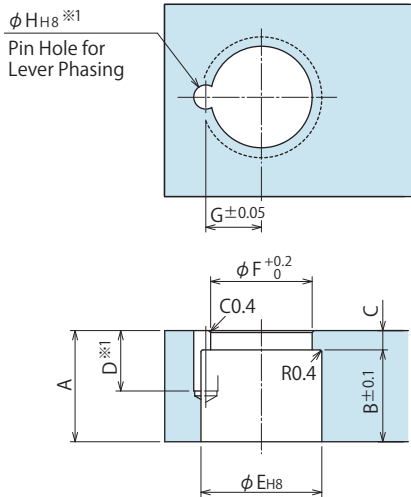
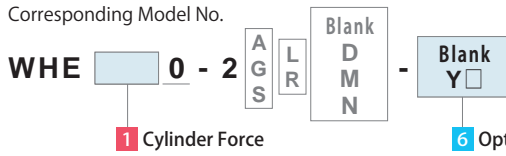


Taper Lock Lever Design Dimensions

※ Reference for designing taper lock swing lever.

Corresponding Model No.



Corresponding Model No.	WHE0600-2□□□	WHE1000-2□□□	WHE1600-2□□□	WHE2500-2□□□	WHE4000-2□□□
A	14	16	18	22	26
B	11	13	15	18	22
C	3	3	3	4	4
D	8.5	8.5	10.5	10.5	14.5
E	$14^{+0.027}_0$	$16^{+0.027}_0$	$18^{+0.027}_0$	$22^{+0.033}_0$	$28^{+0.033}_0$
F	11	13	15	17	23.5
G	6	7.1	8.1	10.1	13.1
H	$3^{+0.014}_0$	$4^{+0.018}_0$	$4^{+0.018}_0$	$4^{+0.018}_0$	$6^{+0.018}_0$
Phasing Pin (Reference) ※2	$\phi 3(h8) \times 8$	$\phi 4(h8) \times 8$	$\phi 4(h8) \times 10$	$\phi 4(h8) \times 10$	$\phi 6(h8) \times 14$

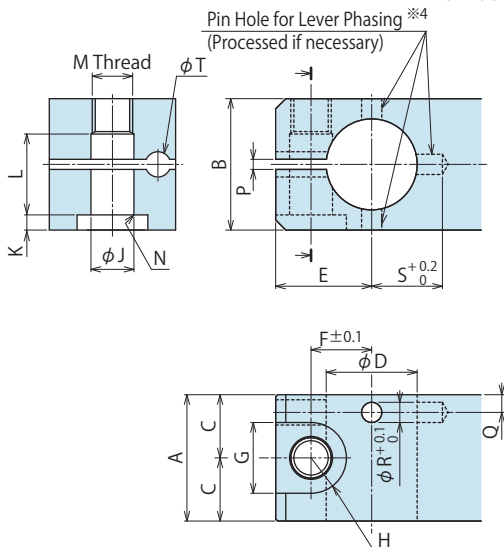
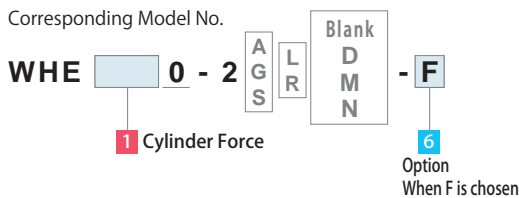
Notes

- Swing lever should be designed with its length according to performance graph.
 - If the swing lever is not in accordance with the dimensions shown above, performance may be degraded and damage can occur.
- ※1. The pin hole for lever phasing (ϕH) should be added if necessary.
 ※2. The pin for lever phasing is not attached. Please prepare separately.
 ※3. Please refer to the swing lever design dimension for quick change lever option that is described below when -F option (quick change lever option) is used.
 Please make self preparation, when -P option is chosen (balance lever option).

Quick-Change Lever Design Dimensions

※ Reference for designing quick change swing lever.

Corresponding Model No.



