

CANCELLING AND
SUPERSEDING ALL
PREVIOUS PRICE LISTS

VANDYCK CHURCHILL CO.
MACHINE TOOLS
280 MIDLAND AVE., SADDLE BROOK, N. J. 07663
201 791-5850

PRICES F. O. B.
SPRINGFIELD, MASS.

PRICE LIST

SUBJECT TO CHANGE WITHOUT NOTICE

ATTACHMENTS

ARBORS

ACCESSORIES

FOR

Van Norman Milling Machines

September 1, 1966



VAN NORMAN MACHINE COMPANY

A DIVISION OF **UNIVERSAL**  **AMERICAN CORPORATION**

SPRINGFIELD, MASSACHUSETTS 01107, U. S. A.

It is the wish and desire of VAN NORMAN to give the best possible service and to assist you in any way we can to insure that your selection of the equipment described in this price list will fit the machine for which it is intended.

We can only do this if the MODEL, SERIAL NUMBER and SPINDLE TAPER of the machine is included in any correspondence, request for quotation or order.

If there is any question regarding positive machine identification, we ask you to contact our distributor in your area or VAN NORMAN.

INDEX

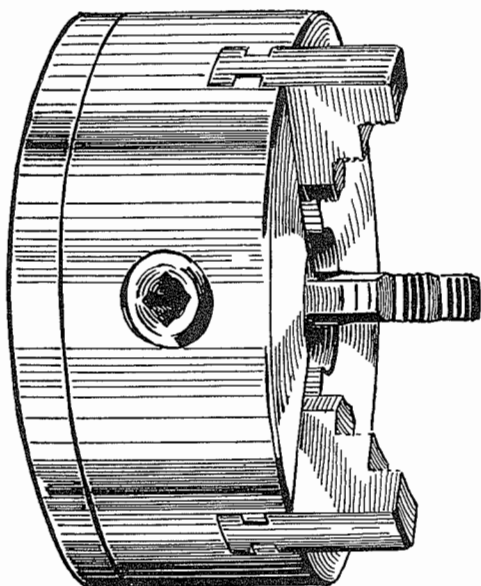
	<i>Page</i>
ATTACHMENTS, ACCESSORIES.....	1
CHUCKS FOR VAN NORMAN DIVIDING HEADS.....	2
ARBORS — STYLE "A".....	3
ARBORS — STYLE "B".....	4
ARBORS — STYLE "C".....	5
END MILL HOLDERS.....	5
ADAPTORS.....	6
COLLETS.....	7
ARBOR BEARINGS.....	7
DRAW-IN BARS.....	8
DRAW-IN TUBES.....	9
QUICK CHANGE TOOLING.....	10-13

