1.5	90	14	1.6
HKX2	2	100	16	3.2
HKX2.5	2.5	112	18	5.6
HKX3	3	125	20	9
HKX4	4	140	24	18
HKX5	5	158	28	32
HKX6	6	178	32	52
HKX8	8	200	36	104.1
HKX10	10	224	40	182.2

■Extra Long 9pcs-set

Item No.	Set details	Set N.W. (g)
HKX9S	HKX1.5·2·2.5·3·4·5·6·8·10	472

HKS • HKS9S

STANDARD ARM HEX KEY WRENCH

▶ Features

- Material : SNCM·V
- Finish : Chrome plated matte finish
- Hardness : 55~60HRC

■Set details (each individual wrench)

Item No.	Hex width across flats (D) (mm)	Size (mm) L	Size (mm) H	N.W. (g)
HKS1.5	1.5	45	14	0.9
HKS2	2	50	16	1.8
HKS2.5	2.5	56	18	3.2
HKS3	3	63	20	5.2
HKS4	4	70	24	10.4
HKS5	5	79	28	18.5
HKS6	6	90	32	30.4
HKS8	8	100	36	60.5
HKS10	10	112	40	105.9

■Standard 9pcs-set

Item No.	Set details	Set N.W. (g)
HKS9S	HKS1.5·2·2.5·3·4·5·6·8·10	292

●For all the appendix of the general hand tools & clamps, please refer to P.278~280

HTLH • HTLH9S

LONG ARM HEX LOBE KEY WRENCH (Tamper Resistant) with Hole

▶ Features

- Material : SNCM•V
- Finish : Black finish
- Hardness : 55~60HRC

■Set details (each individual wrench)

Item No.	Size name	Size (mm)		N.W. (g)
		L	H	
HTLH8	T8	80	16	6.7
HTLH10	T10	86	17	7.1
HTLH15	T15	90	18	7.5
HTLH20	T20	95	19	12.4
HTLH25	T25	100	20	18.8

Item No.	Size name	Size (mm)		N.W. (g)
		L	H	
HTLH27	T27	105	22	19.8
HTLH30	T30	114	24	29.3
HTLH40	T40	124	26	41.7
HTLH50	T50	152	32	80.2

∗ There is a security hole at the longer side end.
∗ The screw to be used for the hex lobe with security hole is a non-standard product and the size of its protrusion may be larger for some screws. In such cases, our hex lobe wrench may not fit.

■Long 9pcs-set

Item No.	Set details	Set N.W.(g)
HTLH9S	HTLH8•10•15•20•25•27•30•40•50	241

HTLB • HTLB9S

LONG ARM BALL-POINT HEX LOBE KEY WRENCH

▶ Features

- Ball point applicable to hex lobe screws.
- Up to 25° angle off-axis to screw is allowed.
- Material : SNCM•V
- Finish : Black finish
- Hardness : 55~60HRC

▶ Example of use

■Set details (each individual wrench)

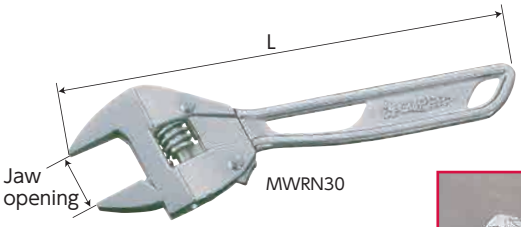
Item No.	Size name	Size (mm)		N.W. (g)
		L	H	
HTLB8	T8	80	16	6.7
HTLB10	T10	86	17	7.1
HTLB15	T15	90	18	7.5
HTLB20	T20	95	19	12.4
HTLB25	T25	100	20	18.8

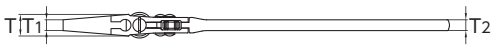
Item No.	Size name	Size (mm)		N.W. (g)
		L	H	
HTLB27	T27	105	22	19.8
HTLB30	T30	114	24	29.3
HTLB40	T40	124	26	41.7
HTLB50	T50	152	32	80.2

■Long 9pcs-set

Item No.	Set details	Set N.W.(g)
HTLB9S	HTLB8•10•15•20•25•27•30•40•50	241

●For all the appendix of the general hand tools & clamps, please refer to P.278~280





MWRN

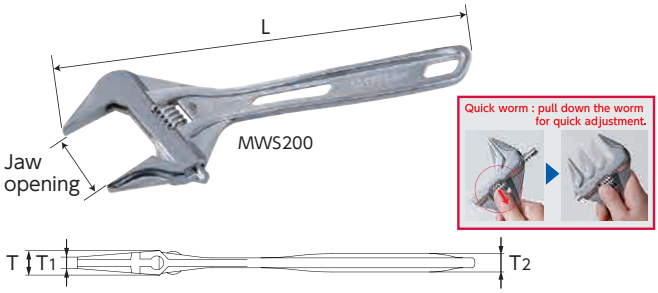
WIDE ADJUSTABLE ANGLE WRENCH (Ratchet Type) PAT.

Ratchet mechanism convenient for continuous operation

▶ Features

- Click worm mechanism to prevent worm looseness.
- Ratchet mechanism on/off switch lever.
- Thin and light-weighted design bringing outstanding operability.
- Light weight with ratchet mechanism and yet JIS class strength.

Item No.	Size name (mm)	Size (mm)					N.W. (g)
		Jaw opening	L	T	T1	T2	
MWRN30	200	0~30	200	13	6	6	260
MWRN36	250	0~36	250	14	7	7	390



MWS

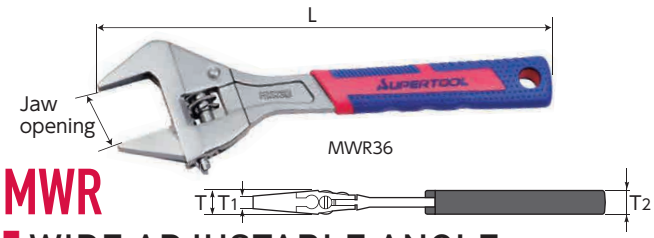
SUPER WIDE ADJUSTABLE ANGLE WRENCH (Quick Adjusting Type)

MOVIE

▶ Features

- Quick worm slide, super wide jaw opening, light-weighted thin type.
- The quick worm sliding mechanism allows very fast size adjustment.
- The push spring worm mechanism avoid looseness.
- The grip part is designed to be firmly grasp easily.

Item No.	Size name (mm)	Size (mm)					N.W. (g)	Guaranteed load (N·m)
		Jaw opening	L	T	T1	T2		
MWS200	200	0~38	210	13.5	6.7	10.5	270	294.2
MWS250	250	0~50	260	16	7.5	12	480	480.5
MWS300	300	0~60	320	18.5	8.3	13	810	882.6



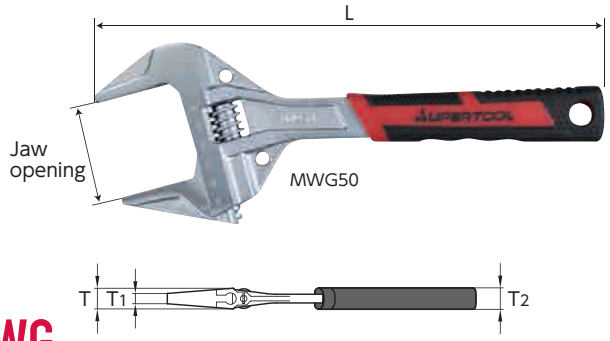
MWR

WIDE ADJUSTABLE ANGLE WRENCH (Ratchet Type)

▶ Features

- Efficient work with a thin and light-weighted body.
- Wider jaw design.
- Light weight with ratchet mechanism and yet JIS class strength.

Item No.	Size name (mm)	Size (mm)					N.W. (g)
		Jaw opening	L	T	T1	T2	
MWR30	200	0~30	205	12.5	6.5	14	280
MWR36	250	0~36	246	13.4	6.8	16	380



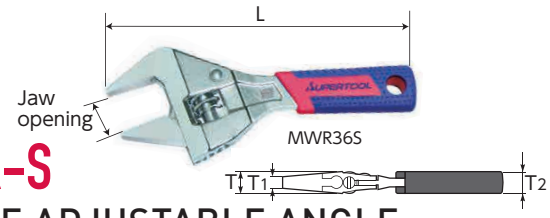
MWG

SUPER WIDE ADJUSTABLE ANGLE WRENCH (Grip Type)

▶ Features

- Super wide jaw opening.
- Thin jaws and light-weighted.
- JIS class strength.
- Grip part comfortable to the hands.

Item No.	Size name (mm)	Size (mm)					N.W. (g)
		Jaw opening	L	T	T1	T2	
MWG38	200	0~38	210	13.5	6.7	14	290
MWG50	250	0~50	260	16	7.5	16	390



MWR-S

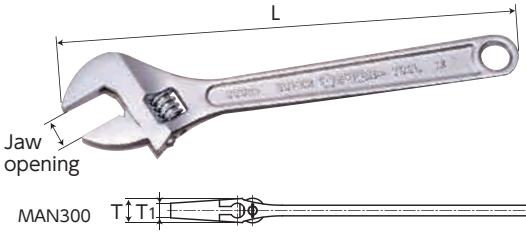
WIDE ADJUSTABLE ANGLE WRENCH (Short Ratchet Type)

▶ Features

- Efficient work with a thin and light-weighted body.
- Wider jaw design.
- Light weight with ratchet mechanism and yet JIS class strength.
- Short, pocket size type.

Item No.	Size (mm)					N.W. (g)
	Jaw opening	L	T	T1	T2	
MWR30S	0~30	152	12.5	6.6	14	190
MWR36S	0~36	181	14	7.3	15	300

●For all the appendix of the general hand tools & clamps, please refer to P.278~280



MAN

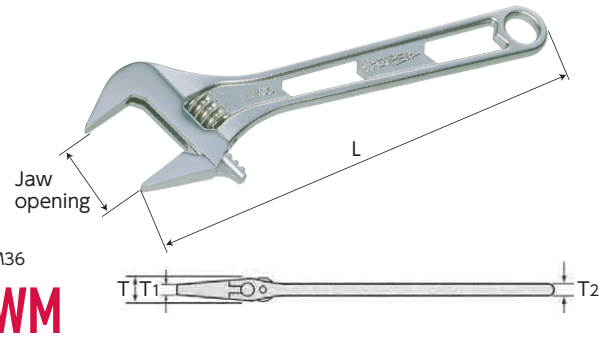
ADJUSTABLE ANGLE WRENCH (Heavy Duty Type) H JIS

▶ Feature
- Loading capacity exceeds by far JIS H class.

Item No.	Size name (mm)	Size (mm)					N.W. (g)
		Jaw opening	L	T	T1	T2	
MAN300	300	0~34	308	18.5	10.4	9.5	635
MAN375	375	0~44	384	20	13.4	10	1,136
MAN450	450	0~55	458	22.4	15.9	12.5	1,736

∗ MAN450 is out of JIS standard.

Item No.	Size name (mm)	Size (mm)					N.W. (g)
		Jaw opening	L	T	T1	T2	
MAN100	100	0~13	108	9	5.8	4.8	50
MAN150	150	0~20	158	11	7	5.6	125
MAN200	200	0~24	208	13.5	7.8	6.6	235
MAN250	250	0~29	258	15.5	8.9	7.5	405

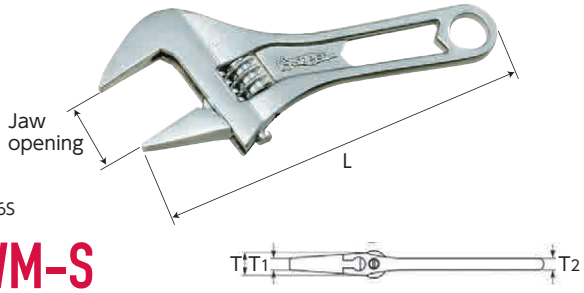


MWM

WIDE ADJUSTABLE ANGLE WRENCH (Light-weight and Thin Type)

▶ Features
- Wider jaw design.
- Efficient work with a thin and light-weighted body.
- Light-weight and yet JIS H class strength.

Item No.	Size name (mm)	Size (mm)					N.W. (g)
		Jaw opening	L	T	T1	T2	
MWM24	150	0~24	150	10.7	6	5	100
MWM30	200	0~30	203	12.5	6.6	5.7	185
MWM36	250	0~36	244	13.5	6.8	6.5	275



MWM-S

WIDE ADJUSTABLE ANGLE WRENCH (Light-weight and Short Type)

▶ Features
- Wider jaw design.
- Efficient work with a thin and light-weighted body.
- Light-weight and yet JIS H class strength.
- Optimal for use in confined spaces.
- Short, pocket size type.

Item No.	Size (mm)					N.W. (g)
	Jaw opening	L	T	T1	T2	
MWM24S	0~24	118.4	10.7	6	5	90
MWM30S	0~30	140.1	12.5	6.6	5.7	150
MWM36S	0~36	159	13.5	6.8	6.5	220

MWM-(B・R・Y・H)

WIDE ADJUSTABLE ANGLE WRENCH (Color Grip Type)

▶ Feature
- 4 different color grips for each MWM size.
  B: Blue R: Red Y: Yellow H: Grey

Item No.	Size name (mm)	Size (mm)					N.W. (g)
		Jaw opening	L	T	T1	T2	
MWM24 (B·R·Y·H)	150	0~24	150.5	10.7	6	6	100
MWM30 (B·R·Y·H)	200	0~30	203.5	12.5	6.6	6.7	185
MWM36 (B·R·Y·H)	250	0~36	244.5	13.5	6.8	7.5	275

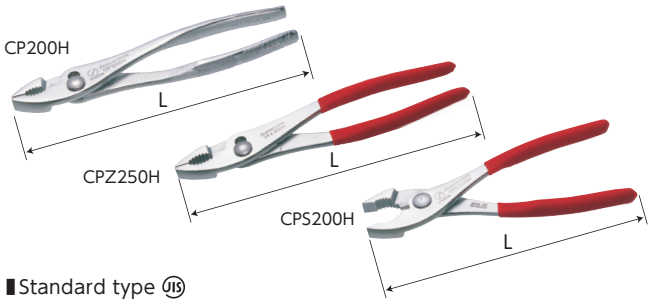
MWM-(SB・SR・SY・SH)

WIDE ADJUSTABLE ANGLE WRENCH (Color Grip and Short Type)

▶ Feature
- 4 different color grips for each MWM-S size.
  B: Blue R: Red Y: Yellow H: Grey

Item No.	Size (mm)					N.W. (g)
	Jaw opening	L	T	T1	T2	
MWM24 (SB·SR·SY·SH)	0~24	118.9	10.7	6	6	90
MWM30 (SB·SR·SY·SH)	0~30	140.6	12.5	6.6	6.7	150
MWM36 (SB·SR·SY·SH)	0~36	159.5	13.5	6.8	7.5	220

●For all the appendix of the general hand tools & clamps, please refer to P.278~280



CP-H • CPZ-H • CPS200H
COMBINATION PLIERS

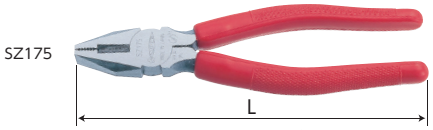
▶ Features
- Jaw opening adjustable in 2 steps according to the size.
- Blades can cut soft material like copper strings, stainless strings, needles.
- Special spring mechanism optimal for continuous operations (CPS200H).

▮Standard type (JIS)

Item No.	Size (mm)			Cutting capacity (mm)	N.W. (g)
	L	Jaw opening	Tip side width		
CP150H	165	0~20	9.3	φ2	165
CP200H	203	0~25	11	φ2.6	270
▮Spring type					
CPS200H	204	0~25	11	φ2.6	275

▮Vinyl grip type (JIS) (except CPZ250H)

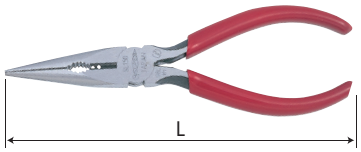
Item No.	Size (mm)			Cutting capacity (mm)	N.W. (g)
	L	Jaw opening	Tip side width		
CPZ150H	166	0~20	9.3	φ2	170
CPZ200H	204	0~25	11	φ2.6	275
CPZ250H	250	0~30	11.5	φ3.2	380



SZ
SIDE CUTTING PLIERS (JIS) (with Molded Cover)

▶ Features
- Great variety of uses like pulling, gripping, bending and cutting steel and copper wires.
- Formed plastic grip cover allows easy ergonomic and non-slip gripping.

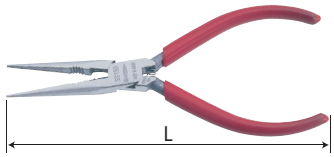
Item No.	Size (mm)	Cutting capacity (mm)		N.W. (g)
	L	Steel wire	Copper wire	
SZ150	160	φ2.0	φ3.0	230
SZ175	185	φ2.6	φ3.5	320
SZ200	210	φ3.2	φ4.0	410



SL150
ADJUSTABLE LONG NOSE PLIERS (JIS)

▶ Features
- Great variety of uses like pulling, gripping, bending and cutting steel and copper wires.
- Optimal for working on small items or in confined spaces.

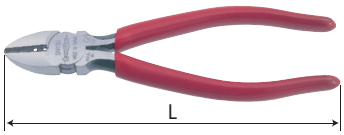
Item No.	Size (mm)	Cutting capacity (mm)		N.W. (g)
	L	Steel wire	Copper wire	
SL150	165	φ1.2	φ2.6	150



SS150
NEEDLE NOSE PLIERS (JIS) (with Spring)

▶ Feature
- Optimal for intricate working on items smaller than SL150 and for use in confined spaces.

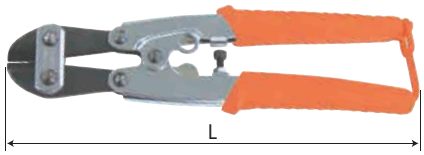
Item No.	Size (mm)	Cutting capacity (mm)		N.W. (g)
	L	Steel wire	Copper wire	
SS150	160	φ1.2	φ2.0	100



SN150
HEAVY DUTY DIAGONAL CUTTING PLIERS (JIS)

▶ Features
- To be used exclusively for cutting steel and copper wires.
- Optimal for intricate working and repairing on electric equipment.

