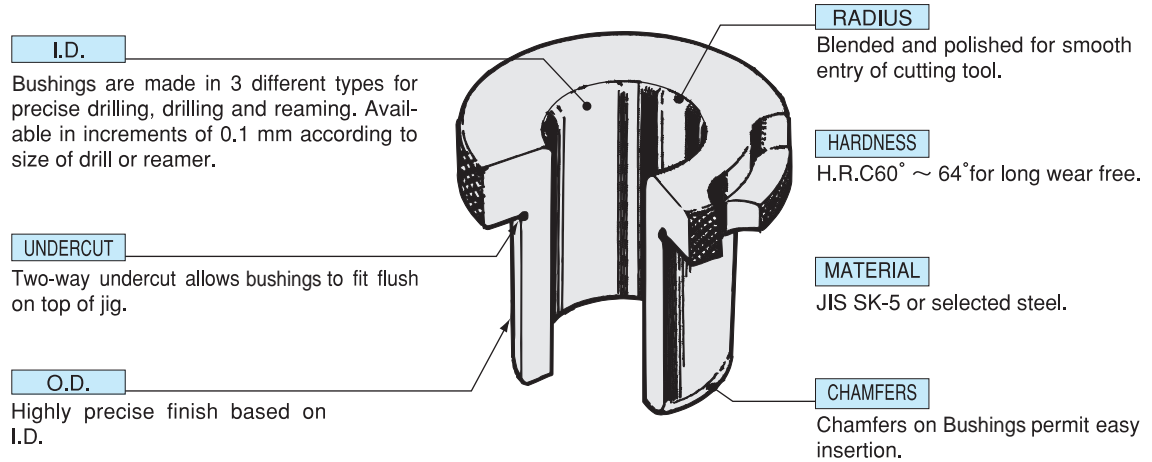


Drill Jig Bushing



BT
CAT
AHO
HSK-A/E/F/C
HSK-T
UTS
Specialized Machine
Related Equipment
Bushing & Chamfering Drill

Drill Jig Bushing

Chamfering Cutter Series

Chamfering Series

Type	PRESS FIT BUSHING		RENEWABLE BUSHING
Designation	HEADLESS Type A	HEADED Type B	ROUND Type C
Tool applied			
Shape and sequence of fitting-in			
Sectional view			

HOW TO INSTALL A JIG BUSHING

PRESS FIT BUSHING Type A, B, G	RENEWABLE BUSHING Type C, D, E, F
<p>How to press-fit</p> <p>Press the bushing correctly into the bush plate.</p>	<p>Renewable bushing can be inserted by hand.</p>