ATTACHMENTS AND ACCESSORIES

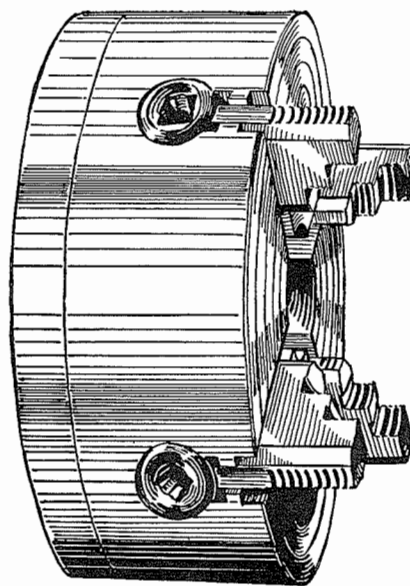
Bulletin No.		Price
100	10" Vertical Swivel Dividing Head.....	\$1575.00
100A	Enclosed Gear Drive for above Dividing Head.....	430.00
200	10" Horizontal Swivel Dividing Head.....	1345.00
100A	Enclosed Gear Drive for above Dividing Head.....	335.00
300	7½" Horizontal Swivel Dividing Head.....	665.00
400	Universal Subhead for No. 16, and 1R Series.....	630.00
	Universal Subhead for Nos. 24, 28, 38, 2R and 3R Series.....	695.00
400A	Heavy Duty Subhead No. 50 Taper for 24, 28, 38, 2R and 3R Series.....	1260.00
500	Gear Type High Speed Attachment for 24, 28, 38, 2R and 3R Series.....	520.00
600	Boring and Drilling Attachment for 24, 28, 38, 2R and 3R Series.....	485.00
700	Universal High Speed Attachment for Nos. 16L, 16M, 24, 28, 38, 1R3, 2R and 3R Series.....	1155.00
800	Universal Slotting Attachment for No. 16S and 1RQ.....	495.00
	Universal Slotting Attachment for Nos. 12, 16, 16L, 16M and 1R.....	460.00
	Universal Slotting Attachment for Nos. 24, 28, 38, 2R and 3R Series.....	705.00
	Part No. 25820 — Set of ⅝" Dia. Shank Slotting Tools.....	90.00
900	8" Rotary Table.....	515.00
	12" Rotary Table.....	850.00
1000	5" Plain Vise.....	205.00
	5" Swivel Vise.....	260.00
	7" Plain Vise.....	305.00
	7" Swivel Vise.....	395.00
1100	Gauge Block, Optical and Plain Vernier Attachments: Prices listed are for Standard Model Tables. For Special Size Tables — Contact Factory.	
	Gauge Block — Longitudinal { No. 16 and 1R Series.....	395.00
	{ No. 24 and 2R Series.....	420.00
	{ No. 36, 38 and 3R Series.....	445.00
	Gauge Block — Cross-Feed { No. 16 and 1R Series.....	395.00
	{ No. 24 and 2R Series.....	420.00
	{ No. 36, 38 and 3R Series.....	445.00
	Gauge Block — Vertical { No. 16 and 1R Series.....	395.00
	{ No. 24 and 2R Series.....	395.00
	{ No. 36, 38 and 3R Series.....	395.00
	Optical Vernier — Longitudinal { No. 16 and 1R Series.....	735.00
	{ No. 24 and 2R Series.....	930.00
	{ No. 36, 38 and 3R Series.....	945.00
	Optical Vernier — Cross-Feed { No. 16 and 1R Series.....	705.00
	{ No. 24 and 2R Series.....	770.00
	{ No. 36, 38 and 3R Series.....	790.00
	For Direct-Reading Optical Verniers — Contact Factory.	
	Plain Vernier — Longitudinal { No. 16 and 1R Series.....	275.00
	{ No. 24 and 2R Series.....	285.00
	{ No. 36, 38 and 3R Series.....	300.00
	Plain Vernier — Cross-Feed { No. 16 and 1R Series.....	235.00
	{ No. 24 and 2R Series.....	305.00
	{ No. 36, 38 and 3R Series.....	340.00
	Plain Vernier — Vertical { No. 16 and 1R Series.....	230.00
	{ No. 24 and 2R Series.....	230.00
	{ No. 36, 38 and 3R Series.....	235.00
1200	Offset Boring Head for Van Norman "C" Style Spindle.....	135.00
	Offset Boring Head for #30 National Taper Spindle.....	170.00
	Offset Boring Head for #40 National Taper Spindle.....	170.00
	Offset Boring Head for #50 National Taper Spindle (Craley #0).....	195.00

Bulletins covering the above may be readily obtained from the Van Norman distributor in your area or from the factory.

CHUCKS FOR VAN NORMAN DIVIDING HEADS



3 Jaw Universal Chuck



4 Jaw Independent Chuck

CHUCK DESCRIPTION	7½" Horizontal Swivel Dividing Head†	10" Horizontal Swivel Dividing Head‡	10" Vertical Swivel Dividing Head
4⅜" Diameter Chuck, 3-Jaw Universal, with two sets of solid jaws, (#1 external and #2 internal), and adapter plate.	6-7226 \$190.00	26-71539 \$195.00	2-72278 \$200.00
4½" Diameter Chuck, 4-Jaw Independent, with four solid reversible jaws and adapter plate.	6-7227 \$165.00	Contact Factory for Avail.	2-72279 \$174.00
6⅜" Diameter Chuck, 3-Jaw Universal, with two piece jaws, tops reversible and adapter plate.	Not Available	26-71520 \$237.00	2-72277 \$242.00
6" Diameter Chuck, 4-Jaw Independent, with four solid reversible jaws and adapter plate.	Not Available	26-71538 \$185.00	2-72275 \$190.00
8¼" Diameter Chuck, 3-Jaw Universal, with two piece jaws, tops reversible and adapter plate.	Not Available	26-71541 \$305.00	2-72283 \$315.00
8¼" Diameter Chuck, 4-Jaw Independent, with four solid reversible jaws and adapter plate.	Not Available	26-71542 \$231.00	2-72280 \$237.00
8" Diameter Chuck, 3-Jaw Universal, with two piece jaws, tops reversible and direct mounting.	Not Available	Not Available	25625* \$378.00
8¼" Diameter Chuck, 4-Jaw Independent, with four solid reversible jaws and direct mounting.	Not Available	Not Available	25626* \$399.00

† Spindle Nose Thread — 1.875"-12

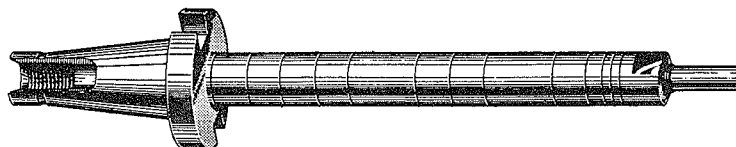
‡ Spindle Nose Thread — 2.256"-12

* Bolts directly on Spindle — No Adaptor Required

Extra Adaptor Plates may be purchased for the above chuck assemblies.