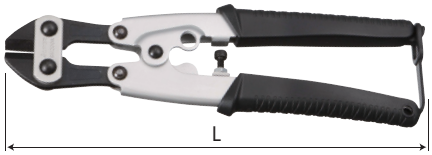
Item No.	Size (mm)	Cutting capacity (mm)			N.W. (g)
	L	Steel wire	Copper wire	Piano wire	
SN150	160	φ1.8	φ2.6	φ1.2	170



SM200H
SUPER CUTTER

▶ Features
- The high grade heat treatment applied to the blades ensures long durability and excellent cutting quality.
- Straight blades very useful for cutting steel wires, piano wires, fences, nails, etc.

Item No.	Size (mm)	Cutting capacity (mm)		N.W. (g)
	L	Steel wire	Piano wire	
SM200H	215	φ4	φ2	290



SM200A
SUPER CUTTER (Aluminum Handle)

▶ Features
- Light type with aluminum handle.
- The high grade heat treatment applied to the blades ensures long durability and excellent cutting quality.
- Straight blades very useful for cutting steel wires, piano wires, fences, nails, etc.

Item No.	Size (mm)	Cutting capacity (mm)		N.W. (g)
	L	Steel wire	Piano wire	
SM200A	215	φ4	φ2	160

●For all the appendix of the general hand tools & clamps, please refer to P.278~280

CS0A

CS0B

CS-A • CS-B

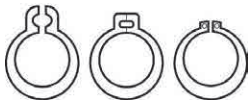
SNAP RING PLIERS (for Shaft Use)

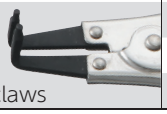
▶ Features

- The phosphoric acid manganese film forming treatment of the alloy steel ensures excellent durability.
- The stainless steel grip area is designed to be light and easy to grip.

For shaft use

⬅ Open ➡



Claws type	Item No.	Size (mm)			N.W. (g)
		Claw tip dia.	Applicable range (stop ring size)	L	
Straight claws	**CS0A**	0.9	4～10	140	60
	CS1A	1.7	12～30	180	120
	CS3A	2.5	32～80	200	140
 Bent claws	**CS0B**	0.9	4～10	130	60
	CS1B	1.7	12～30	172	120
	CS3B	2.5	32～80	192	140

CH0A

CH0B

CH-A • CH-B

SNAP RING PLIERS (for Hole Use)

▶ Features

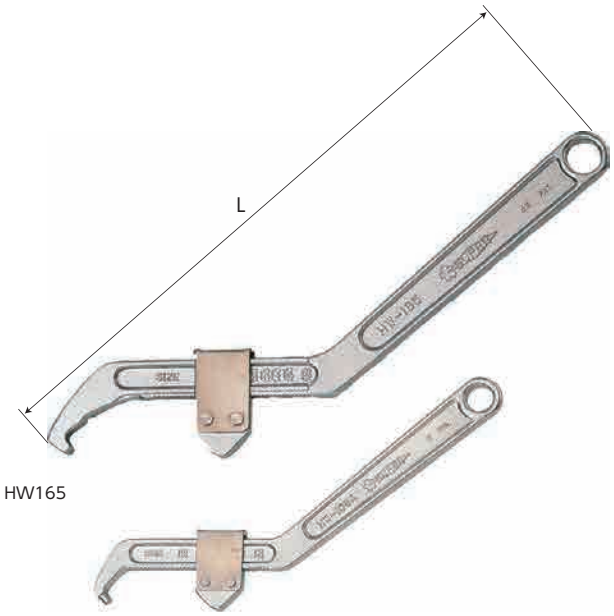
- The phosphoric acid manganese film forming treatment of the alloy steel ensures excellent durability.
- The stainless steel grip area is designed to be light and easy to grip.

For hole use

➡ Close ⬅

Claws type	Item No.	Size (mm)			N.W. (g)
		Claw tip dia.	Applicable range (stop ring size)	L	
Straight claws	**CH0A**	0.9	8～25	140	60
	CH1A	1.7	14～60	180	130
	CH4A	2.5	40～100	225	150
Bent claws	**CH0B**	0.9	8～25	130	60
	CH1B	1.7	14～60	168	130
	CH4B	2.5	40～100	212	150

●For all the appendix of the general hand tools & clamps, please refer to P.278～280



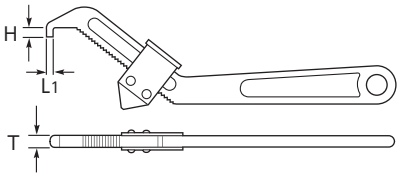
HW165

HW105A

HW • HW105A
HOOK SPANNER

▶ Feature
- Special spanner for tightening and removing round nuts with notches or holes.

▶ Example of use

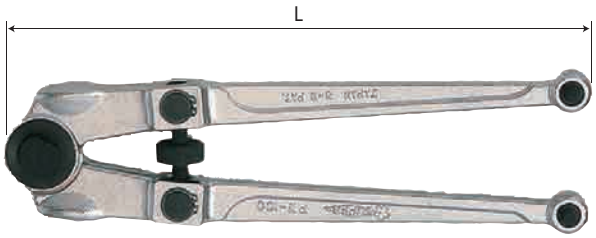


▮Standard type

Item No.	Applicable round nut dia. (mm)	Size (mm)				N.W. (g)
		L	L1	H	T	
HW105	35～105	270	4.0	6.5	8	350
HW165	95～165	365	6.5	8	10	680

▮Round tip type

Item No.	Applicable round nut dia. (mm)	Size (mm)				N.W. (g)
		L	L1	H	T	
HW105A	35～105	270	ϕ6	6.5	8	350



PW100 • PWA • PWB
PIN SPANNER

▶ Features
- Special spanner for tightening and removing round nuts with pin holes.
- Designed to be used by hammering the rotating part at the end of the handle.
- The opening range is adjustable between 18～100mm by simply turning the roulette located at the base of the body.

▶ Example of use

▶ Accessories
- PWA･PWB pins (a pair)

Item No.	Size (mm)		N.W. (g)
	Opening (from the pins center)	L	
PW100	18～100	250	600

PWA PWB

▶ Features
- The usage range can be expanded by changing the pins.
- Pins have two 10mm-wide sides to allow easy changing with a spanner.

▮Pins (a pair)

Item No.	Size (mm)	
	Thinner part X Larger part (pin dia.)	Pin length
PWA	5×7	5.8×7.5
PWB	6×8	7×8

●For all the appendix of the general hand tools & clamps, please refer to P.278～280

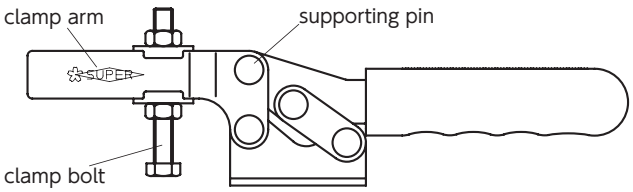
Tool sets / cases
Socket wrenches
Ratchet wrenches
Offset wrenches, grips
Gear wrenches, open-end spanners
Spanners
Safety ropes
Combination hammer
Sockets
Hex key wrenches
Adjustable angle wrenches
Pliers
Hook spanners, pin spanners
Toggle clamps
C clamps
L clamps
Super setters
Grip pliers
Welding tools
Iron man

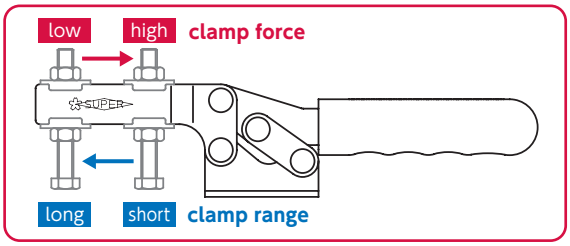
▮Toggle clamp lineup outline:

At Super Tool we assorted a toggle clamp line up featuring hold-down type (horizontal handle vertical handle types), push type, push/pull type and latch type. These items are best suited for inspection jigs, welding jigs, assembly jigs or processing jigs. Stainless steel assembly pins are equipping almost all the models, so they can be used for a long time.

▮Max. holding capacity (clamping force) and max. clamp range:

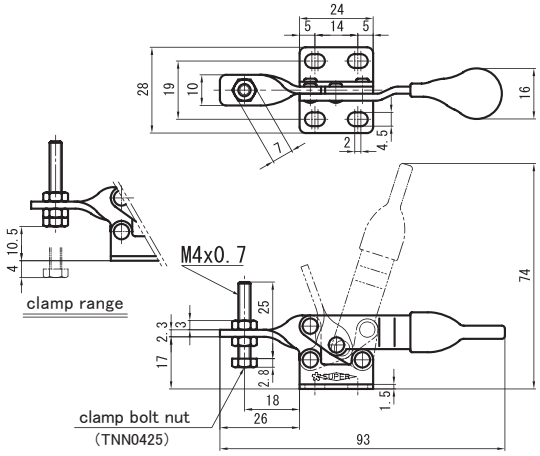
For the hold-down type clamps, the maximum force is measured with the spindle position nearest to the handle. Therefore, the clamp force gets lower as the spindle comes nearer to the tip of the clamp arm.





TOGGLE CLAMP (Horizontal Handle Type)

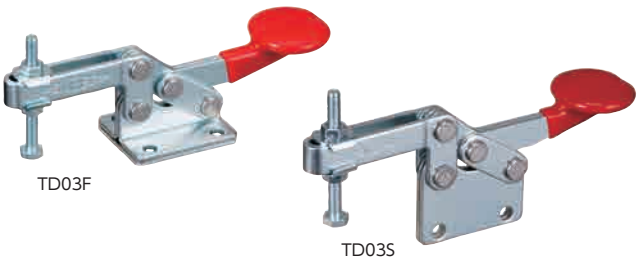
TD01F

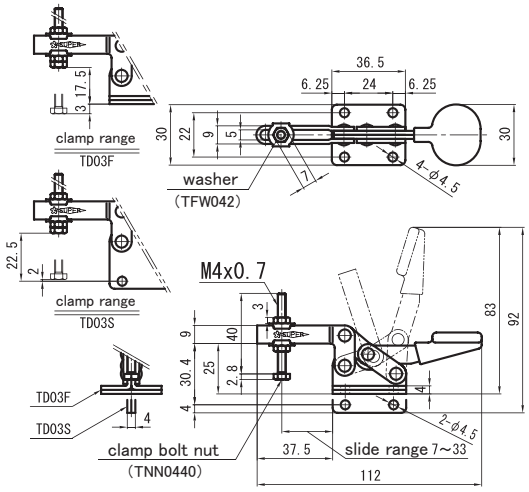


Item No.	Base type	N.W.(g)
TD01F	Flange	38

- Max. holding capacity : 0.2kN
- Handle operation angle : 75˚
- Clamp arm moving angle : 75˚
- Supporting pin : stainless steel

TD03F • TD03S

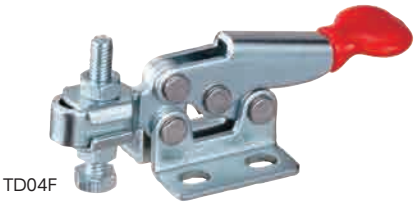


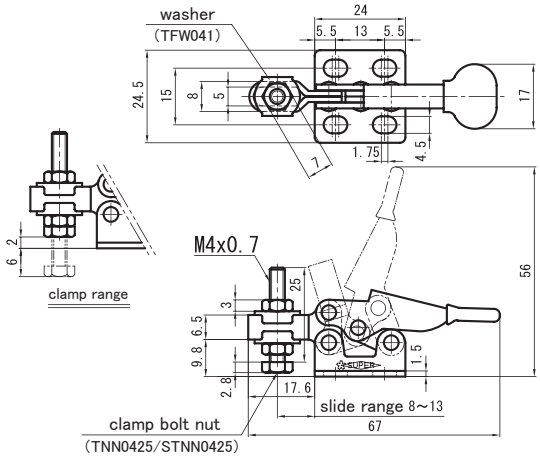


Item No.	Base type	N.W.(g)
TD03F	Flange	105
TD03S	Straight	105

- Max. holding capacity : 0.3kN
- Handle operation angle : 55˚
- Clamp arm moving angle : 65˚
- Supporting pin : stainless steel

TD04F • STD04F



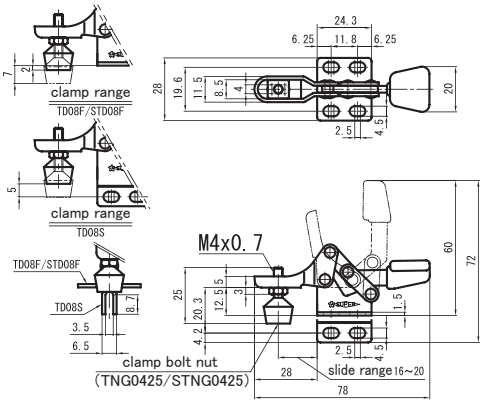


Item No.	Base type	N.W.(g)
TD04F	Flange	33
STD04F	Flange/stainless steel	33

- Max. holding capacity : 0.2kN
- Handle operation angle : 65˚
- Clamp arm moving angle : 55˚
- Supporting pin : stainless steel

TOGGLE CLAMP
(Horizontal Handle Type)

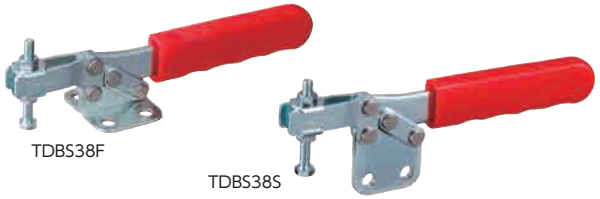
TD08(F・S)・STD08F

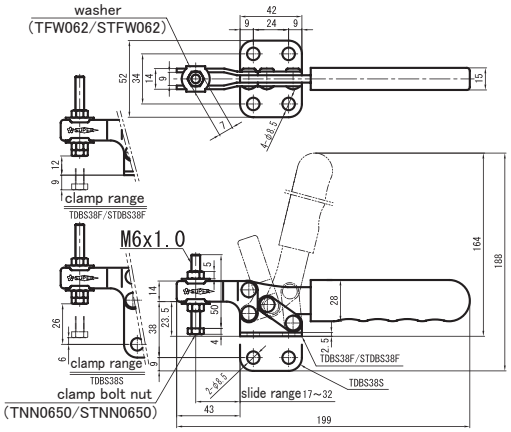


Item No.	Base type	N.W.(g)
TD08F	Flange	42
TD08S	Straight	42
STD08F	Flange/stainless steel	42

- Max. holding capacity : 0.3kN
- Handle operation angle : 88°
- Clamp arm moving angle : 80°
- Supporting pin : stainless steel

TDBS38(F・S)・STDBS38F

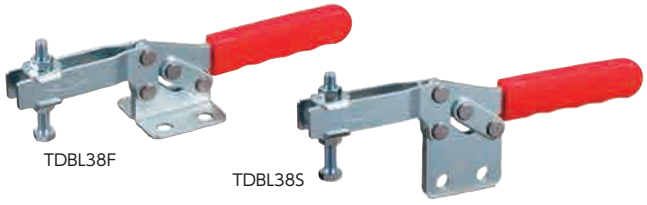


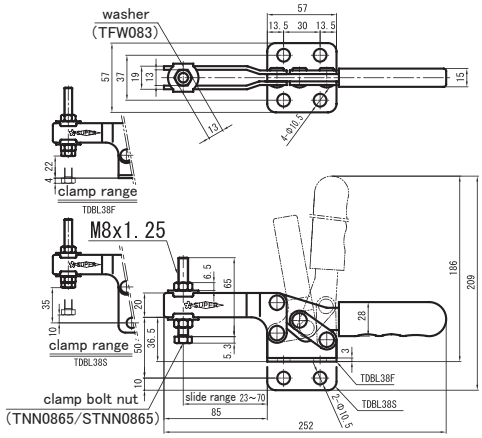


Item No.	Base type	N.W.(g)
TDBS38F	Flange	222
TDBS38S	Straight	222
STDBS38F	Flange/stainless steel	222

- Max. holding capacity : 2.5kN
- Handle operation angle : 70°
- Clamp arm moving angle : 75°
- Supporting pin : stainless steel

TDBL38(F・S)・STDBL38F

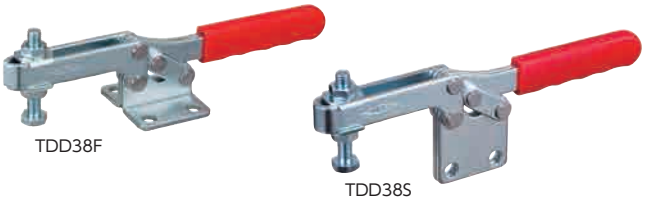


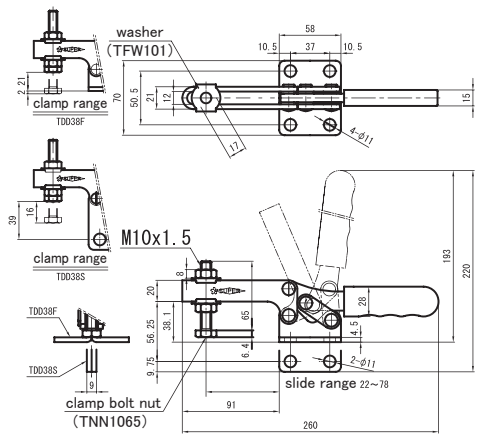


Item No.	Base type	N.W.(g)
TDBL38F	Flange	447
TDBL38S	Straight	447
STDBL38F	Flange/stainless steel	447

- Max. holding capacity : 2.8kN
- Handle operation angle : 80°
- Clamp arm moving angle : 80°
- Supporting pin : stainless steel

