

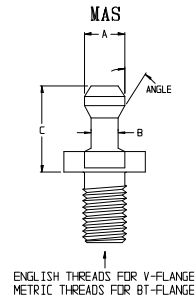
NOTE: STANDARD RETENTION KNOBS FOR 40 TAPER SPINDLES WITHOUT CTS

MAS RETENTION KNOBS STYLE CT-FLANGE 40 TAPER

ASSEMBLY SELECTION	DIMENSIONS				MILLTRONICS		MACHINE	COMMAND PART No.	KENNAMETAL PART No.	VALENITE PART No.	LYNDEX PART No.
	A	B	C	ANGLE	60mm SPINDLE	70mm SPINDLE					
4833	.59	.39	1.27	60°	RH19, RH20, RH30, RH33, RH35, RW15, RW20E, BR50, BR60, BR80, VM15, VM16, VM20, VM22, VM25, VM30, VMC15, VMC16, VMC20, VMC25, VMC30, MM18	RH20, RH30, RH33, RH35, BR50, BR60, BR80, VM16, VM20, VM22, VM25, VM30, VMC16, VMC20, VMC25, VMC30, TT24, TT40, HMC20, HMC35		RB4E-0002	RK31114A	PT-532-60	C40-6000

MAS RETENTION KNOBS STYLE BT-FLANGE 40 TAPER

ASSEMBLY SELECTION	DIMENSIONS				MILLTRONICS		MACHINE	COMMAND PART No.	KENNAMETAL PART No.	VALENITE PART No.	LYNDEX PART No.
	A	B	C	ANGLE	60mm SPINDLE	70mm SPINDLE					
4834	.59	.39	1.38	60°	RH19, RH20, RH30, RH33, RH35, RW15, RW20E, BR50, BR60, BR80, VM15, VM16, VM20, VM22, VM25, VM30, VMC15, VMC16, VMC20, VMC25, VMC30, MM18	RH20, RH30, RH33, RH35, BR50, BR60, BR80, VM16, VM20, VM22, VM25, VM30, VMC16, VMC20, VMC25, VMC30, TT24, TT40, HMC20, HMC35		RB4M-0002	RK31113A	PT-444-60	B40-6000



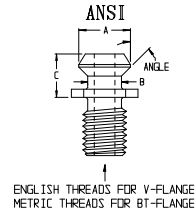
NOTE: STANDARD RETENTION KNOBS FOR 40 TAPER SPINDLES WITH CTS

ANSI RETENTION KNOBS STYLE CT-FLANGE 40 TAPER

ASSEMBLY SELECTION	DIMENSIONS				MILLTRONICS		MACHINE	COMMAND PART No.	KENNAMETAL PART No.	VALENITE PART No.	LYNDEX PART No.
	A	B	C	ANGLE	60mm SPINDLE	70mm SPINDLE					
4836	.74	.49	.64	45°	SELECTION NOT AVAILABLE	RH20, RH30, RH33, RH35, BR50, BR60, BR80, VM16, VM20, VM22, VM25, VM30, VMC16, VMC20, VMC25, VMC30, TT24, TT40, HMC20, HMC35		RC4E-0001	RK11122	PT-475C	C40-STD

ANSI RETENTION KNOBS STYLE BT-FLANGE 40 TAPER

ASSEMBLY SELECTION	DIMENSIONS				MILLTRONICS		MACHINE	COMMAND PART No.	KENNAMETAL PART No.	VALENITE PART No.	LYNDEX PART No.
	A	B	C	ANGLE	60mm SPINDLE	70mm SPINDLE					
4837	.74	.49	.75	45°	SELECTION NOT AVAILABLE	RH20, RH30, RH33, RH35, BR50, BR60, BR80, VM16, VM20, VM22, VM25, VM30, VMC16, VMC20, VMC25, VMC30, TT24, TT40, HMC20, HMC35		RS4M-0115	RK11126A	N/A	B40-FADAL



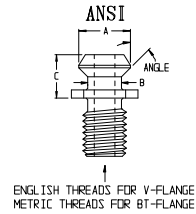
NOTE: STANDARD RETENTION KNOBS FOR 50 TAPER SPINDLES WITH OR WITHOUT CTS

ANSI RETENTION KNOBS STYLE CT-FLANGE 50 TAPER

ASSEMBLY SELECTION	DIMENSIONS				MILLTRONICS		MACHINE	COMMAND PART No.	KENNAMETAL PART No.	VALENITE PART No.	LYNDEX PART No.
	A	B	C	ANGLE	60mm SPINDLE	70mm SPINDLE					
N/A	1.14	.83	1.00	45°		VM25XP, VM30XP, RH33XP, RH35XP, HM70, HMC70		RC6E-0001	DWG RK11144	N/A	C50-STD

