

HS Standard 3-Jaw High-Speed Open Center Chuck



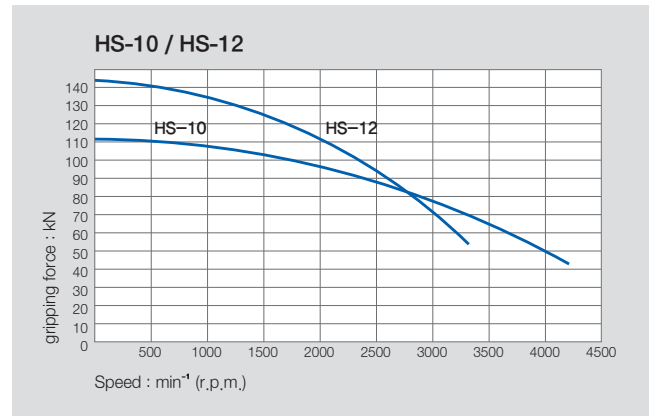
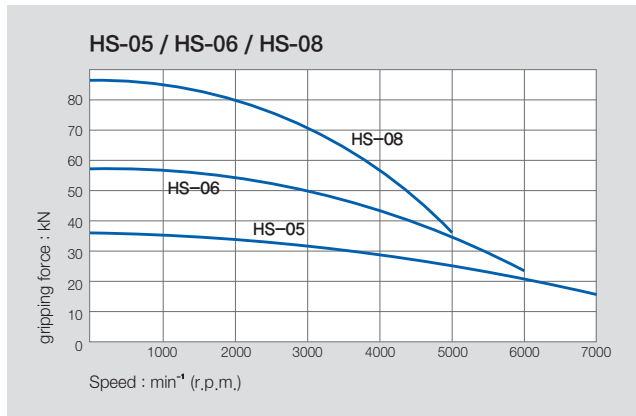
Application / Benefits

For work requiring a through hole

Technical features

Wedge hook style chuck with high gripping force

ACTUAL GRIPPING FORCE DIAGRAM

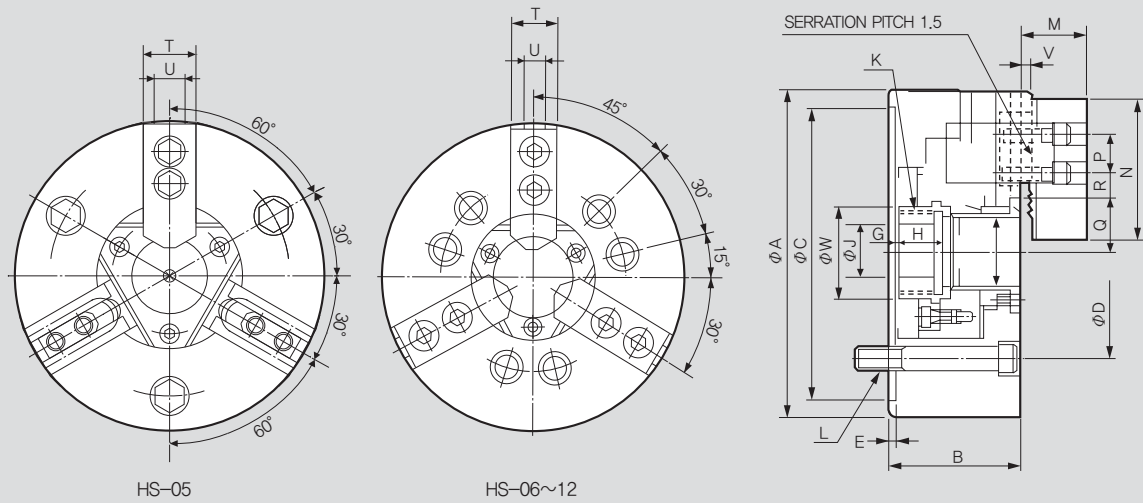


SPECIFICATIONS

| | HS-05 | HS-06 | HS-08 | HS-10 | HS-12 |
|---|------------|---------------------|---------------------|---------------------|-------------|
| Thru Hole Dia. [mm] | 33 | 46 | 52 | 77 | 91 |
| Grip Dia. Max [mm] | 135 | 169 | 210 | 254 | 304 |
| Grip Dia. Min [mm] | 12 | 15 | 13 | 31 | 34 |
| Jaw Stroke Dia. [mm] | 5.4 | 5.5 | 7.4 | 8.8 | 10.6 |
| Plunger Stroke [mm] | 10 | 12 | 16 | 19 | 23 |
| Permissible Input Force [kN(kgf)] | 17.5(1784) | 22(2243) | 34.8(3549) | 43(4385) | 55(5608) |
| Max. Static Gripping Force [kN(kgf)] | 36(3671) | 57(5812) | 86(8769) | 111(11319) | 144(14686) |
| Max. r.p.m. [min ⁻¹] | 7000 | 6000 | 5000 | 4200 | 3300 |
| Weight [kg] | 6.7 | 11.9 | 22.3 | 34.5 | 55.3 |
| Moment of inertia [N · m ² (kg · m ²)] | 0.69(0.07) | 2.26(0.23) | 6.67(0.68) | 12.36(1.26) | 28.93(2.95) |
| Operating Cylinder | SH-10036 | SH-13046 (SYH-1246) | SH-15052 (SYH-1552) | SH-18077 (SYH-1877) | SYH2091 |
| Max. Hydraulic Pressure [MPa(kgf/cm ²)] | 2.9(30) | 2.8(28.6) | 2.65(27) | 2.7(27.5) | 2.7(27.5) |
| Operating Hard Jaw | HB04N1 | HB06A1 | HB08A1 | HB10A1 | HB12N1 |
| KITAGAWA® Model | B-205 | B-206 | B-208 | B-210 | B-212 |

※ Specifications are subject to change without notice.

※ Samchully Machinery Co., Ltd. is no longer an OEM manufacturer for Kitagawa® Iron Works Co., Ltd.



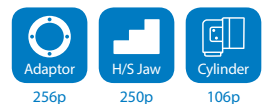
※ It is recommended to grease chucks at least twice a day in order to maximize longevity.

DIMENSIONS

| | HS-05 | HS-06 | HS-08 | HS-10 | HS-12 |
|--------------|----------|----------|-----------|-----------|-----------|
| ΦA | 135 | 169 | 210 | 254 | 304 |
| B | 60 | 81 | 91 | 100 | 110 |
| $\Phi C(H6)$ | 110 | 140 | 170 | 220 | 220 |
| ΦD | 82.6 | 104.8 | 133.4 | 171.4 | 171.4 |
| E | 4 | 5 | 5 | 5 | 6 |
| ΦF | 33 | 46 | 52 | 77 | 91 |
| G max. | 1 | 11 | 14.5 | 8.5 | 8 |
| G min. | -9 | -1 | -1.5 | -10.5 | -15 |
| H | 20 | 19 | 20.5 | 25 | 28 |
| ΦJ | 12 | 20 | 30 | 45 | 50 |
| K max. | M40x1.5 | M55x2.0 | M60x2.0 | M85x2.0 | M100x2.0 |
| L | 3-M10x60 | 6-M10x95 | 6-M12x105 | 6-M16x120 | 6-M16x130 |
| M | 26 | 29 | 39 | 43 | 50.5 |
| N | 54 | 72 | 95 | 110 | 111 |
| P | 14 | 20 | 25 | 30 | 30 |
| Q max. | 26.5 | 32 | 38.7 | 51 | 61.3 |
| Q min. | 23.8 | 29.25 | 35 | 46.6 | 56 |
| R max. | 19.75 | 22.75 | 29.75 | 33.75 | 45.75 |
| R min. | 7.75 | 9.25 | 14.75 | 14.25 | 15.75 |
| T | 23 | 31 | 35 | 40 | 49 |
| U | 10 | 12 | 14 | 16 | 21 |
| V | 2 | 2 | 2 | 2 | 2 |
| ΦW | 45 | 60 | 66 | 94 | 108 |

※ Blank and machined draw-nuts are available.