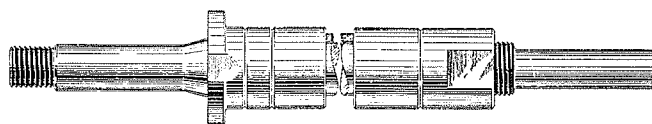
The 8" Diameter Chuck, 3-Jaw Universal, or the 8¼" Diameter Chuck, 4-Jaw Independent may also be mounted on machine spindles with a No. 50 National Standard Taper. A mounting adapter is used that is held into the spindle with the draw-in bar. For Adapter and Chuck, order Part No. 26-7729 and specify either 25625 or 25626 Chuck. This may be used on Van Norman 22L and 22M Series, 24L and 24M Series, 26 and 28 Series, 36 and 38 Series, 2R and 3R Series.

STYLE "A" ARBORS



VN Arbor Number	NMTBA Ident.	Taper	Diameter	Length Shoulder to Nut	Keyway		Thread Shank End	Pilot Diameter	Price
					Width	Depth			
20257	30 $\frac{7}{8}$ A8	30	$\frac{7}{8}$	8	$\frac{1}{8}$	$\frac{1}{16}$	$\frac{1}{2}$ -13	$\frac{23}{32}$	\$120.00
20258	31A8	30	1	8	$\frac{1}{4}$	$\frac{5}{32}$	$\frac{1}{2}$ -13	$\frac{23}{32}$	115.00
20524	31A10	30	1	10	$\frac{1}{4}$	$\frac{5}{32}$	$\frac{1}{2}$ -13	$\frac{23}{32}$	129.00
20259	31A12	30	1	12	$\frac{1}{4}$	$\frac{5}{32}$	$\frac{1}{2}$ -13	$\frac{23}{32}$	142.00
24441	40 $\frac{7}{8}$ A8	40	$\frac{7}{8}$	8	$\frac{1}{8}$	$\frac{1}{16}$	$\frac{5}{8}$ -11	$\frac{23}{32}$	114.00
24292	40 $\frac{7}{8}$ A10	40	$\frac{7}{8}$	10	$\frac{1}{8}$	$\frac{1}{16}$	$\frac{5}{8}$ -11	$\frac{23}{32}$	130.00
24442	40 $\frac{7}{8}$ A12	40	$\frac{7}{8}$	12	$\frac{1}{8}$	$\frac{1}{16}$	$\frac{5}{8}$ -11	$\frac{23}{32}$	188.00
24443	41A8	40	1	8	$\frac{1}{4}$	$\frac{5}{32}$	$\frac{5}{8}$ -11	$\frac{23}{32}$	116.00
24444	41A10	40	1	10	$\frac{1}{4}$	$\frac{5}{32}$	$\frac{5}{8}$ -11	$\frac{23}{32}$	125.00
24293	41A12	40	1	12	$\frac{1}{4}$	$\frac{5}{32}$	$\frac{5}{8}$ -11	$\frac{23}{32}$	151.00
24445	41 $\frac{1}{4}$ A8	40	$1\frac{1}{4}$	8	$\frac{5}{16}$	$\frac{3}{16}$	$\frac{5}{8}$ -11	$\frac{23}{32}$	151.00
24446	41 $\frac{1}{4}$ A10	40	$1\frac{1}{4}$	10	$\frac{5}{16}$	$\frac{3}{16}$	$\frac{5}{8}$ -11	$\frac{23}{32}$	137.00
24413	41 $\frac{1}{4}$ A12	40	$1\frac{1}{4}$	12	$\frac{5}{16}$	$\frac{3}{16}$	$\frac{5}{8}$ -11	$\frac{23}{32}$	151.00
24294	50 $\frac{7}{8}$ A10	50	$\frac{7}{8}$	10	$\frac{1}{8}$	$\frac{1}{16}$	1-8	$\frac{23}{32}$	134.00
24295	51A8	50	1	8	$\frac{1}{4}$	$\frac{5}{32}$	1-8	$\frac{23}{32}$	121.00
→ 24296	51A12	50	1	12	$\frac{1}{4}$	$\frac{5}{32}$	1-8	$\frac{23}{32}$	138.00 52.78
*24297	51A18	50	1	18	$\frac{1}{4}$	$\frac{5}{32}$	1-8	$\frac{23}{32}$	180.00
→ 24298	51 $\frac{1}{4}$ A12	50	$1\frac{1}{4}$	12	$\frac{5}{16}$	$\frac{3}{16}$	1-8	$\frac{23}{32}$	151.00 56.50
*24299	51 $\frac{1}{4}$ A18	50	$1\frac{1}{4}$	18	$\frac{5}{16}$	$\frac{3}{16}$	1-8	$\frac{23}{32}$	194.00

* One #4 Bearing $2\frac{1}{8}$ " diameter furnished.



