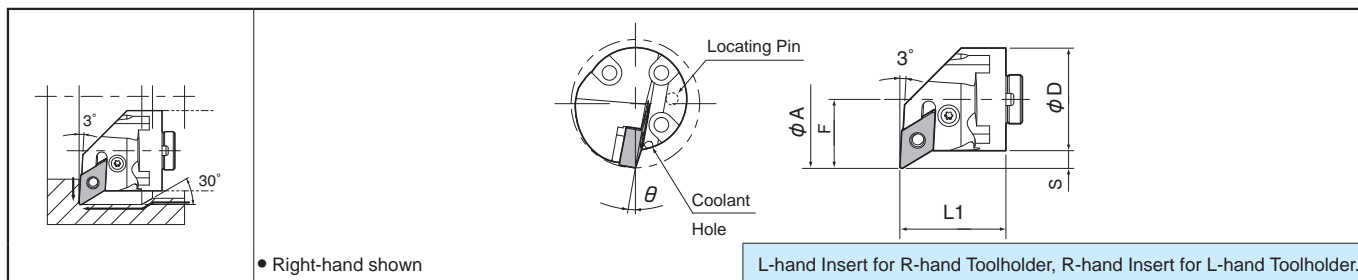


HA...PDUN15 (Copying: with Coolant Hole)



Toolholder Dimensions

Description	Std.		Min. Bore Dia.	Dimension (mm)			θ	Standard Corner-R (°)	Spare Parts						Applicable Boring Adapter F67	
	R	L		φA	φD	L1			F	S	Lever	Lock Screw	Shim	Shim Pin		* Punch
HA32PDUN ¹⁵ /L15-43	●	●	43	32		25	9	12°	0.8	LL-3K	LS-3P	LD-4K43 (LD-4K)	LSP-3K	*PC-2K	LTP-15	AD32U
HA40PDUN ¹⁵ /L15-50	●	●	50	40	41	27	7	10°								AD40V
HA50PDUN ¹⁵ /L15-63	●	●	63	50		35	10	10°								AD50W

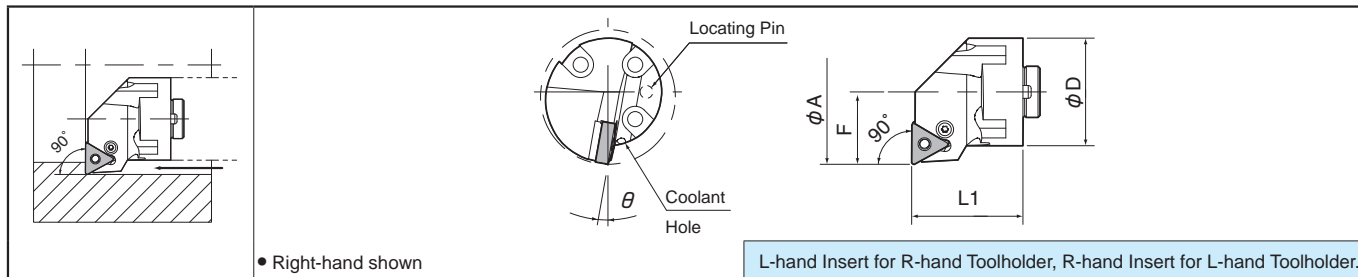
* Punch: Not included. Purchase separately.

* Shim: LD-4K43 is attached to Toolholder. When using DN □□ 1506 Insert, purchase LD-4K separately.

Applicable Inserts

Toolholder	Description				Ref. Page				
	Shim: LD-4K43		Shim: LD-4K		Cermet / Coated Carbide / Carbide		Ceramic	PCD	CBN
HA32PDUN ¹⁵ /L15-43	DN○A		DN○A	1506..	B20~B23		B86	C17	C6
HA40PDUN ¹⁵ /L15-50	DN○G	1504..	DN○G	1506..	B20~B23		B86	C17	C6
HA50PDUN ¹⁵ /L15-63	DN○M		DN○M		B20~B23		B86	C17	C6

HA...PTFN16 (Internal: with Coolant Hole)



Toolholder Dimensions

Description	Std.		Min. Bore Dia.	Dimension (mm)			θ	Standard Corner-R (°)	Spare Parts						Applicable Boring Adapter F67
	R	L		φA	φD	L1			F	Lever	Lock Screw	Shim	Shim Pin	* Punch	
HA32PTFN ¹⁶ /L16-40	●	●	40	32		22		0.8	LL-1K	LS-1P	LT-3K	LSP-2K	*PC-2K	LTP-10	AD32U
HA40PTFN ¹⁶ /L16-50	●	●	50	40	41	27	10°								AD40V
HA50PTFN ¹⁶ /L16-63	●	●	63	50		35	8°								AD50W

* Punch: Not included. Purchase separately.

Applicable Inserts

Toolholder	Description		Ref. Page				
			Cermet / Coated Carbide / Carbide		Ceramic	PCD	CBN
HA32PTFN ¹⁶ /L16-40	TN○A		B30~B34		B90	C17	C7
HA40PTFN ¹⁶ /L16-50	TN○G	1604..	B30~B34		B90	C17	C7
HA50PTFN ¹⁶ /L16-63	TN○M		B30~B34		B90	C17	C7

For recommended cutting conditions, see page F82~F83

Reference

Wrenches (LTP-10, LTP-15) are **Torx Plus**.
The size of **Torx Plus** is engraved on the long shaft.

Wrench description	LTP-10	LTP-15
Engraved size	10IP	15IP

● : Std. Item □ : Check Availability