ANSI RETENTION KNOBS STYLE BT-FLANGE 50 TAPER

ASSEMBLY SELECTION	DIMENSIONS				MILLTRONICS		MACHINE	COMMAND PART No.	KENNAMETAL PART No.	VALENITE PART No.	LYNDEX PART No.
	A	B	C	ANGLE	60mm SPINDLE	70mm SPINDLE					
N/A	1.14	.83	1.00	45°		VM25XP, VM30XP, RH33XP, RH35XP, HM70, HMC70		RS6M-0105	DWG RK11144A	N/A	N/A



NOTE: OPTIONAL RETENTION KNOBS FOR 40 TAPER SPINDLES

MAS RETENTION KNOBS STYLE CT-FLANGE 40 TAPER

ASSEMBLY SELECTION	DIMENSIONS				MILLTRONICS		MACHINE	COMMAND PART No.	KENNAMETAL PART No.	VALENITE PART No.	LYNDEX PART No.
	A	B	C	ANGLE	60mm SPINDLE	70mm SPINDLE					
4831	.59	.39	1.27	45°	SELECTION NOT AVAILABLE	RH20, RH30, RH33, RH35, BR50, BR60, BR80, VM16, VM20, VM22, VM25, VM30, VMC16, VMC20, VMC25, VMC30, TT24, TT40, HMC20, HMC35		RB4E-0001	RK31114	PT-532-45	C40-4500

MAS RETENTION KNOBS STYLE BT-FLANGE 40 TAPER

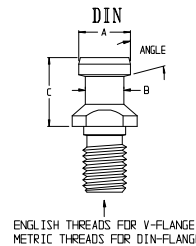
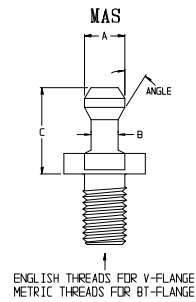
ASSEMBLY SELECTION	DIMENSIONS				MILLTRONICS		MACHINE	COMMAND PART No.	KENNAMETAL PART No.	VALENITE PART No.	LYNDEX PART No.
	A	B	C	ANGLE	60mm SPINDLE	70mm SPINDLE					
4832	.59	.39	1.38	45°	SELECTION NOT AVAILABLE	RH20, RH30, RH33, RH35, BR50, BR60, BR80, VM16, VM20, VM22, VM25, VM30, VMC16, VMC20, VMC25, VMC30, TT24, TT40, HMC20, HMC35		RB4M-0001	RK31113	PT-444-45	B40-4500

DIN 69872 RETENTION KNOBS STYLE CT-FLANGE 40 TAPER

ASSEMBLY SELECTION	DIMENSIONS				MILLTRONICS		MACHINE	COMMAND PART No.	KENNAMETAL PART No.	VALENITE PART No.	LYNDEX PART No.
	A	B	C	ANGLE	60mm SPINDLE	70mm SPINDLE					
4838	.75	.55	1.02	75°	SELECTION NOT AVAILABLE	RH20, RH30, RH33, RH35, BR50, BR60, BR80, VM16, VM20, VM22, VM25, VM30, VMC16, VMC20, VMC25, VMC30, TT24, TT40, HMC20, HMC35		RS4E-0114-C	DWG RK71125	N/A	C40-1500

DIN 69872 RETENTION KNOBS STYLE DIN-FLANGE 40 TAPER

ASSEMBLY SELECTION	DIMENSIONS				MILLTRONICS		MACHINE	COMMAND PART No.	KENNAMETAL PART No.	VALENITE PART No.	LYNDEX PART No.
	A	B	C	ANGLE	60mm SPINDLE	70mm SPINDLE					
4839	.75	.55	1.02	75°	SELECTION NOT AVAILABLE	RH20, RH30, RH33, RH35, BR50, BR60, BR80, VM16, VM20, VM22, VM25, VM30, VMC16, VMC20, VMC25, VMC30, TT24, TT40, HMC20, HMC35		RS4M-0114-C	DWG RK71124	N/A	B40-1500



- FOR SPINDLES OF 8000 RPM AND GREATER YOU MUST USE BALANCED TOOLING TO A G2.5 SPEC. OR IT WILL VOID THE SPINDLE WARRANTY.
- CHART IS GOOD FOR ALL MACHINE VERSIONS LISTED FROM ECO DATE REV. G IN THIS DRAWING

G	ADD MM18 AND MOVE HMC70 FRAMES TO 50 TAPER	6193	N.M.	10/06
F	ADD VMC, TT, AND HMC FRAMES	6175	N.M.	09/06
E	UPDATE CHART	5992	M.N.	08/05
D	ADD RH/RW12 & RH19	5146	N.M.	09/01
C	ADD RETENTION KNOBS TO CHART	4859	N.M.	12/00
B	CHANGE 70mm BT-FLANGE CHART	4730	N.M.	10/00
A	ADD LYNDEX CORP. IN CHART	4351	N.M.	1/00
REV.	DESCRIPTION	E.C.O. NO.	APP'D BY	DATE
		TITLE: RETENTION KNOB CHART APPLICATION: GENERAL PRODUCTS		SCALE: 1.75:1 DWG No. 6-11-018-054 DATE: 30 APR 99 DRAWN BY: DAHLKE
				SIZE: B SHEET NO. 1 OF 1