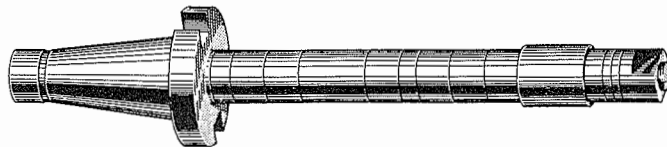
VN "C" Style Shank Arbor



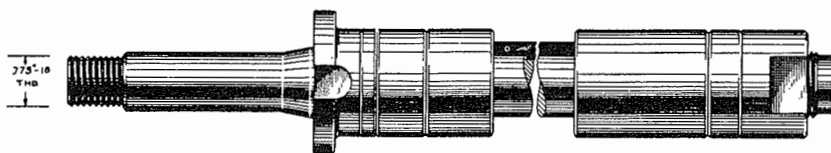
VN #2 Style Shank Arbor

VN Arbor Number	Taper	Diameter	Length Shoulder to Nut	Keyway		Thread Shank End	Pilot Diameter	Price
				Width	Depth			
16-1096	VN "C"	$\frac{7}{8}$	6	$\frac{1}{8}$	$\frac{1}{16}$	.775-18	$\frac{23}{32}$	\$63.00
16-1095	VN "C"	$\frac{7}{8}$	8	$\frac{1}{8}$	$\frac{1}{16}$	.775-18	$\frac{23}{32}$	70.00
16-1094	VN "C"	$\frac{7}{8}$	10	$\frac{1}{8}$	$\frac{1}{16}$	.775-18	$\frac{23}{32}$	80.00
16-1093	VN "C"	1	6	$\frac{1}{4}$	$\frac{5}{32}$	.775-18	$\frac{23}{32}$	81.00
16-1092	VN "C"	1	8	$\frac{1}{4}$	$\frac{5}{32}$	.775-18	$\frac{23}{32}$	102.00
16-1088	VN "C"	1	10	$\frac{1}{4}$	$\frac{5}{32}$	.775-18	$\frac{23}{32}$	118.00
16-1416	VN "C"	$1\frac{1}{4}$	6	$\frac{5}{16}$	$\frac{3}{16}$	.775-18	$\frac{23}{32}$	82.00
16-1423	VN "C"	$1\frac{1}{4}$	8	$\frac{5}{16}$	$\frac{3}{16}$	.775-18	$\frac{23}{32}$	90.00
16-1417	VN "C"	$1\frac{1}{4}$	10	$\frac{5}{16}$	$\frac{3}{16}$	.775-18	$\frac{23}{32}$	90.00
20-517	VN #2	$\frac{7}{8}$	7	None	None	$\frac{3}{4}$ -16	$\frac{11}{16}$	63.00
112-690	VN #2	1	$3\frac{1}{2}$	$\frac{1}{4}$	$\frac{5}{32}$	$\frac{3}{4}$ -16	$\frac{11}{16}$	58.00
112-478	VN #2	1	8	$\frac{1}{4}$	$\frac{5}{32}$	$\frac{3}{4}$ -16	$\frac{11}{16}$	76.00
112-666	VN #2	1	12	$\frac{1}{4}$	$\frac{5}{32}$	$\frac{3}{4}$ -16	$\frac{11}{16}$	89.00

