HSK LINEAR SYSTEMS

HSK

DUAL SHAFT OF SLIDE GUIDE-TLB/TLE TYPE

CHARACTERISTICS

1. ANTI-CORROSION

The slide unites and shaft supports are hard chrome plating with heat treatment of aluminum base mounted. It is anti corrosion proof.

2. STIFFNESS

The shaft is chrome plated with heat treatment track roller can carry the load and keep running smoothly.

3. SEALING

TLB series are designed by complete sealing construction with a special anti dust's cover. It is suitable to use in dusty environment and keep long life.

4. ASSEMBLE EASILY

It is easy to assemble because whole product is built by standard parts.

5. INTERCHANGEABLE

The block and rail can be purchased separately for replacement.

6. MOVEMENT WITH LOW NOISE

TL series combine with roller and shaft with movement smoothly and low noise. The adjustable function keeps no tolerance during movement.

7. MORE ECONOMICAL

Light weight, anti corrosion, interchangeable, assemble easily, which is useful for various machine equipment and cost saving.

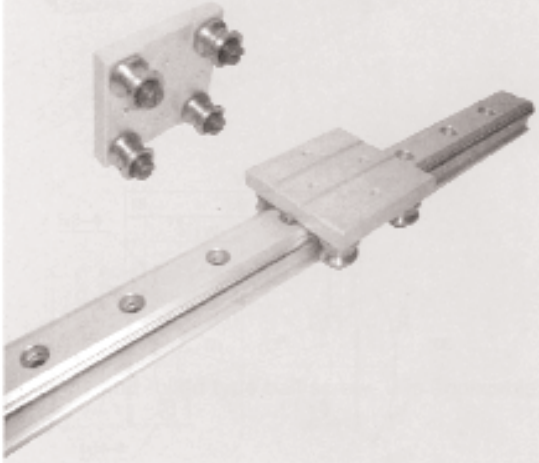
8. LOW COST

The cost is reduced by mass production. So there's more competitive price than other similar type of guideway.

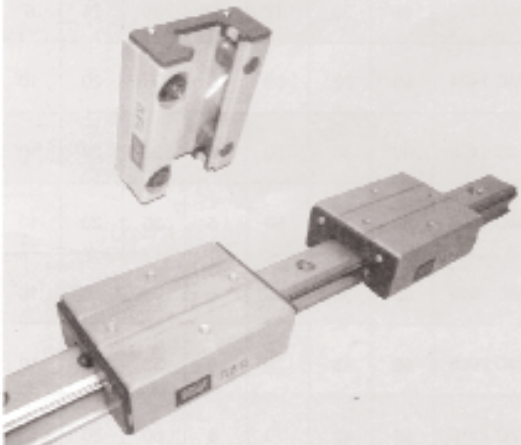
APPLICATION

TL series is suitable for various applications: Textile Machine, Air Pressure Machine, Packaging Machine, Loading and Unloading of CNC Machine, Medical Equipment, Food Machine, and Tooling Grinder.

TLE SIMPLE TYPE



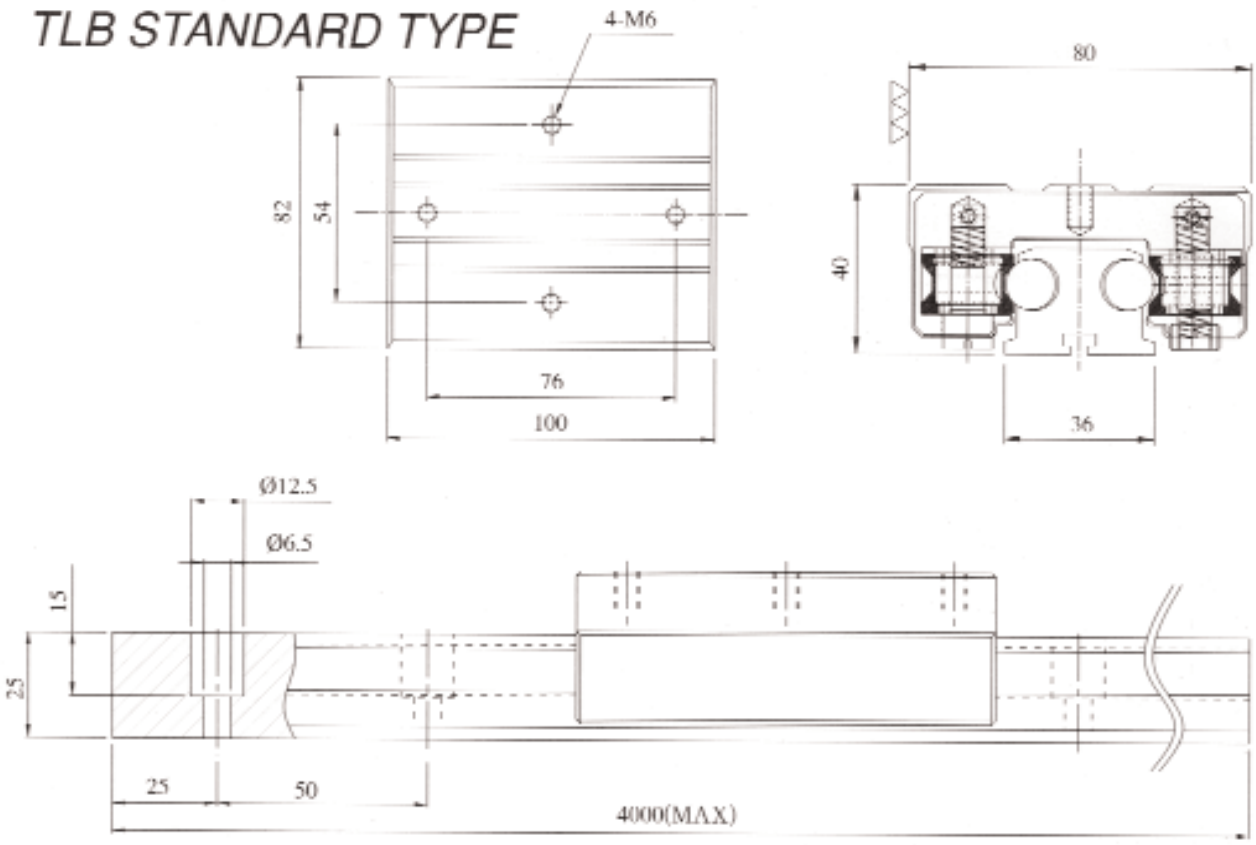
TLB STANDARD TYPE
(Clearance Adjustable)