RELATED PRODUCT



HS-A 3-Jaw High-Speed Open Center Chuck with Adaptor (135mm - 210mm)



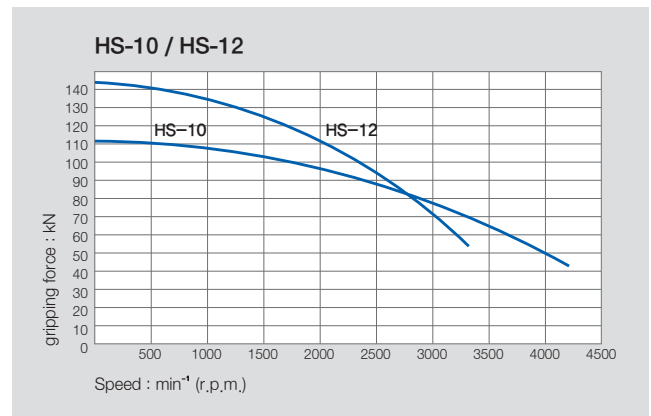
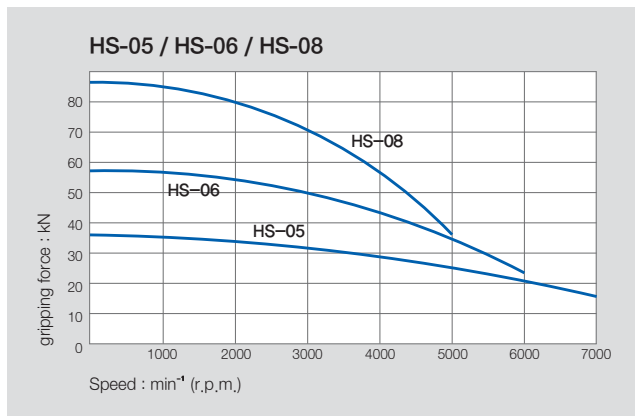
Application / Benefits

For work requiring a through hole

Technical features

Wedge hook style chuck with high gripping force

ACTUAL GRIPPING FORCE DIAGRAM



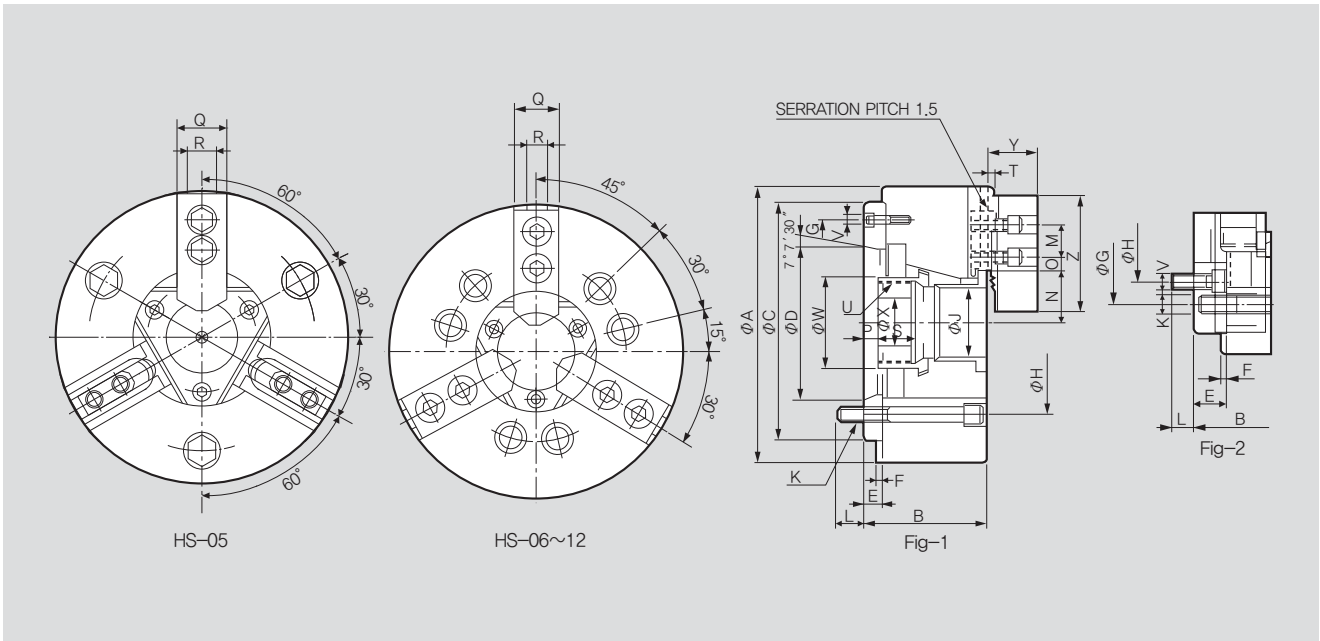
SPECIFICATIONS

| | HS-05A05 | HS-06A05 | HS-08A06 |
|---|-------------|---------------------|---------------------|
| Spindle Nose | A2-5 | A2-5 | A2-6 |
| Thru Hole Dia. [mm] | 33 | 46 | 52 |
| Grip Dia. Max [mm] | 135 | 169 | 210 |
| Grip Dia. Min [mm] | 12 | 15 | 13 |
| Jaw Stroke Dia. [mm] | 5.4 | 5.5 | 7.4 |
| Plunger Stroke [mm] | 10 | 12 | 16 |
| Max. Permissible Input Force [kN(kgf)] | 17.5(1784) | 22(2243) | 34.8(3549) |
| Max. Static Gripping Force [kN(kgf)] | 36(3671) | 57(5812) | 86(8769) |
| Max. r.p.m. [min ⁻¹] | 7000 | 6000 | 5000 |
| Weight [kg] | 7.5 | 13.7 | 23.6 |
| Moment of inertia [N · m ² (kg · m ²)] | 0.687(0.07) | 2.45(0.250) | 6.9(0.71) |
| Operating Cylinder | SYH-1036 | SH-13046 (SYH-1246) | SH-15052 (SYH-1552) |
| Max. Hydraulic Pressure [MPa(kgf/cm ²)] | 3.43(35.0) | 2.8(28.6) | 2.65(27) |
| Operating Hard Jaw | HB04N1 | HB06A1 | HB08A1 |
| KITAGAWA® Model | B-205 | B-206A5 | B-208A6 |

※ Specifications are subject to change without notice.

※ HS-10A06 and HS-10A08 are available with 75mm and 77mm thru holes.

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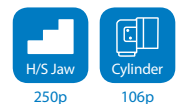
※ It is recommended to grease chucks at least twice a day in order to maximize longevity.

DIMENSIONS

| | HS-05A05 | HS-06A05 | HS-08A06 |
|--------|----------|----------|-----------|
| ΦA | 135 | 169 | 210 |
| B | 72 | 91 | 103 |
| ΦC(H6) | 110 | 140 | 170 |
| ΦD | 82.56 | 82.563 | 106.375 |
| E | 16 | 15 | 17 |
| F | 4 | 5 | 5 |
| ΦG | 104.8 | 104.8 | 133.4 |
| ΦH | 104.8 | 104.8 | 133.4 |
| ΦJ | 33 | 46 | 52 |
| K | 3-M10x75 | 6-M10x95 | 6-M12x105 |
| L | 14 | 16 | 18 |
| M | 14 | 20 | 25 |
| N max. | 26.5 | 32 | 38.7 |
| N min. | 23.8 | 29.25 | 35 |
| O max. | 19.75 | 22.75 | 29.75 |
| O min. | 7.75 | 9.25 | 14.75 |
| P max. | 17 | 26 | 31.5 |
| P min. | 7 | 14 | 15.5 |
| Q | 23 | 31 | 35 |
| R | 10 | 12 | 14 |
| S | 20 | 19 | 20.5 |
| T | 2 | 2 | 2 |
| U max. | M40x1.5 | M55x2 | M60x2 |
| V | 3xM6 | 3xM6 | 6xM6 |
| ΦW | 47 | 60 | 66 |
| ΦX | - | 20 | 30 |
| Y | 26 | 29 | 39 |
| Z | 54 | 72 | 95 |

※ Blank and machined draw-nuts are available.
※ Refer to Fig-2 for HS-10A06, HS-12A06.