STYLE "B" ARBORS



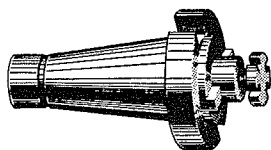
Arbor Number	Taper	Diameter	Length Shoulder to Nut	Keyway		Bearing Furnished	Bearing Diameter	Price
				Width	Depth			
24447	30	$\frac{7}{8}$	8	$\frac{1}{8}$	$\frac{1}{16}$	1-#3	$\frac{17}{8}$	\$144.00
24448	30	$\frac{7}{8}$	10	$\frac{1}{8}$	$\frac{1}{16}$	1-#3	$\frac{17}{8}$	151.00
24449	30	$\frac{7}{8}$	12	$\frac{1}{8}$	$\frac{1}{16}$	1-#3	$\frac{17}{8}$	168.00
24450	30	1	8	$\frac{1}{4}$	$\frac{5}{32}$	1-#3	$\frac{17}{8}$	135.00
24451	30	1	10	$\frac{1}{4}$	$\frac{5}{32}$	1-#3	$\frac{17}{8}$	144.00
24452	30	1	12	$\frac{1}{4}$	$\frac{5}{32}$	1-#3	$\frac{17}{8}$	157.00
24453	30	$1\frac{1}{4}$	12	$\frac{5}{16}$	$\frac{3}{16}$	1-#3	$\frac{17}{8}$	166.00
24454	40	$\frac{7}{8}$	3			None		105.00
24455	40	$\frac{7}{8}$	10	$\frac{1}{8}$	$\frac{1}{16}$	1-#3	$\frac{17}{8}$	155.00
24456	40	$\frac{7}{8}$	15	$\frac{1}{8}$	$\frac{1}{16}$	1-#3	$\frac{17}{8}$	151.00
24457	40	1	3	$\frac{1}{4}$	$\frac{5}{32}$	None		79.00
24458	40	1	10	$\frac{1}{4}$	$\frac{5}{32}$	1-#3	$\frac{17}{8}$	115.00
24300	40	1	15	$\frac{1}{4}$	$\frac{5}{32}$	1-#3	$\frac{17}{8}$	140.00
24459	40	$1\frac{1}{4}$	3	$\frac{5}{16}$	$\frac{3}{16}$	None		79.00
24460	40	$1\frac{1}{4}$	10	$\frac{5}{16}$	$\frac{3}{16}$	1-#3	$\frac{17}{8}$	115.00
24461	40	$1\frac{1}{4}$	15	$\frac{5}{16}$	$\frac{3}{16}$	1-#3	$\frac{17}{8}$	140.00
24301	50	1	$3\frac{1}{2}$	$\frac{1}{4}$	$\frac{5}{32}$	None		84.00
24302	50	1	15	$\frac{1}{4}$	$\frac{5}{32}$	1-#4	$\frac{21}{8}$	142.00
24303	50	1	18	$\frac{1}{4}$	$\frac{5}{32}$	1-#4	$\frac{21}{8}$	160.00
24462	50	$1\frac{1}{4}$	$3\frac{1}{2}$	$\frac{5}{16}$	$\frac{3}{16}$	None	None	90.00
24304	50	$1\frac{1}{4}$	18	$\frac{5}{16}$	$\frac{3}{16}$	1-#4	$\frac{21}{8}$	173.00
24305	50	$1\frac{1}{4}$	24	$\frac{5}{16}$	$\frac{3}{16}$	1-#4	$\frac{21}{8}$	216.00
24306	50	$1\frac{1}{2}$	18	$\frac{5}{16}$	$\frac{3}{16}$	1-#4	$\frac{21}{8}$	188.00
24307	50	$1\frac{1}{2}$	24	$\frac{5}{16}$	$\frac{3}{16}$	2-#4	$\frac{21}{8}$	229.00



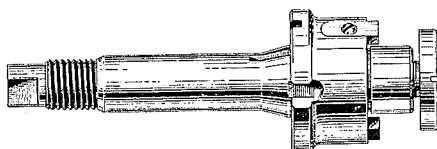
Arbor Number	Taper	Diameter	Length Shoulder to Nut	Keyway		Price
				Width	Depth	
6-151	VN "C"	$\frac{7}{8}$	$3\frac{1}{2}$	None	None	\$65.00
6-158	VN "C"	$\frac{7}{8}$	$6\frac{1}{2}$	None	None	65.00
6-160	VN "C"	$\frac{7}{8}$	12	None	None	86.00
12-771	VN "C"	1	$3\frac{1}{2}$	$\frac{1}{4}$	$\frac{5}{32}$	65.00
12-773	VN "C"	1	6	$\frac{1}{4}$	$\frac{5}{32}$	74.00
12-774	VN "C"	1	12	$\frac{1}{4}$	$\frac{5}{32}$	101.00

ARBORS AND END MILL HOLDERS

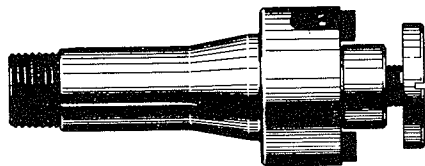
STYLE "C" ARBORS



Arbor Number	Spindle Taper	Diameter	Length	Price
20260	30	1/2	9/16	\$46.00
20261	30	3/4	11/16	46.00
20262	30	1	11/16	46.00
24463	40	3/4	11/16	53.00
24464	40	1	11/16	52.00
24465	40	1 1/4	11/16	52.00
24466	40	1 1/2	15/16	60.00
24467	50	3/4	11/16	75.00
→ 24468	50	1	11/16	75.00 35.25
→ 24469	50	1 1/4	11/16	75.00 38.00
24470	50	1 1/2	15/16	75.00
24471	50	2	15/16	75.00



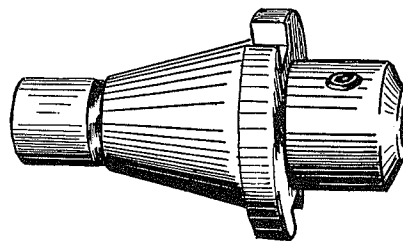
VN "C" Style Shank



VN #2 Style Shank

12-801	VN "C"	1/2	9/16	42.00
12-800	VN "C"	3/4	11/16	40.00
12-799	VN "C"	1	11/16	38.00
20-634	VN #2	1/2	9/16	39.00
20-635	VN #2	3/4	11/16	31.00
112-721	VN #2	1	11/16	37.00
112-820	VN #2	1 1/4	11/16	37.00
112-812	VN #2	1 1/2	15/16	42.00