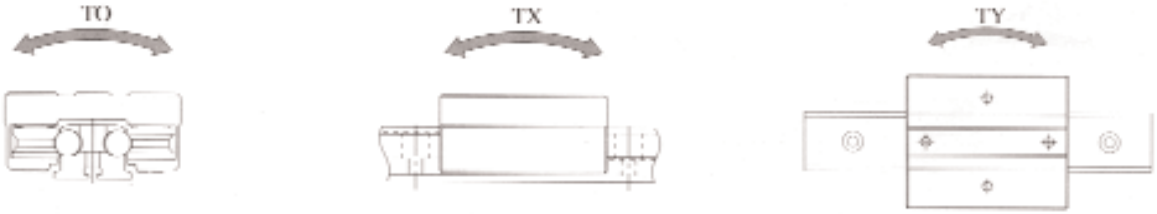
DOUBLE SHAFT OF SLIDE GUIDE-TLB TYPE

HSK

TLB STANDARD TYPE



Type	Shaft Diameter	Basic Dynamic Safe Working Load	Basic Stationary Safe Working Load	Allowable Static Moment			Weight	
				To (kgf/m)	Tx (kgf/m)	Ty (kgf/m)	Block kg	Rail kg/m
TLB	12	180	290	5.4	4.0	4.8	0.54	3.1