Corresponding Model No.	WHE0600-2□□□-F	WHE1000-2□□□-F	WHE1600-2□□□-F	WHE2500-2□□□-F	WHE4000-2□□□-F
A	16	19	22	30	34
B	19	22	25	30	36
C	8	9.5	11	15	17
D	$12^{0}_{-0.016}$	$14^{0}_{-0.016}$	$16^{0}_{-0.016}$	$20^{0}_{-0.016}$	$25^{0}_{-0.020}$
E	13	15	18	22	26.5
F	7.75	9.25	11	13.75	17
G	10	11	14	17.5	20
H	R5	R5.5	R7	R8.75	R10
J	5.5	6.5	8.5	10.5	12.5
K	1.5	2	3	2	4
L	11.5	13.5	15.5	18	22
M	M5×0.8	M6×1	M8×1	M10×1.25	M12×1.5
N	C0.4	C0.4	C0.6	C0.6	C1
P	2	2	2	2	2
Q	2.25	2.5	3.5	3.5	4
R	2.5	3	4	4	4
S	10.5	13	13	17	19.5
T	2.9	3.4	4.5	4.5	4.5
Phasing Pin (Reference) ※5	$\phi 2.5 \times 6$	$\phi 3 \times 8$	$\phi 4 \times 8$	$\phi 4 \times 10$	$\phi 4 \times 10$

Notes

- Swing lever should be designed with its length according to performance graph.
 - If the swing lever is not in accordance with the dimensions shown above, performance may be degraded and damage can occur.
 - Sells the tightening bolt (WHZ□0-B) for lever separately.
- ※4. The pin hole for lever phasing (ϕR) should be added if necessary.
 ※5. The pin for lever phasing is not attached. Please prepare separately.

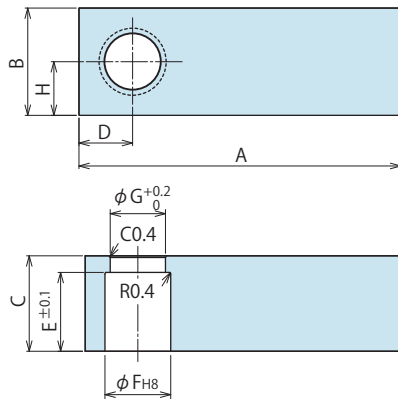
● Accessories : Material Swing Lever for Taper Lock Option

Model No. Indication

WHZ 160 0 - T

Size
(Refer to following table)

Design No.
(Revision Number)



(mm)

Model No.	WHZ0600-T	WHZ1000-T	WHZ1600-T	WHZ2500-T	WHZ4000-T
Corresponding Model No.	WHE0600-2□□□	WHE1000-2□□□	WHE1600-2□□□	WHE2500-2□□□	WHE4000-2□□□
	WHE0600-2□□□-Y□	WHE1000-2□□□-Y□	WHE1600-2□□□-Y□	WHE2500-2□□□-Y□	WHE4000-2□□□-Y□
A	90	90	125	150	170
B	21	25	28	34	45
C	14	16	18	22	26
D	10.5	12.5	14	17	23
E	11	13	15	18	22
F	14 ^{+0.027} / ₀	16 ^{+0.027} / ₀	18 ^{+0.027} / ₀	22 ^{+0.033} / ₀	28 ^{+0.033} / ₀
G	11	13	15	17	23.5
H	10.5	12.5	14	17	22.5

Notes

1. Material : S50C
2. If necessary, the front end should be additionally machined.
3. When determining the phase, refer to taper lock lever design dimensions for each model for the additional machining.

※6. Please refer to the accessory for quick change option when 'F' option (quick change lever option) is used.
Please make self preparation, when P option is chosen (balance lever option).

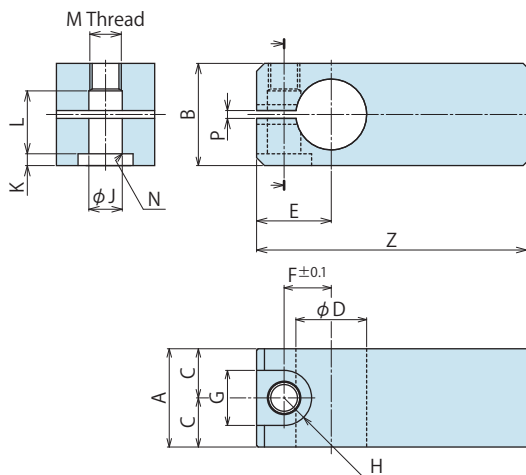
● Accessories : Material Swing Lever for Quick Change Option