END MILL HOLDERS



Number	Arbor Taper	Diameter	Price
20263	30	3/16	\$28.00
20264	30	3/8	23.00
20265	30	1/2	23.00
20266	30	5/8	23.00
20267	30	3/4	26.00
20966	30	7/8 (Spec.)	104.00
20967	30	1 (Spec.)	104.00
24472	40	3/16	34.00
24473	40	3/8	32.00
24474	40	1/2	32.00
24475	40	5/8	32.00
24476	40	3/4	32.00
24477	40	7/8	36.00
24478	40	1	37.00
24479	40	1 1/4	40.00
24480	50	3/16	62.00
24481	50	3/8	52.00
24482	50	1/2	49.00
24483	50	5/8	48.00
24484	50	3/4	48.00
24485	50	7/8	53.00
24486	50	1	53.00
24487	50	1 1/4	53.00
24488	50	2	93.00

ADAPTORS

COLLET ADAPTORS

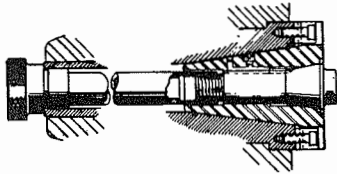


Fig. 1

Bolted Type Collet Adaptor for Ram Type Milling Machines using a No. 50 Taper Spindle. Van Norman Model Nos. 24 Series, 28 Series, 38 Series. Collets held in place with draw-in tube.

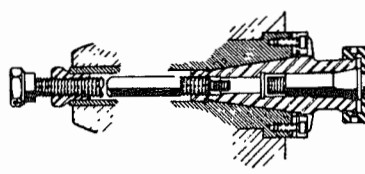


Fig. 2

This type Collet Adapter is recommended for horizontal column type models with a No. 50 Taper Spindle, Van Norman Model Nos. 2 Light, 2 Medium, 2 Heavy and 3 Standard. Adapter is held in with draw-in-bar and front closure nut holds collets in place.

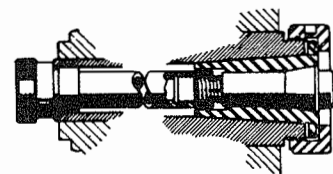


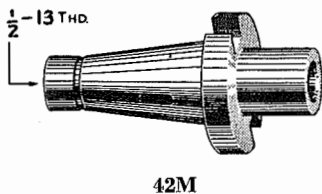
Fig. 3

This Collet Adaptor is for No. 13 Brown & Sharpe Taper Spindle Noses. Adapter is held in with closure nut and draw-in-tube holds collets in place.

Machine Type and Model	Machine Spindle Taper	Adaptor Taper	Figure Number	Adaptor Part No.	Price
Ram — 16S, 1RQ-3	#30 Nat.	#7 B&S	1	20268	\$80.00
Ram — 16M-L, IR-3	#40 Nat.	#7 B&S	1	24335	80.00
Ram — 16M-L, IR-3	#40 Nat.	VN "C"	1	16-467	80.00
Ram — 16M-L, IR-3	#40 Nat.	Bridgeport-R-8	1	16-7472	80.00
Ram — 22L-M	#13 B&S	VN #2	3	22L-140	65.00
Ram — 22L, 24, 26, 36, 38, 2R and 3R Series	#50 Nat.	VN #2	1	26-1751	61.00
All Horizontals	#50 Nat.	VN #2	2	26-1735	86.00

TAPER ADAPTORS

Use to adapt #30, #40, or #50 Taper Spindles for Arbors, Drills, Reamers, End Mills and Collets with Brown & Sharpe or Morse Taper Shanks.



Part No.	Outside Taper	Inside Taper	Drive	Price
25530*	30	#7 B&S	Tang	\$81.00
25528*	30	#2 Morse	Tang	79.00
25529*	30	#3 Morse	Tang	82.00
21286†	30	#3 Jacobs	—	42.00
42M	40	#2 Morse	Tang	46.00
43M	40	#3 Morse	Tang	58.00
47B	40	#7 B&S	Tang	52.00
49B	40	#9 B&S	Tang	52.00
53M	50	#3 Morse	Tang	69.00
54M	50	#4 Morse	Tang	65.00
57B	50	#7 B&S	Tang	64.00
59B	50	#9 B&S	Tang	67.00
510B	50	#10 B&S	Tang	69.00

* Require a Special Draw-Bar #16-738 — \$30.00.

† This is a Male Taper Jacobs Chuck Adaptor.