RELATED PRODUCT



HS-A 3-Jaw High-Speed Open Center Chuck with Adaptor (254mm - 304mm)



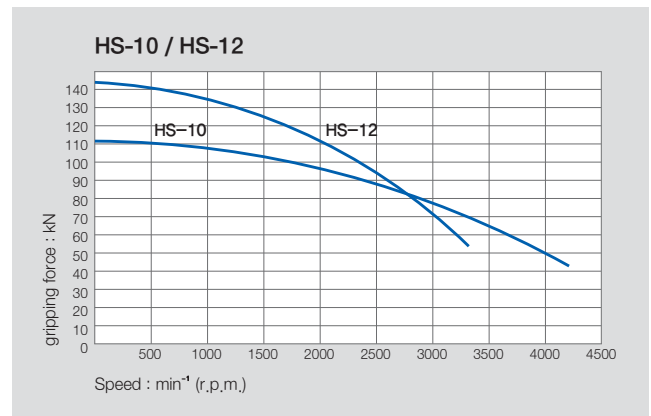
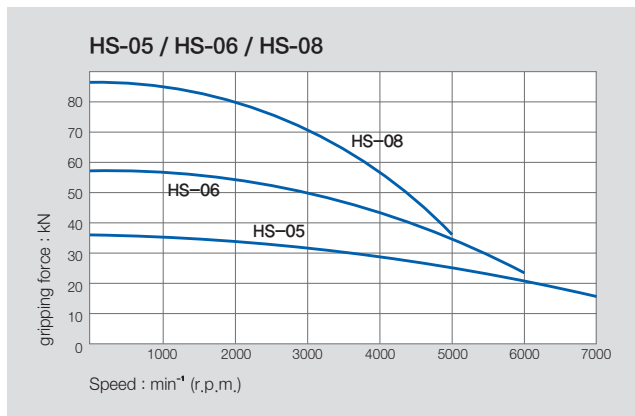
Application / Benefits

For work requiring a through hole

Technical features

Wedge hook style chuck with high gripping force

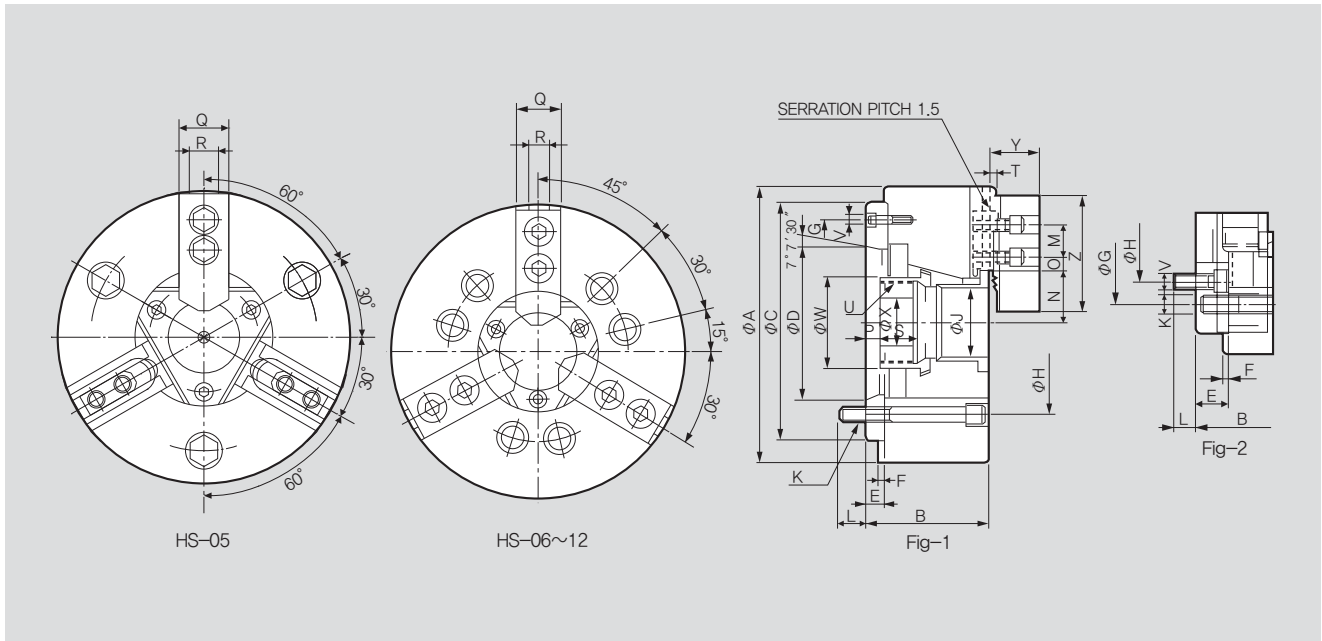
ACTUAL GRIPPING FORCE DIAGRAM



SPECIFICATIONS

| | HS-10A06 | HS-10A08 | HS-12A06 | HS-12A08 |
|---|---------------------|----------------------|------------|------------|
| Spindle Nose | A2-6 | A2-8 | A2-6 | A2-8 |
| Thru Hole Dia. [mm] | 77 | 77 | 91 | 91 |
| Grip Dia. Max [mm] | 254 | 254 | 304 | 304 |
| Grip Dia. Min [mm] | 31 | 34 | 42 | 50 |
| Jaw Stroke Dia. [mm] | 8.8 | 8.8 | 10.6 | 10.6 |
| Plunger Stroke [mm] | 19 | 19 | 23 | 23 |
| Max. Permissible Input Force [kN(kgf)] | 43(4385) | 43(4385) | 55(5608) | 55(5608) |
| Max. Static Gripping Force [kN(kgf)] | 111(11319) | 111(11319) | 144(14684) | 144(14684) |
| Max. r.p.m. [min ⁻¹] | 4200 | 4200 | 3300 | 3300 |
| Weight [kg] | 41.5 | 40 | 67 | 64 |
| Moment of inertia [N · m ² (kg · m ²)] | 12.75(1.3) | 12.65(1.29) | 30.6(3.12) | 30.0(3.06) |
| Operating Cylinder | SH-18077 (SYH-1877) | SYH-18077 (SYH-1877) | SYH-2091 | SYH-2091 |
| Max. Hydraulic Pressure [MPa(kgf/cm ²)] | 2.7(27.5) | 2.7(27.5) | 2.7(27.5) | 2.7(27.5) |
| Operating Hard Jaw | HB10A1 | HB10A1 | HB12N1 | HB12N1 |
| KITAGAWA® Model | B-210A6 | B-210A8 | B-212A6 | B-212A8 |

- ※ Specifications are subject to change without notice.
- ※ HS-10A06 and HS-10A08 are available with 75mm and 77mm thru holes.
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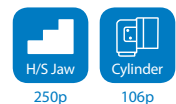
※ It is recommended to grease chucks at least twice a day in order to maximize longevity.

DIMENSIONS

| | HS-10A06 | HS-10A08 | HS-12A06 | HS-12A08 |
|--------------|-----------|-----------|-----------|-----------|
| ΦA | 254 | 254 | 304 | 304 |
| B | 120 | 113 | 129 | 122 |
| $\Phi C(H6)$ | 220 | 220 | 220 | 220 |
| ΦD | 106.375 | 139.719 | 106.375 | 139.719 |
| E | 25 | 18 | 25 | 18 |
| F | 5 | 5 | 6 | 6 |
| ΦG | 133.4 | 171.4 | 133.4 | 190 |
| ΦH | 171.4 | 171.4 | 171.4 | 171.4 |
| ΦJ | 77 | 77 | 91 | 91 |
| K | 6-M16x100 | 6-M16x120 | 6-M16x110 | 6-M16x130 |
| L | 18.5 | 24 | 18.5 | 25 |
| M | 30 | 30 | 30 | 30 |
| N max. | 51 | 51 | 61.3 | 61.3 |
| N min. | 46.6 | 46.6 | 56 | 56 |
| O max. | 33.75 | 33.75 | 45.75 | 45.75 |
| O min. | 14.25 | 14.25 | 15.75 | 15.75 |
| P max. | 33.5 | 26.5 | 33 | 26 |
| P min. | 14.5 | 7.5 | 10 | 3 |
| Q | 40 | 40 | 49 | 49 |
| R | 16 | 16 | 21 | 21 |
| S | 25 | 25 | 28 | 28 |
| T | 2 | 2 | 2 | 2 |
| U max. | M75x2 | M85x2 | M90x2 | M100x2 |
| V | 6xM12 | 6xM8 | 6xM12 | 6xM8 |
| ΦW | 94 | 94 | 108 | 108 |
| ΦX | 45 | 45 | 50 | 50 |
| Y | 43 | 43 | 50.5 | 50.5 |
| Z | 110 | 110 | 111 | 111 |

※ Blank and machined draw-nuts are available.
※ Refer to Fig-2 for HS-10A06, HS-12A06.

