



ROTARY CYLINDER

# 短寸中空回転油圧シリンダ

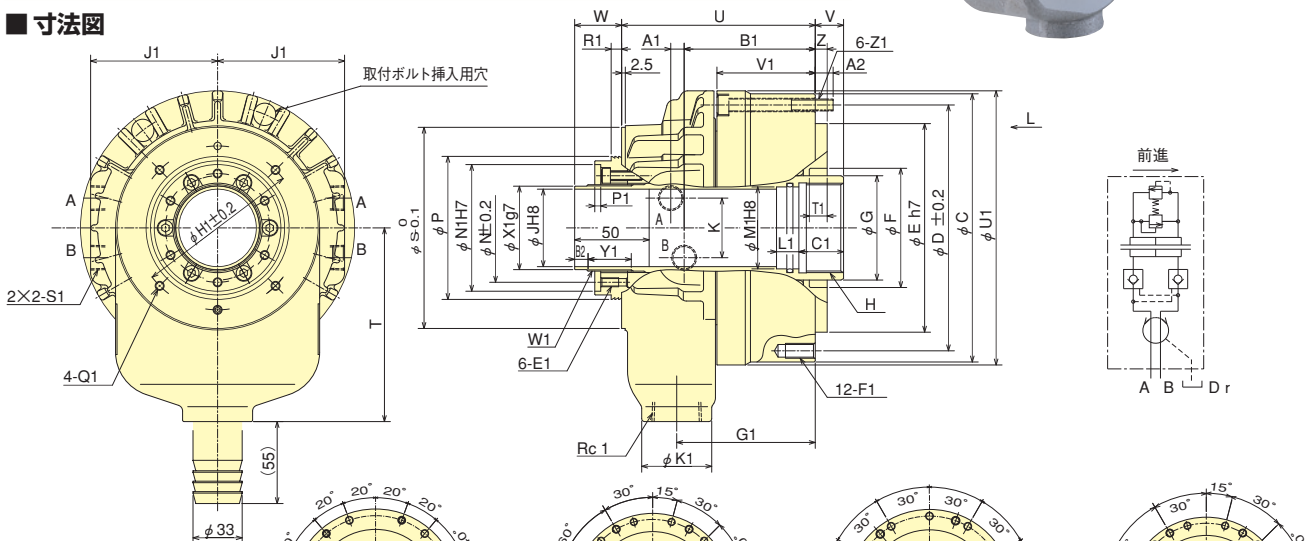
## SS series

### BB200,B-200シリーズに対応 旋盤の機能を十分に発揮させるコンパクト設計

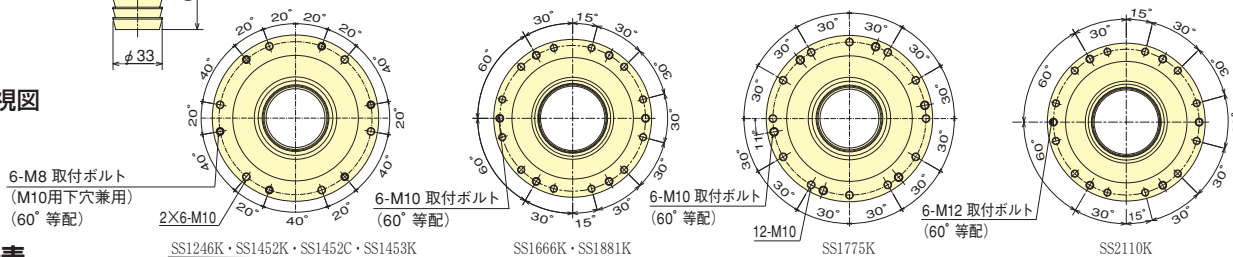
- 全長が従来型の2/3のコンパクトサイズに
  - 回転速度がさらにUP
  - 最高油圧力もさらにUP (1サイズ上のチャックにも対応可能)
  - クーラントコレクタや確認装置がオプションで選択可能
- ※オプションについてはP76を参照してください。  
\*CE対応品 (確認装置付のみ)