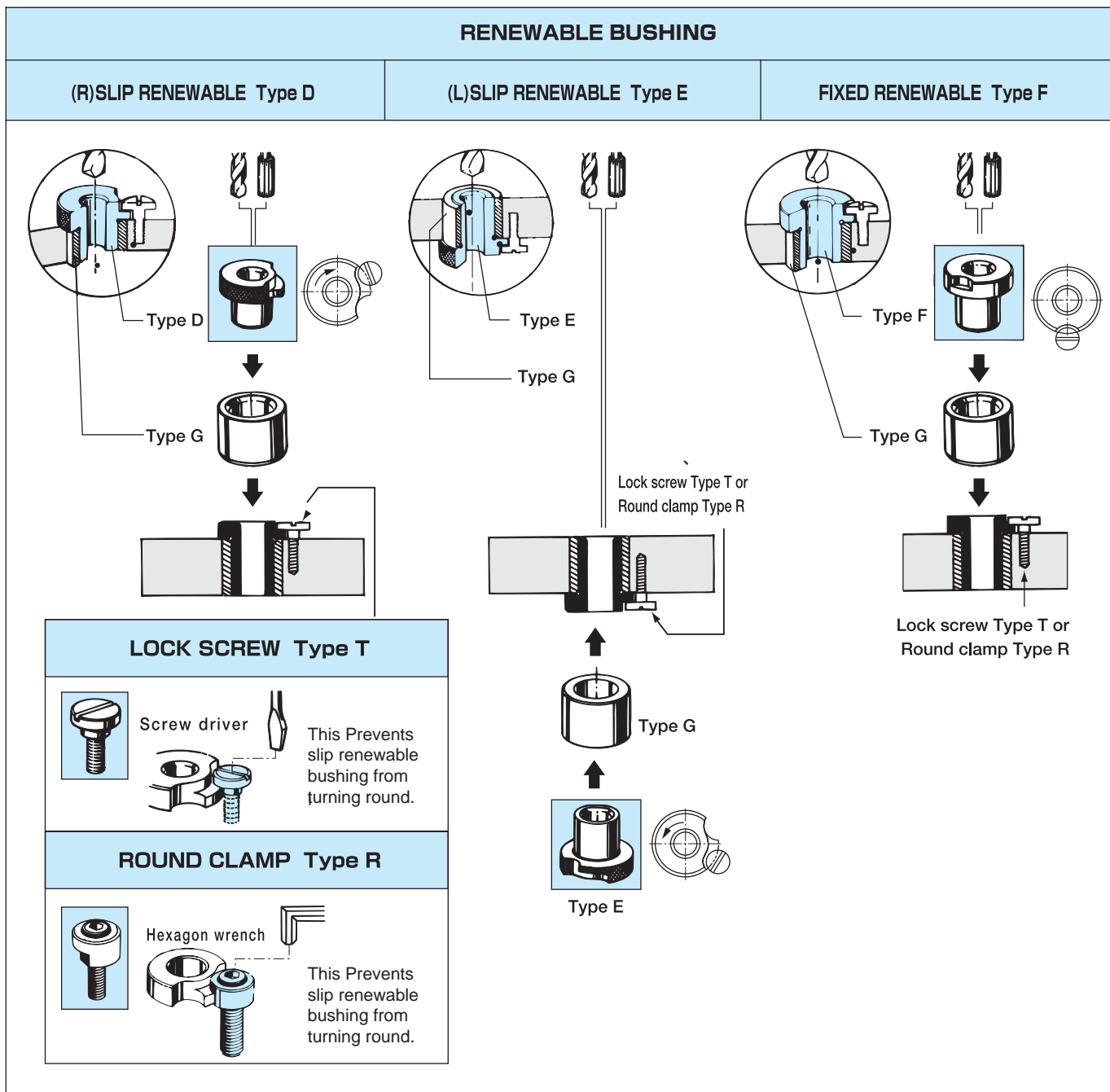
Bushings that have the same O.D. are interchangeable with each other.

LINER BUSHING Type G

This Guides the renewable bushing for smoother insertion or replacement.

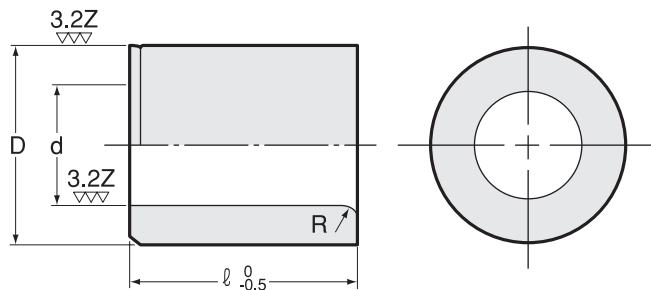
Name	Press fit bushing		Renewable bushing				Headless liner bushing	Lock screw	Round clamp
	Headless	Headed	Round	Right slip	Left slip	Fixed			
Shape									
Higher accuracy	SA	SB	SC	SD	SE	SF	G	T	R
Standard accuracy	A	B	C	D	E	F			
Reaming	—	BR	CR	DR	ER	FR			

S...for higher accuracy R...for reaming

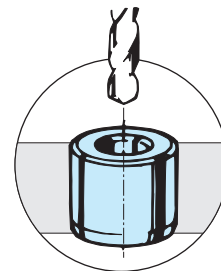


Type A

Headless Press Fit Bushing Type A



Example



※ 1. Bushing with I.D. size smaller than 3.0mm uses 30 degree chamfered radius (R).