Model No. Indication

WHZ 160 0 - F

Size
(Refer to following table)

Design No.
(Revision Number)



(mm)

Model No.	WHZ0600-F	WHZ1000-F	WHZ1600-F	WHZ2500-F	WHZ4000-F
Corresponding Model No.	WHE0600-2□□□-F	WHE1000-2□□□-F	WHE1600-2□□□-F	WHE2500-2□□□-F	WHE4000-2□□□-F
A	16	19	22	30	34
B	19	22	25	30	36
C	8	9.5	11	15	17
D	12 ⁰ / _{-0.016}	14 ⁰ / _{-0.016}	16 ⁰ / _{-0.016}	20 ⁰ / _{-0.016}	25 ⁰ / _{-0.020}
E	13	15	18	22	26.5
F	7.75	9.25	11	13.75	17
G	10	11	14	17.5	20
H	R5	R5.5	R7	R8.75	R10
J	5.5	6.5	8.5	10.5	12.5
K	1.5	2	3	2	4
L	11.5	13.5	15.5	18	22
M	M5×0.8	M6×1	M8×1	M10×1.25	M12×1.5
N	C0.4	C0.4	C0.6	C0.6	C1
P	2	2	2	2	2
Z	95	105	120	150	170

Notes

1. Material S50C
2. If necessary, the front end should be additionally machined.
3. When determining the phase, refer to quick change lever design dimensions for each model for the additional machining.
4. Sells the tightening bolt for lever separately.

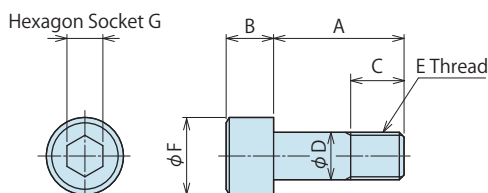
● Accessories : Tightening Bolts for Quick Change Lever

Model No. Indication

WHZ 160 0 - B

Size
(Refer to following table)

Design No.
(Revision Number)



(mm)

Model No.	WHZ0600-B	WHZ1000-B	WHZ1600-B	WHZ2500-B	WHZ4000-B
Corresponding Model No.	WHE0600-2□□□-F	WHE1000-2□□□-F	WHE1600-2□□□-F	WHE2500-2□□□-F	WHE4000-2□□□-F
A	17.5	20	22	28	32
B	5	6	8	10	12
C	6.5	7	9	11	13
D	5	6	8	10	12
E	M5×0.8	M6×1	M8×1	M10×1.25	M12×1.5
F	8.5	10	13	16	18
G	4	5	6	8	10

High-Power Series

Pneumatic Series

Hydraulic Series

Valve / Coupler Hydraulic Unit

Manual Operation Accessories

Cautions / Others

High-Power Hydraulic Swing Clamp
LHE

High-Power Hydraulic Link Clamp
LKE

High-Power Pneumatic Hole Clamp
SWE

High-Power Pneumatic Swing Clamp
WHE

High-Power Pneumatic Link Clamp
WCE

High-Power Pneumatic Work Support
WNC

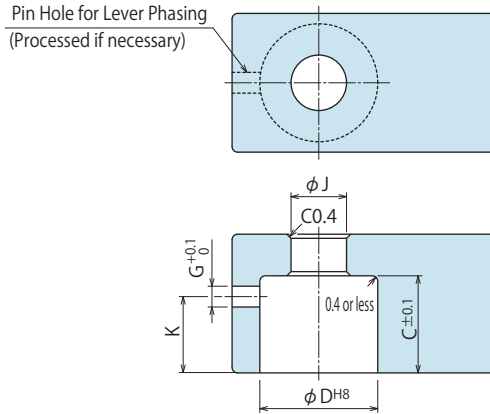
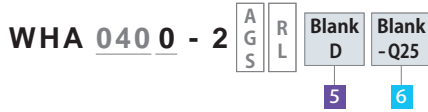
High-Power Pneumatic Pallet Clamp
WVS

● **Swing Lever Design Dimensions**

※ Reference for designing taper lock swing lever.

Taper Lock Lever Option

Corresponding Model No.