TDD38F・TDD38S



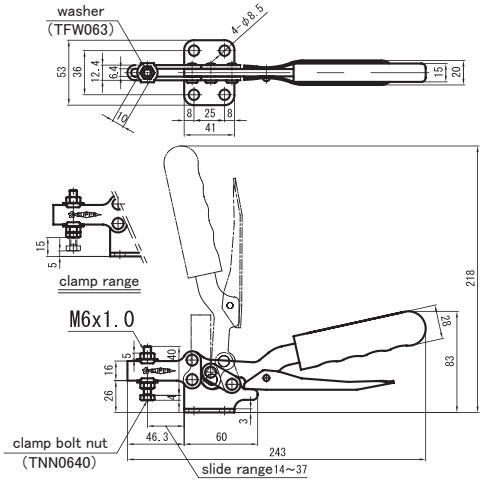


Item No.	Base type	N.W.(g)
TDD38F	Flange	705
TDD38S	Straight	705

- Max. holding capacity : 5.0kN
- Handle operation angle : 85°
- Clamp arm moving angle : 65°
- Supporting pin : stainless steel

TOGGLE CLAMP
(Horizontal Handle Type)

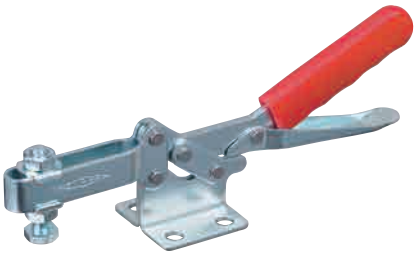
TDKS38F

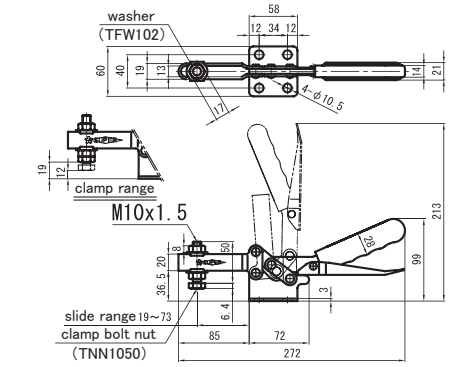


Item No.	Base type	N.W.(g)
TDKS38F	Flange	380

- Max. holding capacity : 2.8kN
- Handle operation angle : 90˚
- Clamp arm moving angle : 90˚
- Supporting pin : stainless steel

TDKL38F

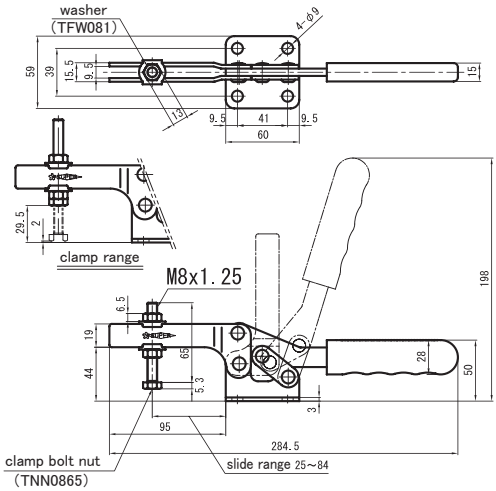




Item No.	Base type	N.W.(g)
TDKL38F	Flange	560

- Max. holding capacity : 3.0kN
- Handle operation angle : 85˚
- Clamp arm moving angle : 80˚
- Supporting pin : stainless steel

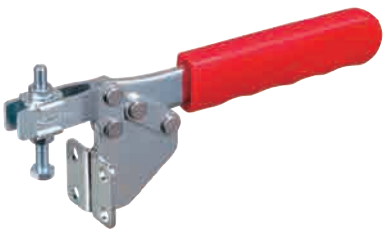
TDA43F

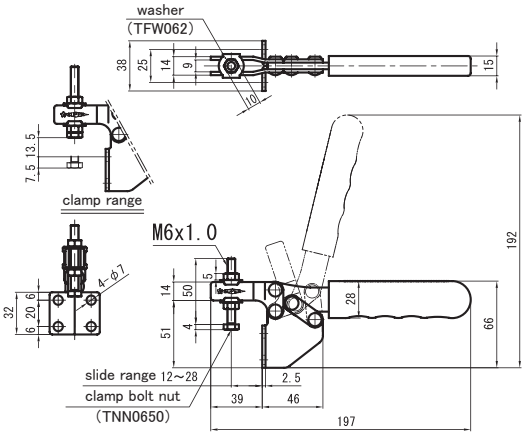


Item No.	Base type	N.W.(g)
TDA43F	Flange	500

- Max. holding capacity : 2.8kN
- Handle operation angle : 72˚
- Clamp arm moving angle : 90˚
- Supporting pin : stainless steel

TDCS38F



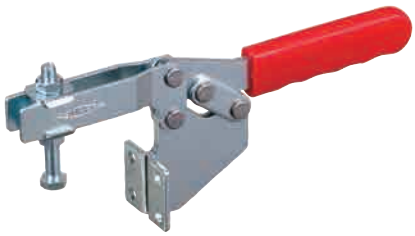


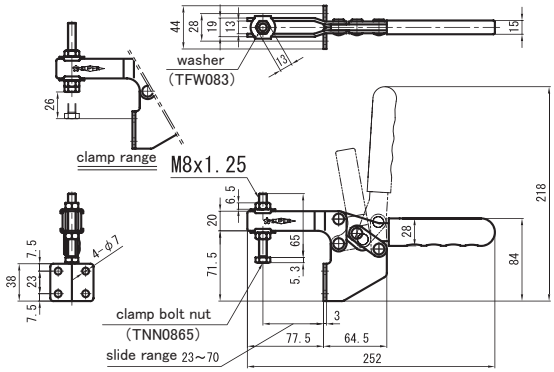
Item No.	Base type	N.W.(g)
TDCS38F	Flange	245

- Max. holding capacity : 2.5kN
- Handle operation angle : 72˚
- Clamp arm moving angle : 72˚
- Supporting pin : stainless steel

TOGGLE CLAMP (Horizontal Handle Type)

TDCL38F

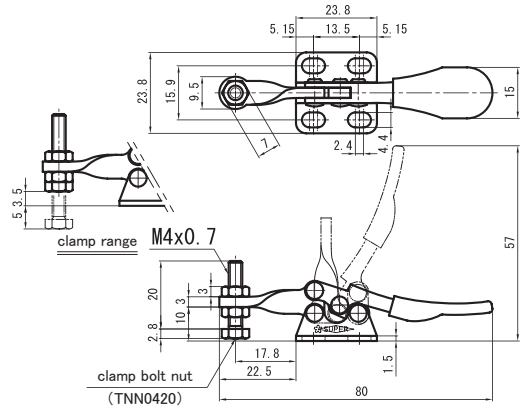




Item No.	Base type	N.W.(g)
TDCL38F	Flange	500

- Max. holding capacity : 2.8kN
- Handle operation angle : 80°
- Clamp arm moving angle : 80°
- Supporting pin : stainless steel

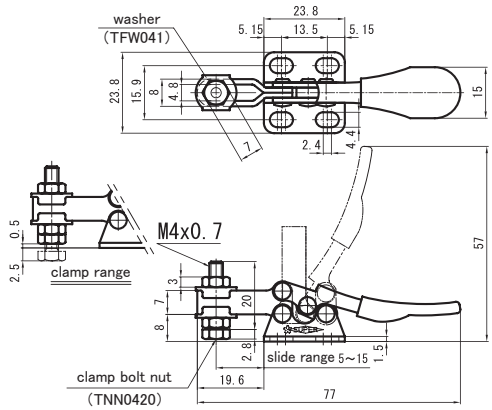
TDH150F



Item No.	Base type	N.W.(g)
TDH150F	Flange	28

- Max. holding capacity : 0.27kN
- Handle operation angle : 80°
- Clamp arm moving angle : 90°
- Supporting pin : stainless steel

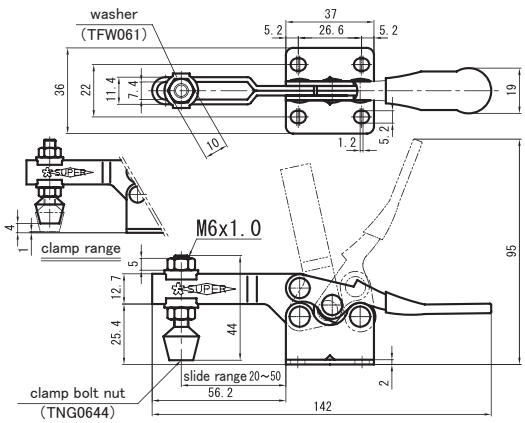
TDH250F



Item No.	Base type	N.W.(g)
TDH250F	Flange	30

- Max. holding capacity : 0.27kN
- Handle operation angle : 80°
- Clamp arm moving angle : 90°
- Supporting pin : stainless steel

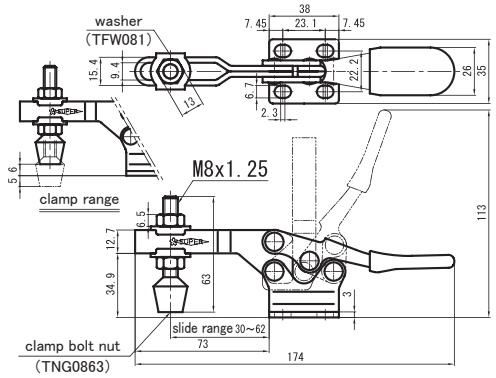
TDH350F



Item No.	Base type	N.W.(g)
TDH350F	Flange	124

- Max. holding capacity : 0.9kN
- Handle operation angle : 60°
- Clamp arm moving angle : 85°
- Supporting pin : stainless steel

Tool sets / cases
Socket wrenches
Ratchet wrenches
Offset wrenches, grips
Gear wrenches, open-end spanners
Spanners
Safety ropes
Combination hammer
Sockets
Hex key wrenches
Adjustable angle wrenches
Pliers
Hook spanners, pin spanners
Toggle clamps
C clamps
L clamps
Super setters
Grip pliers
Welding tools
Iron man

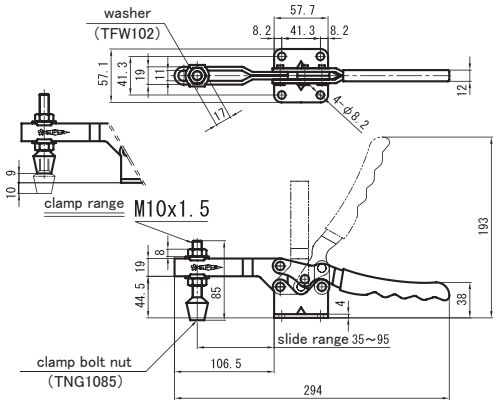


TOGGLE CLAMP (Horizontal Handle Type)

TDH450F

Item No.	Base type	N.W.(g)
TDH450F	Flange	252

- Max. holding capacity : 2.27kN
- Handle operation angle : 65˚
- Clamp arm moving angle : 90˚
- Supporting pin : stainless steel



TDH550F

Item No.	Base type	N.W.(g)
TDH550F	Flange	655

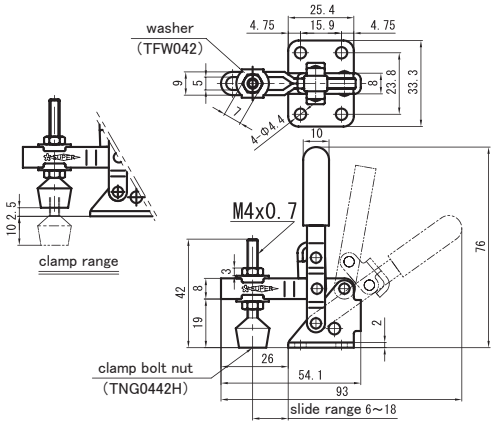
- Max. holding capacity : 3.4kN
- Handle operation angle : 50˚
- Clamp arm moving angle : 85˚
- Supporting pin : stainless steel

TOGGLE CLAMP (Vertical Handle Type)

TDV150F

Item No.	Base type	N.W.(g)
TDV150F	Flange	66

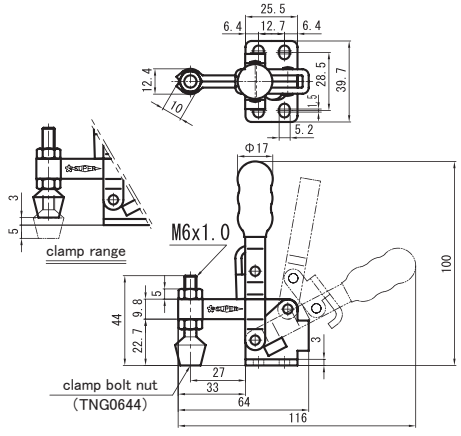
- Max. holding capacity : 0.5kN
- Handle operation angle : 56˚
- Clamp arm moving angle : 100˚
- Supporting pin : stainless steel

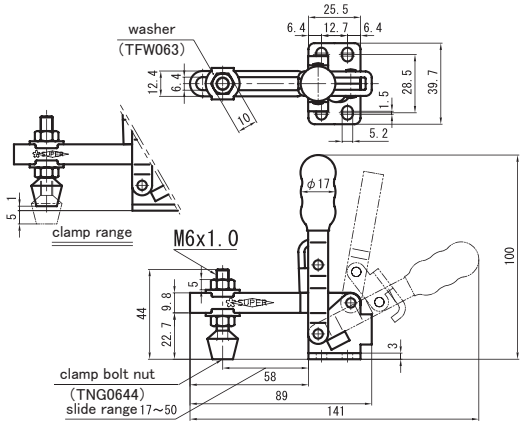


TDV250F

Item No.	Base type	N.W.(g)
TDV250F	Flange	150

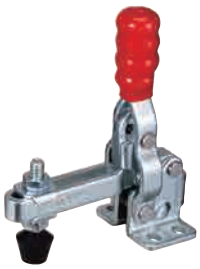
- Max. holding capacity : 0.91kN
- Handle operation angle : 60˚
- Clamp arm moving angle : 100˚
- Supporting pin : stainless steel





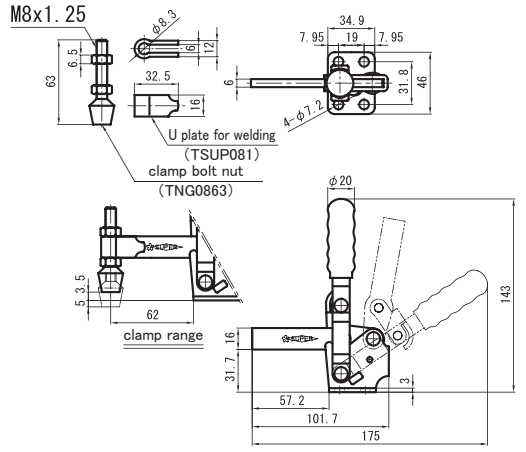
TOGGLE CLAMP (Vertical Handle Type)

TDV250FL

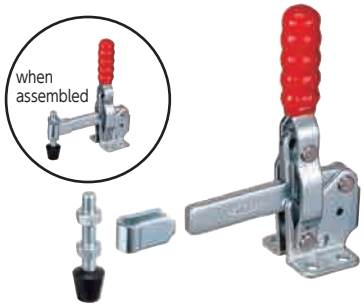


Item No.	Base type	N.W.(g)
TDV250FL	Flange	165

- Max. holding capacity : 0.91kN
- Clamp arm moving angle : 100˚
- Handle operation angle : 60˚
- Supporting pin : stainless steel

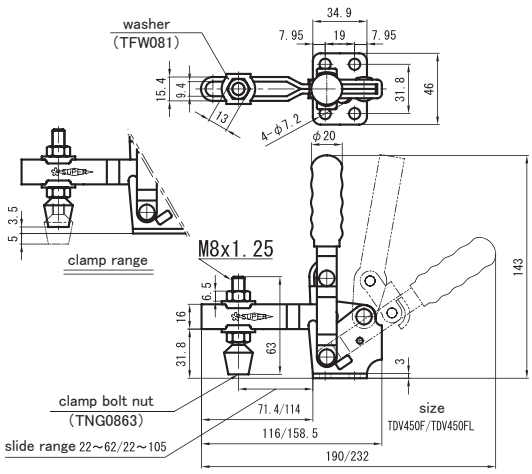


TDV350F



Item No.	Base type	N.W.(g)
TDV350F	Flange	350

- Max. holding capacity : 2.27kN
- Clamp arm moving angle : 100˚
- Handle operation angle : 55˚
- Supporting pin : stainless steel



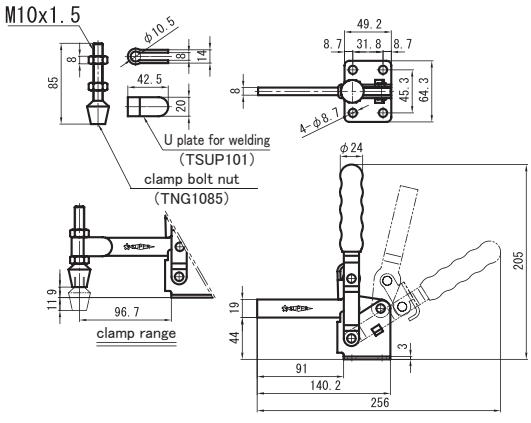
TDV450F • TDV450FL

TDV450F

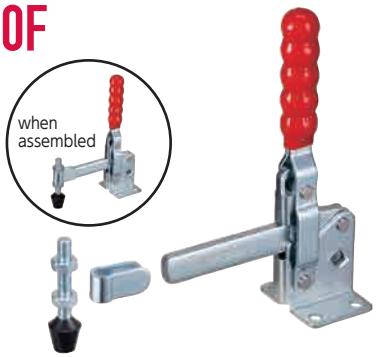
TDV450FL

Item No.	Base type	N.W.(g)
TDV450F	Flange	348
TDV450FL	Flange	380

- Max. holding capacity : 2.27kN
- Clamp arm moving angle : 100˚
- Handle operation angle : 60˚
- Supporting pin : stainless steel



TDV550F

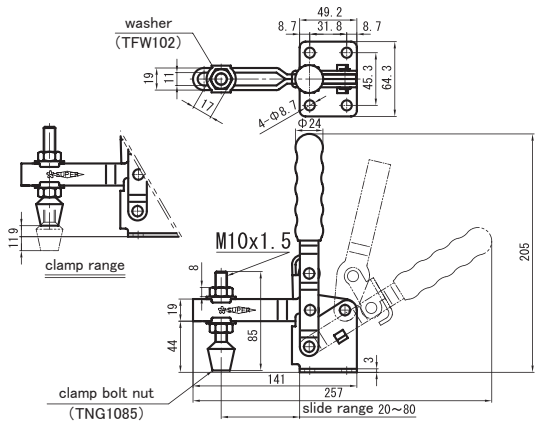


Item No.	Base type	N.W.(g)
TDV550F	Flange	680

- Max. holding capacity : 3.4kN
- Clamp arm moving angle : 105˚
- Handle operation angle : 58˚
- Supporting pin : stainless steel

