

HYDRAULIC CHUCK LATHE TYPE

NEW innovation for CNC automatic lathes

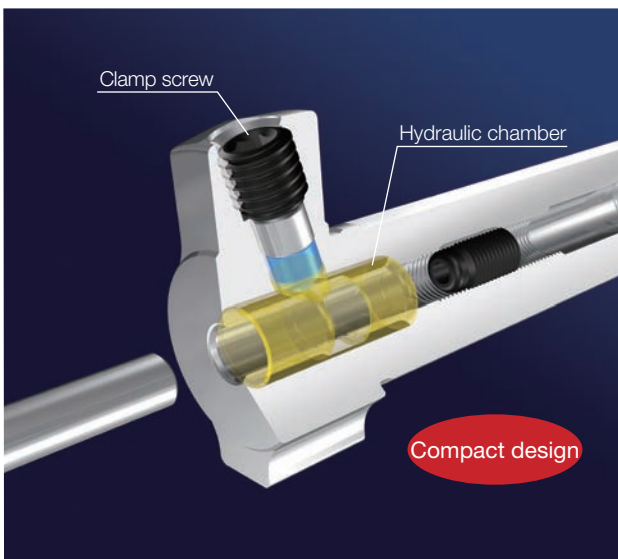
The Hydraulic Chuck supports high-precision drilling and reaming on CNC automatic lathes.



Easy to change tools even inside a machine with limited space, using a single wrench.

Repeatability within **1 μm** at 4D

Integral sleeve construction

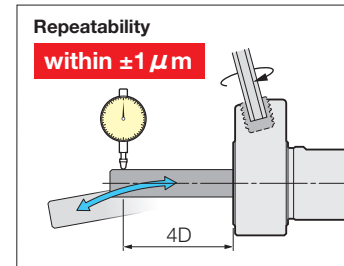


Integrated design provides high durability and easy maintenance. Also the rigidity is greatly improved by the short overhang and dual pressure points.

Repeatability within $\pm 1 \mu\text{m}$

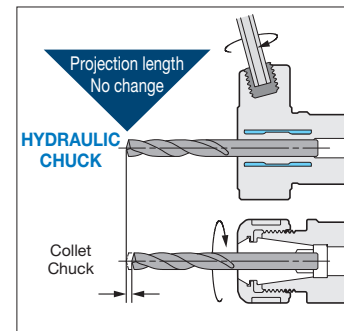
High precision repeatability less than $1 \mu\text{m}$ at 4d improves the tool life.

The cutting tool can be clamped or unclamped easily and securely with just one wrench.



No change in tool length

Since the projection length of the cutting tool does not change before and after tightening the clamp screw, it is easy to adjust the length on the machine.



Front-side Clamping Type



Extensive product lineup!!

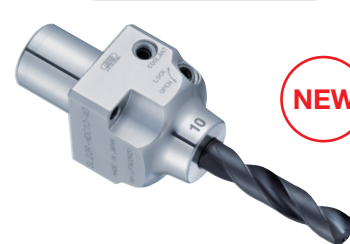
- For Tool Post 1&2
- Adjusting Screw can be used for some models.

Back-side Clamping Type

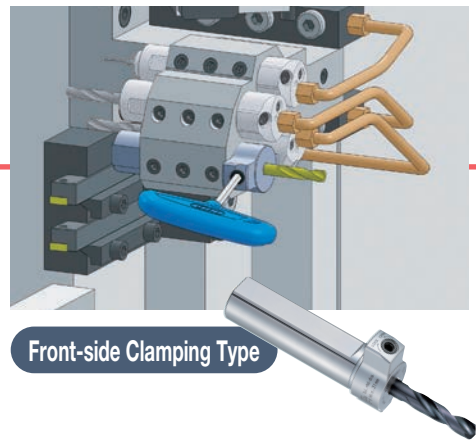
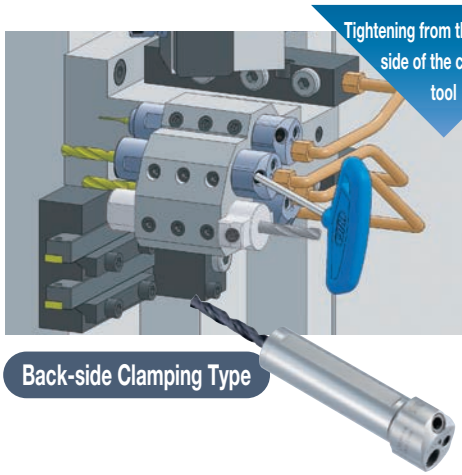


- For Tool Post 1
- Clamping screw is located opposite to the cutting tool.

