

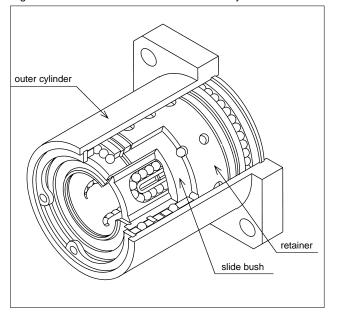
# **SLIDE ROTARY BUSH**

NB's RK type slide rotary bush is a highly accurate rigid component providing smooth continuous linear and rotational motion. Its structure imposes no constraints on either motion. It is much more compact than a standard slide bush with separate rotational bearing.

### STRUCTURE AND ADVANTAGES

The RK type slide rotary bush uses a retainer similar to that used in the SR type stroke bush. This retainer provides the results of smooth rotational motion. The SM type slide bush is also used providing the smooth linear motion. Large ball elements are used enabling the bushing to withstand high loads.

Figure F-6 Basic Structure of NB Slide Rotary Bush



- 1.A smooth unlimited linear and rotational motion is obtained.
- 2.There is no need to machine separate housing.
- 3.High accuracy is ensured for extended period of usage.
- 4.lts high compatibility eliminates replacement problems.
- 5. High rigidity enables it to withstand an unbalanced load and high load capacity.
- % For best performance, please select tolerance of h5 for the shaft.

#### **Calculation of Life:**

$$L = \left(\frac{fH \cdot fT \cdot fC}{f_{W}} \cdot \frac{C}{P}\right)^{3} \times 50$$

- L : travel life (km)  $f_{H}$  : hardness coefficient  $f_{T}$  : temperature coefficient
- $f_c$  : contact coefficient  $f_w$  : the loafficient
- $C: basic \ dynamic \ load \ rating \ (N) \ \ P: \ load \ (N)$

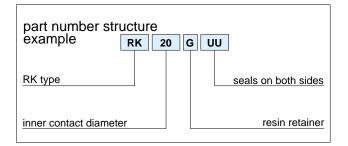
※Refer to page Eng. 5 for the coefficients.

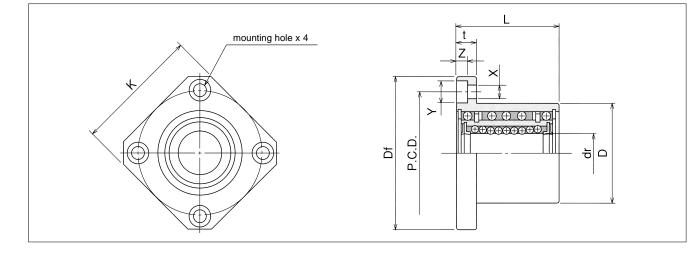
%The contact coefficient is used when two or more bushings are used in close contact with each other on the same shaft.

## **SLIDE ROTARY BUSH**

# SLIDE SCREW

**RK TYPE** 





	major dimensions											basic load rating		allowable	
part number	dr		D		L		flange					dynamic	static	rotational speed	mass
		tolerance		tolerance		tolerance	Df	K	t	P.C.D.	X×Y×Z	C	Co		
	mm	μm	mm	μm	mm	mm	mm	mm	mm	mm	mm	N	Ν	rpm	g
RK12GUU	12	0	32	0	36	±0.3	54	42	8	43	5.5×9×5.1	510	784	500	180
RK16GUU	16	-9 0 -10	40	-	45		62	50	8	51	5.5×9×5.1	774	1,180	500	280
RK20GUU	20		45	-25	50		74	58	10	60	6.6×11×6.1	882	1,370	400	420
RK25GUU	25		52	0	67		82	64	10	67	6.6×11×6.1	980	1,570	400	680
RK30GUU	30		60	-30	74		96	75	13	78	9×14×8.1	1,570	2,740	400	990

1N≒0.102kgf