RELATED PRODUCT



MH Mega Bore 3-Jaw High-Speed Open Center Chuck



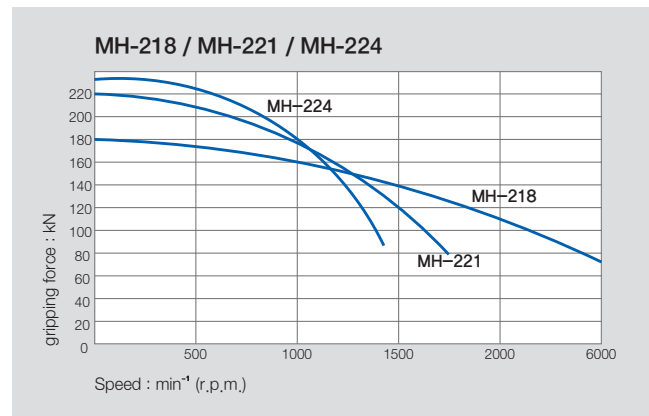
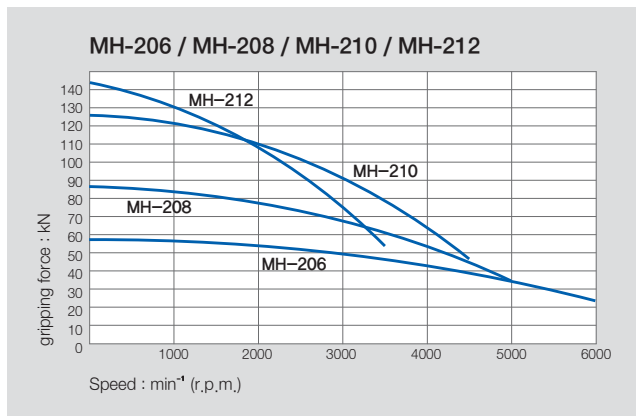
Application / Benefits

For work requiring a large through-hole

Technical features

Wedge hook style chuck with high gripping force

ACTUAL GRIPPING FORCE DIAGRAM

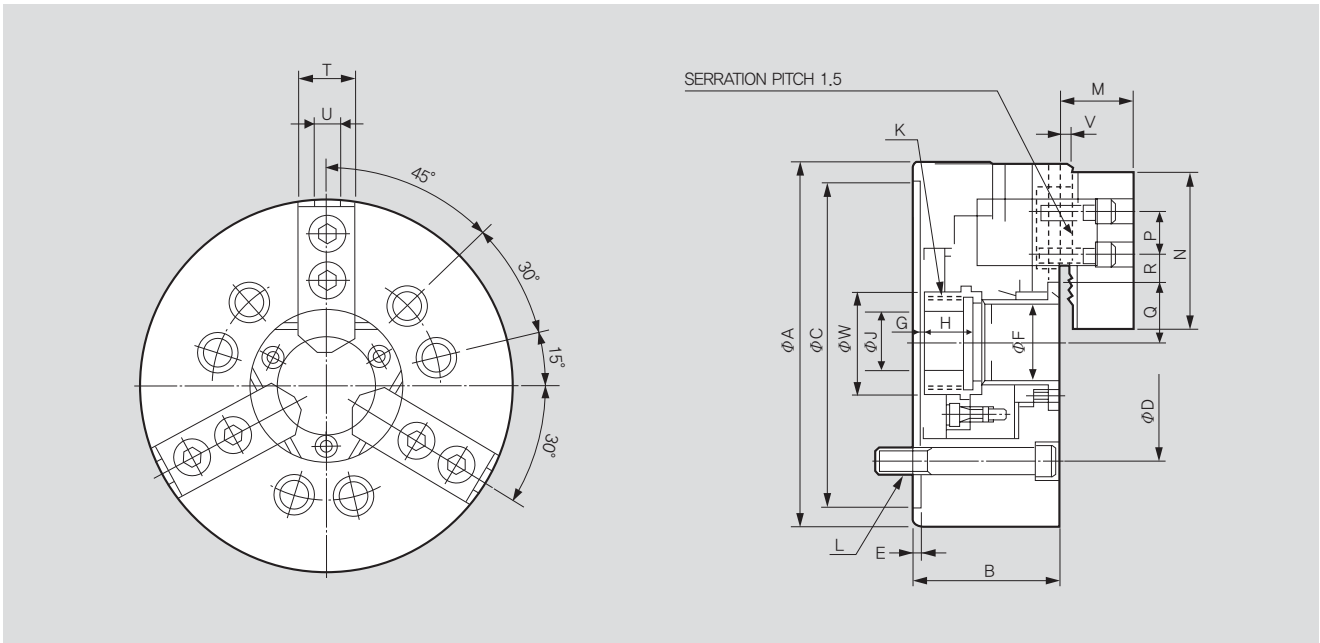


SPECIFICATIONS

| | MH-206 | MH-208 | MH-210 | MH-212 | MH-218 | MH-221 | MH-224 |
|---|------------------------|------------------------|--------------|-------------|-------------|-------------|------------|
| Thru Hole Dia. [mm] | 52 | 66 | 82 | 103 | 166.5 | 166.5 | 190 |
| Grip Dia. Max [mm] | 175 | 210 | 254 | 315 | 457 | 530 | 610 |
| Grip Dia. Min. [mm] | 16.5 | 23 | 30 | 54 | 73 | 105 | 120 |
| Jaw Stroke Dia. [mm] | 6.4 | 7.4 | 8.8 | 10.6 | 11.5 | 10.6 | 10.6 |
| Plunger Stroke [mm] | 15 | 17.5 | 19 | 23 | 25 | 23 | 23 |
| Max. Permissible Input Force [kN(kgf)] | 24.7(2551) | 36.4(3596) | 49(4976) | 55(5608) | 71(7240) | 90(9177) | 90(9177) |
| Max. Static Gripping Force [kN(kgf)] | 57.3(5847) | 87(8872) | 126.6(12848) | 144(14686) | 180(18355) | 220(22460) | 234(23861) |
| Max. r.p.m. [min ⁻¹] | 6000 | 5000 | 4500 | 3000 | 2000 | 1700 | 1400 |
| Weight [kg] | 11.9 | 23 | 32 | 55.3 | 170 | 228 | 293 |
| Moment of inertia [N · m ² (kg · m ²)] | 2.26(0.23) | 5.6(0.57) | 12.37(1.26) | 28.93(2.95) | 174.6(17.8) | 342.1(34.7) | 651(66.4) |
| Operating Cylinder | SH-15052 (SYH-1552) | SH-17068 (SYH-1768) | SH-19082 | SH-21010 | SYHL-2816 | SYHL-2816 | SHL-39024 |
| Max. Hydraulic Pressure [MPa(kgf/cm ²)] | 1.78(18.1) | 2.34(23.9) | 2.74(28) | 2.65(27.2) | 3.07(32) | 2.86(29.1) | 1.57(16.1) |
| Operating Hard Jaw | HB06A1 | HB08A1 | HB10A1 | HB12N1 | HB15A1 | HB18B2 | HB18B2 |

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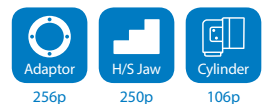
※ It is recommended to grease chucks at least twice a day in order to maximize longevity.