TOGGLE CLAMP (Vertical Handle Type)

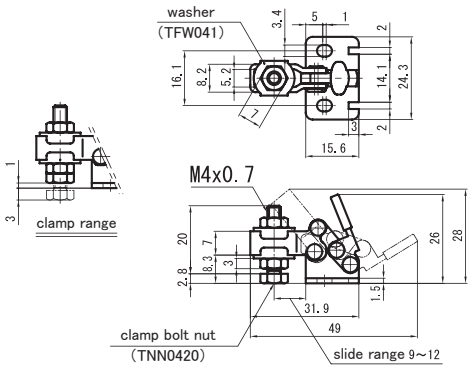
TDV650F



Item No.	Base type	N.W.(g)
TDV650F	Flange	648

- Max. holding capacity : 3.4kN
- Handle operation angle : 58°
- Clamp arm moving angle : 105°
- Supporting pin : stainless steel

TDS10F



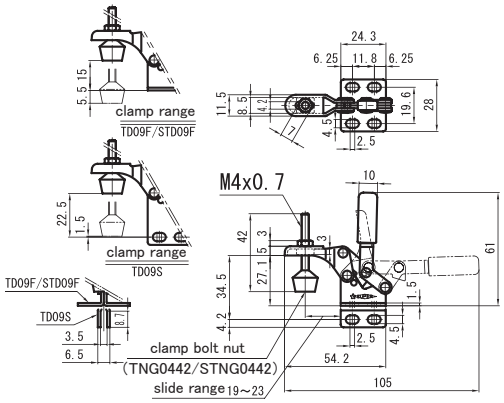
Item No.	Base type	N.W.(g)
TDS10F	Flange	15

- Max. holding capacity : 0.2kN
- Handle operation angle : 80°
- Clamp arm moving angle : 50°
- Supporting pin : stainless steel

TD09(F・S)・STD09F

TD09F

TD09S



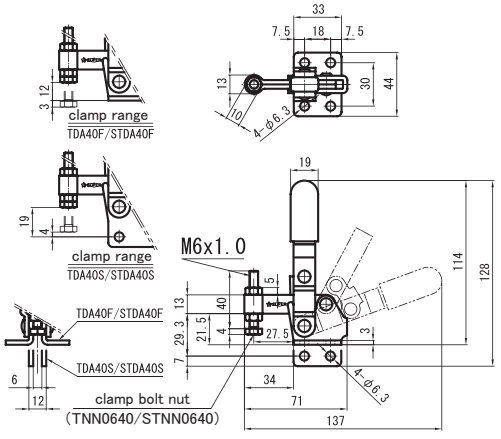
Item No.	Base type	N.W.(g)
TD09F	Flange	42
TD09S	Straight	42
STD09F	Flange/stainless steel	42

- Max. holding capacity : 0.3kN
- Handle operation angle : 88°
- Clamp arm moving angle : 80°
- Supporting pin : stainless steel

TDA40(F・S)・STDA40(F・S)

TDA40F

TDA40S



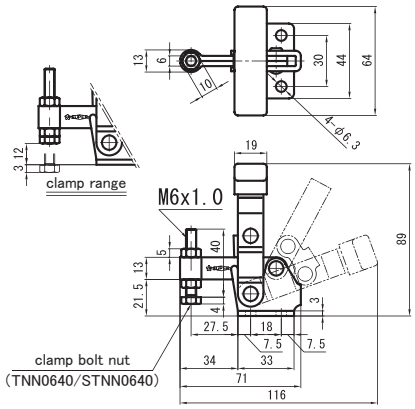
Item No.	Base type	N.W.(g)
TDA40F	Flange	218
TDA40S	Straight	218
STDA40F	Flange/stainless steel	218
STDA40S	Straight/stainless steel	218

- Max. holding capacity : 1.0kN
- Handle operation angle : 65°
- Clamp arm moving angle : 95°
- Supporting pin : stainless steel

TOGGLE CLAMP
(Vertical Handle Type)

TDP40F • STDP40F

TDP40F



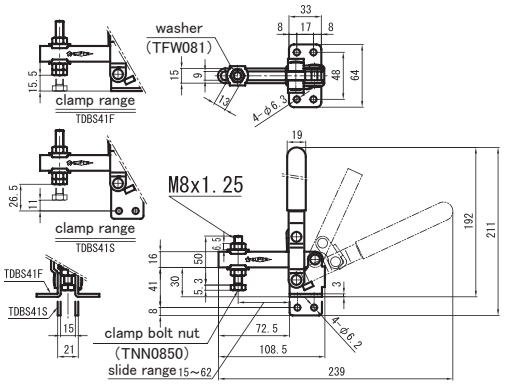
Item No.	Base type	N.W.(g)
TDP40F	Flange	240
STDP40F	Flange/stainless steel	240

- Max. holding capacity : 1.0kN
- Handle operation angle : 65°
- Clamp arm moving angle : 95°
- Supporting pin : stainless steel

TDBS41F • TDBS41S

TDBS41F

TDBS41S



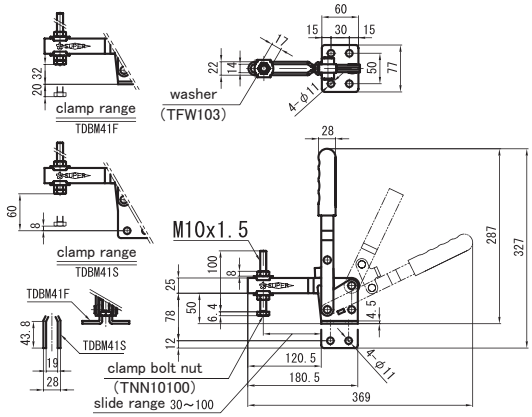
Item No.	Base type	N.W.(g)
TDBS41F	Flange	390
TDBS41S	Straight	390

- Max. holding capacity : 2.0kN
- Handle operation angle : 64°
- Clamp arm moving angle : 110°
- Supporting pin : stainless steel

TDBM41F • TDBM41S

TDBM41F

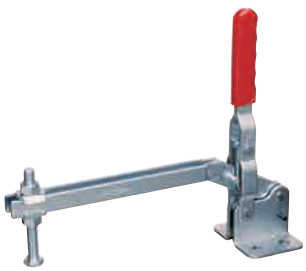
TDBM41S

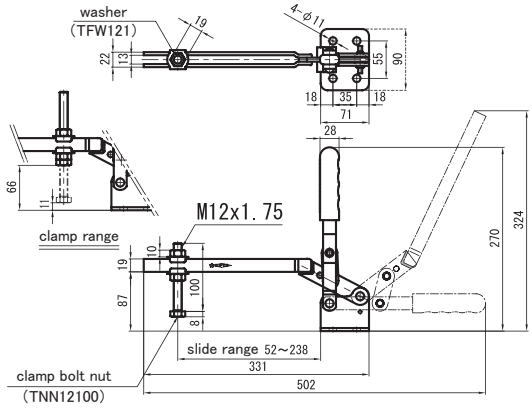


Item No.	Base type	N.W.(g)
TDBM41F	Flange	1300
TDBM41S	Straight	1360

- Max. holding capacity : 3.0kN
- Handle operation angle : 64°
- Clamp arm moving angle : 115°
- Supporting pin : stainless steel

TDJB2F



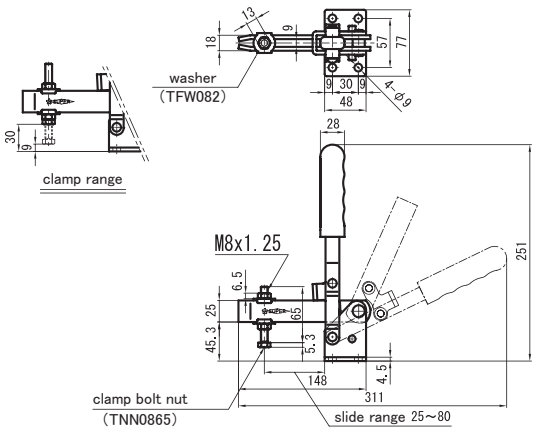


Item No.	Base type	N.W.(g)
TDJB2F	Flange	1480

- Max. holding capacity : 3.7kN
- Handle operation angle : 90°
- Clamp arm moving angle : 114°
- Supporting pin : stainless steel

TOGGLE CLAMP (Vertical Handle Type)

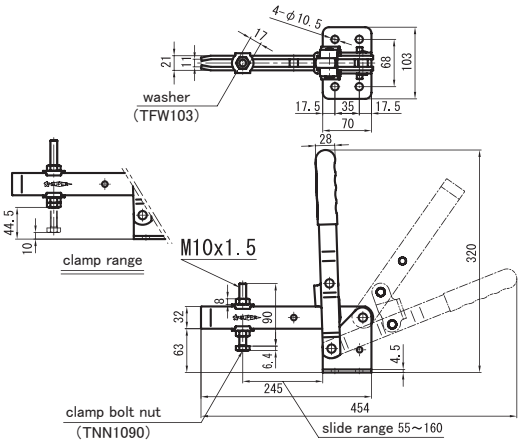
TDX12F



Item No.	Base type	N.W.(g)
TDX12F	Flange	900

- Max. holding capacity : 2.0kN
- Handle operation angle : 62°
- Clamp arm moving angle : 112°
- Supporting pin : stainless steel

TDX14F



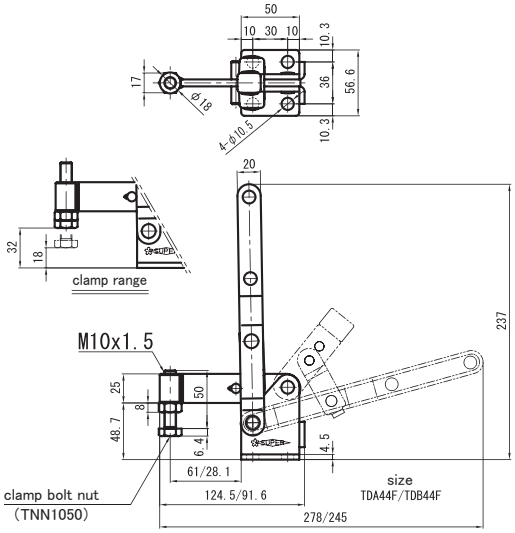
Item No.	Base type	N.W.(g)
TDX14F	Flange	1980

- Max. holding capacity : 3.5kN
- Handle operation angle : 69°
- Clamp arm moving angle : 124°
- Supporting pin : stainless steel

TDA44F • TDB44F

TDA44F

TDB44F



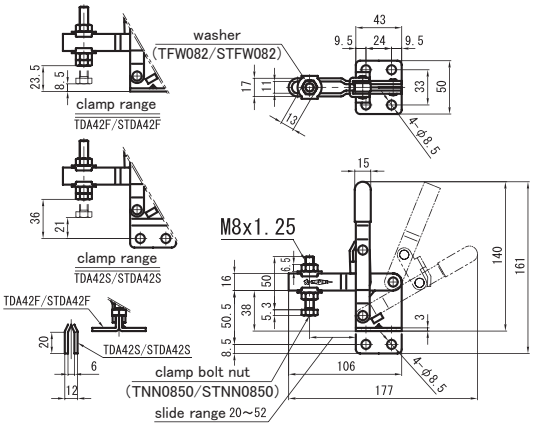
Item No.	Base type	N.W.(g)
TDA44F	Flange	900
TDB44F	Flange	860

- Max. holding capacity : 4.0kN
- Handle operation angle : 75°
- Clamp arm moving angle : 129°
- Supporting pin : stainless steel

TDA42(F • S) • STDA42(F • S)

TDA42F

TDA42S

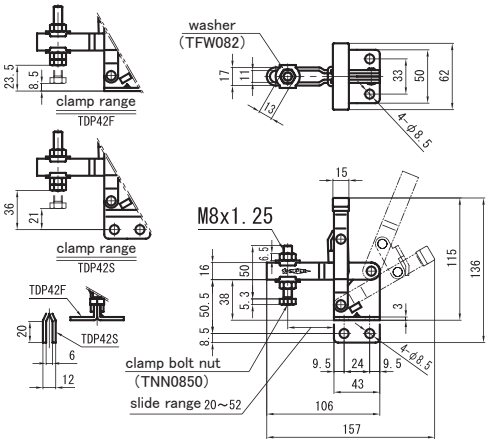


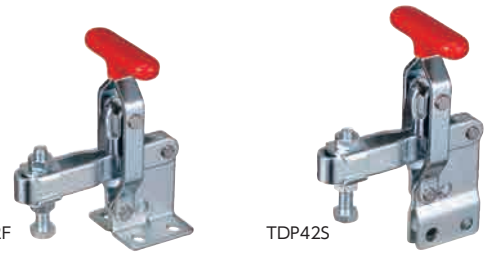
Item No.	Base type	N.W.(g)
TDA42F	Flange	352
TDA42S	Straight	352
STDA42F	Flange/stainless steel	352
STDA42S	Straight/stainless steel	352

- Max. holding capacity : 2.0kN
- Handle operation angle : 45°
- Clamp arm moving angle : 94°
- Supporting pin : stainless steel

TOGGLE CLAMP
(Vertical Handle Type)

TDP42F • TDP42S

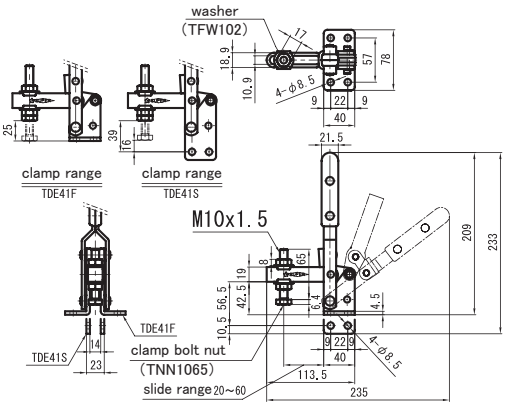


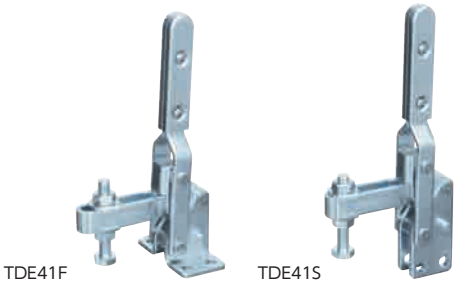


Item No.	Base type	N.W.(g)
TDP42F	Flange	380
TDP42S	Straight	380

- Max. holding capacity : 2.0kN
- Handle operation angle : 45°
- Clamp arm moving angle : 94°
- Supporting pin : stainless steel

TDE41F • TDE41S

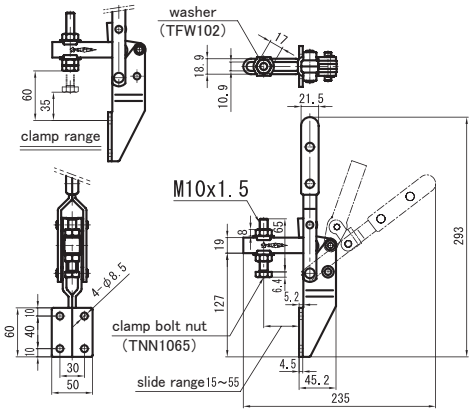




Item No.	Base type	N.W.(g)
TDE41F	Flange	800
TDE41S	Straight	800

- Max. holding capacity : 3.0kN
- Handle operation angle : 52°
- Clamp arm moving angle : 108°

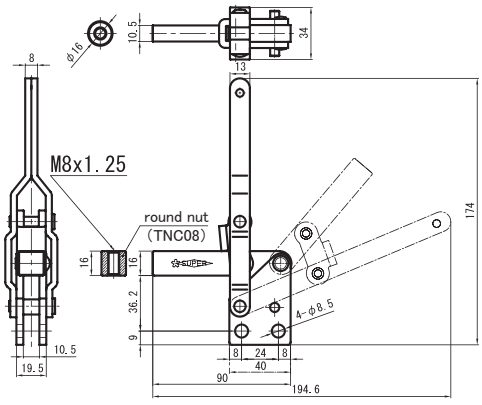
TDF41F



Item No.	Base type	N.W.(g)
TDF41F	Flange	1020

- Max. holding capacity : 3.0kN
- Handle operation angle : 52°
- Clamp arm moving angle : 108°

TD35S



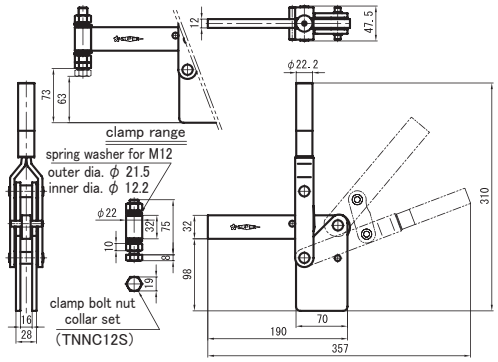
Item No.	Base type	N.W.(g)
TD35S	Straight	450

- Max. holding capacity : 1.5kN
- Handle operation angle : 66°
- Clamp arm moving angle : 128°

Tool sets / cases
Socket wrenches
Ratchet wrenches
Offset wrenches, grips
Gear wrenches, open-end spanners
Spanners
Safety ropes
Combination hammer
Sockets
Hex key wrenches
Adjustable angle wrenches
Pliers
Hook spanners, pin spanners
Toggle clamps
C clamps
L clamps
Super setters
Grip pliers
Welding tools
Iron man

TOGGLE CLAMP (Vertical Handle Type)