METHOD OF ORDERING

FULL SET

TLB12—2—1800L

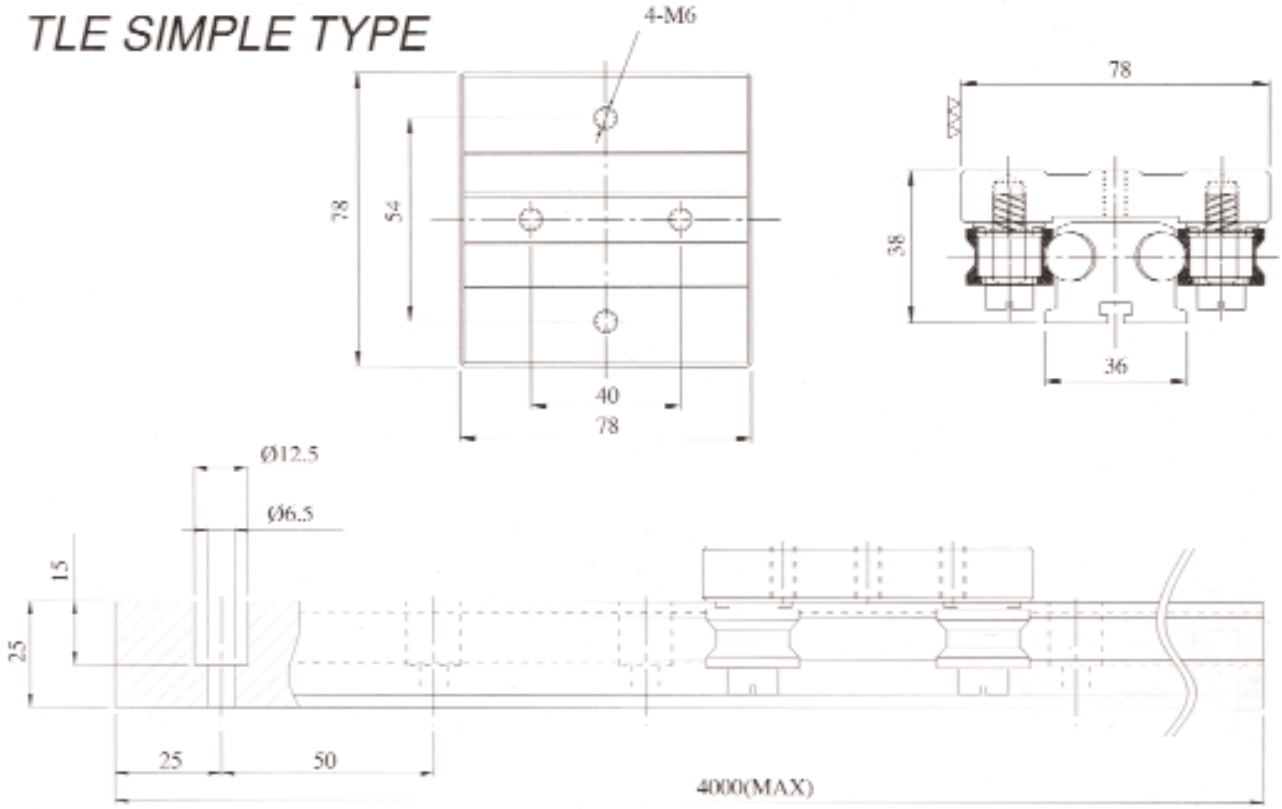
Block: TLB12

Rail: TLR12--800 L

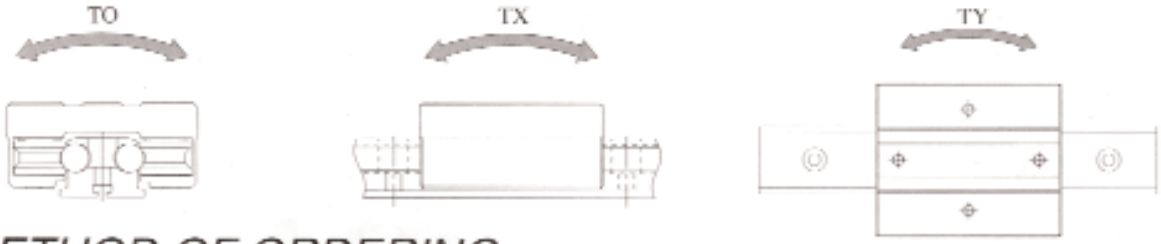
- TLB12 — Type
- 2 — Quantity of Block in one Rail
- 1800L — Length of Rail

DOUBLE SHAFT OF SLIDE GUIDE-TLE TYPE

TLE SIMPLE TYPE



Type	Shaft Diameter	Basic Dynamic Safe Working Load	Basic Stationary Safe Working Load	Allowable Static Moment			Weight	
				To (kgf/m)	Tx (kgf/m)	Ty (kgf/m)	Block kg	Rail kg/m
TLE	12	140	230	4.3	3.2	3.8	0.36	3.1



