

KITAGAWA

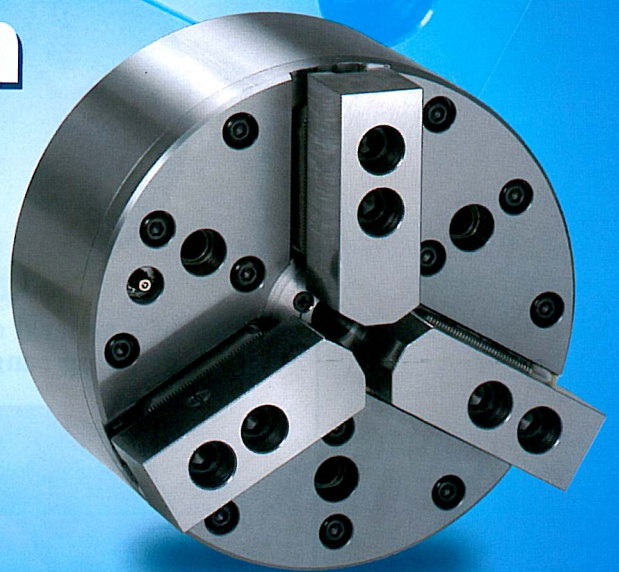


Honesty and Courage
~ Customer first ~
Decade 2011

Jaw parallel shift drawing-down chuck

First
in the world

DDL



dual lock chuck
SERIES

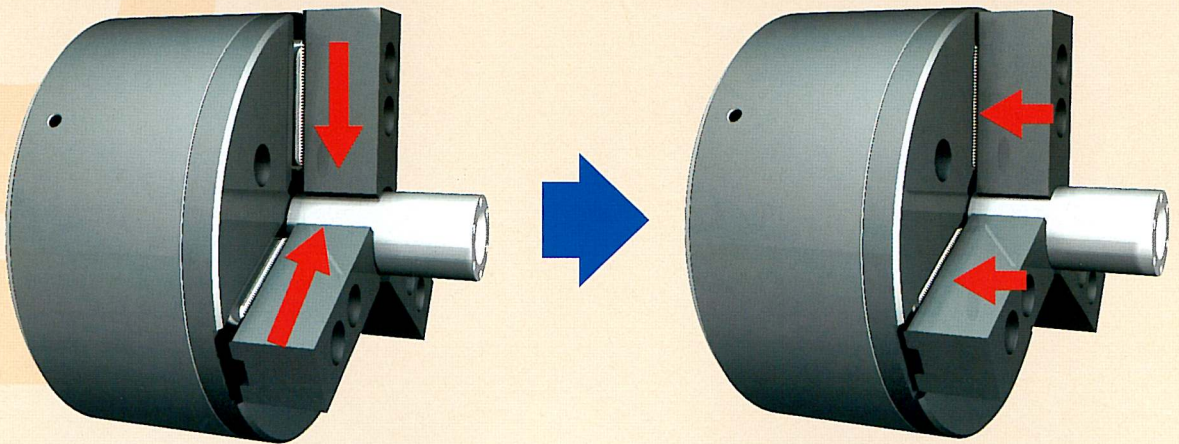
First
in the world

Jaw parallel shift drawing-down chuck

- ◎ The work seating can be checked and the stable accuracy is acquired by drawing-down.
- ◎ This chuck can respond from various kind of small quantity to mass-production processing.
- ◎ The chuck realizes cost effectiveness, because the conventional standard jaws (Serration jaws) can be used.