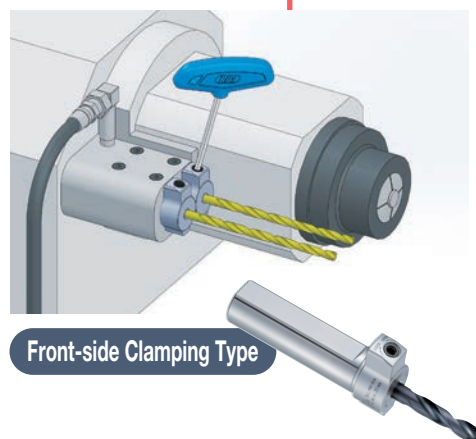
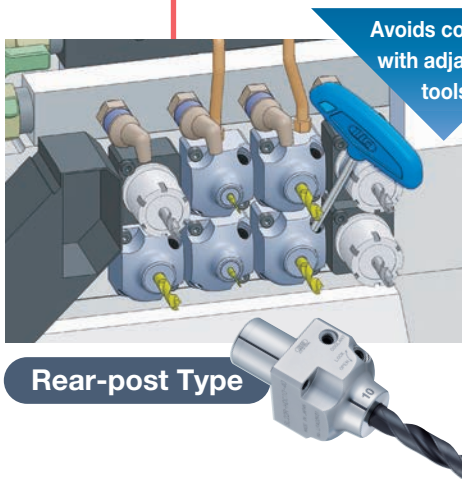
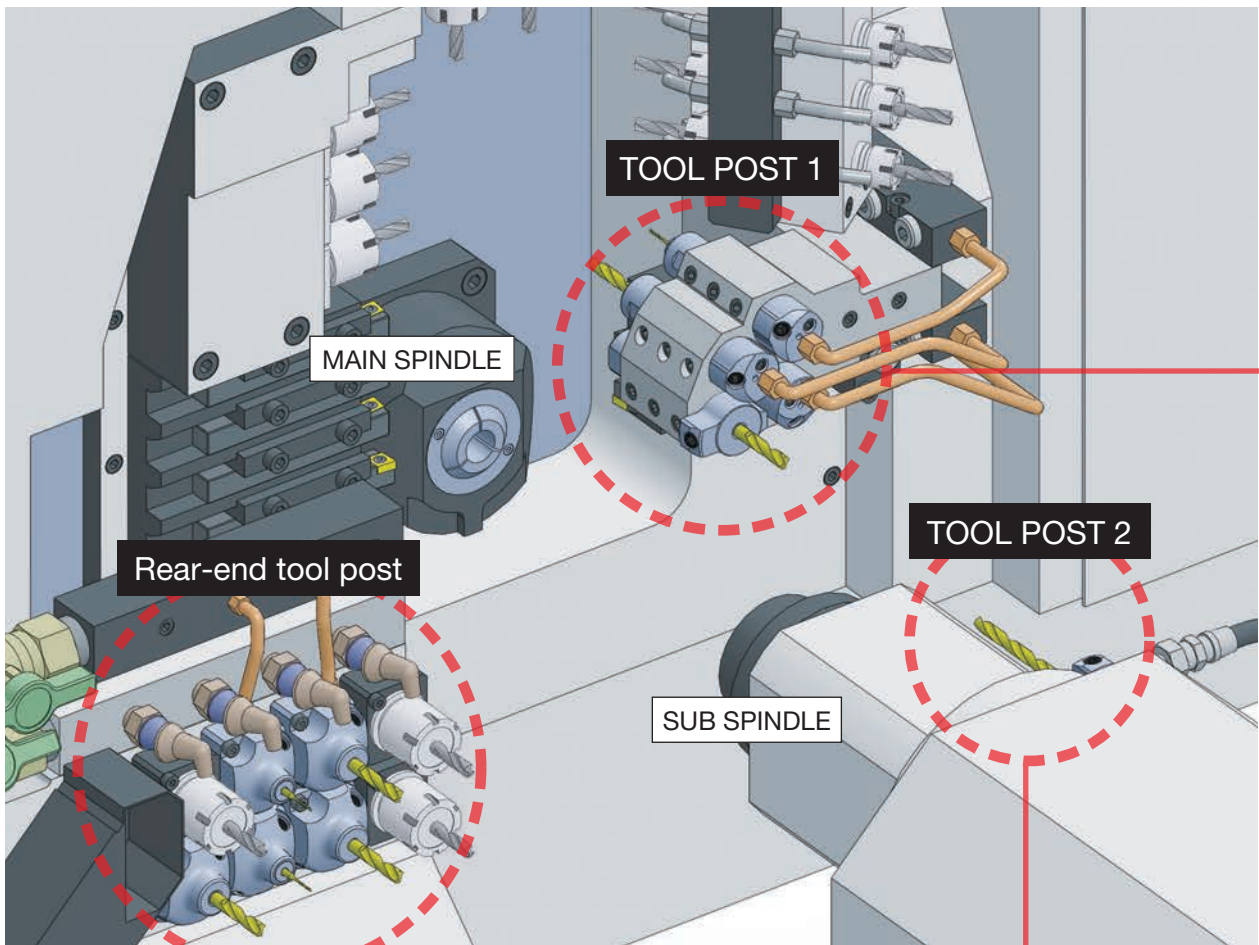
Rear-post Type