METHOD OF ORDERING

FULL SET

Block: TLE12

Rail: TLR12--800L

TLE12—2—1800L

Length of Rail

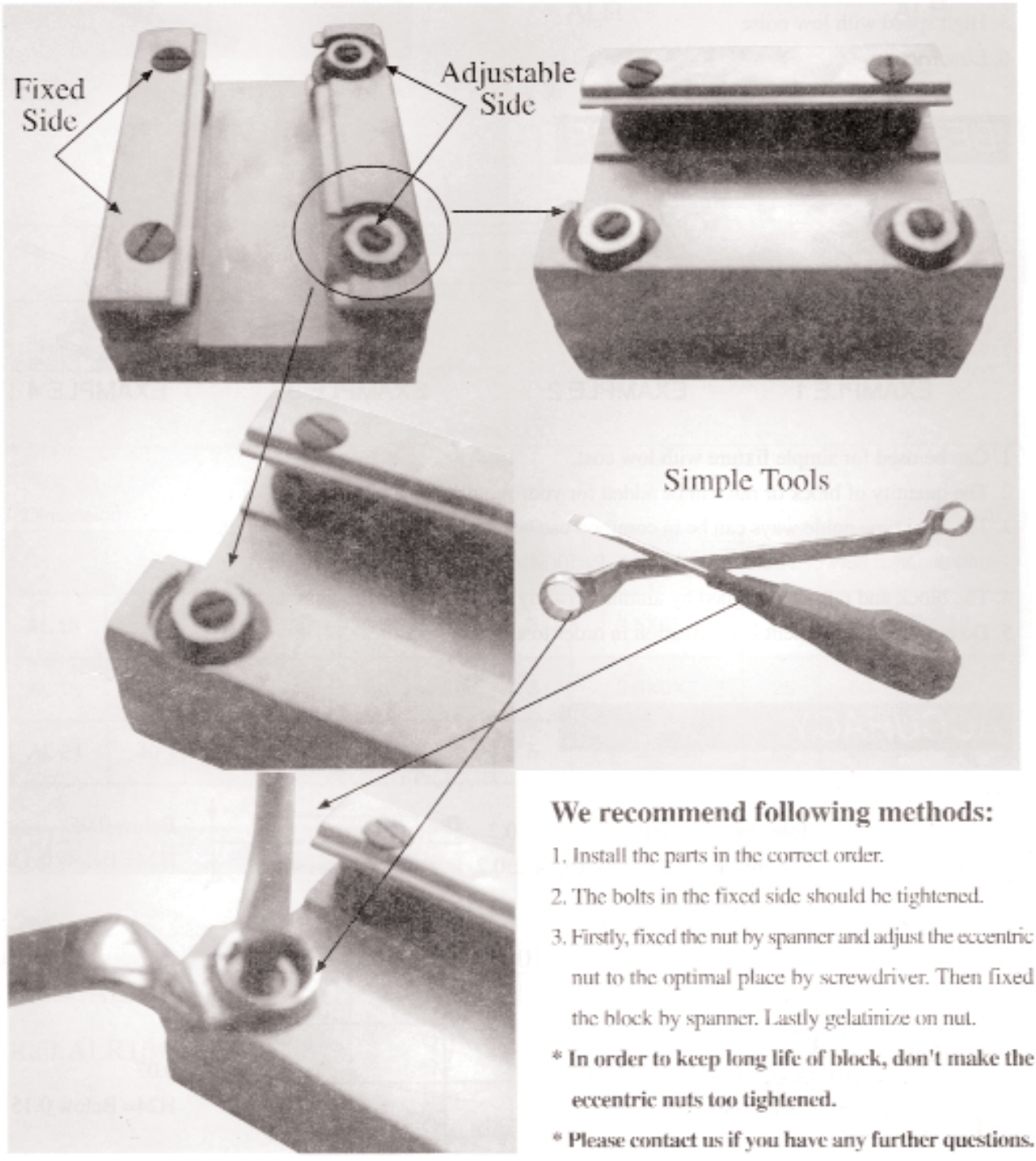
Quantity of Block in One Rail

Type

DOUBLE SHAFT OF SLIDE GUIDE-TLB TYPE

TLB STANDARD TYPE

--Explanation of Clearance Adjustment



We recommend following methods:

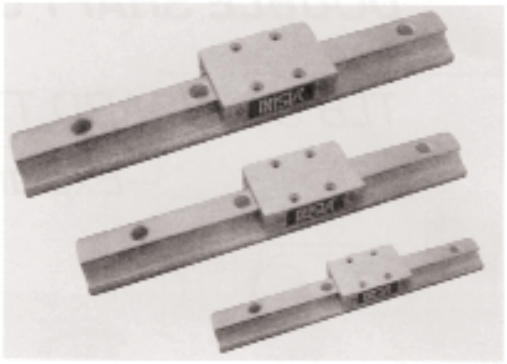
1. Install the parts in the correct order.
2. The bolts in the fixed side should be tightened.
3. Firstly, fixed the nut by spanner and adjust the eccentric nut to the optimal place by screwdriver. Then fixed the block by spanner. Lastly gelatinize on nut.

*** In order to keep long life of block, don't make the eccentric nuts too tightened.**

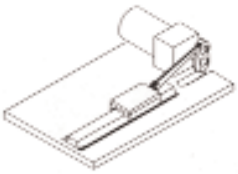
*** Please contact us if you have any further questions.**

SLIDE GUIDE CHARACTERISTICS

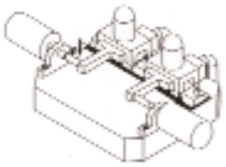
1. Slide Guide for simple fixture
2. Low cost
3. Light weight because of heat treatment aluminum alloy profile.
4. Long life and no need to maintenance
5. High speed with low noise
6. Low friction



BE USED FOR FIXTURE

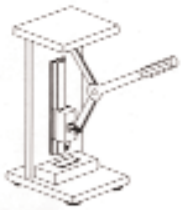


EXAMPLE 1



EXAMPLE 2

EXAMPLE 3



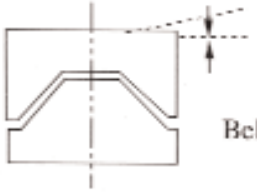
EXAMPLE 4

1. Can be used for simple fixture with low cost.
2. The quantity of block or rail can be added for your requirement.
3. The mini type guide ways can be in common use because of the same height, length and distance between holes of rail . H13, P=50(Mini type guide way H13,P=25).
4. The block and rail are designed by aluminum alloy which realizes the light weight.
5. Do not use it in moment load situation in order to avoid deflection.