DIMENSIONS

| | MH-206 | MH-208 | MH-210 | MH-212 | MH-218 | MH-221 | MH-224 |
|--------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|
| ΦA | 175 | 210 | 254 | 315 | 457 | 530 | 610 |
| B | 81 | 91 | 100 | 110 | 135 | 140 | 149 |
| $\Phi C(H6)$ | 140 | 170 | 220 | 300 | 380 | 380 | 380 |
| ΦD | 104.8 | 133.4 | 171.4 | 235 | 300.2 | 330.2 | 330.2 |
| E | 5 | 5 | 5 | 6 | 6 | 6 | 6 |
| ΦF | 52 | 66 | 82 | 103 | 166.5 | 166.5 | 190 |
| G max. | 14 | 7.5 | 8.5 | 8 | 8 | 11 | 20 |
| G min. | -1 | -10 | -10.5 | -15 | -23 | -12 | -3 |
| H | 17.5 | 27 | 25 | 28 | 50 | 39 | 40.5 |
| ΦJ | 20 | 30 | 52 | 82.5 | 107 | 80 | 80 |
| K max. | M60x2.0 | M75x2.0 | M90x2.0 | M116x2.0 | M175x3.0 | M180x3.0 | M200x3.0 |
| L | 3-M10x95 | 6-M12x115 | 6-M16x120 | 6-M20x130 | 6-M20x130 | 6-M22x140 | 6-M22x150 |
| M | 33 | 39 | 43 | 51 | 69 | 73 | 73 |
| N | 72 | 95 | 110 | 111 | 165 | 180 | 180 |
| P | 20 | 25 | 30 | 30 | 50 | 60 | 60 |
| Q max. | 38 | 45.7 | 54.5 | 67.3 | 102 | 111.75 | 119.5 |
| Q min. | 34.8 | 42 | 50.1 | 62 | 96.25 | 106.5 | 114.2 |
| R max. | 21.75 | 23.75 | 32.25 | 45.75 | 58.25 | 72.5 | 105.5 |
| R min. | 10.25 | 11.75 | 14.25 | 15.75 | 20.25 | 21.5 | 21.5 |
| T | 31 | 35 | 40 | 49 | 69 | 65 | 65 |
| U | 12 | 14 | 16 | 21 | 22 | 25 | 25 |
| V | 2 | 2 | 2 | 2 | 5 | 5 | 5 |
| ΦW | 65 | 80 | 101 | 124 | 186 | 197 | 210 |

※ Blank and machined draw-nuts are available.

RELATED PRODUCT



HCH 3-Jaw Open Center Chuck (110mm - 450mm)



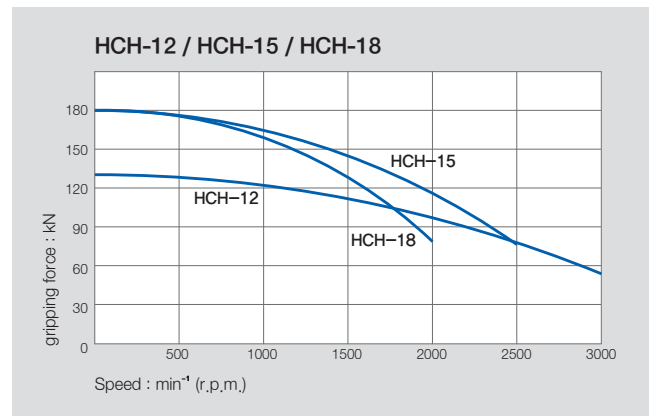
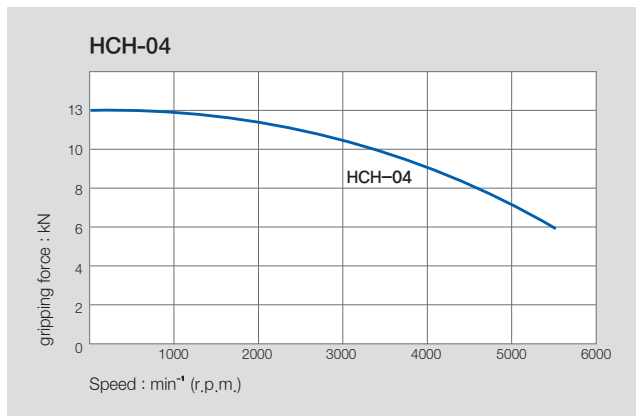
Application / Benefits

For work requiring a through-hole

Technical features

Wedge hook style chuck with high gripping force

ACTUAL GRIPPING FORCE DIAGRAM



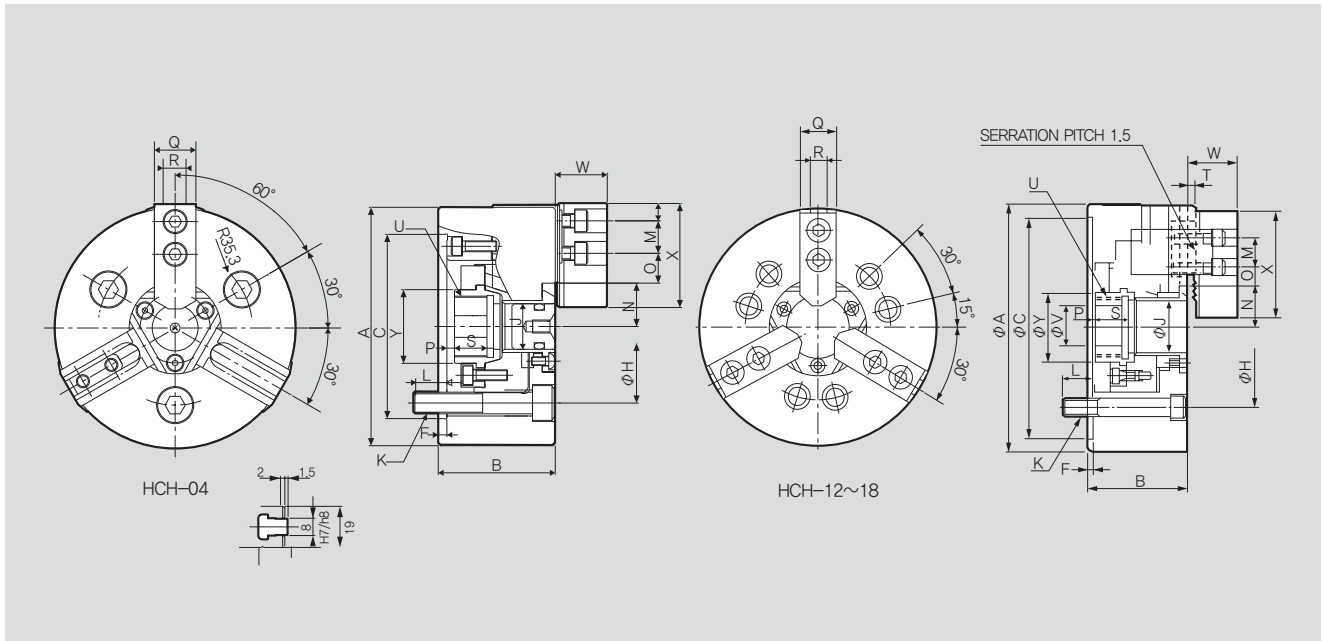
※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

SPECIFICATIONS

| | HCH-04 | HCH-12 | HCH-15 | HCH-18 |
|---|------------|-------------|-------------|-------------|
| Thru Hole Dia. [mm] | 21 | 78 | 117.5 | 117.5 |
| Grip Dia. Max [mm] | 110 | 304 | 381 | 450 |
| Grip Dia. Min [mm] | 5 | 19 | 30 | 30 |
| Jaw Stroke Dia. [mm] | 4.2 | 10.6 | 10.6 | 10.6 |
| Plunger Stroke [mm] | 6.5 | 23 | 23 | 23 |
| Max. Permissible Input Force [kN(kgf)] | 8(800) | 49(4997) | 71(7240) | 71(7240) |
| Max. Static Gripping Force [kN(kgf)] | 13(1350) | 129(13150) | 180(18355) | 180(18355) |
| Max. r.p.m. [min ⁻¹] | 5500 | 3000 | 2500 | 2000 |
| Weight [kg] | 3.7 | 63 | 120 | 164 |
| Moment of inertia [N · m ² (kg · m ²)] | 0.2(0.024) | 29.71(3.03) | 89.41(9.09) | 174.6(17.8) |
| Operating Cylinder | HYH-0933 | SH-19082 | SH-25011 | SH-25011 |
| Max. Hydraulic Pressure [MPa(kgf/cm ²)] | 2.2(22.4) | 2.3(23.5) | 2.3(23.5) | 2.3(23.5) |
| Operating Hard Jaw | HB04A1 | HB12B1 | HB15A1 | HB15A1 |
| KITAGAWA® Model | B-04 | B-12 | B-15 | B-18 |

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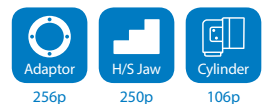
※ It is recommended to grease chucks at least twice a day in order to maximize longevity.