- For Rear end tool post
- Easy operation also on the lower stage.



<Example: inside SWISS-type automatic lathe>



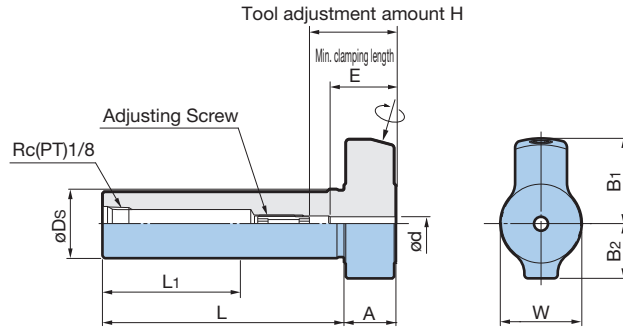
HYDRAULIC CHUCK LATHE TYPE

Front-side Clamping Type

- Most popular design available for various tool posts.
- Rc(PT)1/8 piping thread preparation for coolant through tool.
- Adjusting Screw can be used with some models.



Extensive product lineup!!



Model	Clamping diameter ød	øDs	L	L1	A	B1	B2	W	Tool adjustment amount H	Min. clamping length E	Adjusting Screw (Optional)	Weight (kg)
SL19.05 -HDC 3- 60 ✖	3	19.05	60	20	15	24.5	15.8	22	20 - 32	16	HDA4-05015W	0.18
-HDC3.175- 60 ✖ NEW	3.175								19	0.18		
-HDC 4- 60	4								25	0.18		
-HDC 6- 60 ▲	6								31	0.16		
-HDC 8- 60 ▲	8								31	0.16		
SL20 -HDC 3- 70 ✖	3	20	70	30	15	24.5	15.8	23	20 - 32	16	HDA4-05015W	0.22
-HDC 4- 70	4								19	0.22		
-HDC 6- 70	6								25	0.22		
-HDC 8- 70 ▲	8								31	0.21		
	8								75	0.21		
SL22 -HDC 3- 70 ✖	3	22	70	30	15	24.5	15.8	25	20 - 32	16	HDA4-05015W	0.26
-HDC 4- 70	4								19	0.26		
-HDC 6- 70 ▲	6								25	0.26		
-HDC 8- 70 ▲	8								31	0.25		
-HDC10- 70 ▲ NEW	10								33	0.24		
SL25 -HDC 3- 65 ✖ NEW	3	25	65	25	15	23	14	28	20 - 32	16	HDA4-05015W	0.31
-HDC 4- 65 NEW	4								19	0.31		
-HDC 6- 65 NEW	6								25	0.31		
-HDC 8- 65 ▲ NEW	8								16	0.31		
-HDC10- 65 ▲ NEW	10								17	0.29		
-HDC12- 65 ▲ NEW	12								18	0.28		
	12								65	0.28		
SL25.4 -HDC 3- 80 ✖ NEW	3	25.4	80	40	15	23	14	28	20 - 32	16	HDA4-05015W	0.37
-HDC 4- 80 NEW	4								19	0.37		
-HDC 6- 80 NEW	6								25	0.37		
-HDC 8- 80 ▲ NEW	8								16	0.37		
-HDC10- 80 ▲ NEW	10								17	0.35		
-HDC12- 80 ▲ NEW	12								18	0.33		
	12								80	0.33		

1. L1 is the longest possible cutoff position.

2. "H" indicates the adjustment length with an Adjusting Screw.