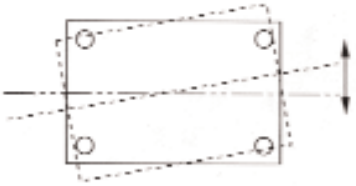
ACCURACY

Tolerance of height for size ±0.2
Difference tolerance of height ±0.2

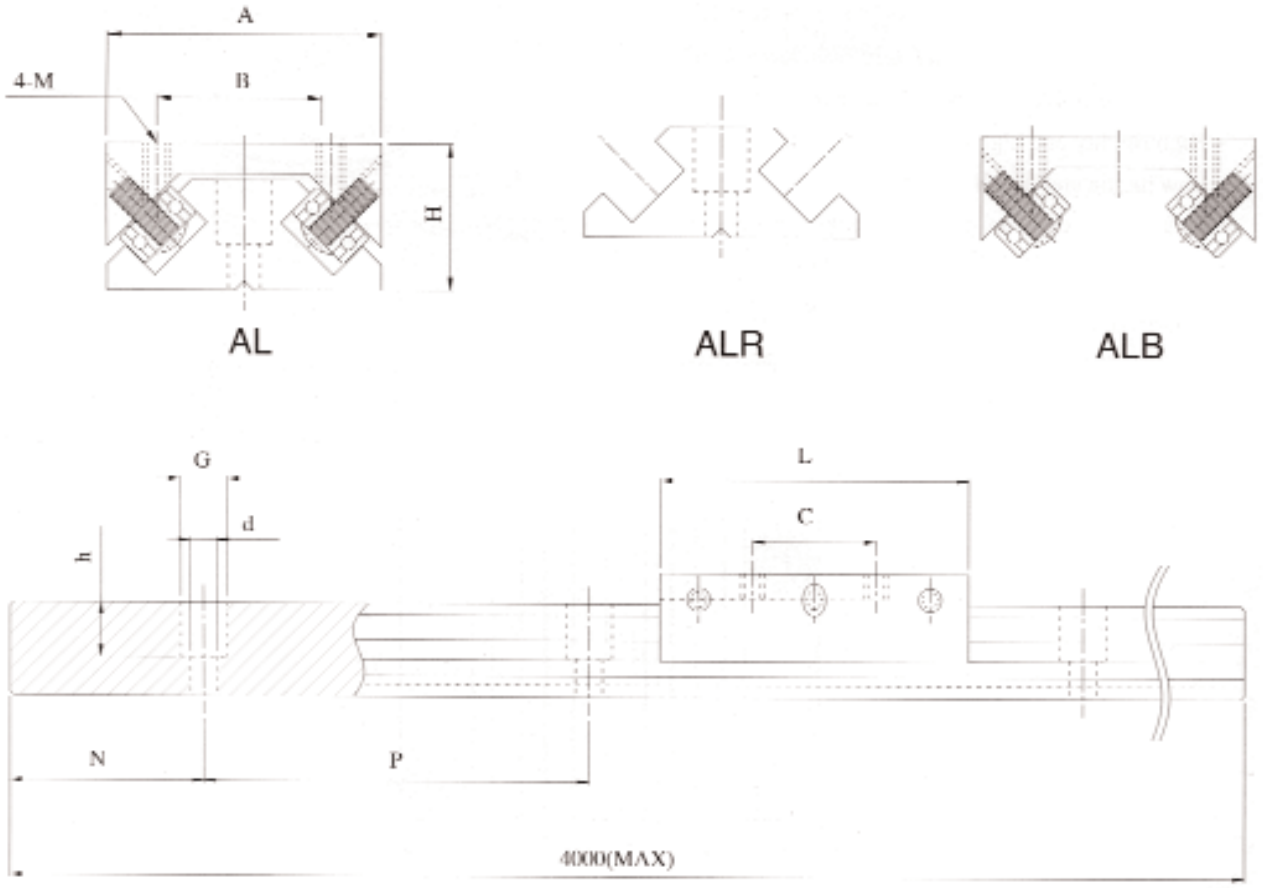
Below 0.05
H24= Below 0.13



Below 0.3



0.07
H24= Below 0.15



Dimension

unit:mm

Type	A	H	L	B	C	M	dXGXh	N	P	Load(kg)
AL 13	23	13	30	15	11	3	3.5X6X4	25	50	12
AL 16	30	16	40	19	16	3	3.5X6X7	25	50	16
AL 24	40	24	60	28	22	5	6X9.5X10	20	60	20