Tolerance of I.D.

d	0.8 ~ 1.5	1.6 ~ 3.0	3.1 ~ 6.0	6.1 ~ 10.0	10.1 ~ 18.0	18.1 ~ 30.0	30.1 ~ 50.0	50.1 ~ 55.0
SA (G6)	—	+0.008 +0.002	+0.012 +0.004	+0.014 +0.005	+0.017 +0.006	+0.020 +0.007	+0.025 +0.009	+0.029 +0.010
A	+0.025 +0.002	+0.025 +0.002	+0.030 +0.004	+0.036 +0.005	+0.043 +0.006	+0.052 +0.007	+0.062 +0.009	+0.074 +0.010

Concentric runout (T.I.R.) of O.D. to I.D.

d	0.8 ~ 1.5	1.6 ~ 18.0	18.1 ~ 50.0	50.1 ~ 55.0
SA	—	0.005 or less	0.008 or less	0.010 or less
A	0.012 or less	0.012 or less	0.020 or less	0.025 or less

1. Renewable bushing cannot be used together with headless press fit bushing, which can be used only with headless liner bushing (Type G).
2. Bore a hole in bushing plate at H7 for bushing with O.D. (D) p6. Tolerance of hole bored by reamer with O.D. m5 is H7.

I.D.(d) of hole in bushing plate	0.8 ~ 3.0	3.1 ~ 6.0	6.1 ~ 10.0	10.1 ~ 18.0	18.1 ~ 30.0	30.1 ~ 50.0	50.1 ~ 55.0
Tolerance H7	+0.010 0	+0.012 0	+0.015 0	+0.018 0	+0.021 0	+0.025 0	+0.030 0

SA..... For higher accuracy

A..... For standard accuracy

d	D (p6)	R	Grade	ℓ												
				6	8	10	12	16	20	25	30	35	45	55		
0.8 ~ 1.0	3	+0.012 +0.006	※ 1	A	○	○										
				SA												
1.1 ~ 1.5	4	+0.020 +0.012	※ 1	A	○	○										
				SA												
1.6 ~ 2.0	5	+0.020 +0.012	※ 1	SA		○	○	○								
				A		○	○	○								
2.1 ~ 3.0	7	+0.024 +0.015	※ 1	SA		○	○	○								
				A		○	○	○								
3.1 ~ 4.0	8	+0.024 +0.015	1	SA			○	○	○							
				A			○	○	○							
4.1 ~ 6.0	10	+0.024 +0.015	1	SA			○	○	○							
				A			○	○	○							
6.1 ~ 8.0	12	+0.029 +0.018	2	SA				○	○	○						
				A				○	○	○						
8.1 ~ 10.0	15	+0.029 +0.018	2	SA				○	○	○						
				A				○	○	○						
10.1 ~ 12.0	18	+0.029 +0.018	2	SA					○	○	○					
				A					○	○	○					
12.1 ~ 15.0	22	+0.035 +0.022	2	SA					○	○	○					
				A					○	○	○					
15.1 ~ 18.0	26	+0.035 +0.022	2	SA						○	○	○				
				A						○	○	○				
18.1 ~ 22.0	30	+0.035 +0.022	3	SA						○	○	○				
				A						○	○	○				
22.1 ~ 26.0	35	+0.042 +0.026	3	SA							○	○	○			
				A							○	○	○			
26.1 ~ 30.0	42	+0.042 +0.026	3	SA							○	○	○			
				A							○	○	○			
30.1 ~ 35.0	48	+0.042 +0.026	4	SA								○	○	○		
				A								○	○	○		
35.1 ~ 42.0	55	+0.051 +0.032	4	SA								○	○	○		
				A								○	○	○		
42.1 ~ 48.0	62	+0.051 +0.032	4	SA									○	○	○	
				A									○	○	○	
48.1 ~ 55.0	70	+0.051 +0.032	4	SA										○	○	○
				A									○	○	○	

Ordering Example

SA - 6.0 × 10
 d ℓ

Code

0000 012 060 12
 Code d ℓ
 A:011
 SA:012