Models marked with ▲ cannot be used with an Adjusting Screw. The "H" dimension is the max. tool shank length that can be inserted into the holder.

3. Adjusting Screw can also be adjusted from the shank side.

4. When using coolant with ✖ marked models, some coolant may leak from the inner diameter slits.

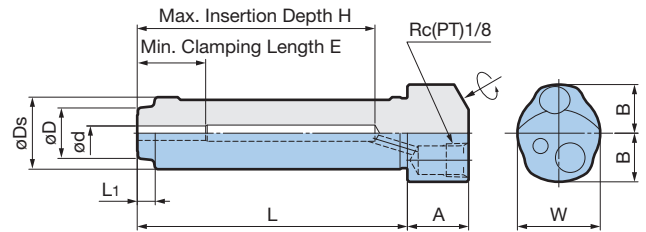


- Use only cutting tools that have a shank diameter within h6.
- Do not use with cutting tools made with a flat on the shank. (ie: Weldon type shank).
- Do not clamp without a tool. · Always insert the cutting tool into the holder beyond min. clamping length E.

Back-side Clamping Type

- Tighten from the opposite side of the cutting tool.
Ideal for use on the Tool-Post 1.
- Rc(PT)1/8 piping thread preparation for coolant through tool.
- Slim design avoids interference with adjacent tools.

NEW



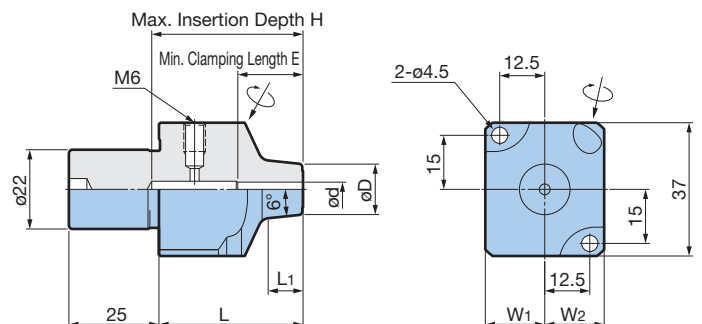
Model	Clamping diameter ød	øD	øDs	L	L1	A	B	W	Max. insertion depth H	Min. clamping length E	Weight (kg)
SL19.05F-HDC 3- 85 ※	3	14	19.05	85	5	17	13.5	22	76	16	0.24
-HDC 4- 85	4									19	
-HDC 6- 80	6									25	
-HDC 8- 80	8									31	
SL20F -HDC 3- 75 ※	3	14	20	75	5	17	13.5	23	66	16	0.24
-HDC 4- 75	4									19	
-HDC 6- 70	6									25	
-HDC 8- 70	8									31	
SL22F -HDC 3- 75 ※	3	14	22	75	5	17	13.5	25	66	16	0.28
-HDC 4- 75	4									19	
-HDC 6- 70	6									25	
-HDC 8- 70	8									31	
-HDC10- 70	10	-	-	70	-	-	-	-	61	33	0.22

1. When using coolant with ※ marked models, some coolant may leak from the inner diameter slits. 2. Adjusting Screw cannot be used.

Rear-post Type

- Tool change with a single wrench avoiding adjacent tools and coolant pipes.
- Easy tool setup even at the lower tool post.
- M6 piping thread preparation for coolant through tool available in upper tool post.

NEW



Model	Clamping diameter ød	øD	L	L1	W1	W2	Max. insertion depth H	Min. clamping length E	Weight (kg)
SL22R-HDC 3- 40 ※	3	14	40	7	16.5	16.5	35	16	0.34
-HDC 4- 40	4			9			42	19	0.33
-HDC 6- 40	6	18		55			25	0.36	
-HDC 8- 40	8	20		54	31	0.36			
-HDC10- 40	10	22		6	17.5	33	0.35		

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- Do not use with cutting tools made with a flat on the shank. (ie: Weldon type shank).
- Do not clamp without a tool. · Always insert the cutting tool into the holder beyond min. clamping length E.