TD34S

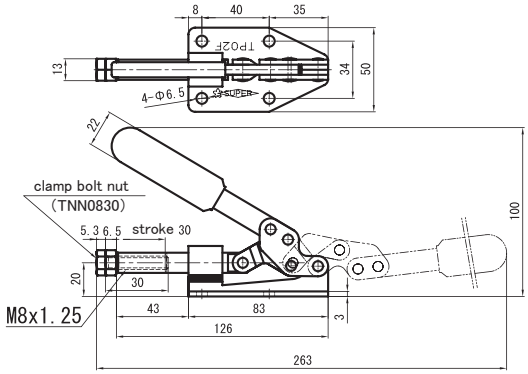


Item No.	Base type	N.W.(g)
TD34S	Straight	2320

- Max. holding capacity : 5.0kN
- Handle operation angle : 68˚
- Clamp arm moving angle : 128˚
- Supporting pin : stainless steel

TOGGLE CLAMP (Push Type)

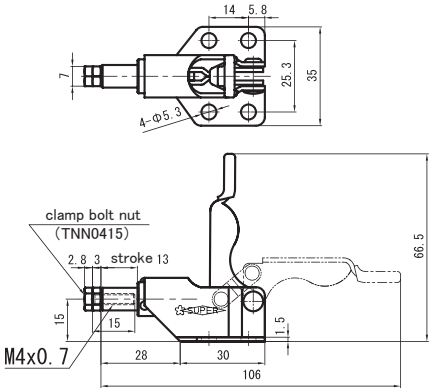
TP02F



Item No.	Base type	N.W.(g)
TP02F	Flange	368

- Max. holding capacity : 1.8kN
- Handle operation angle : 145˚
- Stroke : 30mm
- Supporting pin : stainless steel

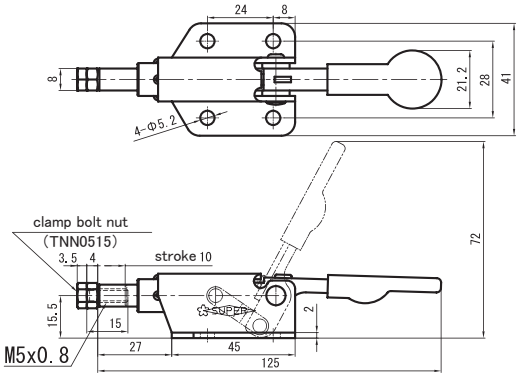
TP06F



Item No.	Base type	N.W.(g)
TP06F	Flange	60

- Max. holding capacity : 0.5kN
- Handle operation angle : 93˚
- Stroke : 13mm
- Supporting pin : stainless steel

TP07F

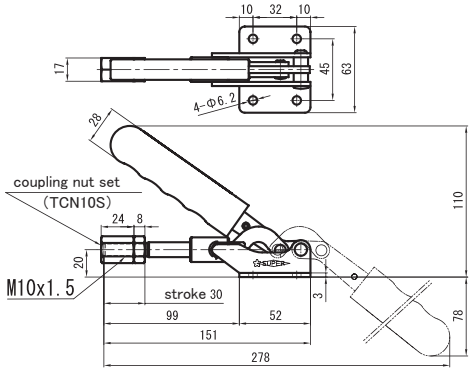


Item No.	Base type	N.W.(g)
TP07F	Flange	100

- Max. holding capacity : 0.5kN
- Handle operation angle : 66˚
- Stroke : 10mm
- Supporting pin : stainless steel

TOGGLE CLAMP (Push Type)

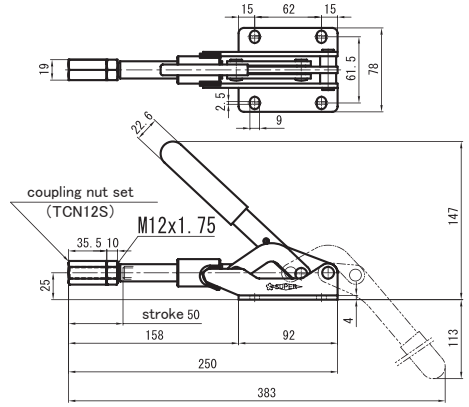
TPA50F



Item No.	Base type	N.W.(g)
TPA50F	Flange	366

- Max. holding capacity : 2.0kN
- Stroke : 30mm
- Handle operation angle : 190°
- Supporting pin : stainless steel

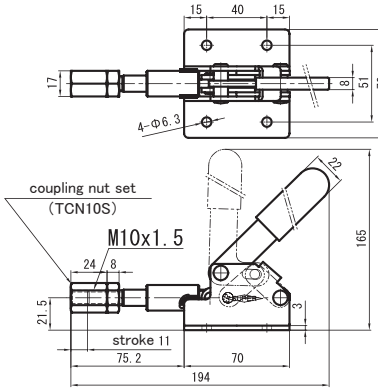
TPB50F



Item No.	Base type	N.W.(g)
TPB50F	Flange	945

- Max. holding capacity : 4.54kN
- Stroke : 50mm
- Handle operation angle : 190°
- Supporting pin : stainless steel

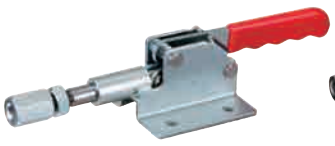
TPBS51F



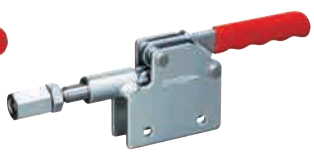
Item No.	Base type	N.W.(g)
TPBS51F	Flange	468

- Max. holding capacity : 1.6kN
- Stroke : 11mm
- Handle operation angle : 45°
- Supporting pin : stainless steel

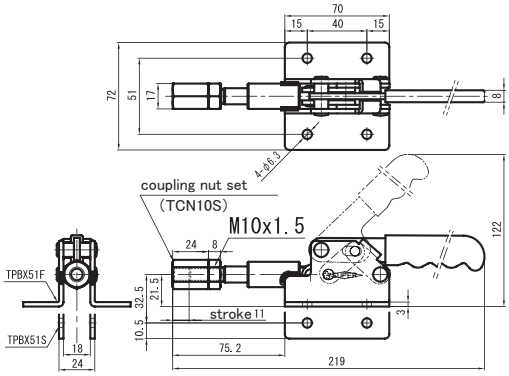
TPBX51F • TPBX51S



TPBX51F



TPBX51S

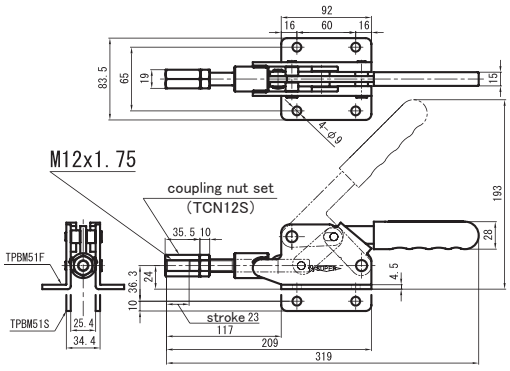


Item No.	Base type	N.W.(g)
TPBX51F	Flange	452
TPBX51S	Straight	452

- Max. holding capacity : 1.6kN
- Stroke : 11mm
- Handle operation angle : 45°
- Supporting pin : stainless steel

TOGGLE CLAMP (Push Type)

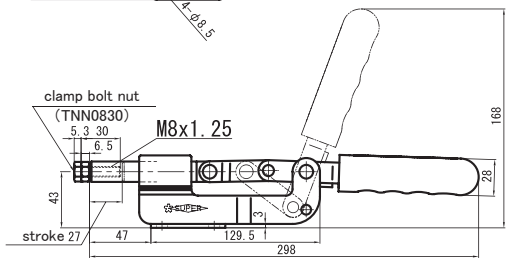
TPBM51F • TPBM51S



Item No.	Base type	N.W.(g)
TPBM51F	Flange	1270
TPBM51S	Straight	1270

- Max. holding capacity : 2.95kN
- Handle operation angle : 45˚
- Stroke : 23mm
- Supporting pin : stainless steel

TPX6F



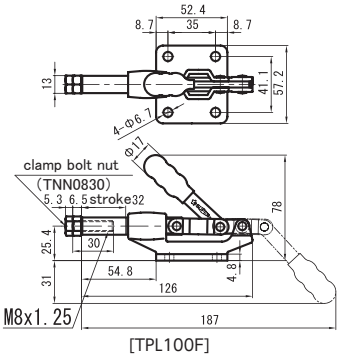
Item No.	Base type	N.W.(g)
TPX6F	Flange	640

- Max. holding capacity : 3.0kN
- Handle operation angle : 70˚
- Stroke : 27mm
- Supporting pin : stainless steel

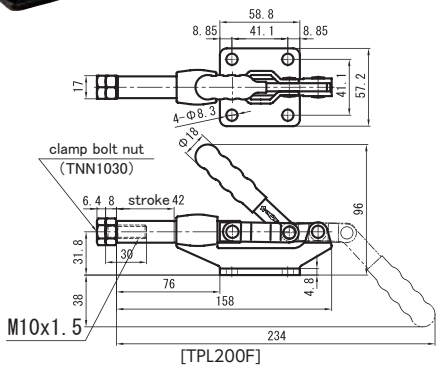
TPL-F

TPL100F•TPL200F

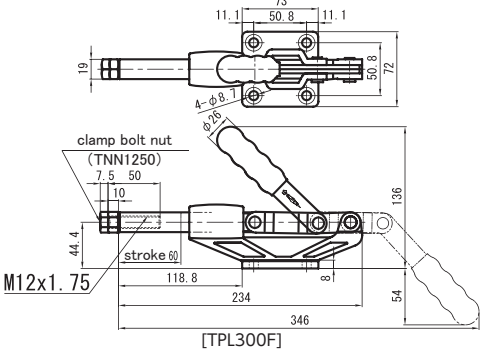
TPL300F



[TPL100F]

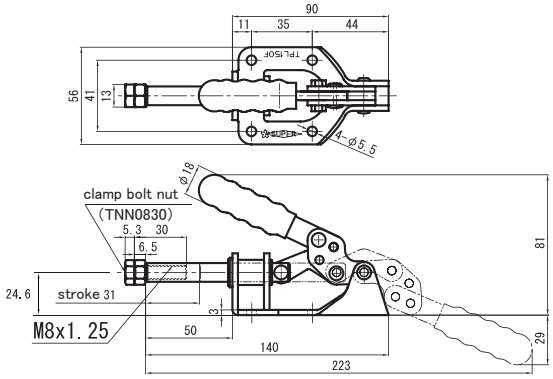


[TPL200F]

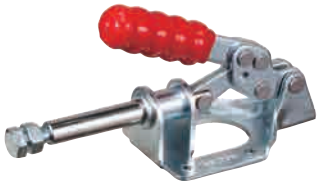


[TPL300F]

Item No.	Base type	Max. holding capacity(kN)	Stroke(mm)	Handle operation angle	N.W.(g)
TPL100F	Flange	2.27	32	190˚	346
TPL200F	Flange	3.86	42	190˚	560
TPL300F	Flange	6.8	60	180˚	1420



TPL150F

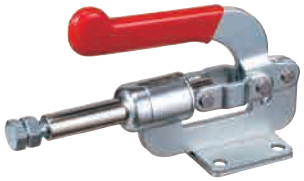


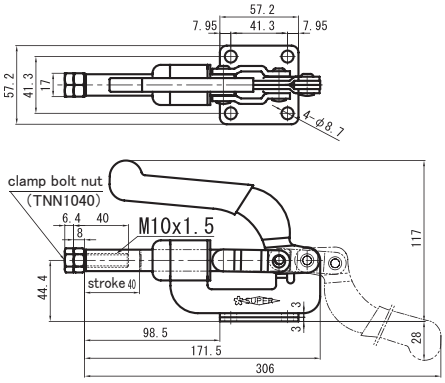
Item No.	Base type	N.W.(g)
TPL150F	Flange	300

- Max. holding capacity : 1.36kN
- Handle operation angle : 180˚
- Stroke : 31mm
- Supporting pin : stainless steel

TOGGLE CLAMP (Push Type)

TPL250F

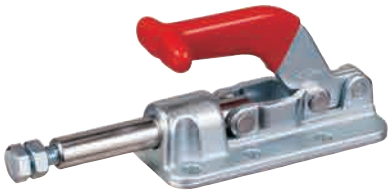


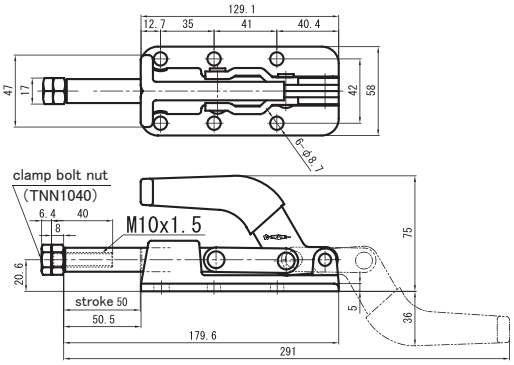


Item No.	Base type	N.W.(g)
TPL250F	Flange	800

- Max. holding capacity : 3.64kN
- Stroke : 40mm
- Handle operation angle : 180°
- Supporting pin : stainless steel

TPL350F

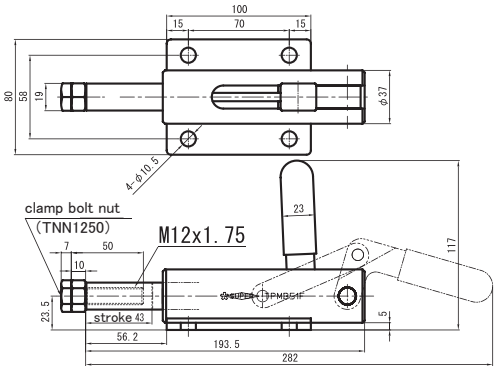




Item No.	Base type	N.W.(g)
TPL350F	Flange	1040

- Max. holding capacity : 11.36kN
- Stroke : 50mm
- Handle operation angle : 180°
- Supporting pin : stainless steel

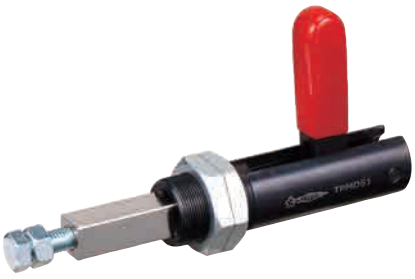
TPMB51F

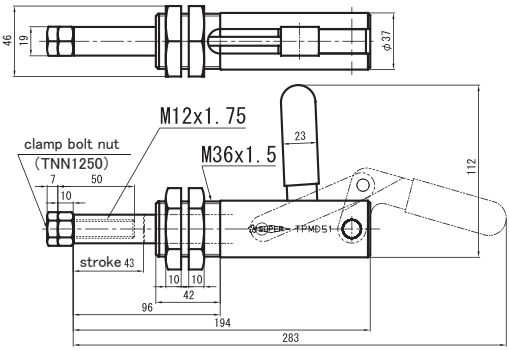


Item No.	Base type	N.W.(g)
TPMB51F	Flange	1650

- Max. holding capacity : 3kN
- Stroke : 43mm
- Handle operation angle : 105°

TPMD51

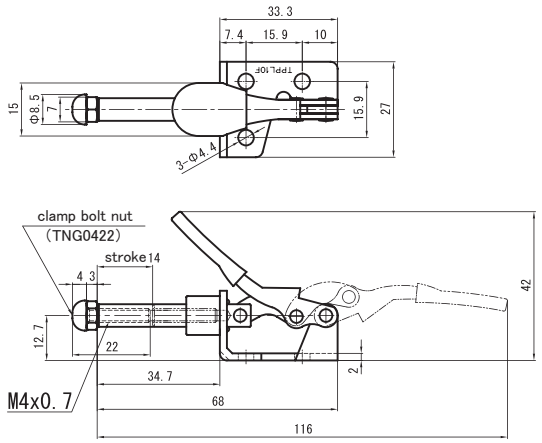




Item No.	Base type	N.W.(g)
TPMD51	Bracket	1320

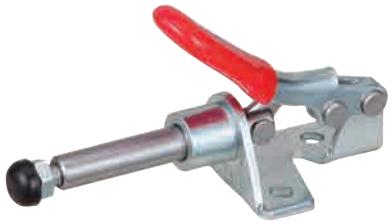
- Max. holding capacity : 3kN
- Stroke : 43mm
- Handle operation angle : 105°

Tool sets / cases
Socket wrenches
Ratchet wrenches
Offset wrenches, grips
Gear wrenches, open-end spanners
Spanners
Safety ropes
Combination hammer
Sockets
Hex key wrenches
Adjustable angle wrenches
Pliers
Hook spanners, pin spanners
Toggle clamps
C clamps
L clamps
Super setters
Grip pliers
Welding tools
Iron man



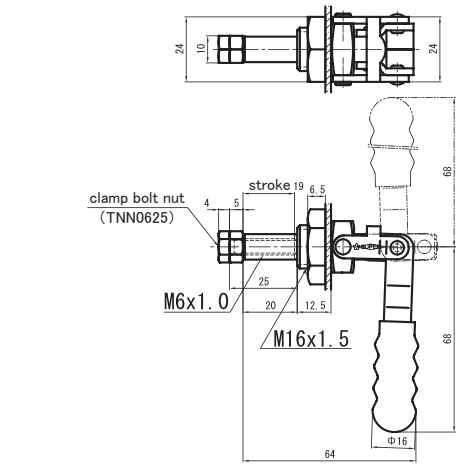
TOGGLE CLAMP (Push Type)

TPPL10F



Item No.	Base type	N.W.(g)
TPPL10F	Flange	42

- Max. holding capacity : 0.45kN
- Stroke : 14mm
- Handle operation angle : 140°
- Supporting pin : stainless steel

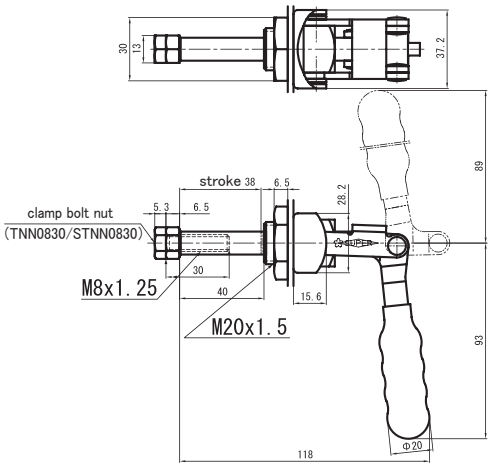


TOGGLE CLAMP (Push / Pull Type)