#### ■ 寸法図



#### ■ L矢視図



#### ■ 寸法表

型式	寸法																				
	C	D	E	F	G	H	J 貫通穴	K	N	P	S	T	U	V max.	V min.	W max.	W min.	Z	A1	B1	C1
SS1246K	162	147	130	75	65	M55×2	46	40	64	85	116	120	120	13	-3	45.0	29.0	8	8.5	79.5	25
SS1452K	180	165	140	80	70	M60×2	52	40	73	96	135	130	130	19	-3	53.5	31.5	8	9.0	88.0	30
SS1452C	180	165	140	80	70	M60×2	52	40	73	96	135	130	130	19	-3	47.0	25.0	8	9.0	88.0	30
SS1453K	180	165	140	80	70	M60×2	53	40	73	96	135	130	130	19	-3	53.5	31.5	8	9.0	88.0	30
SS1666K	207	190	168	95	85	M75×2	66	48	88	111	154	150	150	22	-3	58.0	33.0	8	13.0	99.5	35
SS1775K	212	195	160	105	95	M85×2	75	46	98	121	164	160	157	22	-3	57.0	32.0	8	17.5	99.0	35
SS1881K	222	205	168	110	100	M90×2	81	46	103	126	175	175	167	23	-2	58.0	33.0	8	17.0	106.0	35
SS2110K	260	240	200	135	125	M115×2	106	46	133	160	210	200	192	27	-3	64.0	34.0	8	20.0	120.5	35

型式	寸法																					
	E1 深さ	F1 深さ	G1	H1	J1	K1	L1	M1	N1	P1	Q1 深さ	R1	S1	T1	U1	V1	W1	X1	Y1	Z1	A2	B2
SS1246K	M6×10	M10×20	84	98	76	47	15	50	76	4	M5×6	6.5	Rc3/8	12	165	57.5	M52×1.5	50.0	29	M8	15	9
SS1452K	M6×12	M10×20	93	110	86	47	15	55	85	4	M6×6	7.0	Rc3/8	12	184	66.0	M58×1.5	56.0	30	M8	12	8
SS1452C	M6×9.5	M10×20	93	110	86	47	15	55	85	4	M6×6	9.5	Rc3/8	12	184	66.0	M58×1.5	56.0	29	M8	12	9
SS1453K	M6×12	M10×20	93	110	86	47	15	55	85	4	M6×6	7.0	Rc3/8	12	184	66.0	M58×1.5	56.0	30	M8	12	8
SS1666K	M6×12	M12×24	108	145	97	47	15	70	100	4	M6×10	16.5	Rc1/2	12	211	71.0	M74×1.5	71.5	36	M10	19	9
SS1775K	M6×12	M10×20	110	155	100	47	15	80	108	4	M6×10	14.0	Rc1/2	12	216	71.0	M84×2.0	81.0	33	M10	18	9
SS1881K	M6×12	M12×24	115	166	105	47	15	85	113	4	M6×10	16.5	Rc1/2	12	226	71.0	M89×2.0	86.0	38	M10	19	9
SS2110K	M6×12	M12×24	130	201	124	47	15	110	145	4	M6×10	16.0	Rc1/2	12	263	79.5	M118×2.0	115.0	45	M12	18	9

#### ■ 仕様表

※ピストン推力：最高使用油圧力時  
※ドレン量：油圧力3.0MPa、油温50℃の時

型式	仕様	ピストンストローク		ピストン表面積		ピストン推力		最高使用油圧力 MPa	許容最高回転速度 min <sup>-1</sup>	慣性モーメント kg·m <sup>2</sup>	質量 kg	ドレン量 ℓ/min
		mm	mm	押側 cm <sup>2</sup>	引側 cm <sup>2</sup>	押側 kN	引側 kN					
SS1246K		16	102.8	91.5	43.6	38.9	4.50	8000	0.017	8.0	3.0	
SS1452K		22	133.0	122.6	56.5	52.1	4.50	6500	0.031	13.0	3.9	
SS1452C		22	133.0	122.6	56.5	52.1	4.50	6500	0.031	13.0	3.9	
SS1453K		22	133.0	122.6	56.5	52.1	4.50	6500	0.031	13.0	3.9	
SS1666K		25	165.9	153.1	70.6	65.0	4.50	5600	0.065	19.0	4.0	
SS1775K		25	166.5	152.1	70.7	64.6	4.50	5500	0.061	18.5	4.2	
SS1881K		25	187.1	171.9	79.5	73.1	4.50	4800	0.087	24.0	4.3	
SS2110K		30	229.6	219.6	74.7	71.0	3.50	3500	0.197	37.0	6.0	