METHOD OF ORDERING

FULL SET

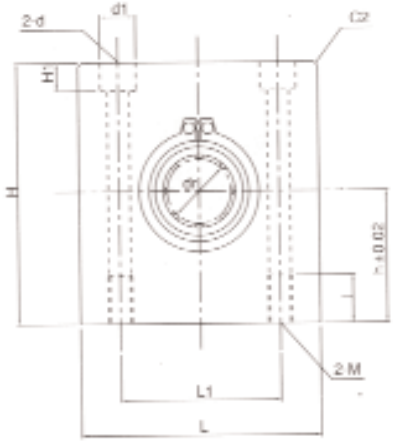
AL16—2—800L

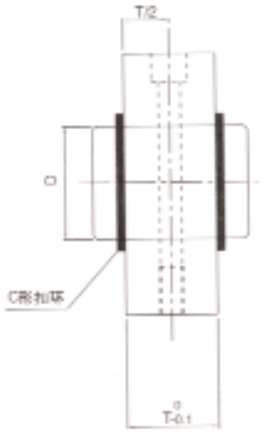
Block:ALB16

Rail:ALR16-800L

- Length of Rail
- Quantity of Block in One Rail
- Type

SMH



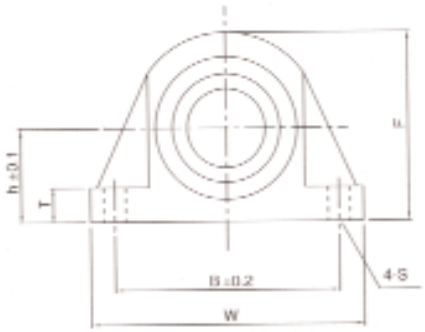


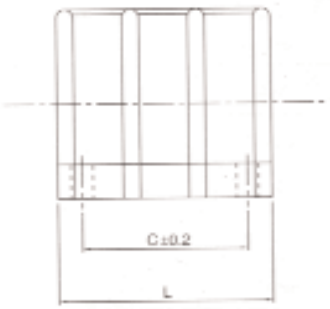
Model No.	Main Dimensions (mm)										To Fit Accessory Screw	To Fit Installing Screw
	dr	h	L	T	H	D	L1	d	d1 × H1	M × ℓ		
SMH12	12	25	52	20	50	21	32	4.5	8 × 6	5 × 10	M4	M5
SMH13	13	25	52	20	50	23	32	4.5	8 × 6	5 × 10	M4	M5
SMH16	16	33	60	23	65	28	40	5.5	9 × 7	6 × 12	M5	M6
SMH20	20	33	65	27	65	32	45	5.5	9 × 7	6 × 12	M5	M6
SMH25	25	38	75	37	75	40	54	6.6	11 × 8	8 × 16	M8	M8
SMH30	30	38	85	40	75	45	60	6.6	11 × 8	8 × 16	M6	M8
SMH35	35	50	95	45	100	52	70	9	14 × 10	10 × 20	M8	M10

SMH 16

Standard SMH Type — Diameter Dimension

PL



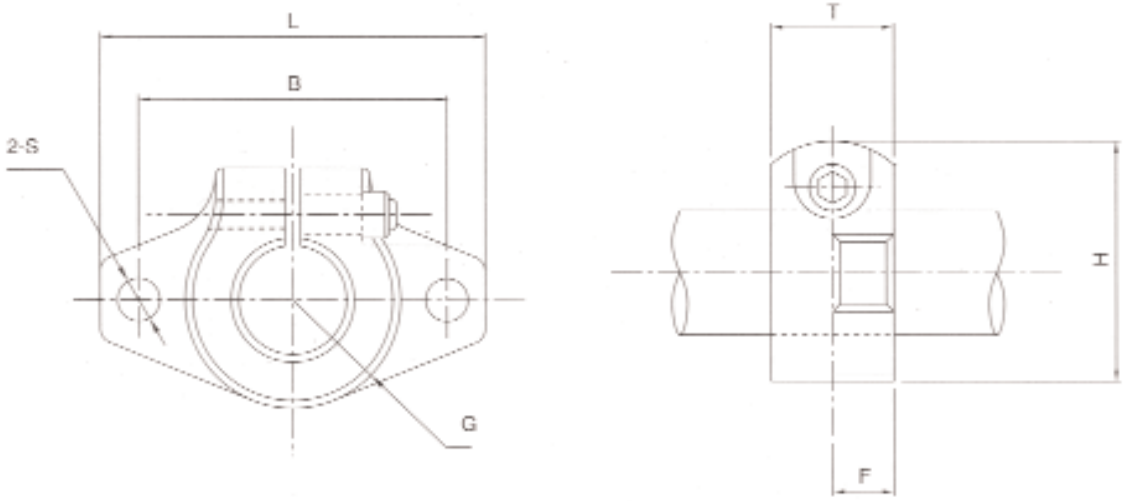


Model No.	Shaft Dimension	Main Dimensions (mm)								Basic Load Rating (kgf)		Weight (g)
		h	W	L	F	T	B	C	S	Dynamic C	Static CO	
PL12	12	15	50	36	30	6.5	40	26	4.5	52	80	50
PL16	16	19	58	44	38.5	7	46	34	4.5	80	120	99
PL20	20	21	62	50	43	8	50	40	5.5	90	140	127