DIMENSIONS

| | HCH-04 | HCH-12 | HCH-15 | HCH-18 |
|--------|---------|---------|----------|----------|
| ΦA | 110 | 304 | 381 | 450 |
| B | 54 | 110 | 133 | 133 |
| ΦC(H6) | 85 | 220 | 300 | 380 |
| F | 4 | 6 | 6 | 6 |
| H | 70.6 | 171.4 | 235 | 235 |
| ΦJ | 21 | 78 | 117.5 | 117.5 |
| K | 3-M10 | 6-M16 | 6-M20 | 6-M20 |
| L | 15.5 | 23 | 50 | 30 |
| M | 15 | 30 | 43 | 43 |
| N max. | 20 | 58 | 82 | 82 |
| N min. | 17.9 | 52.7 | 76.7 | 76.7 |
| O max. | 14.25 | 48.75 | 43.75 | 78.25 |
| O min. | 6.75 | 12.75 | 18.25 | 18.25 |
| P max. | 3.5 | 8 | 11 | 11 |
| P min. | -3 | -15 | -12 | -12 |
| Q | 19 | 49 | 62 | 62 |
| R | 8 | 18 | 22 | 22 |
| S | 15 | 38 | 39 | 39 |
| T | 2 | 5 | 5 | 5 |
| U max. | M28x1.5 | M88x2.0 | M130x2.0 | M130x2.0 |
| ΦV | 10 | 50 | 60 | 60 |
| W | 24 | 54 | 70 | 70 |
| X | 48 | 129 | 165 | 165 |
| ΦY | 34 | 96 | 139 | 139 |

※ Blank and machined draw-nuts are available.

RELATED PRODUCT



HCH 3-Jaw Open Center Chuck (530mm-800mm)



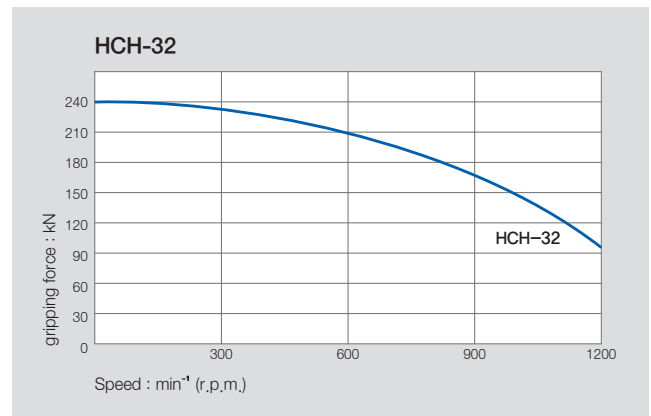
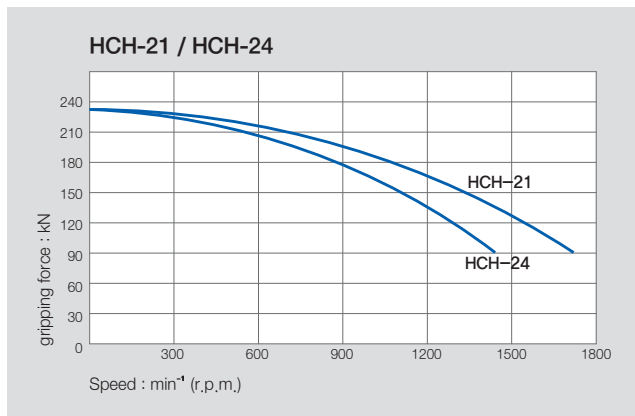
Application / Benefits

For work requiring a through-hole
Large diameter chucks offered for large work

Technical features

Wedge hook style chuck with high gripping force

ACTUAL GRIPPING FORCE DIAGRAM



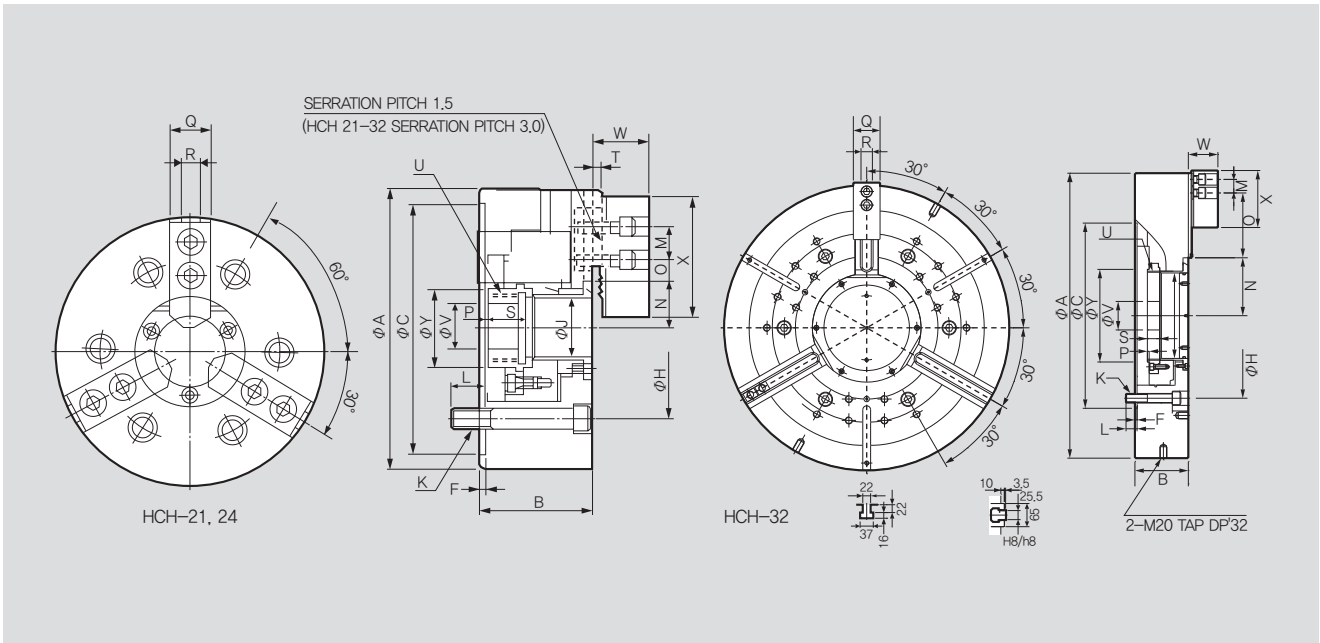
※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

SPECIFICATIONS

| | HCH-21 | HCH-24 | HCH-32 |
|---|-------------|-------------|------------|
| Thru Hole Dia. [mm] | 140 | 165 | 240 |
| Grip Dia. Max [mm] | 530 | 610 | 800 |
| Grip Dia. Min [mm] | 87 | 110 | 240 |
| Jaw Stroke Dia. [mm] | 10.6 | 10.6 | 18 |
| Plunger Stroke [mm] | 23 | 23 | 34 |
| Max. Permissible Input Force [kN(kgf)] | 90(9177) | 90(9177) | 100(10193) |
| Max. Static Gripping Force [kN(kgf)] | 234(23861) | 234(23861) | 240(24464) |
| Max. r.p.m. [min ⁻¹] | 1700 | 1400 | 1200 |
| Weight [kg] | 235 | 293 | 530 |
| Moment of inertia [N · m ² (kg · m ²)] | 351.1(35.8) | 651.2(66.4) | 598.4(61) |
| Operating Cylinder | SH-25011 | SYHL-2816 | SYHL-2816 |
| Max. Hydraulic Pressure [MPa(kgf/cm ²)] | 3.0(30.6) | 3.0(30.6) | 3.2(33.6) |
| Operating Hard Jaw | HB18B2 | HB18B2 | HB32B2 |
| KITAGAWA® Model | B-21 | B-24 | - |

※ Specifications are subject to change without notice.

※ Samcully Machinery Co., Ltd. is no longer an OEM manufacturer for Kitagawa® Iron Works Co., Ltd.



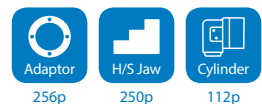
※ It is recommended to grease chucks at least twice a day in order to maximize longevity.

