

2023-2025

WORK

CLAMPING SYSTEM

COMPREHENSIVE PRODUCT SAMPLES









Conical sleeve type workpiece support with greatly improved reliability

Model Representation

HH33 — ① ② (Example: HH33-03T)

 $\begin{tabular}{ll} \hline \end{tabular} \begin{tabular}{ll} Dimensions (refer to specification sheet) \\ \hline \end{tabular}$

2 Rising spring force

③Special specification mark

HH33

02T 03T 05T 07T

L: Standard type H: Strong type Unmarked: standard type

B: air pressure sensor

Specification

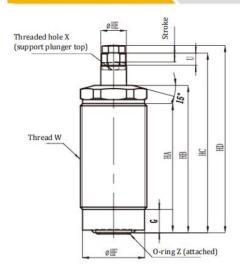
	Model	НН33-02Т	нн33-03Т	НН33-05Т	НН33-07Т
Workpiece support force (wh	nen oil pressure is 7Mpa) ※1 (KN)	2.5	5 3 5 7		7
Cylinder capacity (cm ³)		0.3	0.7	0.7	1.2
Rising spring force × 2	L: Standard type (N)	2.4~3.1	4~6.3	4~8.8	5.1~8.5
	H: Strong type (N)	4.2~6.5	6~8.4	7.8~13.4	7.9~13.6
Support plunger stroke	(mm)	6.5	8	8	10
Maximum allowable mass of	cap (kg)	0.	0.05 0.1		.1
Mass	(kg)	0.2	0.3	0.4	0.7

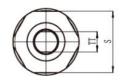
Operating oil pressure range: $2.5 \sim 7 \text{MPa}$ Guaranteed pressure resistance: 10.5 MPa Operating ambient temperature: $0.70 ^{\circ}\text{C}$ Operating fluid: ordinary mineral oil-based hydraulic oil (equivalent to ISO-VG32)

^{* 1:} When the workpiece support is used opposite to the clamp, in order to make the support force reach more than 1.5 times of (clamping force + cutting load), please select the workpiece support and clamp with matching model.

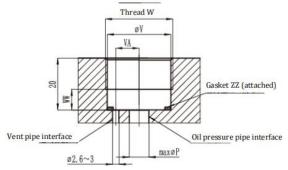
 $[\]times$ 2: The rising spring force indicates the spring force supporting the rising end and the falling end of the plunger rod.

Overall Dimension





Installation hole machining drawing



Model	нн33-02Т	нн33-03Т	НН33-05Т ※2	нн33-07Т
НА	50.1	54.1	49.1	59.1
НВ	57	62	58	71
НС	70	77	73	88
HD	73	81	77	92
HE	10 f7	12 f7	15 f7	16 f7
HF	24.3001	$28.2^{0}_{-0.1}$	$34.2^{0}_{-0.1}$	$43.2^{0}_{-0.1}$
G	9	9	9	9.5
S	24	27	32	36
TT	8	10	11	11
U	4.7	4	3.6	4.9
V	24.5	28.5	34.5	43.5
VA	9	11	13	16
W (nominal diameter × pitch)	M26×1.5	M30×1.5	M36×1.5	M45×1.5
WW	8	9	9	9
X (nominal diameter ×	M6×1 deep	M8×1.25	M10×1.5	M10×1.5
pitch depth)	7.5	deep 8	deep 10	deep 10
Z※1	10.82×1.78	12.42×1.78	12.42×1.78	14×1.78
ZZ※1	20×24×1.25	23×28×1.3	28×34×1.25	43×38×1.25
Main body tightening torque	35~45 N·m	40~50 N·m	45~55 N·m	55~65 N·m
Cap tightening torque	10 N·m	20 N·m	30 N⋅m	30 N⋅m
Фр	7.5	9	9	9

- \divideontimes 1: attached 0-ring
- lophi 2: sample size changes when compared with that in the previous period Note 1. When using bench vise and other tools to fix the hexagon of the main body, please tighten it with a force of less than 2.5kN.
- 2. This figure shows the state of screwing the cap into the support plunger rod when it is not pressurized.

Oil Pressure	Workpiece Support Force (KN)			
(Mpa)	нн33-02Т	нн33-03Т	нн33-05Т	нн33-07Т
2.5	0.6	0.8	1	1.8
3.0	0.8	1	1.3	2.3
3.5	1	1.3	1.7	3
4.0	1.2	1.5	2	3.5
4.5	1.4	1.8	2.3	4.1
5.0	1.7	2	2.7	4.7
5.5	1.9	2.3	3	5.3
6.0	2.1	2.5	3.3	5.9
6.5	2.3	2.8	3.6	6.4
7.0	2.5	3	4	7

Load(KN)	Deformation amount (μm) is the unusable range				
	нн33-02т	нн33-03Т	нн33-05Т	нн33-07Т	
0	0	0	0	0	
1	8.4	6.7	5	3.6	
2	16.8	13.3	10	7.1	
3		20	15	10.7	
4			20	14.3	
5				17.9	
6				21.4	
7				25	