**ROTARY  
CYLINDER**

# Compact Hydraulic Cylinder with Large Through-Hole

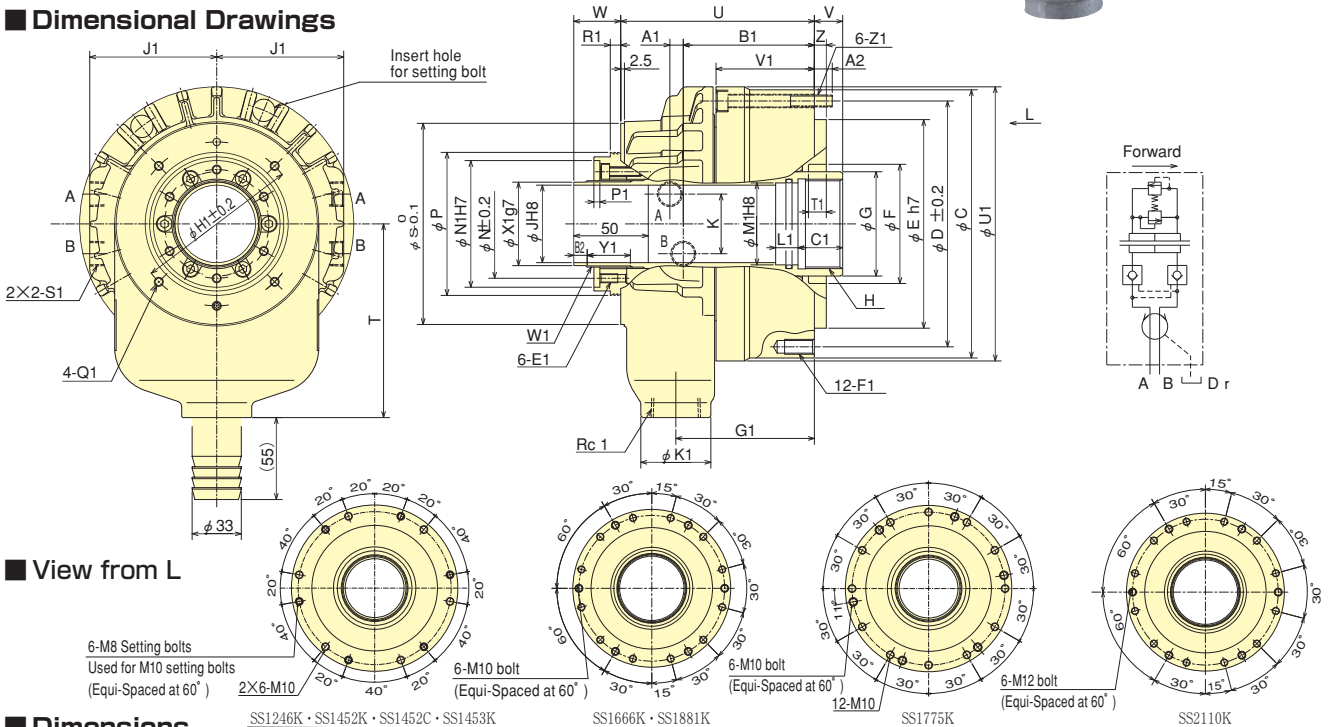
## SS series

**Accommodates BB200 and B-200 series**  
**The compact design maximises Lathe performance**

- Compact : 30% reduction in length of current S series
  - Speed Increased
  - Can operate one size larger chuck due to increased pull forces
  - Coolant collector and confirmation devices are available as an option
- \*Please refer to P76 about options.  
 \*CE correspondence (Only series with confirmation device)



### Dimensional Drawings



### View from L

6-M8 Setting bolts  
 Used for M10 setting bolts  
 (Equi-Spaced at 60°)

2X6-M10

6-M10 bolt  
 (Equi-Spaced at 60°)

6-M10 bolt  
 (Equi-Spaced at 60°)

6-M10 bolt  
 (Equi-Spaced at 60°)

12-M10

6-M12 bolt  
 (Equi-Spaced at 60°)