	(mm)			
Corresponding Model No.	WHA0320-2□□	WHA0400-2□□	WHA0500-2□□	WHA0630-2□□
	WHA0320-2□□D	WHA0400-2□□D	WHA0500-2□□D	WHA0630-2□□D
	WHA0320-2□□-Q25	WHA0400-2□□-Q25	WHA0500-2□□-Q25	WHA0630-2□□-Q25
C	14	18	22	24
D	17 ^{+0.027} ₀	19 ^{+0.033} ₀	24 ^{+0.033} ₀	29 ^{+0.033} ₀
G	3	3	4	4
J	9	9	11	14
K	11	15	18.5	20.5
Locating Pin (Reference)	ϕ3×6	ϕ3×6	ϕ4×8	ϕ4×10

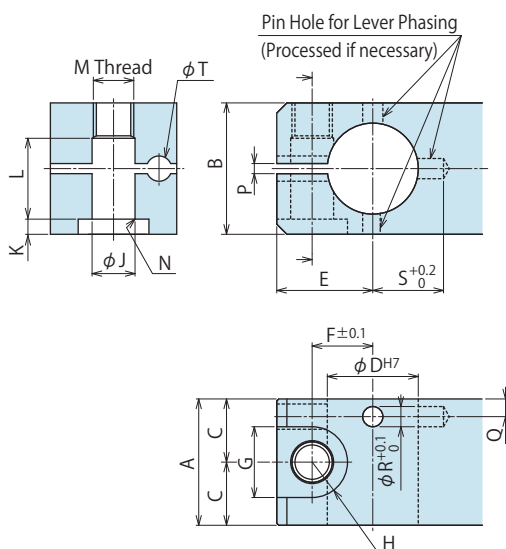
Notes

1. Swing lever should be designed with its length according to performance graph.
2. If the swing lever is not in accordance with the dimensions shown above, performance may be degraded and damage can occur.
3. The pin hole for lever phasing (ϕ J) should be added if necessary.

Quick Change Lever Option (-F)

※ Reference for designing quick change lever.

Corresponding Model No.



	(mm)			
Corresponding Model No.	WHA0320-2□□-F	WHA0400-2□□-F	WHA0500-2□□-F	WHA0630-2□□-F
A	20	22	28	35
B	22	22	26	32
C	10	11	14	17.5
D	14 ^{+0.018} ₀	16 ^{+0.018} ₀	20 ^{+0.021} ₀	25 ^{+0.021} ₀
E	14.5	15.5	20	24.5
F	9.25	10.25	13	16.25
G	11	11	14	17.5
H	R5.5	R5.5	R7	R8.75
J	6.5	6.5	8.5	10.5
K	2	2	3	4
L	13.5	13.5	16	18
M	M6×1	M6×1	M8×1	M10×1.25
N	C0.4	C0.4	C0.6	C0.6
P	2	2	2	2
Q	2.5	2.5	3.5	3.5
R	3	3	4	4
S	13	14	15	19.5
T	3.4	3.4	4.5	4.5
Locating Pin (Reference)	ϕ3×8	ϕ3×8	ϕ4×8	ϕ4×10

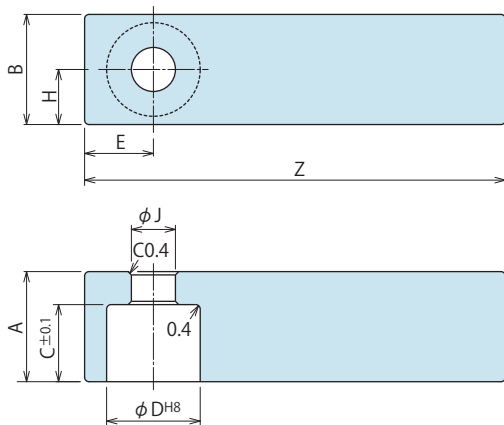
Notes

1. Swing lever should be designed with its length according to performance graph.
2. If the swing lever is not in accordance with the dimensions shown above, performance may be degraded and damage can occur.
3. The pin hole for lever phasing (ϕ R) should be added if necessary.
4. Sells the tightening bolt (LZH□0-B) for lever separately.