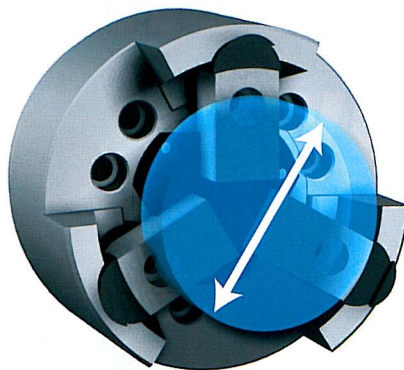
Jaw parallel shift

Drawing-down after chucking

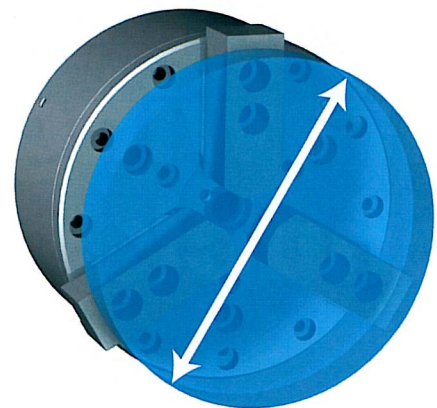


Merit 1

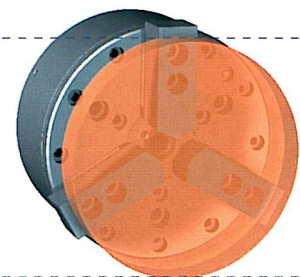
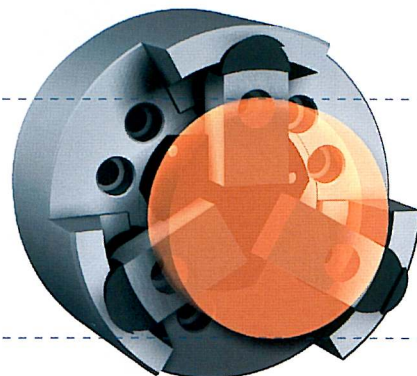
Wide chucking range.



In case of a general drawing-down chuck gripping range is narrow.

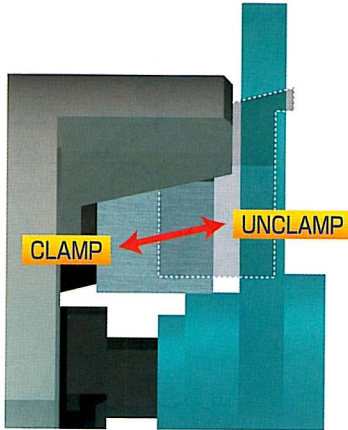


In case of DL chuck, gripping range is wide.

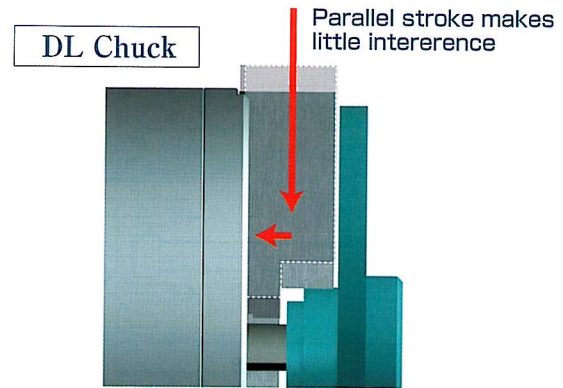


When gripping range is small even the same diameter of works, chuck size can be reduced.

Merit 2 → **The chuck does not interfere with Z-axis.**



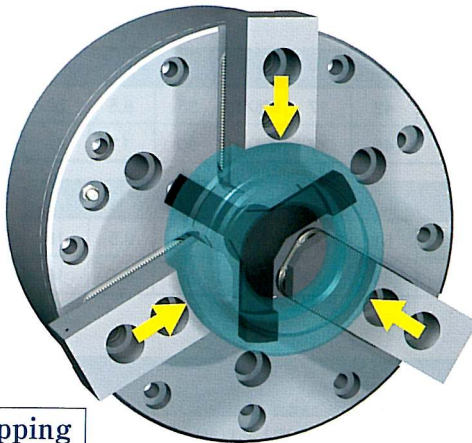
In case of a general chuck, because jaws protrude in Z-axis direction, Z-axis interferes with work. Also, the chuck is difficult to grip the narrow portion of a work.



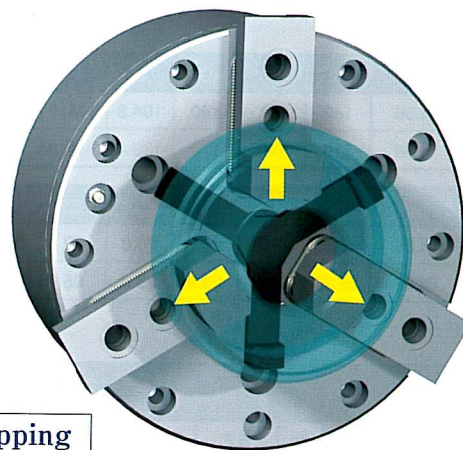
In case of DL chuck, since jaws do not protrude in Z-axis direction, Z-axis does not interfere with work and the loader can approach chuck. As a result, the chuck can grip the narrow portion of a work.

Merit 3 → **A chuck enables gripping I.D, O.D of works.**

Note) When changing I.D gripping and O.D gripping, it is necessary to remove the front cover and turn master jaws 180°.