TPPM50

Item No.	Base type	N.W.(g)
TPPM50	Bracket	123

- Max. holding capacity : 0.91kN
- Stroke : 19mm
- Handle operation angle : 180°
- Supporting pin : stainless steel

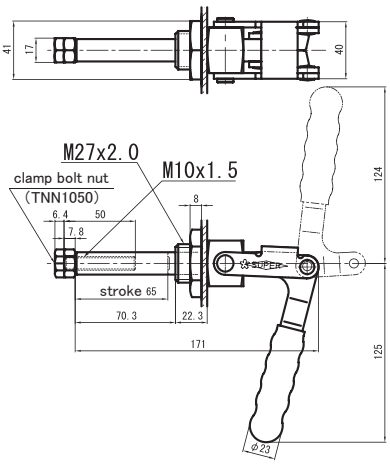


TPPM150・STPPM150

TPPM150

Item No.	Base type	N.W.(g)
TPPM150	Bracket	278
STPPM150	Bracket/stainless steel	278

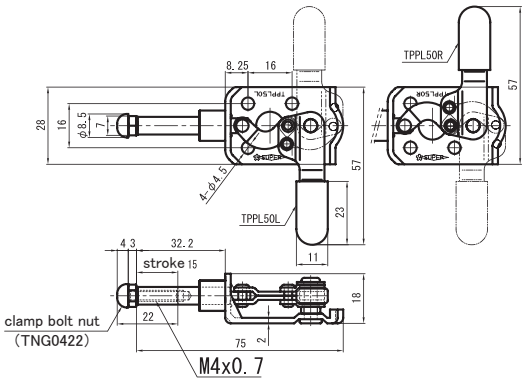
- Max. holding capacity : 1.36kN
- Stroke : 38mm
- Handle operation angle : 180°
- Supporting pin : stainless steel



TPPM250

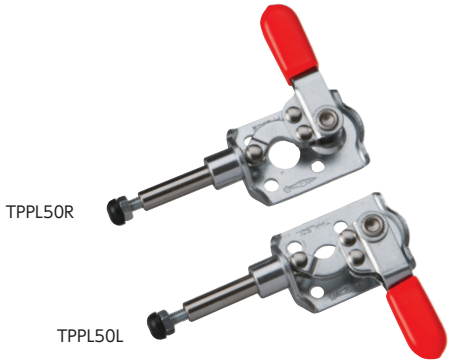
Item No.	Base type	N.W.(g)
TPPM250	Bracket	790

- Max. holding capacity : 3.18kN
- Stroke : 65mm
- Handle operation angle : 180°
- Supporting pin : stainless steel



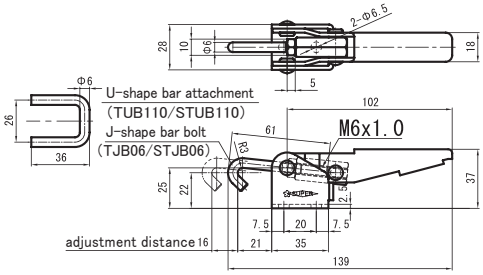
TOGGLE CLAMP (Push / Pull Type)

TPPL50R • TPPL50L

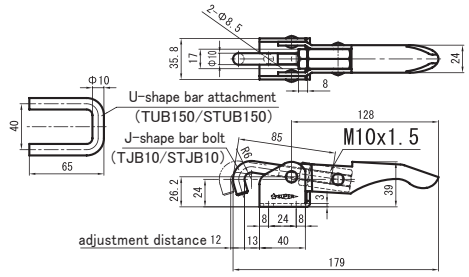


Item No.	Base type	N.W.(g)
TPPL50R	Flange	54
TPPL50L	Flange	54

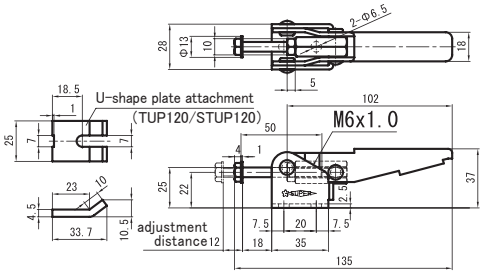
- Max. holding capacity : 0.5kN
- Handle operation angle : 180°
- Stroke : 15mm
- Supporting pin : stainless steel



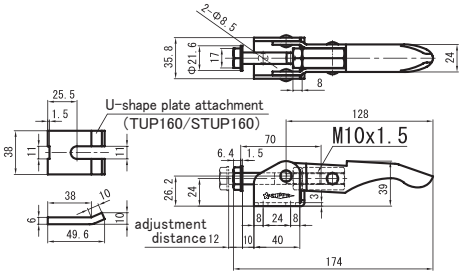
TLA110F/STLA110F



TLA150F/STLA150F



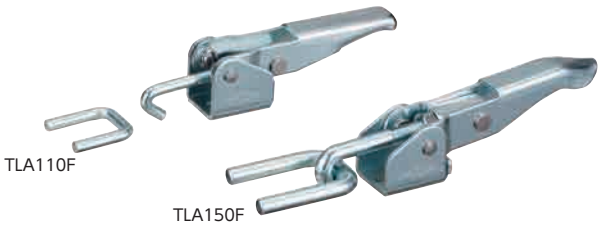
TLA120F/STLA120F



TLA160F/STLA160F

TOGGLE CLAMP (Latch Type)

TLA-F • STLA-F

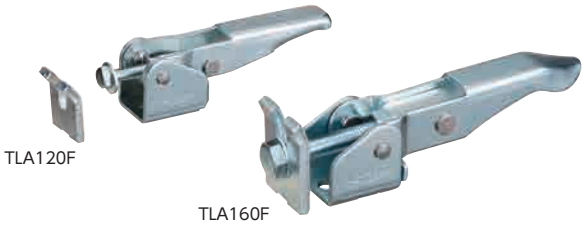


Item No.	Base type	N.W.(g)
TLA110F	Flange	205
STLA110F	Flange/stainless steel	205
TLA150F	Flange	454
STLA150F	Flange/stainless steel	454

TLA110F•STLA110F
- Max. holding capacity : 1.7kN
- Adjustment distance : 16mm
- Supporting pin : stainless steel

TLA150F•STLA150F
- Max. holding capacity : 3.0kN
- Adjustment distance : 12mm
- Supporting pin : stainless steel

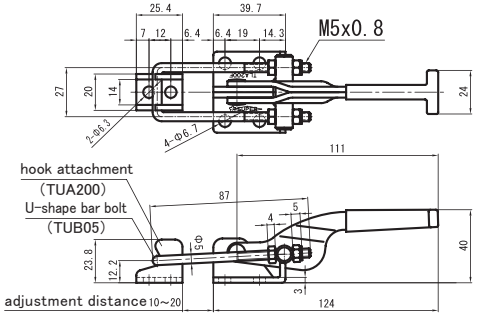
TLA-F • STLA-F

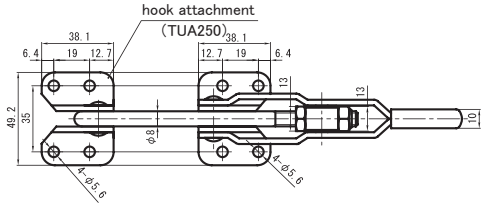


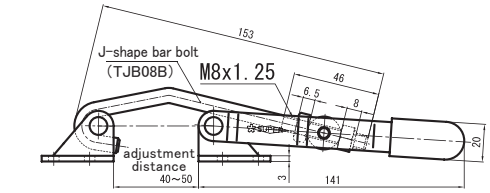
Item No.	Base type	N.W.(g)
TLA120F	Flange	210
STLA120F	Flange/stainless steel	210
TLA160F	Flange	420
STLA160F	Flange/stainless steel	420

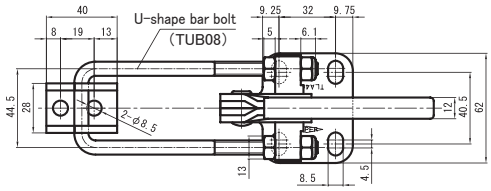
TLA120F•STLA120F
- Max. holding capacity : 1.7kN
- Adjustment distance : 12mm
- Supporting pin : stainless steel

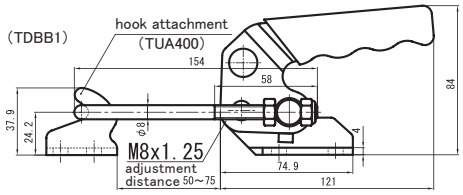
TLA160F•STLA160F
- Max. holding capacity : 3.0kN
- Adjustment distance : 12mm
- Supporting pin : stainless steel

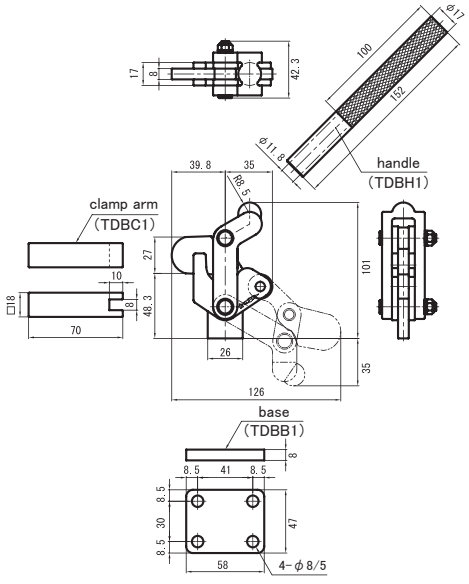












TOGGLE CLAMP (Latch Type)

TLA200F

Item No.	Base type	N.W.(g)
TLA200F	Flange	205

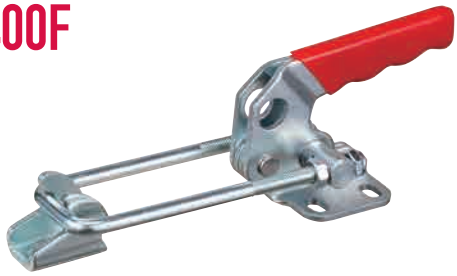
- Max. holding capacity : 3.18kN
- Adjustment distance : 10~20mm
- Supporting pin : stainless steel

TLA250F

Item No.	Base type	N.W.(g)
TLA250F	Flange	330

- Max. holding capacity : 1.7kN
- Adjustment distance : 40~50mm
- Supporting pin : stainless steel

TLA400F



Item No.	Base type	N.W.(g)
TLA400F	Flange	670

- Max. holding capacity : 7kN
- Adjustment distance : 50~75mm
- Supporting pin : stainless steel

BURR CLAMP

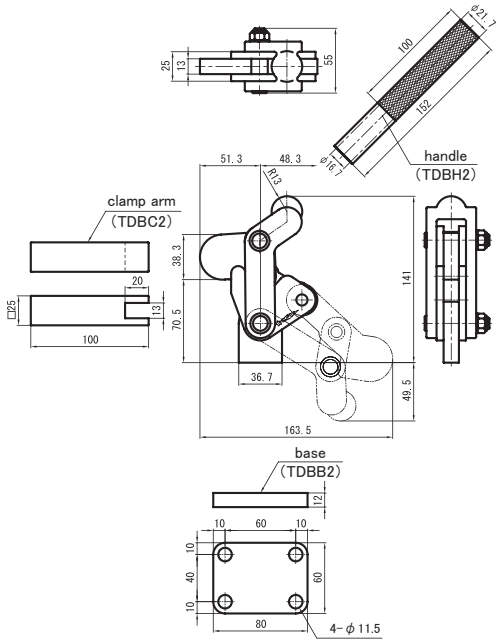
TDB1F

▶Feature

- Arm and handle can be welded and assembled in free angle, so this clamp can be used in many different situations.

Item No.	Base type	N.W.(g)
TDB1F	Flange	830

- Max. holding capacity : 2.0kN
- Clamp arm moving angle : 190°
- Handle operation angle : 118°



BURR CLAMP

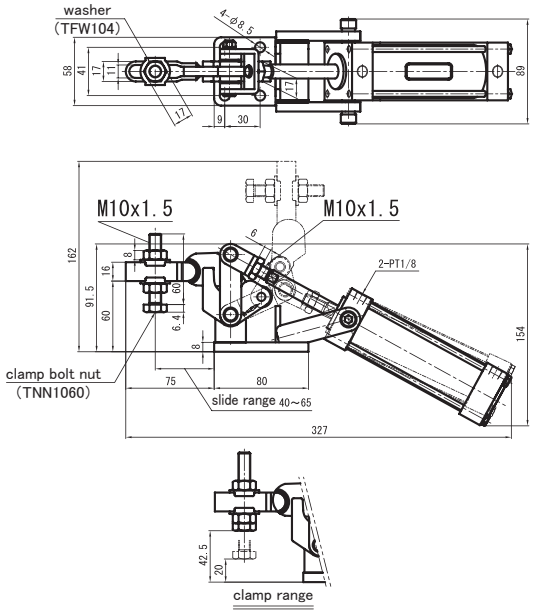
TDB2F

▶Feature

- Arm and handle can be welded and assembled in free angle, so this clamp can be used in many different situations.

Item No.	Base type	N.W.(g)
TDB2F	Flange	2100

- Max. holding capacity : 5.0kN
- Handle operation angle : 120°
- Clamp arm moving angle : 192°



BURR CLAMP (Air Type)

TDBA200F

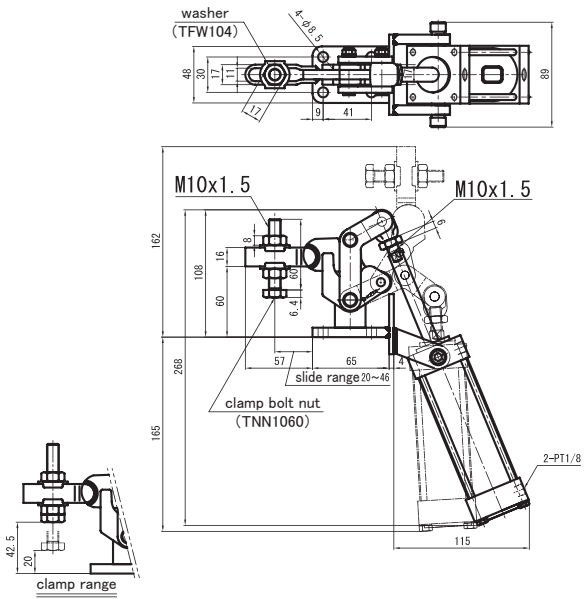
Item No.	Base type	N.W.(g)
TDBA200F	Flange	1900

- Max. clamp force : 1.25kN(0.5MPa) : 2.5kN(1MPa)
- Outer dia. of tube : 6mm
- Cylinder stroke : 80mm
- Clamp arm moving angle : 90°
- Accessories : One-touch tube joint (2pcs)

TDBA201F

Item No.	Base type	N.W.(g)
TDBA201F	Flange	2000

- Max. clamp force : 1.4kN(0.5MPa) : 2.8kN(1MPa)
- Outer dia. of tube : 6mm
- Cylinder stroke : 80mm
- Clamp arm moving angle : 90°
- Accessories : One-touch tube joint (2pcs)

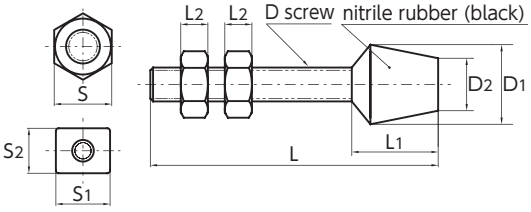


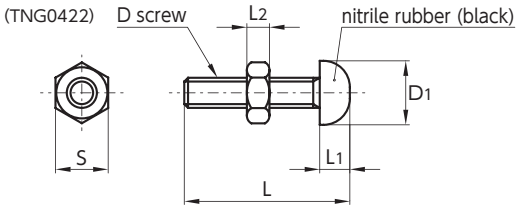
TNG • TNG-H • STNG • TNS • TFW • STFW

TOGGLE CLAMP Parts

▮Bolt & nut (w/rubber head)

TNG0422

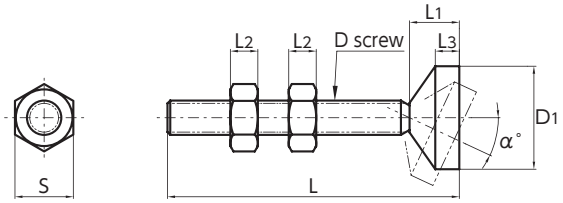




Item No.	D screw	Size(mm)							
		L	L1	L2	D1	D2	S	S1	S2
TNG0422	M4×P0.7	22	4	3	8.5	—	7	—	—
TNG0425		25	11.5		13.5	10.5		9.5	8.1
TNG0442		42							8.2
TNG0442H								—	—
TNG0644	M6×P1	44	14	5	15	10	10		
TNG0651		51							
TNG0863	M8×P1.25	63	19	6.5	18.5	13	13		
TNG0875		75							
TNG1085	M10×P1.5	85	24.5	8	23	15	17		
STNG0425	M4×P0.7	25	11.5	3	13.5	10.5	7	9.5	8.2
STNG0442		42							
STNG0651	M6×P1	51	14	5	15	10	10	—	—
STNG0875	M8×P1.25	75	19	6.5	18.5	13	13		

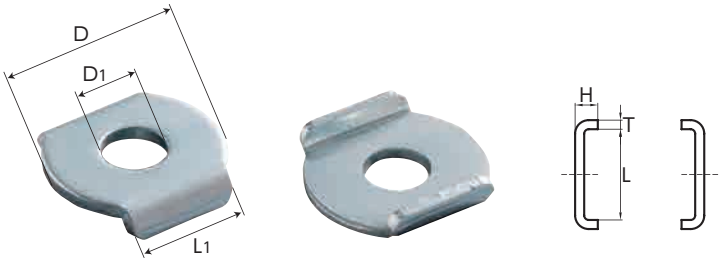
* There is only one nut for TNG0422.
* One of the two nuts of respectively TNG0425, TNG0442, STNG0425, STNG0442 is a square nut.
* The material of STNG0425, STNG0442, STNG0651, STNG0875 is SUS303.