PL 20

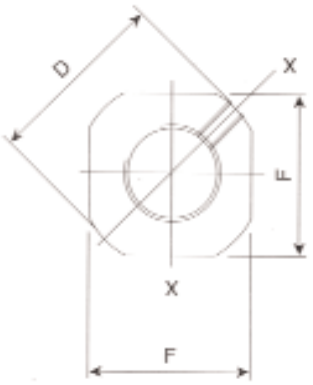
Standard SMH Type — Diameter Dimension

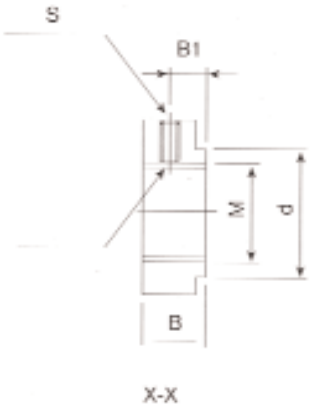
SHF



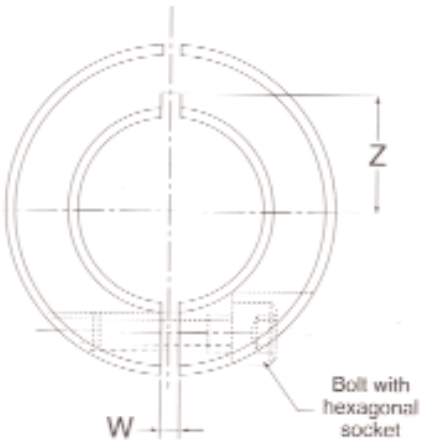
Model No.	Shaft	Main Dimensions (mm)							To Fit Accessory Screw	To Fit Installing Screw	Weight (g)
		L	T	F	B	G	H	S			
SHF-3	3	43	10	5	32	20	24	5.5	M4	M5	13
SHF-4	4	43	10	5	32	20	24	5.5	M4	M5	13
SHF-5	5	43	10	5	32	20	24	5.5	M4	M5	13
SHF-6	6	43	10	5	32	20	24	5.5	M4	M5	13
SHF-8	8	43	10	5	32	20	24	5.5	M4	M5	13
SHF-10	10	43	10	5	32	20	24	5.5	M4	M5	13
SHF-12	12	47	13	7	36	25	28	5.5	M4	M5	20
SHF-13	13	47	13	7	36	25	28	5.5	M4	M5	20
SHF-16	16	50	16	8	40	28	31	5.5	M4	M5	27
SHF-20	20	60	20	8	48	34	37	7	M5	M6	40
SHF-25	25	70	25	10	56	40	42	7	M5	M6	60
SHF-30	30	80	30	12	64	46	50	9	M6	M8	110
SHF-35	35	92	35	14	72	50	58	12	M8	M10	380
SHF-40	40	102	40	16	80	56	67	12	M10	M10	510
SHF-50	50	122	50	19	96	70	83	14	M12	M12	890

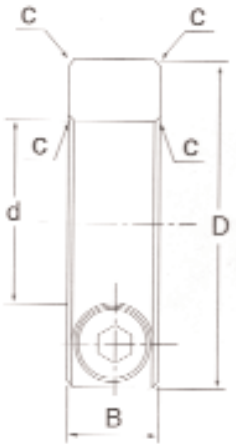
Nut





Model No.	M	D	F	B	d	B1	S
RN-6	M6X0.75	14.5	12	5	10	2.7	M3 with copper spacer
RN-8	M8X1	17	14	6.5	13	4	M3 with copper spacer
RN-10	M10X1	20	16	8	15	5.5	M3 with copper spacer
RN-12	M12X1	22	19	8	17	5.5	M3 with copper spacer
RN-15	M15X1	25	22	8	21	4.5	M3 with copper spacer
RN-17	M17X1	30	24	13	25	9	M4 with copper spacer
RN-20	M20X1	35	30	11	26	7	M4 with copper spacer
RN-25	M25X1.5	43	35	15	33	10	M5 with copper spacer
RN-30	M30X1.5	48	40	20	39	14	M6 with copper spacer
RN-35	M35X1.5	60	50	21	46	14	M8 with copper spacer
RN-40	M40X1.5	63	50	25	51	18	M8 with copper spacer