O.D gripping



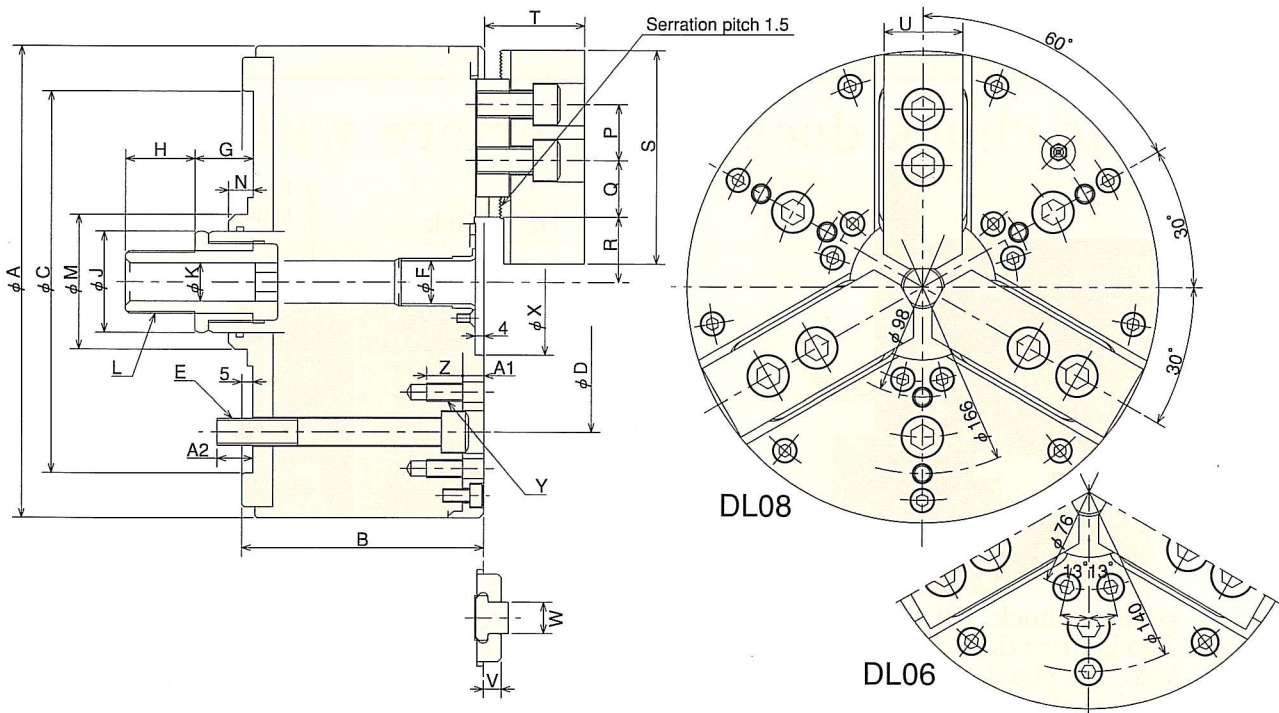
I.D gripping

Merit 4 → **Dust-proof · grease-enclosed structure.**

It can be used for an automation line, and also, work seating can be checked. Since the chuck has high durability due to dust-proof · grease-enclosed structure.

Merit 5 → **Serration jaws used.**

It is easy to change jaws and it makes cost effectiveness to customers because the serration jaws are applied to the chuck. It is also the best for limited production of diversified products, because a customer can machine and form the soft jaws by itself.



Model	A	B	C	D	E	F	G _(max.)	G _(min.)	H	J	K	L	M	N	P
DL06	169	88	140	104.8	3-M10	19	33.5	23	31	42	17	M26X1.5	55	8.5	20
DL08	210	108	170	133.4	3-M12	19	39.5	26	31	45	17	M28X1.5	60	11	25

Model	Q _(max.)	Q _(min.)	R _(max.)	R _(min.)	S	T	U	V	W	X	Y	Z	A1	A2
DL06	21.25	13.75	23.6	20.8	72	38.5	31	7.3	12	51	3×5-M6	12	9.5	16
DL08	25.25	16.25	28.9	25.3	95	45	35	7.8	14	65	3×2-M8	16	9.5	16

Model	Gripping range mm		Jaw Stroke diameter (mm)	Plunger Stroke (mm)	Max. Draw Bar Pull Force kN (kgf)	Max. Gripping Force kN (kgf)	Max. Speed (min ⁻¹)	Net Weight with Soft top jaws (kg)	Moment of inertia (kg·m ²)	Matching Cylinder	Max. pressure MPa (kgf/cm ²)	Min. pressure MPa (kgf/cm ²)	Matching Soft top jaw
	Max.	Min.											
DL06	169	20	5.6	10.5	22 (2243)	57 (5812)	6000	16	0.045	Y1020R	3.1 (31)	0.8 (8)	SB06B1
DL08	210	20	7.2	13.5	31 (3161)	84 (8566)	5000	30	0.135	Y1225R	3.0 (30)	0.8 (8)	SB08B1

※Specifications and appearance may be changed without a prior notice for improvement.

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Kitagawa Home Page

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