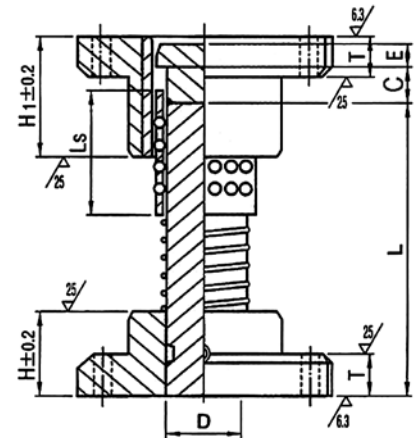
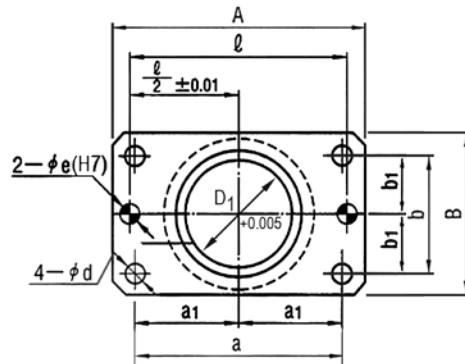




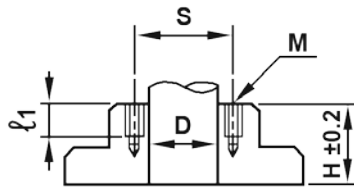
**SURFACE MOUNT
BALL BEARING ASSEMBLIES**

Surface Mount Ball Bearing Guide Post Assembly



TAPPING FOR FIXING STROKE END BLOCK

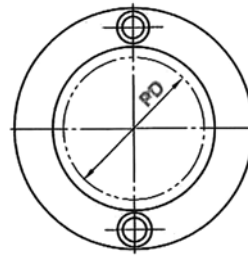
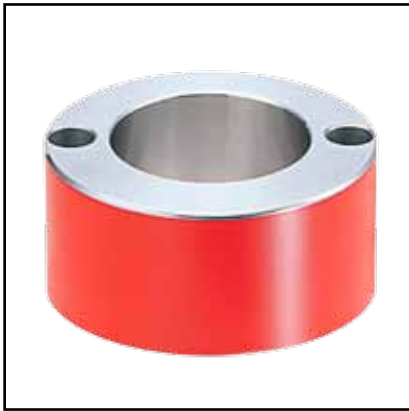
D	M	ℓ1	S
32	4	12	45
38	5	15	60
50	6	15	72
60	8	20	92



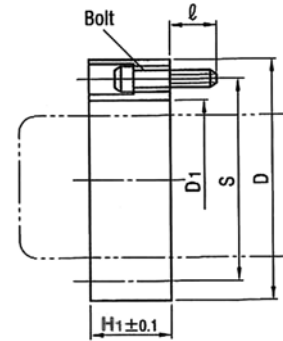
- ◆ Add "M" to end of part number to designate mounting holes option for optional stroke end blocks.
- ◆ Assemblies are supplied with mounting bolts and dowel pins.

Part Number	D	L	D1	A	B	a	b	d	H	H1	T	C	E	Ls	ℓ	a1	b1	e (H7)	Mounting Bolts	Dowel Pins
ADGPS32X110	32	110	40	100	58	76	36	11	40	60	20	25	5	60	76	38	18	8	10 x 1.5 x 40mm	8 - 30
ADGPS32X120		120																		
ADGPS32X130		130																		
ADGPS32X140		140																		
ADGPS32X150		150																		
ADGPS32X160		160																		
ADGPS32X170	170																			
ADGPS38X130	38	130	48	130	75	100	44	11	50	70	25	30	10	70	100	50	22	10	10 x 1.5 x 45mm	10 - 40
ADGPS38X140		140																		
ADGPS38X150		150																		
ADGPS38X160		160																		
ADGPS38X170		170																		
ADGPS38X180		180																		
ADGPS38X200		200																		
ADGPS38X220		220																		
ADGPS38X240		240																		
ADGPS38X260		260																		
ADGPS38X300		300																		
ADGPS50X170	50	170	60	155	90	125	60	14	65	90	25	40	10	90	125	62.5	30	10	12 x 1.75 x 50mm	10 - 40
ADGPS50X180		180																		
ADGPS50X200		200																		
ADGPS50X220		220																		
ADGPS50X240		240																		
ADGPS50X260		260																		
ADGPS50X300		300																		
ADGPS50X350		350																		
ADGPS60X200	60	200	70	190	120	150	80	18	75	100	30	50	15	100	150	75	40	13	16 x 2 x 60mm	13 - 50
ADGPS60X220		220																		
ADGPS60X240		240																		
ADGPS60X260		260																		
ADGPS60X280		280																		
ADGPS60X300		300																		
ADGPS60X350		350																		