Accessories : Material Swing Lever for Taper Lock Option

Model No. Indication

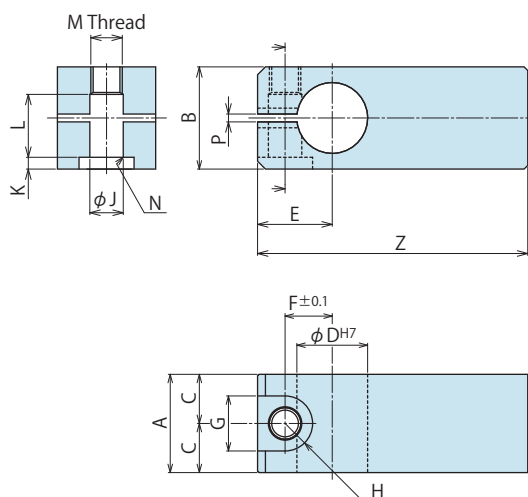
WHZ 040 0 - T

Size
(Refer to following table)Design No.
(Revision Number)

Material Swing Lever for Quick Change Option

Model No. Indication

WHZ 040 0 - F

Size
(Refer to following table)Design No.
(Revision Number)

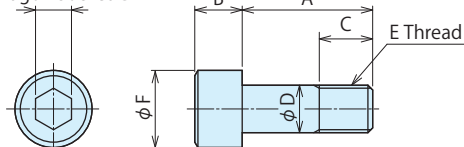
Tightening Bolts for Quick Change Lever

Model No. Indication

LZH 036 0 - B

Size
(Refer to following table)Design No.
(Revision Number)

Hexagon Socket G



(mm)

Model No.	WHZ0320-T	WHZ0400-T	WHZ0500-T	WHZ0630-T
Corresponding Model No.	WHA0320-2□□ WHA0320-2□□-Q25	WHA0400-2□□ WHA0400-2□□-Q25	WHA0500-2□□ WHA0500-2□□-Q25	WHA0630-2□□ WHA0630-2□□-Q25
A	20	22	28	35
B	20	22	28	35
C	14	18	22	24
D	17 ^{+0.027} ₀	19 ^{+0.033} ₀	24 ^{+0.033} ₀	29 ^{+0.033} ₀
E	12.5	13	16	19
H	10	11	14	17.5
J	9	9	11	14
Z	90	125	150	180

Notes

1. Material S45C
2. If necessary, the front end should be additionally machined.
3. When determining the phase, refer to taper lock lever design dimensions for each model for the additional machining.

(mm)

Model No.	WHZ0320-F	WHZ0400-F	WHZ0500-F	WHZ0630-F
Corresponding Model No.	WHA0320-2□□-F	WHA0400-2□□-F	WHA0500-2□□-F	WHA0630-2□□-F
A	20	22	28	35
B	22	22	26	32
C	10	11	14	17.5
D	14 ^{+0.018} ₀	16 ^{+0.018} ₀	20 ^{+0.021} ₀	25 ^{+0.021} ₀
E	14.5	15.5	20	24.5
F	9.25	10.25	13	16.25
G	11	11	14	17.5
H	R5.5	R5.5	R7	R8.75
J	6.5	6.5	8.5	10.5
K	2	2	3	4
L	13.5	13.5	16	18
M	M6×1	M6×1	M8×1	M10×1.25
N	C0.4	C0.4	C0.6	C0.6
P	2	2	2	2
Z	90	125	150	180

Notes

1. Material S45C
2. If necessary, the front end should be additionally machined.
3. When determining the phase, refer to quick change lever design dimensions for each model for the additional machining.
4. Sells the tightening bolt (LZH□0-B) for lever separately.

(mm)

Model No.	LZH0360-B	LZH0400-B	LZH0480-B
Corresponding Model No.	WHA0320-2□□-F / WHA0400-2□□-F	WHA0500-2□□-F	WHA0630-2□□-F
A	20	23	28
B	6	8	10
C	7	10	11
D	6	8	10
E	M6×1	M8×1	M10×1.25
F	10	13	16
G	5	6	8

High-Power
Series

Pneumatic Series

Hydraulic Series

Valve / Coupler
Hydraulic UnitManual Operation
Accessories

Cautions / Others

Pneumatic
Hole Clamp

SWH

Pneumatic
Swing Clamp

WHA

Pneumatic
Link Clamp

WCA

Air Flow
Control Valve

BZW

Pneumatic Expansion
Locating Pin

WM

WK