COLLETS AND ARBOR BEARINGS

SPLIT COLLETS



#7 Brown & Sharpe



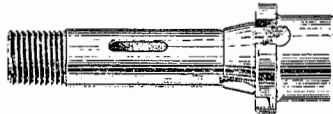
VN "C" Style Shank



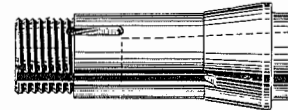
VN #2 Style Shank

#7 Brown & Sharpe Split Collets available in sizes 1/8" to 1/2" inclusive, by 1/16" increments	each	\$13.65
Van Norman "C" Style Shank Split Collets available in sizes 1/16" to 5/8" inclusive, by 1/64" increments	each	13.65
Van Norman #2 Style Shank Split Collets available in sizes 1/16" to 7/8" inclusive, by 1/32" increments	each	14.75

TAPER COLLETS



VN "C" Style Shank



VN #2 Style Shank

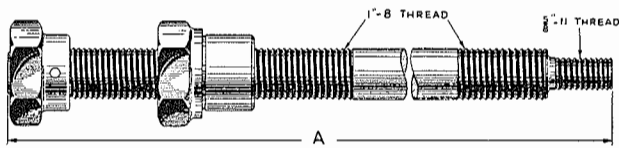
To use End Mills, Drills and Reamers with Brown & Sharpe or Morse Taper Shanks.

Part No.	Outside Taper	Inside Taper	Drive	Price
C-361	VN "C"	#5 B & S	No Tang	\$21.00
12-757	VN "C"	#7 B & S	Tang	37.00
C-413	VN "C"	#1 Morse	No Tang	23.00
12-779	VN "C"	#2 Morse	Tang	37.00
2-2092	VN #2	#5 B & S	No Tang	32.00
2-2091	VN #2	#7 B & S	Tang	36.00
2-2093	VN #2	#1 Morse	No Tang	30.00
2-2094	VN #2	#2 Morse	Tang	36.00

ARBOR BEARINGS

Part Number	Standard Bearing Number	Use With Machine Model	Outside Diameter	Inside Diameter	Length	Price
20978	3	16M	17/8	7/8	31/4	\$24.00
20979	3	and	17/8	1	31/4	19.00
21074	3	IR Series	17/8	11/4	31/4	19.00
20-656	4	24, 26, 36,	21/8	7/8	31/2	24.00
51 B 101	4	28, 38, 2R	21/8	1	33/4	19.00
51 1/4 B 251	4	and	21/8	11/4	33/4	19.00
51 1/2 B 501	4	3R Series	21/8	11/2	33/4	19.00

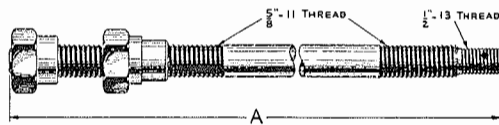
DRAW-IN BARS FOR VAN NORMAN MILLERS



FOR No. 50 TAPER SPINDLES

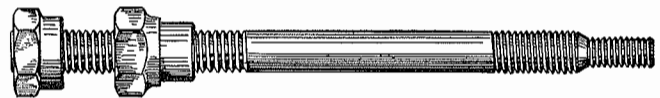
Part Number	Use	Length A	Price
26-718	Nos. 22 Series, 24 Series, 26, 28 Series, 36, 38 Series and 2R Series	15"	\$34.00
2L-182	Nos. 2 Light, 2L.....	18 ³ / ₄ "	48.00
2-139	Nos. 2 Medium, 2S.....	21 ¹ / ₂ "	48.00
2-515	Nos. 2 Heavy, 3 Standard.....	29 ¹³ / ₁₆ "	48.00
3-140	No. 3S.....	25 ¹ / ₄ "	42.00
36V-718	No. 3V.....	25 ⁷ / ₈ "	48.00
2L-1912	Vertical Milling Attachment — All models.....	12"	31.00

FOR No. 40 TAPER SPINDLES



Part No.	Use	Length A	Price
2M-324	Handmill.....	16 ¹ / ₂ "	\$32.00
22-1143	Nos. 22 Series.....	15 ¹ / ₂ "	34.00
2M-687	Handmill Vert. Att. .	11 ⁵ / ₈ "	32.00
16-1418	Model IR.....	13 ¹ / ₂ "	32.00

FOR No. 30 NMTBA TAPER SPINDLES



Part No.	Use	Length	Price
16-1185	16M	13 ⁷ / ₈ "	\$32.00
14-768	16S 1RQ and 2RQ	22 ¹ / ₄ "	32.00