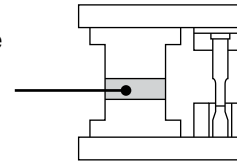
Stroke End Blocks – Flat Type



FLAT TYPE



Stroke end blocks can be used to adjust the stroke.



Part Number	PD	D	D1	D2*	S	Bolt	l	H1							
SEBA3210R	32	56	41	45	45	M4xP0.7	10	10							
SEBA3215R								15							
SEBA3220R								20							
SEBA3225R								25							
SEBA3230R								30							
SEBA3235R								35							
SEBA3240R								40							
SEBA3245R								45							
SEBA3250R								50							
SEBA3815R								38	72	49	56	60	M5xP0.8	10	15
SEBA3820R	20														
SEBA3825R	25														
SEBA3830R	30														
SEBA3835R	35														
SEBA3840R	40														
SEBA3845R	45														
SEBA3850R	50														
SEBA5020R	50	86	62	68	72	M6xP1.0	10								20
SEBA5025R															25
SEBA5030R								30							
SEBA5035R								35							
SEBA5040R								40							
SEBA5045R								45							
SEBA5050R								50							
SEBA6020R								60	112	76	84	92	M8xP1.25	12	20
SEBA6025R															25
SEBA6030R															30
SEBA6035R	35														
SEBA6040R	40														
SEBA6045R	45														
SEBA6050R	50														