### Dimensions

Model	C	D	E	F	G	H	J Thru-Hole	K	N	P	S	T	U	V max.	V min.	W max.	W min.	Z	A1	B1	C1
SS1246K	162	147	130	75	65	M55×2	46	40	64	85	116	120	120	13	-3	45.0	29.0	8	8.5	79.5	25
SS1452K	180	165	140	80	70	M60×2	52	40	73	96	135	130	130	19	-3	53.5	31.5	8	9.0	88.0	30
SS1452C	180	165	140	80	70	M60×2	52	40	73	96	135	130	130	19	-3	47.0	25.0	8	9.0	88.0	30
SS1453K	180	165	140	80	70	M60×2	53	40	73	96	135	130	130	19	-3	53.5	31.5	8	9.0	88.0	30
SS1666K	207	190	168	95	85	M75×2	66	48	88	111	154	150	150	22	-3	58.0	33.0	8	13.0	99.5	35
SS1775K	212	195	160	105	95	M85×2	75	46	98	121	164	160	157	22	-3	57.0	32.0	8	17.5	99.0	35
SS1881K	222	205	168	110	100	M90×2	81	46	103	126	175	175	167	23	-2	58.0	33.0	8	17.0	106.0	35
SS2110K	260	240	200	135	125	M115×2	106	46	133	160	210	200	192	27	-3	64.0	34.0	8	20.0	120.5	35

Model	E1 depth	F1 depth	G1	H1	J1	K1	L1	M1	N1	P1	Q1 depth	R1	S1	T1	U1	V1	W1	X1	Y1	Z1	A2	B2
SS1246K	M6×10	M10×20	84	98	76	47	15	50	76	4	M5×6	6.5	Rc <sup>3</sup> / <sub>8</sub>	12	165	57.5	M52×1.5	50.0	29	M8	15	9
SS1452K	M6×12	M10×20	93	110	86	47	15	55	85	4	M6×6	7.0	Rc <sup>3</sup> / <sub>8</sub>	12	184	66.0	M58×1.5	56.0	30	M8	12	8
SS1452C	M6×9.5	M10×20	93	110	86	47	15	55	85	4	M6×6	9.5	Rc <sup>3</sup> / <sub>8</sub>	12	184	66.0	M58×1.5	56.0	29	M8	12	9
SS1453K	M6×12	M10×20	93	110	86	47	15	55	85	4	M6×6	7.0	Rc <sup>3</sup> / <sub>8</sub>	12	184	66.0	M58×1.5	56.0	30	M8	12	8
SS1666K	M6×12	M12×24	108	145	97	47	15	70	100	4	M6×10	16.5	Rc <sup>1</sup> / <sub>2</sub>	12	211	71.0	M74×1.5	71.5	36	M10	19	9
SS1775K	M6×12	M10×20	110	155	100	47	15	80	108	4	M6×10	14.0	Rc <sup>1</sup> / <sub>2</sub>	12	216	71.0	M84×2.0	81.0	33	M10	18	9
SS1881K	M6×12	M12×24	115	166	105	47	15	85	113	4	M6×10	16.5	Rc <sup>1</sup> / <sub>2</sub>	12	226	71.0	M89×2.0	86.0	38	M10	18	9
SS2110K	M6×12	M12×24	130	201	124	47	15	110	145	4	M6×10	16.0	Rc <sup>1</sup> / <sub>2</sub>	12	263	79.5	M118×2.0	115.0	45	M12	18	9

\*Piston thrust: at Max. Operation Pressure

\*Leakage: Pressure 3.0MPa and oil temperature 50°C

### Specifications

Model	Piston stroke mm	Piston Area Push Side cm <sup>2</sup>	Piston Area Pull Side cm <sup>2</sup>	Piston thrust Push Side kN	Piston thrust Pull Side kN	Max. Operation Pressure MPa	Max. Speed min <sup>-1</sup>	Moment of inertia kg·m <sup>2</sup>	Net Weight kg	Leakage l/min
SS1246K	16	102.8	91.5	43.6	38.9	4.50	8000	0.017	8.0	3.0
SS1452K	22	133.0	122.6	56.5	52.1	4.50	6500	0.031	13.0	3.9
SS1452C	22	133.0	122.6	56.5	52.1	4.50	6500	0.031	13.0	3.9
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SS2110K	30	229.6	219.6	74.7	71.0	3.50	3500	0.197	37.0	6.0

コンパクト  
Cylinder