▮Bolt & nut (w/swivel head)



Item No.	D screw	Size(mm)						α°
		L	L1	L2	L3	D1	S	
TNS0650	M6×P1	50	10	5	4	12	10	7
TNS0865	M8×P1.25	65	13	6.5	5.5	20	13	
TNS1085	M10×P1.5	85	15	8			17	
TNS12100	M12×P1.75	100	20	9.6	11	25	19	

▮Washer (a pair)



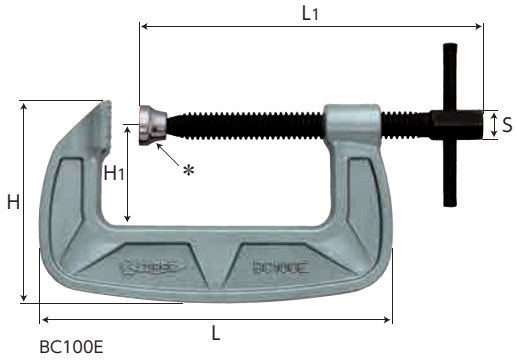
Item No.	Size(mm)					
	L	L1	H	D	D1	T
TFW041	8.3	8	3.2	12	4.3	1
TFW042	9.4	8.4	2.6	12.6	4.2	
TFW061	11.5	7	3.9	14.2	6.3	1.5
TFW062	14.3	12.8	3.2	19	6.5	
TFW063	12.6	10.8	3.4	16.6	6.8	
TFW081	15.7	15.7	4.5	21.6	8.2	2
TFW082	17.5	15	4.7	22.6		
TFW083	19.1	16.5	5	25.1		

Item No.	Size(mm)					
	L	L1	H	D	D1	T
TFW101	21.4	18.5	4.4	27	10.5	2
TFW102	19.1	16.5	5	25.1	10.2	
TFW103	22.2	22.9	8	31		3
TFW121					12.4	
STFW041	8.3	8	3.2	12	4.3	1
STFW062	14.3	12.8		19	6.5	1.5
STFW082	17.5	15	4.7	22.6	8.2	2
STFW083	19.1	16.5	5	25.1		

* The material of STFW041, STFW062, STFW082, STFW083 is SUS303.

BC-(E) • CC-(E)

C CLAMP



BC100E

▶ Features

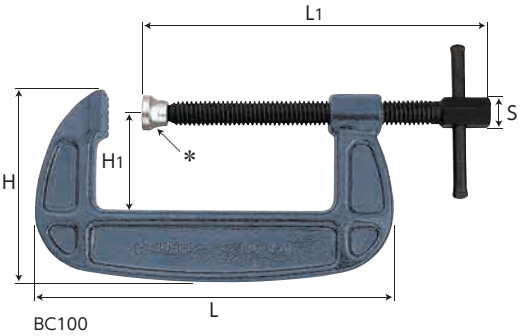
- Quick tightening handle.
- The final turn of the hexagonal head with a wrench ensures an even securer tightening.

Bahco type clamp

Metallic grey baking finish

Item No.	Clamp range(mm)	Size(mm)					Guaranteed load (kN)	N.W. (kg)
		L	L1	H	H1	S		
BC25E	25	78	80	60	26	12	18	0.2
BC38E	38	99	98	69	31		20	0.3
BC50E	50	118	118	78	36	14	21.8	0.45
BC75E	75	157	152	96	46	17	27.3	0.8
BC100E	100	197	190	114	56		34.3	1.3
BC125E	125	237	225	131	66	19	39.2	1.7
BC150E	150	276	262	149	76	22	44.1	2.8
BC200E	200	346	324	174	92		49	4.2

∗ An adaptor (a plate at the end of the screw) can be set.



BC100

Bahco type clamp

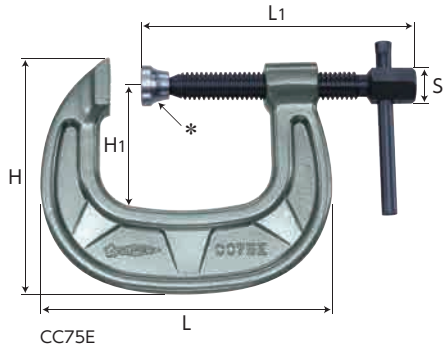
Cation paint (Excellent rust proofing)

Item No.	Clamp range(mm)	Size(mm)					Guaranteed load (kN)	N.W. (kg)
		L	L1	H	H1	S		
BC25	25	78	80	60	26	12	18	0.2
BC38	38	99	98	69	31	12	20	0.3
BC50	50	116	118	78	36	14	21.8	0.45
BC75	75	157	152	96	46	17	27.3	0.8
BC100	100	197	190	114	56	17	34.3	1.3
BC125	125	237	225	131	66	19	39.2	1.7
BC150	150	276	262	149	76	22	44.1	2.8
BC200	200	346	324	174	92	22	49	4.2
BC250	250	415	386	204	108	27	58.8	7
BC300	300	485	451	230	124	27	68.6	9

∗ An adaptor (a plate at the end of the screw) can be set.

▶ Features

- Deep throat, heavy duty type.
- Quick tightening handle (removable).
- The final turn of the hexagonal head with a wrench ensures an even securer tightening.



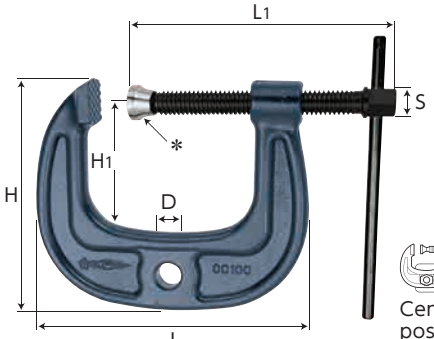
CC75E

C clamp heavy duty wide type

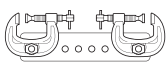
Metallic grey baking finish

Item No.	Clamp range(mm)	Size(mm)					Guaranteed load (kN)	N.W. (kg)
		L	L1	H	H1	S		
CC50E	50	144	138	127	65	19	41.7	1
CC75E	75	182	171	150	80	21	46.6	1.7
CC100E	100	225	208	184	100	23	51.5	2.8
CC125E	125	265	245	215	125	26	56.4	4.1

∗ An adaptor (a plate at the end of the screw) can be set.



CC100


Center hole for positioning.

C clamp heavy duty wide type

Cation paint (Excellent rust proofing)

Item No.	Clamp range(mm)	Size(mm)						Guaranteed load (kN)	N.W. (kg)
		L	L1	H	H1	D	S		
CC50	50	140	134	116	55	13.1	17	41.7	1.1
CC75	75	182	165	152	80	16.1	19	46.6	1.9
CC100	100	225	201	189	105	20.1	21	51.5	2.9
CC125	125	267	237	225	130	22.1	22	56.4	4.3
CC150	150	310	269	262	155	24.1	24	66.2	6
CC200	200	395	336	335	205	28.1	27	76	12

∗ An adaptor (a plate at the end of the screw) can be set.

Tool sets / cases
Socket wrenches
Ratchet wrenches
Offset wrenches, grips
Gear wrenches, open-end spanners
Spanners
Safety ropes
Combination hammer
Sockets
Hex key wrenches
Adjustable angle wrenches
Pliers
Hook spanners, pin spanners
Toggle clamps
C clamps
L clamps
Super setters
Grip pliers
Welding tools
Iron man

FC-(E)・FC-H(SH)

L CLAMP

▶ Feature

- The tightening arm bar slides along the rail and, together with the turning handle, enables quick tightening.

FC1230E

▌Standard type (Rail size : 22×10.5mm)

Item No.	Clamp range(mm)	Depth (mm)	Full length (mm)	Pad dia. (mm)	N.W. (kg)
FC1210E	100	120	187	32	0.9
FC1215E	150	120	237		1
FC1220E	200	120	287		1.1
FC1225E	250	120	337		1.2
FC1230E	300	120	387		1.3
FC1240E	400	120	487		1.5

- Max. clamp force at 150mm : 6.5kN
- The adaptor (with stop ring) allows up to 15° tilted clamping.
- A resin pad set to avoid damage on the work object is available in option.

FC1230

▌Heavy duty type (Rail size : 27×13mm)

Item No.	Clamp range(mm)	Depth (mm)	Full length (mm)	Width across flats(mm)	Pad dia. (mm)	N.W. (kg)
FC1220	200	120	320	14	38	2
FC1225	250	120	370			2.1
FC1230	300	120	420			2.2
FC1240	400	120	520			2.5
FC1250	500	120	620			2.7
FC1260	600	120	720			3

- Max. clamp force at 150mm : 11.5kN
- This heavy type ensures an even securer tightening at the final turn of the hexagonal head (size14mm) with a wrench.
- The heavy duty adaptor allows up to 35° tilted clamping.
- V-shape adaptor available in option.

FC1430H

▌Extra heavy duty type (Rail size : 30×15mm)

Item No.	Clamp range(mm)	Depth (mm)	Full length (mm)	Width across flats(mm)	Pad dia. (mm)	N.W. (kg)
FC1425H	250	140	388	17	42	2.8
FC1430H	300	140	438			3
FC1440H	400	140	538			3.3
FC1450H	500	140	638			3.7
FC1460H	600	140	738			3.9
FC1480H	800	140	938			4.6

- Max. clamp force at 150mm : 13.5kN
- This heavy type ensures an even securer tightening at the final turn of the hexagonal head (size17mm) with a wrench.
- The heavy duty adaptor allows up to 35° tilted clamping.
- V-shape adaptor available in option.

FC1730SH

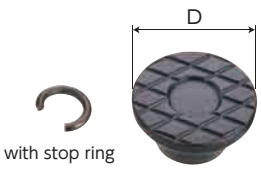
▌Super extra heavy duty type (Rail size : 40×20mm)

Item No.	Clamp range(mm)	Depth (mm)	Full length (mm)	Width across flats(mm)	Pad dia. (mm)	N.W. (kg)
FC1730SH	300	175	460	19	42	5.5
FC1740SH	400	175	560			6.1
FC1750SH	500	175	660			6.6
FC1760SH	600	175	760			7.2
FC1780SH	800	175	960			8.3
FC17100SH	1,000	175	1,160			9.4

- Max. clamp force at 150mm : 25.0kN
- This heavy type ensures an even securer tightening at the final turn of the hexagonal head (size19mm) with a wrench.
- The heavy duty adaptor allows up to 35° tilted clamping.
- V-shape adaptor available in option.

L CLAMP Parts

FCA22PR
Adaptor



Item No.	Applicable item	Size(mm)
		D
FCA22PR	FC-E	32

FCA22PP
Resin pad

Upper and lower, a pair

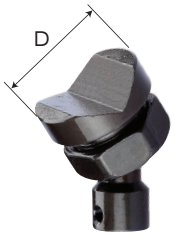
Item No.	Applicable item	Size(mm)		
		L	D	D1
FCA22PP	FC-E	55	35	35

FCA-PN
Adaptor set

Item No.	Applicable item	Size(mm)
		D
FCA27PN	FC	38
FCA30PN	FC-H·FC-SH	42

* Spring pin included.

FCA-VN
V-shape adaptor set



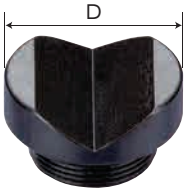
Item No.	Applicable item	Size(mm)
		D
FCA27VN	FC	38
FCA30VN	FC-H·FC-SH	41

* Spring pin included.

FCA-P
Adaptor head

Item No.	Applicable item	Size(mm)
		D
FCA27P	FC	38
FCA30P	FC-H·FC-SH	42

FCA-V
V-shape adaptor head



Item No.	Applicable item	Size(mm)
		D
FCA27V	FC	38
FCA30V	FC-H·FC-SH	41

FCA-N
Adaptor nut

Item No.	Applicable item
FCA27N	FC
FCA30N	FC-H·FC-SH

FCA-J
Adaptor joint

Item No.	Applicable item
FCA27J	FC
FCA30J	FC-H·FC-SH

* Spring pin included.

FCN22
Male screw (with handle)

Item No.	Applicable item
FCN22	FC-E

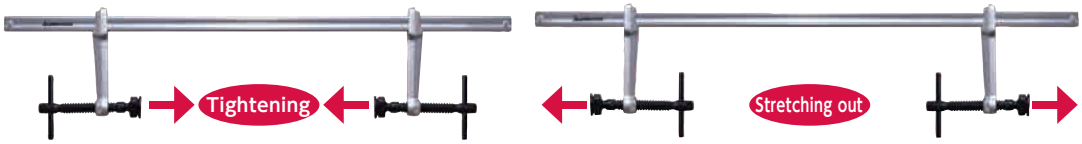
FCN-H
Male screw (with handle)

Item No.	Applicable item
FCN27H	FC
FCN30H	FC-H
FCN40H	FC-SH

Tool sets / cases
Socket wrenches
Ratchet wrenches
Offset wrenches, grips
Gear wrenches, open-end spanners
Spanners
Safety ropes
Combination hammer
Sockets
Hex key wrenches
Adjustable angle wrenches
Pliers
Hook spanners, pin spanners
Toggle clamps
C clamps
L clamps
Super setters
Grip pliers
Welding tools
Iron man

FCW
SUPER SETTER (Rail Type)

▶ Features
- Easy and flexible equipment for temporary holding of welding works, steel structures, bridges, and other civil engineering works, etc.
- Can be used not only for tightening or pressing inward but also for stretching out or pressing outward.



Item No.	Clamp range (mm)	Depth (mm)	Rail size (mm)	Rail length (mm)	Hexagon width across flats of forcing screw head (mm)	Adaptor dia. (mm)	Set N.W. (kg)	Max. clamping force at 150mm (kN)
FCW27120	0~750	120	27×13	1,000	14	38	4.1	10
FCW30140	0~750	140	30×15	1,000	17	42	4.8	12
FCW40175	0~750	175	40×20	1,000	19	42	9.6	22

FCW
SUPER SETTER

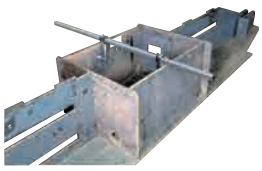
▶Features
- Easy and flexible equipment for temporary holding of welding works, steel structures, bridges, and other civil engineering works, etc. Also optimal for assembling temporary structures and framing on construction sites.
- Can be used not only for tightening or pressing inward but also for stretching out or pressing outward.

Heavy duty type (Square pipe : □40x1m) (FCW410~420)

Compact and light-weighted type (Square pipe : □25x0.9mm) (FCW210)

Item No.	Clamp range (mm)	Depth (mm)	Adaptor dia. (mm)	Set N.W. (kg)	Allowable load (kN) (at maximum clamp range)
FCW210	0~700	100	28	3.3	3.5
FCW410	0~750	100	34	6.3	5.5
FCW415	0~750	150	34	6.9	3.9
FCW420	0~750	200	34	7.5	3.0

▶ Example of use



The use for the square copper pipe STKT590 with high tensile strength offers very high robustness.

▮Parts No. (Standard parts provided in the set)

Item No.	Body S (with forcing screw, adaptor and handle)	Body P (with fixing screw)	Standard square pipe
FCW210	FCWS210	FCWP210	FCWK210
FCW410	FCWS410	FCWP410	FCWK40
FCW415	FCWS415	FCWP415	FCWK40
FCW420	FCWS420	FCWP420	FCWK40

▮Parts for super setter series

Parts	Item name	Item No.
	Body S (with forcing screw, adaptor and handle)	**FCWS210**
		FCWS410
		FCWS415
		FCWS420
	Body P (with fixing screw)	**FCWP210**
		FCWP410
		FCWP415
		FCWP420
	Body B (body only)	**FCWB210**
		FCWB410
		FCWB415
		FCWB420
	Fixing screw	**FCWU210**
		FCWU40

Parts	Item name		Item No.
	Square pipe	0.9m	**FCWK210**
		1m	**FCWK40**
		1.5m	**FCWK4015**
		2m	**FCWK4020**
	Forcing screw with handle		**FCWD210**
			FCWD40
	Forcing screw with handle (long type)		**FCWD4018**
	Adaptor for forcing screw (with spring)		**FCWH210**
			FCWH40
	Adaptor for forcing screw (with notches)		**FCWH40V**
	Fixing screw (with notches)		**FCWU40V**

∗ Hexagon width across flats of male screw : 17mm

▮Super setter full set (8 items set)
- For basic operations, this set is optimal to clear every kind of works.

Item No.	Set details
FCW4000	Body S (FCWS410・415・420) ·····1 pc each Body P (FCWP410・415・420) ·····1 pc each Square pipe (1m) ·····2 pcs

▮Super setter full set (Heavy duty type)

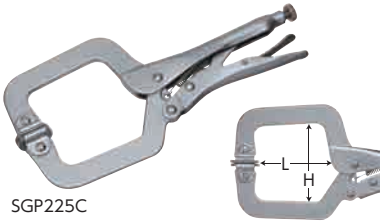
One extra square pipe (1m) offered !

SGP • SGP-L • SGP-C
GRIP PLIERS

▶ Features
- Best suitable for sheet metal processing and welding work.
- When locked, the lock releasing lever moves to avoid finger to be pinched.

SGP175

SGP225L



SGP225C

Standard type
- Curved jaws with teeth for sure grip hold of pipe.

Item No.	Full length (mm)	Jaw opening (mm)		Cutting ability (Mild wire)	Strength capacity at max. opening (kN)	N.W. (g)
		(Square material)	(Round material)			
SGP100	113	1~14	φ1~17	φ1.2	3.5	100
SGP130	140	1~15	φ1~19		4.0	160
SGP175	185	1~26	φ1~25	φ2.3	11.1	320
SGP250	225	1~35	φ1~36		11.1	490

Long nose type
- Long nose optimal for confined spaces and intricate working.

Item No.	Full length (mm)	Jaw opening (mm)		Cutting ability (Mild wire)	Strength capacity at max. opening (kN)	N.W. (g)
		(Square material)	(Round material)			
SGP100L	133	1~10	φ1~18	φ1.2	1.7	110
SGP150L	165	1~14	φ1~23		2.0	170
SGP225L	216	1~20	φ1~30	φ2.3	4.0	370

Wide mouth type
- The position of flexible tip pads adapts to the workpiece, for much convenient fixing such as slant workpiece.