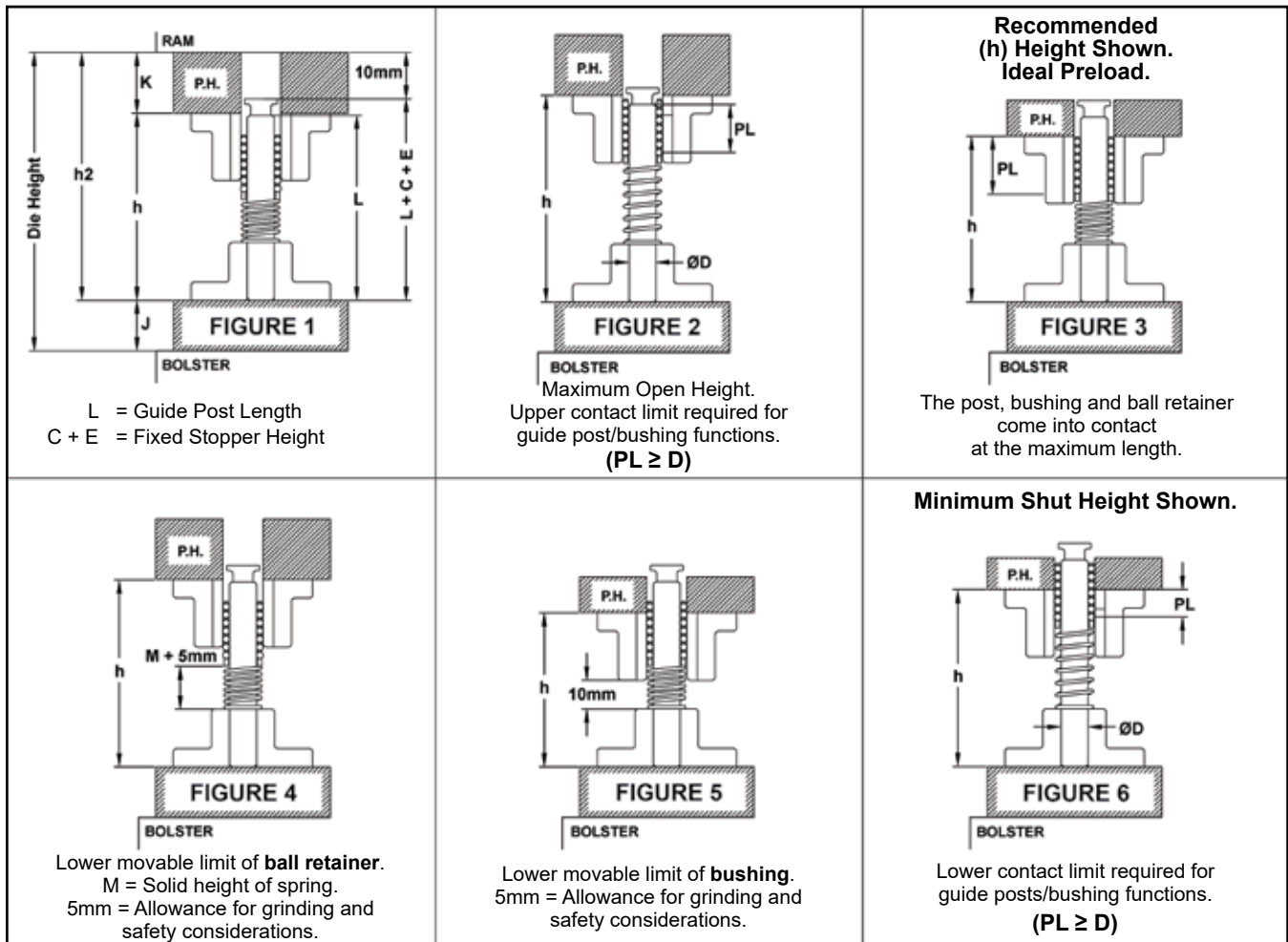
Selection Guide

Selection Guide for the Surface Mount Guide Post System

The following points should be considered when selecting Surface Mounted Ball Bearing Assemblies:

- ◆ At the bottom of the press stroke (**BDC**), the length of the preloaded ball bearing engagement should be equal to or greater than the guide post diameter (**D**) for proper guidance and stability (Fig. 6).
- ◆ $h_2 = L + C + E + 10\text{mm}$ (Fig 1) – 10mm is to allow for regrinding and safety considerations.
For **C + E**, see Page 2.
- ◆ How to determine **K** (minimum Punch Holder thickness): Reference (Fig. 1) and the gray chart (Page 5).
- ◆ Example: If $h = 190\text{mm}$ and you select an ADGPS38X200 assembly, from the gray table (Page 5), ADGPS38X200 would have an h_2 dimension of 250mm.
 $250\text{mm} - 190\text{mm} (h) = 60\text{mm}$.
K is required to be 60mm or greater.
- ◆ As shown in (Fig. 3), select guide post length so (**h**) includes as much contact length (**PL**) as possible.

Use the figures below for reference when using the tables on Page 5.