DIMENSIONS

| | HCH-21 | HCH-24 | HCH-32 |
|--------|----------|----------|----------|
| ΦA | 530 | 610 | 800 |
| B | 140 | 149 | 150 |
| ΦC(H6) | 380 | 380 | 520 |
| F | 6 | 6 | 6 |
| H | 330.2 | 330.2 | 463.6 |
| ΦJ | 140 | 165 | 240 |
| K | 6-M22 | 6-M22 | 6-M24 |
| L | 31 | 32 | 31 |
| M | 60 | 60 | 38 |
| N max. | 98.5 | 108 | 162.6 |
| N min. | 93.2 | 102.7 | 153.6 |
| O max. | 87.5 | 117.5 | 182 |
| O min. | 21.5 | 21.5 | 20 |
| P max. | 11 | 20 | 29 |
| P min. | -12 | -3 | -5 |
| Q | 65 | 65 | 75 |
| R | 25 | 25 | 25.5 |
| S | 39 | 40 | 34.5 |
| T | 5 | 5 | 10 |
| U max. | M155x3.0 | M175x3.0 | M250x3.0 |
| ΦV | 80 | 80 | 80 |
| W | 72 | 72 | 83 |
| X | 180 | 180 | 160 |
| ΦY | 170 | 187 | 260 |

※ Blank and machined draw-nuts are available.

RELATED PRODUCT



HCH-A 3-Jaw Open Center Chuck with adaptor (304mm - 381mm)



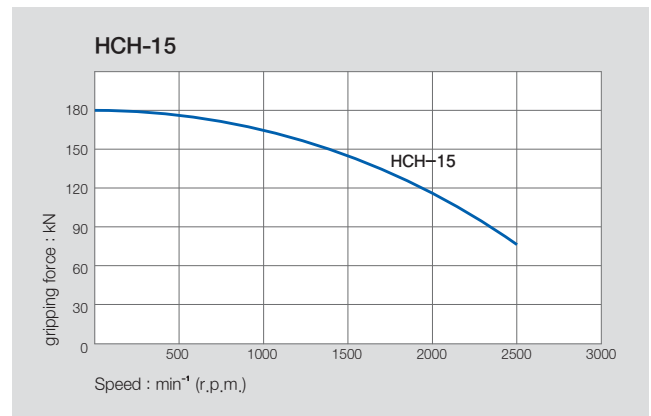
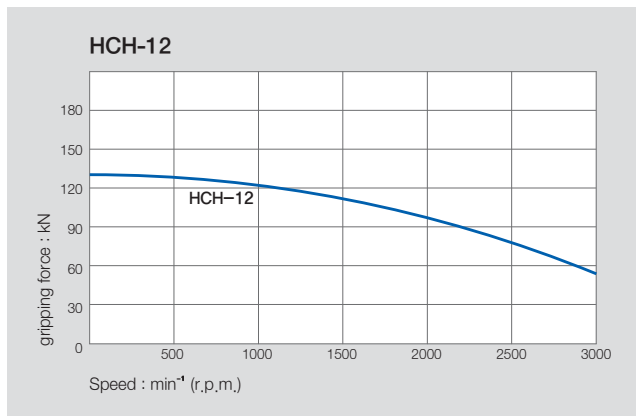
Application / Benefits

For work requiring a through-hole
Large diameter chucks offered for large work

Technical features

Wedge hook style chuck with high gripping force

ACTUAL GRIPPING FORCE DIAGRAM

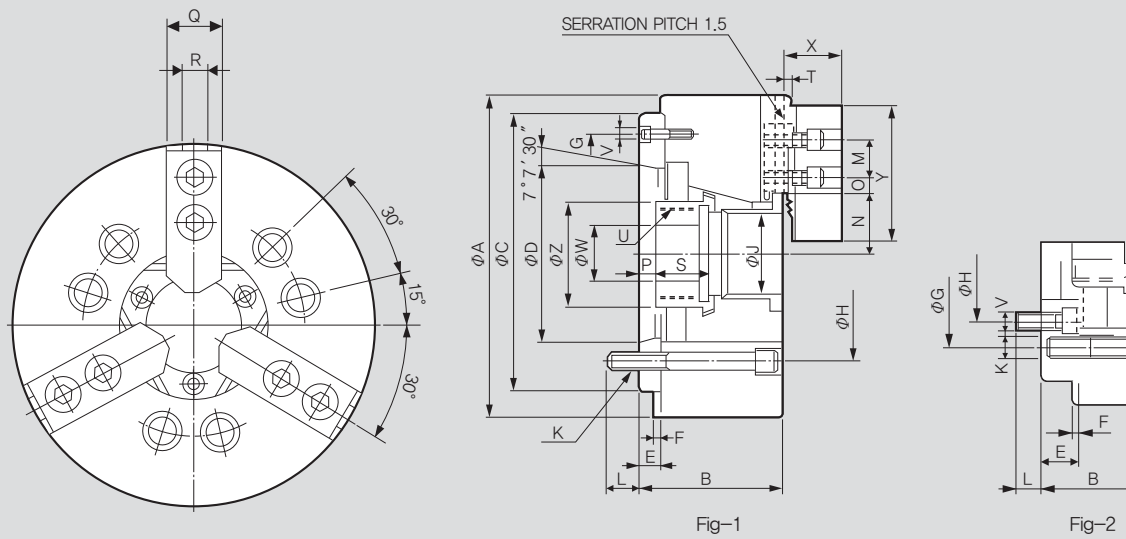


SPECIFICATIONS

| | HCH-12A06 | HCH-12A08 | HCH-15A08 | HCH-15A11 |
|--|-------------|-------------|-------------|-------------|
| Spindle Nose | A2-6 | A2-8 | A2-8 | A2-11 |
| Thru Hole Dia. [mm] | 78 | 78 | 117.5 | 117.5 |
| Grip Dia. Max [mm] | 304 | 304 | 381 | 381 |
| Grip Dia. Min [mm] | 19 | 19 | 30 | 30 |
| Jaw Stroke Dia. [mm] | 10.6 | 10.6 | 10.6 | 10.6 |
| Plunger Stroke [mm] | 23 | 23 | 23 | 23 |
| Max. Permissible Input Force [kN(kgf)] | 49(4997) | 49(4997) | 71(7240) | 71(7240) |
| Max. Static Gripping Force [kN(kgf)] | 129(13150) | 129(13150) | 180(18355) | 180(18355) |
| Max. r.p.m. [min⁻¹] | 3000 | 3000 | 2500 | 2500 |
| Weight [kg] | 69 | 66 | 134 | 127 |
| Moment of inertia [N · m²(kg · m²)] | 31.38(3.20) | 30.79(3.14) | 96.89(9.88) | 93.55(9.54) |
| Operating Cylinder | SYH-2091 | SYH-2091 | SH-25011 | SH-25011 |
| Max. Hydraulic Pressure [MPa(kgf/cm²)] | 2.3(23.5) | 2.3(23.5) | 2.3(23.5) | 2.3(23.5) |
| Operating Hard Jaw | HB12B1 | HB12B1 | HB15A1 | HB15A1 |
| KITAGAWA® Model | B-12A6 | B-12A8 | B-15A8 | B-15A11 |

※ Specifications are subject to change without notice.

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※ It is recommended to grease chucks at least twice a day in order to maximize longevity.

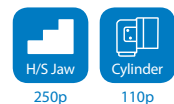
DIMENSIONS

| | HCH-12A06 | HCH-12A08 | HCH-15A08 | HCH-15A11 |
|--------|-----------|-----------|-----------|-----------|
| ΦA | 304 | 304 | 381 | 381 |
| B | 129 | 122 | 160 | 149 |
| ΦC(H6) | 220 | 220 | 300 | 300 |
| ΦD | 106.375 | 139.719 | 139.719 | 196.869 |
| E | 25 | 18 | 33 | 22 |
| F | 6 | 6 | 6 | 6 |
| ΦG | 171.4 | 190 | 235 | 260 |
| ΦH | 133.4 | 171.4 | 171.4 | 235 |
| ΦJ | 78 | 78 | 117.5 | 117.5 |
| K | 6-M16x110 | 6-M16x130 | 6-M20x130 | 6-M20x150 |
| L | 18.5 | 25 | 24 | 28 |
| M | 30 | 30 | 43 | 43 |
| N max. | 58 | 58 | 82 | 82 |
| N min. | 52.7 | 52.7 | 76.7 | 76.7 |
| O max. | 48.75 | 48.75 | 43.75 | 43.75 |
| O min. | 12.75 | 12.75 | 18.25 | 18.25 |
| P max. | 33 | 26 | 44 | 33 |
| P min. | 10 | 3 | 21 | 10 |
| Q | 49 | 49 | 62 | 62 |
| R | 18 | 18 | 22 | 22 |
| S | 38 | 38 | 39 | 39 |
| T | 5 | 5 | 5 | 5 |
| U max. | M88x2.0 | M88x2.0 | M130x2.0 | M130x2.0 |
| V | 6-M12 | 3-M8 | 6-M16 | 3-M10 |
| ΦW | 50 | 50 | 60 | 60 |
| X | 53.5 | 53.5 | 70 | 70 |
| Y | 129 | 129 | 165 | 165 |
| ΦZ | 96 | 96 | 139 | 139 |

※ Blank and machined draw-nuts are available.