Item No.	Full length (mm)	Jaw opening (mm)	Mouth size (mm)		Strength capacity at max. opening (kN)	N.W. (g)
		(Square material)	L	H		
SGP100C	136	1~35	25	48	2.0	140
SGP200C	184	1~47	45	56	2.2	260
SGP225C	250	1~73	65	75	4.0	580

SG • SG-L • SG-C
GRIP PLIERS

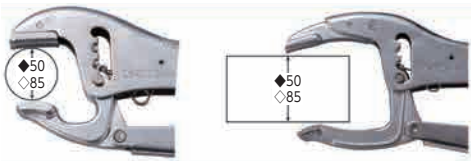
▶ Features
- The 4 steps gripping adjustment enables quick setting according to the work size.
- Unique grip position opening switching allows tight grip just by gripping the handle.
- Jaws open instantly in one touch by pressing the lever.

SG225 (Standard type)

SG250 (Standard type)

SG275L (Long nose type)

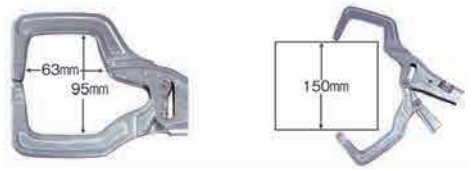
SG325C (Wide mouth type)

Standard type


- Max. jaw opening (mm) SG225=◆ SG250=◇

Long nose type

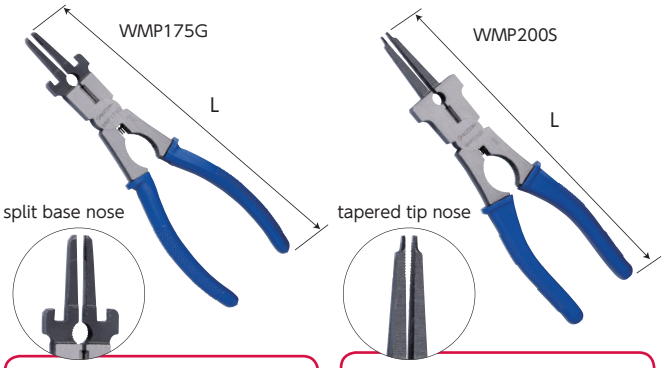
- Thin and long nose optimal for operation in confined spaces.

Wide mouth type


- Wide mouth and deep throat optimal for operation on works like angles and channels.

Item No.	Full length (mm)	Strength capacity at max. opening (kN)	N.W. (g)
SG225	239	4.9	550
SG250	261	4.9	650
SG275L	286	3.4	670
SG325C	326	3.4	900

Tool sets / cases
Socket wrenches
Ratchet wrenches
Offset wrenches, grips
Gear wrenches, open-end spanners
Spanners
Safety ropes
Combination hammer
Sockets
Hex key wrenches
Adjustable angle wrenches
Pliers
Hook spanners, pin spanners
Toggle clamps
C clamps
L clamps
Super setters
Grip pliers
Welding tools
Iron man



* With WMP175G split base nose, you can remove spatters from nozzle tip both inside and outside the nozzle at the same time.

* With WMP200S tapered tip nose, you can work the wire bending to small diameter optimal to insert the wire through the guide module of a welding robot system.

WMP175G • WMP200S

WELDING PLIERS (Multi Type)

MOVIE

For the New Products page, see P.4

▶ Features

- Multi pliers to be used exclusively with CO_2 arc welding torch.
- Suitable for pulling or cutting steel and stainless steel wire.
- Optimal to remove the spatters from any parts of a nozzle and drop them with hammer function.
- Suitable for attaching and detaching tip, nozzle, insulation tube.
- Equipped with a spring for better operation efficiency.

Item No.	Size (mm)	Cutting ability (mm)	N.W. (g)
	L	Welding wire/steel·stainless steel	
WMP175G	182	ϕ1.2	175
WMP200S	212		275

WMC

WELDING CLAMP (Multi Type)

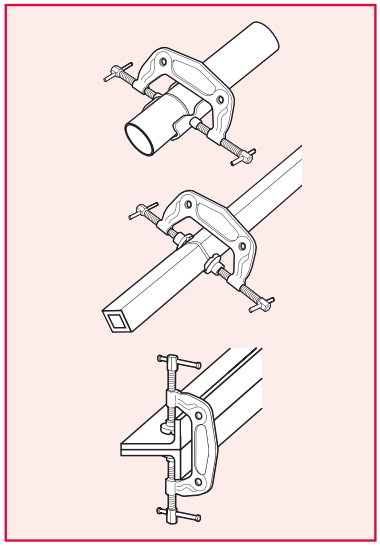
▶ Features

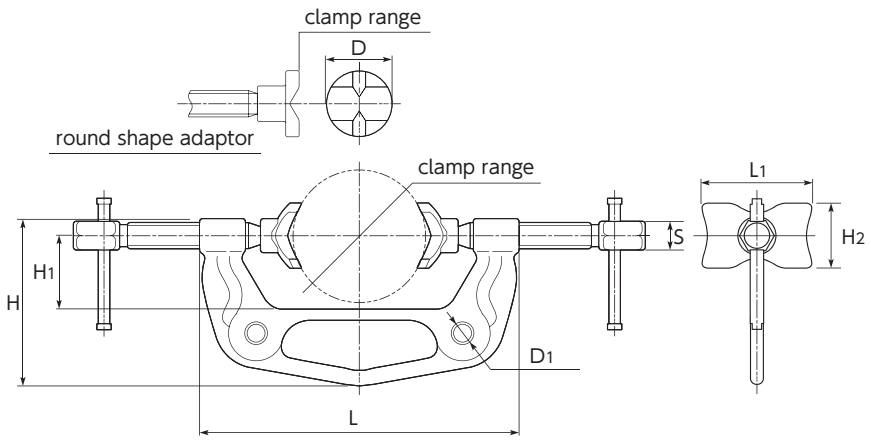
- Convenient for all kinds of pipe fixing and centering.
- All kinds of clamping operations can be done by changing adaptor.
- With quick tightening handle.
- The final turn of the hexagonal head with a wrench ensures even more secure tightening.
- Threads have copper plate finish to help avoid spatters.

* A round shape adaptor and a V-shape adaptor (each 1pc) are included.

WMC4

▶ Example of use





Item No.	Clamp range (mm)		Size (mm)								N.W. (g)
	V-shape adaptor	Round shape adaptor	L	L1	H	H1	H2	D	D1	S	
WMC2	ϕ13.8~ϕ60.5	0~61	147	50	76.6	33.5	30	30	8.3	13	630
WMC4	ϕ42.7~ϕ114.3	0~115	241	100	130	62.5	50	50	10.5	17	2,150

WMCA-P • WMCA-V

WELDING CLAMP ROUND SHAPE ADAPTOR / V-SHAPE ADAPTOR (a Pair)

Round shape adaptor (with stop ring) WMCA4P

V-shape adaptor (with stop ring) WMCA4V

Item No.	Adaptor type	N.W. (g) (a pair)
WMCA2P	Round shape	80
WMCA4P	Round shape	300
WMCA2V	V-shape	160
WMCA4V	V-shape	540

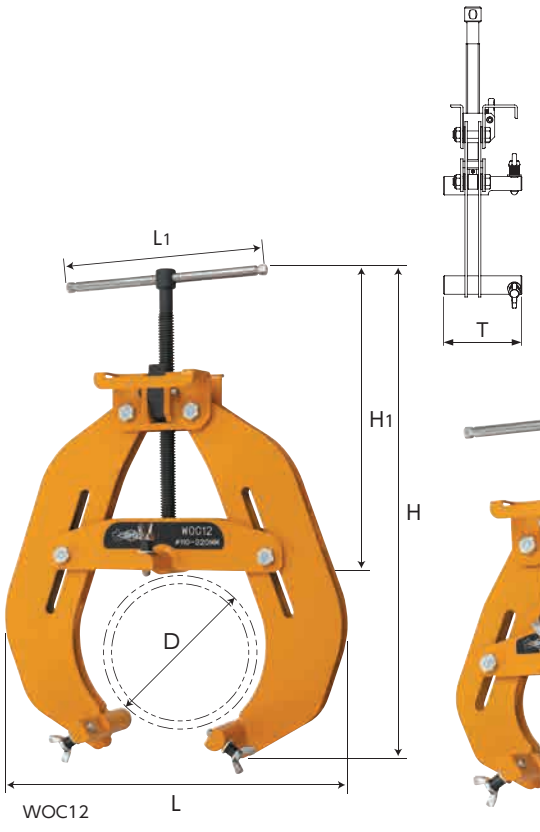
●For all the appendix of the general hand tools & clamps, please refer to P.278~280

WOC

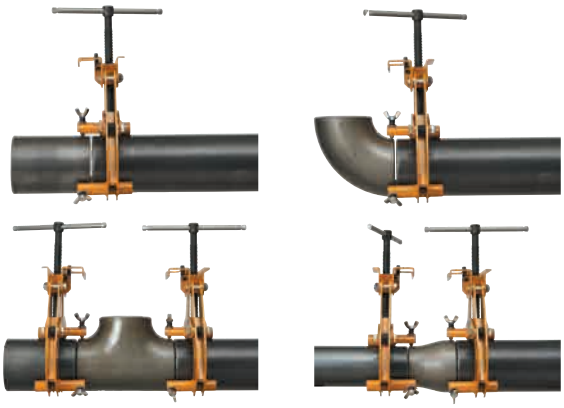
PIPE WELDING CLAMP "BRIDGE"

▶ Features

- Pipe fixing and centering can be done by anyone with easy one-touch operation.
- The body tightening screw has a quick turning mechanism enabling quick attaching and detaching.
- The parts in contact with the pipes are in stainless steel, so it can be used for both steel pipe and stainless pipe.
- No need for temporary welding with piece or for finish grinding.
- The base material prevents scratch and defect.



▶ Example of use



1 Loosen the wing bolts (3 spots). (Fig.1)

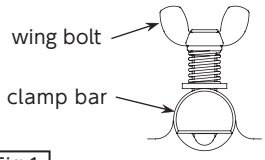


Fig.1

2 Open the claws of the pipe welding external clamp. Hold the grip and lift up the handle to open the claw by keeping pressing the fast-forward lever (Photo1) (Fig.2).

Photo1

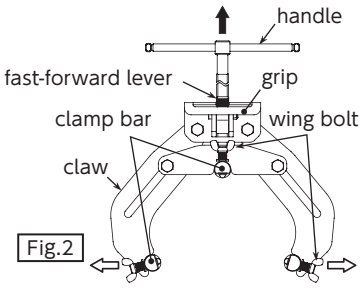
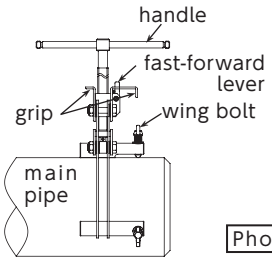


Fig.2

3 Keep open the claws, place them on the main pipe at the appropriate position and fix by tightening the handle. (Fig.3)

* Here, when you lift up the grip while pressing the fast-forward lever (photo2), the claws will close quickly.

Fig.3



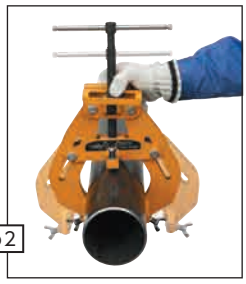


Photo2

4 Tighten the wing bolts (3 spots) until they touch the main pipe. (Fig.4)

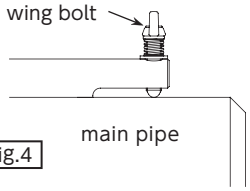


Fig.4

5 Loosen the handle, move the pipe welding external clamp to the end of the main pipe, and tighten the handle to fix firmly the clamp on the main pipe. (Fig.5)

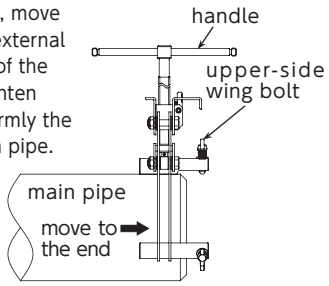


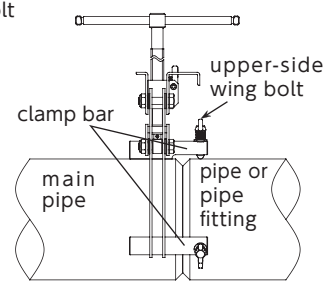
Fig.5

6 Loosen only the upper-side wing bolt (by turning about 1-2 times).

7 Insert the pipe or the pipe fitting (elbow, flange, etc.) to be welded between the clamp bars and fix it to the main pipe by tightening the upper-side wing bolt. (Fig.6)

* In case the centers are not aligned, further adjustment is to be made at the other wing bolts.
* In case a groove clearance is required, secure the indicated clearance and then fix the pipe or the pipe fitting.

Fig.6



8 Tack weld the pipe or the pipe fitting.

9 Detach the pipe welding external clamp. Hold the grip and loosen the handle. Lift up the handle while pressing the fast-forward lever (Photo1). Then the claws will open quickly.

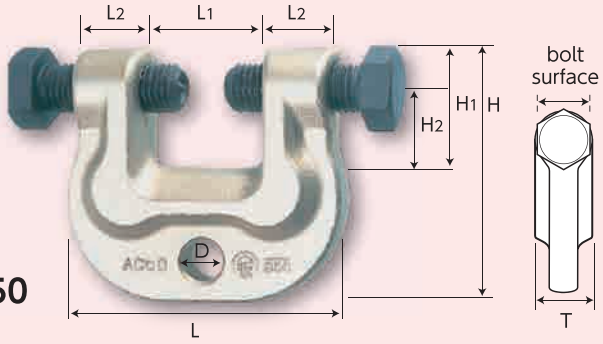
Item No.	Applicable pipe		Size(mm)					N.W. (kg)
	Size name	External diameter D	L	L1	H	H1	T	
WOC6	1～ 6B	34～170	219～335	230	314～403	255	105	5.2
WOC12	4～12B	110～320	348～525		448～568	322		7.9

IRON MAN (Clamp for Temporary Structure)

AC・AC-H・ACL

Optimal for assembling materials for temporary structures such as working platforms.

AC36

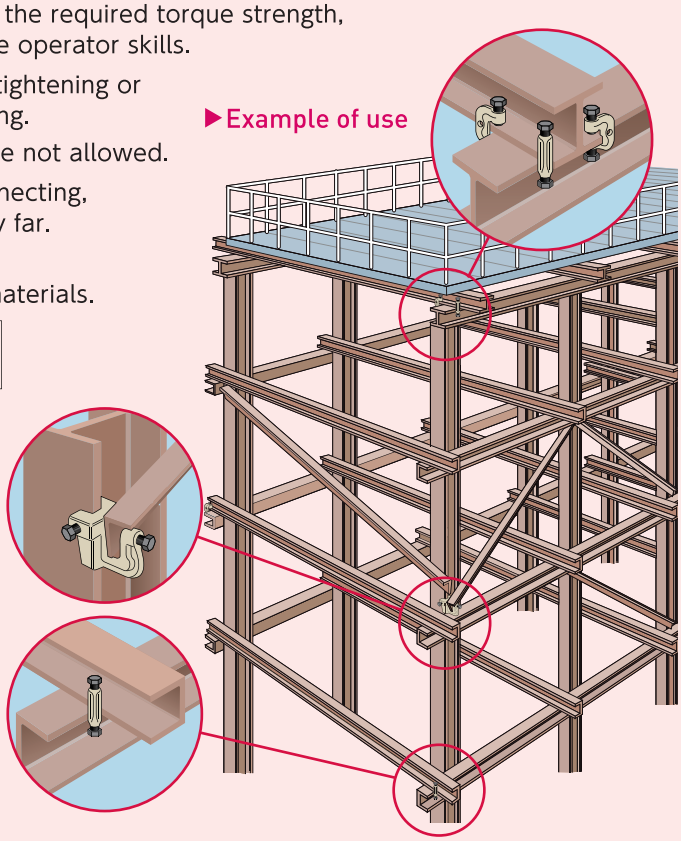


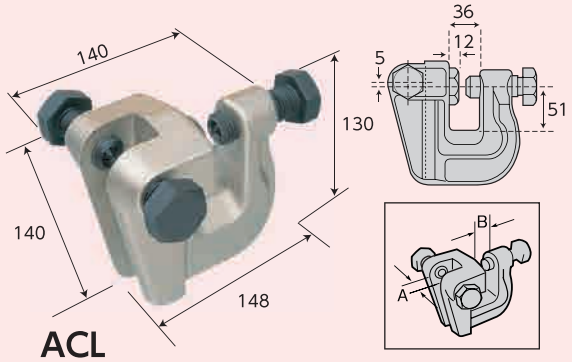
AC50

- You can assemble just by tightening the bolts at the required torque strength, so the assembling quality is not influenced by the operator skills.
- Assembly and disassembly can be done just by tightening or loosening the bolts, no need for welding or drilling.
- Can be fixed in places where fire or electricity are not allowed.
- Compared to traditional welding or bolt nut connecting, the assembling/disassembling time is reduced by far.
- The points of the bolts are induction-hardened and designed to firmly bite into and hold steel materials.

Scaffolding and Construction Equipment Association of Japan authorized items. (AC50・50H・60)

▶Example of use





ACL

⚠ Read the operation manual before use.
Follow all safety and handling points.

Item No.	Clamp range (mm)	Load tested for deformation (opening strength resistance) (kN)	Bolt surface	Bolt tightening torque (mm)	Size (mm)								N.W. (kg)
					L	L1	L2	H	H1	H2	D	T	
AC36	9~36	10	17	49	90	40	20	65	35	25	ϕ6	20	0.55
AC45	9~45	30	24	147	114	48	28	92	44	31	ϕ12	26	1.1
AC50	9~50	50	36	294	135	55	35	120	55	36	ϕ18	38	2.6
AC50H	9~50	50	41	294	135	55	35	120	55	36	ϕ18	38	2.7
AC60	21~60	50	36	294	156	63	35	126	55	36	ϕ18	40	3.5

The opening strength resistance is a testing load only and is different from the guaranteed load.

Item No.	Clamp range (mm)	Load tested for deformation (opening strength resistance) (kN)	Bolt surface	Bolt tightening torque (mm)	N.W. (kg)
ACL	(A) 9~22<H beam side> (B) 5~19<Angle beam side>	70	36	294	4.5