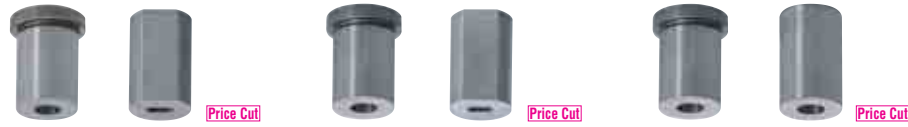


# PUNCH GUIDE BUSHINGS

## PUNCH GUIDE BUSHINGS



Name Catalog No.	PUNCH GUIDE BUSHINGS		—Long type—		—Super Long type—	
	Head type	Straight type	Head type	Straight type	Head type	Straight type
Delivery	③①④		③①④		③	
Page	211		213		215	

Delivery Shorten



Price Cut



Price Cut

—Two stepped guide type—		—Block type—	
Head type	Straight type	Bolt fixing type	Flange type
③		③④	
216		217	

# PUNCH GUIDE BUSHINGS

Punch guide bushing type	Material	Type	Shank dia. D	Round	Shaped	Features	Page
Head type	SKH51 ( $\phi 3\sim 5$ ) SKD11 ( $\phi 6\sim 16$ )	Regular type	$D_{m5}$	MHG	HG□	—	P.211
Straight type	SKH51 ( $\phi 3\sim 5$ ) SKD11 ( $\phi 6\sim 16$ )	Regular type	$D_{n5}$	MSG	SG□	—	P.211
Head type	SKH51 ( $\phi 3\sim 5$ ) SKD11 ( $\phi 6\sim 16$ )	Long type	$D_{m5}$	LMHG	LHG□	The guide length (dimension b), which is the depth of the dimension P(W) hole, has been lengthened compared with the standard punch guide bushings to support long strokes.	P.213
Straight type	SKH51 ( $\phi 3\sim 5$ ) SKD11 ( $\phi 6\sim 16$ )	Long type	$D_{n5}$	LMSG	LSG□		P.213
Head type	SKH51 ( $\phi 4\cdot 5$ ) SKD11 ( $\phi 6\sim 10$ )	Super long type	$D_{m5}$	SLMHG	—	The guide length (dimensions b and B) has been further lengthened (dimension B=max. dimension P(W)×5) to support longer strokes.	P.215
Straight type	SKH51 ( $\phi 4\cdot 5$ ) SKD11 ( $\phi 6\sim 10$ )	Super long type	$D_{n5}$	SLMSG	—		P.215
Head type	SKH51 ( $\phi 3\sim 5$ ) SKD11 ( $\phi 6\cdot 8$ )	Two-stepped guide type	$D^{+0.005}_0$	FMHG	—	To enable the bushing to guide a punch at both the point and the shank in cases where the point of punch is thin, etc., relief hole dimension (G) is made specifiable. In addition, the tolerances of dimensions D and P and the concentricity have been improved.	P.216
Straight type	SKH51 ( $\phi 3\sim 5$ ) SKD11 ( $\phi 6\cdot 8$ )	Two-stepped guide type	$D^{+0.005}_0$	FMSG	—		P.216
Bolt fixing type	SKD11	Block type	$H^{+0.01}_0$ $V^{+0.01}_0$	BBG	BBG□	By using shims, etc., it is possible to adjust the punch position minutely. As this type allows replacement by removing its bolt from the die side, its maintenance is easy. (Shim tapes: FGSM·FGSM□ P.650) (Multilayer plates for spacer: LHP P.649) (Precision multipurpose plates: UTPB P.652)	P.217
Flange type	SKD11	Block type	$H^{+0.005}_0$ $V^{+0.005}_0$	BGF	BGF□	By using shims, etc., it is possible to adjust the punch position minutely. As the flange thickness is the same with the head thickness of the round type punch guide bushings, this type can be concurrently used with the round type, using the flange type only at the places where a strict positional accuracy is required, while using the round type for the rest of punches. (Shim tapes: FGSM·FGSM□ P.650) (Multilayer plates for spacer: LHP P.649) (Precision multipurpose plates: UTPB P.652)	P.217