K = Punch Holder Thickness

J = Die Holder Thickness

L = Guide Post Length

D = Guide Post Diameter

C + E = Fixed Stopper Length

PL = Length of Ball Cage in Preload Condition

M = Spring Height to Solid

Replacement Items



Replacement End Cap

Replacement Ball Bearing Retainer

Replacement Spring

Replacement Bolt and Dowel Kits

Complete Assembly Number	Replacement Springs	Nominal Pin Size	Spring ID	Spring OD	Spring Length	Replacement Ball Bearing Retainers	Replacement End Caps (FIXED STOPPER) w/ Bolt	Replacement Bolt & Dowel Kits
ADGPS32X110	SPR32X110	32	32.5	35.7	60	AMS32-060-4	STR-F32 (M8-40 SHCS)	ADGPS-BD-KIT-32 (8) 10 x 1.5 x 40mm bolts (4) 8-30 dowels
ADGPS32X120	SPR32X120				60			
ADGPS32X130	SPR32X130				80			
ADGPS32X140	SPR32X140				80			
ADGPS32X150	SPR32X150				100			
ADGPS32X160	SPR32X160				100			
ADGPS32X170	SPR32X170				120			
ADGPS38X130	SPR38X130	38	38.5	42.5	60	AMS38-070-5	STR-F38 (M8-50 SHCS)	ADGPS-BD-KIT-38 (8) 10 x 1.5 x 45mm bolts (4) 10-40 dowels
ADGPS38X140	SPR38X140				80			
ADGPS38X150	SPR38X150				80			
ADGPS38X160	SPR38X160				100			
ADGPS38X170	SPR38X170				100			
ADGPS38X180	SPR38X180				120			
ADGPS38X200	SPR38X200				140			
ADGPS38X220	SPR38X220				160			
ADGPS38X240	SPR38X240				180			
ADGPS38X260	SPR38X260				200			
ADGPS38X300	SPR38X300				240			
ADGPS50X170	SPR50X170	50	50.5	55.7	100	AMS50-090-5	STR-F50 (M8-65 SHCS)	ADGPS-BD-KIT-50 (8) 12 x 1.75 x 50mm bolts (4) 10-40 dowels
ADGPS50X180	SPR50X180				100			
ADGPS50X200	SPR50X200				120			
ADGPS50X220	SPR50X220				140			
ADGPS50X240	SPR50X240				160			
ADGPS50X260	SPR50X260				180			
ADGPS50X300	SPR50X300				220			
ADGPS50X350	SPR50X350				280			
ADGPS60X200	SPR60X200	60	60.5	66.9	120	AMS60-100-5	STR-F60 (M8-75 SHCS)	ADGPS-BD-KIT-60 (8) 16 x 2 x 60mm bolts (4) 13-50 dowels
ADGPS60X220	SPR60X220				140			
ADGPS60X240	SPR60X240				160			
ADGPS60X260	SPR60X260				180			
ADGPS60X280	SPR60X280				200			
ADGPS60X300	SPR60X300				220			
ADGPS60X350	SPR60X350				260			

Ball Bearing Lubrication



Component maintenance is serious business... Always use Ball-Lube® and Ball-Scrub® to keep ball-bearing components clean and running smooth.

Product Features

BALL-SCRUBB® removes heavy soils, dirt or grease from ball-bearing guide pin assemblies. Just spray it on... wait three minutes... and spray again. Then blow off excess with compressed air. **BALL-SCRUBB®** is an industrial strength cleaner with rust inhibitors, specially formulated to clean debris and grease from all types of ball-bearing assemblies.

BALL-LUBE®, when applied after **BALL-SCRUBB®**, locks out wear by chemically bonding to precision surfaces. It provides a tough, long-lasting shield that protects against oxidation and rust. **BALL-LUBE®** lubricates assemblies and gives them long-time protection against wear, oxidation and heat. Spray liberally on ball-bearing assemblies.

Part Number	BALL-LUBE® Size
ARL016	Pint BALL-LUBE® spray
ARL384	Case (24) 1 Pint BALL-LUBE®
ARL128	Gallon BALL-LUBE®
ARL640	Gallons BALL-LUBE®

Part Number	BALL-SCRUBB® Size
ARS016	1 Pint BALL-SCRUBB® Spray
ARS384	1 Case (24) 1 Pint BALL-SCRUBB®
ARS128	1 Gallon BALL-SCRUBB®
ARS640	5 Gallons BALL-SCRUBB®

Die Lubrication



Product Features

This die lubricant is specially prepared to provide efficient lubrication for guide posts in plain bearing applications.

Part Number	Size
9-01-52	1 Quart
9-02-52	1 Gallon
9-02-521	55 Gallons
9-02-522	15 Gallons

Commitment to Quality & Customer Satisfaction

Dayton Lamina is a leading manufacturer of tool, die and mold components for the metal-working and plastics industries. As a customer-focused, world-class supplier of choice, we provide the brands, product breadth, distribution network and technical support for all your metal forming needs.

Our goal is to give our customers the most innovative and value-added products and services.



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