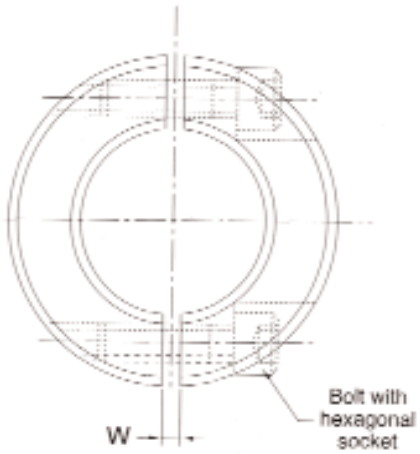


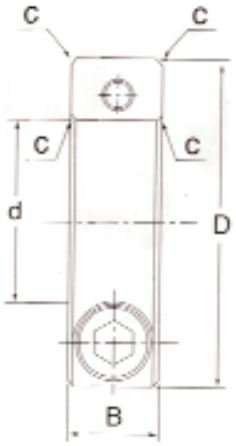
Model No	Dimension						To Fit Accessory Scerw
	d	D	B	C	W	Z	
RSB-8	8	30	15	0.5	1.5	10	M6x14
RSB-10	10	35	15	0.5	1.5	12.5	M6x16
RSB-12	12	35	15	0.5	1.5	12.5	M6x16
RSB-13	13	35	15	0.5	1.5	12.5	M6x16
RSB-15	15	40	15	0.5	1.5	-	M6x18
RSB-16	16	40	15	0.5	1.5	-	M6x18
RSB-20	20	45	15	0.5	1.5	-	M6x18
RSB-25	25	50	15	0.5	1.5	-	M6x22
RSB-30	30	55	15	1	1.5	-	M6x22
RSB-35	35	60	15	1	2	-	M6x25
RSB-40	40	70	18	1	2	-	M8x28
RSB-45	45	75	18	1	3	-	M8x28
RSB-50	50	85	22	1	3	-	M10x35
RSB-55	55	90	22	1	3	-	M10x35
RSB-60	60	95	22	1	3	-	M10x35

Material: S45C

Surface Treatment by:Black dyeing and plating nickel

Tolerance:Please refer to Table 1 before your installing.





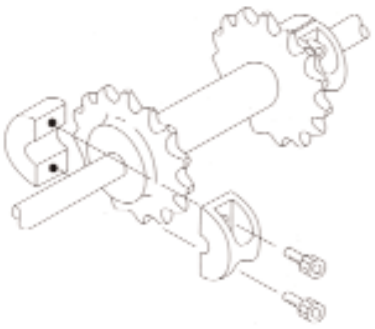
Model No	Dimension					To Fit Accessory Scerw
	d	D	B	C	W	
RSC-8	8	30	15	0.5	1.5	M6x14
RSC-10	10	35	15	0.5	1.5	M6x16
RSC-12	12	35	15	0.5	1.5	M6x16
RSC-13	13	35	15	0.5	1.5	M6x16
RSC-15	15	40	15	0.5	1.5	M6x18
RSC-16	16	40	15	0.5	1.5	M6x18
RSC-20	20	45	15	0.5	1.5	M6x18
RSC-25	25	50	15	0.5	1.5	M6x22
RSC-30	30	55	15	1	1.5	M6x22
RSC-35	35	60	15	1	2	M6x25
RSC-40	40	70	18	1	2	M6x28
RSC-45	45	75	18	1	3	M6x28
RSC-50	50	85	22	1	3	M6x35
RSC-55	55	90	22	1	3	M6x35
RSC-60	60	95	22	1	3	M6x35

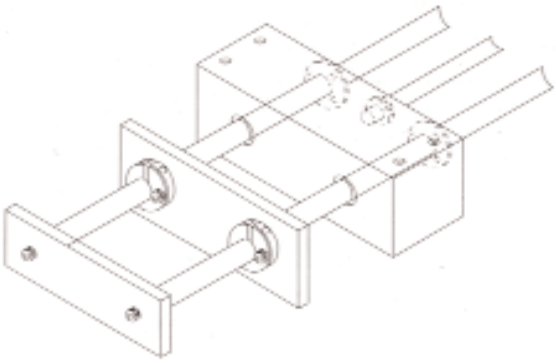
Material: S45C

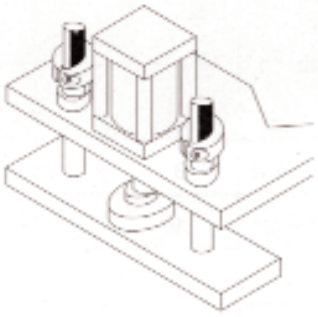
Surface Treatment by:Black dyeing and plating nickel

Tolerance:Please refer to Table 1 before your installing.

Set Collar







Characteristic of set collars

Set collars are suitable for fixing the position of gear wheel and the position of gearing on the shaft.

Dimension and Tolerance						
Dimension(mm)		Tolerance Inside Diameter		Tolerance of Outside Diameter		Tolerance of Thickness (μm)
Over	Under	High	Low	High	Low	
6	10	+22	0	-	0	±100
10	18	+27		-		
18	30	+33		+330		
30	50	+39		+390		
50	80	+46		+460		
80	120	-	-	+540		