※ Refer to Fig-2 for HCH-12A06, HCH-12A08.

RELATED PRODUCT



HCH-A 3-Jaw Open Center Chuck with adaptor (450mm - 610mm)



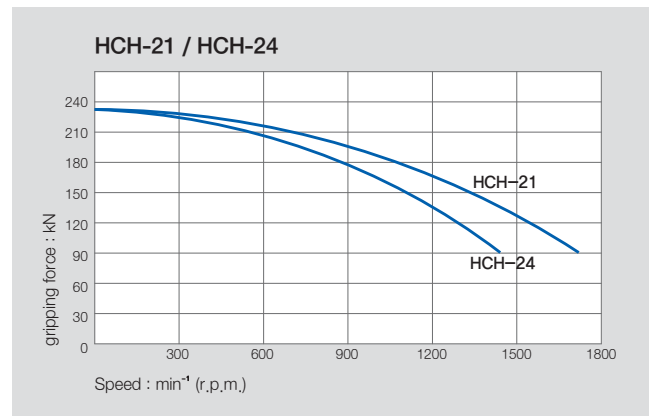
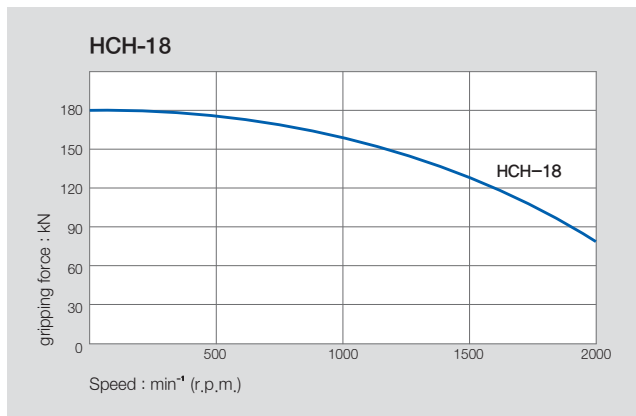
Application / Benefits

For work requiring a through-hole
Large diameter chucks offered for large work

Technical features

Wedge hook style chuck with high gripping force

ACTUAL GRIPPING FORCE DIAGRAM



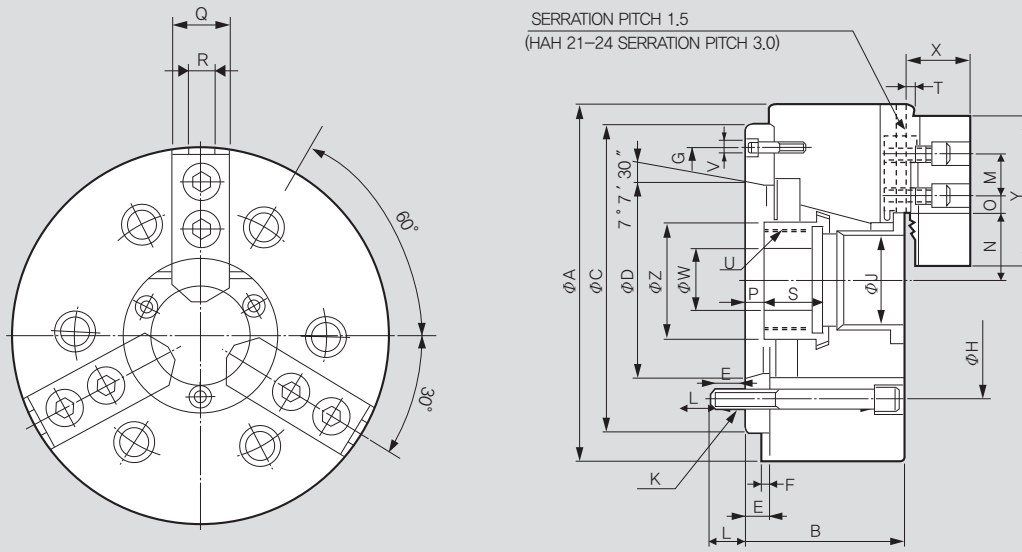
SPECIFICATIONS

| | HCH-18A11 | HCH-21A15 | HCH-24A15 |
|---|--------------|--------------|--------------|
| Spindle Nose | A2-11 | A2-15 | A2-15 |
| Thru Hole Dia. [mm] | 117.5 | 140 | 165 |
| Grip Dia. Max [mm] | 450 | 530 | 610 |
| Grip Dia. Min [mm] | 30 | 87 | 110 |
| Jaw Stroke Dia. [mm] | 10.6 | 10.6 | 10.6 |
| Plunger Stroke [mm] | 23 | 23 | 23 |
| Max. Permissible Input Force [kN(kgf)] | 71(7240) | 90(91770) | 90(9177) |
| Max. Static Gripping Force [kN(kgf)] | 180(18355) | 234(23861) | 234(23861) |
| Max. r.p.m. [min ⁻¹] | 2000 | 1700 | 1400 |
| Weight [kg] | 178 | 246 | 304 |
| Moment of inertia [N · m ² (kg · m ²)] | 187.30(19.1) | 362.83(37.0) | 660.94(67.4) |
| Operating Cylinder | SH-25011 | SH-25011 | SYHL-2816 |
| Max. Hydraulic Pressure [MPa(kgf/cm ²)] | 2.3(23.5) | 3.0(30.6) | 3.0(30.6) |
| Operating Hard Jaw | HB15A1 | HB18B2 | HB18B2 |
| KITAGAWA® Model | B-18A11 | B-21A15 | B-24A15 |

※ Specifications are subject to change without notice.

※ Samcully Machinery Co., Ltd. is no longer an OEM manufacturer for Kitagawa® Iron Works Co., Ltd.

Thru Hole Range : $\varnothing 117.5 \sim \varnothing 165$
Clamping Range : $\varnothing 30 \sim \varnothing 610$



※ It is recommended to grease chucks at least twice a day in order to maximize longevity.

DIMENSIONS

| | HCH-18A11 | HCH-21A15 | HCH-24A15 |
|--------|-----------|-----------|-----------|
| ΦA | 450 | 530 | 610 |
| B | 149 | 161 | 170 |
| ΦC(H6) | 380 | 380 | 380 |
| ΦD | 196.869 | 285.775 | 285.775 |
| E | 22 | 27 | 27 |
| F | 6 | 6 | 6 |
| ΦG | 320 | 330.2 | 330.2 |
| ΦH | 235 | 330.2 | 330.2 |
| ΦJ | 117.5 | 140 | 165 |
| K | 6-M20x150 | 6-M22x170 | 6-M22x180 |
| L | 28 | 34 | 35 |
| M | 43 | 60 | 60 |
| N max. | 82 | 98.5 | 108 |
| N min. | 76.7 | 93.2 | 102.7 |
| O max. | 78.28 | 87.5 | 117.5 |
| O min. | 18.25 | 21.5 | 21.5 |
| P max. | 33 | 38 | 47 |
| P min. | 10 | 15 | 24 |
| Q | 62 | 65 | 65 |
| R | 22 | 25 | 25 |
| S | 39 | 39 | 40 |
| T | 5 | 5 | 5 |
| U max. | M130x2.0 | M155x3.0 | M175x3.0 |
| V | 3-M10 | 3-M12 | 3-M12 |
| ΦW | 60 | 80 | 80 |
| X | 70 | 72 | 72 |
| Y | 165 | 180 | 180 |
| ΦZ | 139 | 170 | 187 |

※ Blank and machined draw-nuts are available.

※ HCH-21A15 and HCH24A15 are available with M22 or M24 mounting bolts.

RELATED PRODUCT