FOR VAN NORMAN No. 2 TAPER SPINDLES



Fig. 1

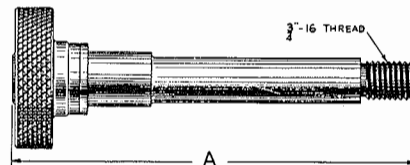


Fig. 2

Part No.	Use	Fig. No.	Length A	Price
26-1910	Universal Subhead Attachment — Nos. 22 Series, 24 Series, 26, 28 Series, 36, 38 Series.....	1	11 ⁹ / ₁₆ "	\$34.00
26-1518	10" Horizontal Swivel Dividing Head Attachment — Nos. 22 Series, 24 Series, 26, 28 Series, 36, 38 Series	2	7 ⁷ / ₈ "	32.00

DRAW-IN BARS FOR VAN NORMAN MILLERS

DRAW-IN TUBES FOR VAN NORMAN MILLERS

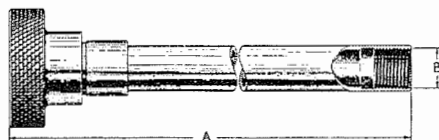


Fig. 1



Fig. 2

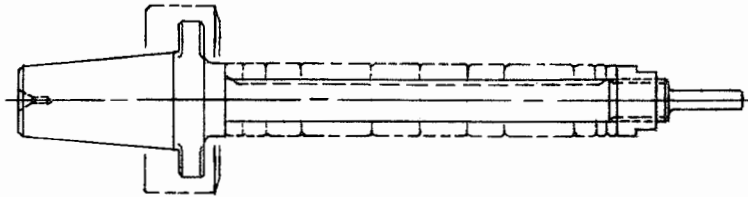
Part No.	Thread "B"	Use	Fig. No.	Length "A"	Price
26-1752	1.130-24	For 50 N.S. Taper Spindles — All Models	1	15 $\frac{1}{16}$ "	\$29.00
26-1754	.780-18	For 50 N.S. Taper Spindles — Models 22 Series, 24 Series, 26, 28 Series, 36, 38 Series — when using Style "C" Collets	Similar to 1	15 $\frac{1}{8}$ "	34.00
22L-141	1.130-24	For No. 13 B & S Taper Spindles — Model Nos. 22L, 22M — Manufactured prior to Sept. 1947.....	1	14 $\frac{1}{16}$ "	31.00
2-2081	1.130-24	10" Vertical Dividing Head Attachment — All Models.....	1	7 $\frac{1}{2}$ "	21.00
2-2195	.780-10	10" Vertical Dividing Head Attachment when using Style "C" Collets.....	Similar to 1	7"	32.00
J-486	.780-18	7 $\frac{1}{2}$ " Dividing Head Attachment—Model Nos. 6, 12, 16, 16L, 16M.....	1	6 $\frac{5}{8}$ "	21.00
12-793	.780-18	10" Horizontal Swivel Dividing Head Attachment — Model Nos. 6, 12, 16.....	1	7 $\frac{3}{4}$ "	21.00
12-542	.780-18	Nos. 6, 12 up to and including Serial No. 8985.....	Similar to 2	11 $\frac{7}{16}$ "	21.00
22-974	.780-18	Gear Type High Speed Attachment — All Models.....	Similar to 2	5 $\frac{5}{16}$ "	19.00
16-1087	.780-18	No. 16, 12 after Serial No. 8985.....	2	12 $\frac{1}{8}$ "	29.00
14-658	.780-18	Nos. 16L-16M "C" Style.....	2	13 $\frac{7}{16}$ "	29.00
14-680	.780-18	No. 16S, 1RQ and 2RQ with "C" Style Spindle.....	2	19 $\frac{1}{4}$ "	27.00
16-468	.780-18	No. 1R using "C" Style Collet Adaptor..	2	13 $\frac{7}{8}$ "	27.00

PRICE SUPPLEMENT

QUICK CHANGE TOOLING

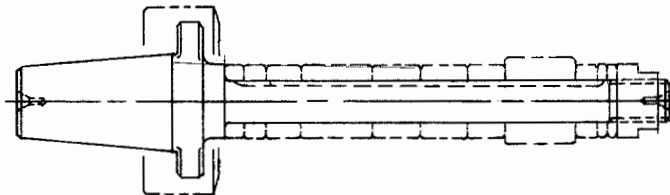
ARBORS

STYLE "A" ARBORS



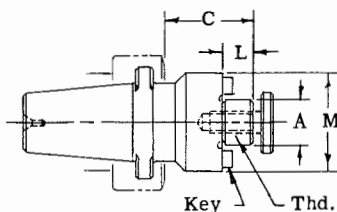
VN Arbor Number	Universal Taper	Diameter	Length Shoulder to Nut	Keyway		Pilot Diameter	Price
				Width	Depth		
26600	30	7/8	8	1/8	1/16	23/32	\$242.00
26601	30	7/8	10	1/8	1/16	23/32	247.00
26602	30	7/8	12	1/8	1/16	23/32	253.00
26603	30	1	8	1/4	5/32	23/32	232.00
26604	30	1	10	1/4	5/32	23/32	240.00
26605	30	1	12	1/4	5/32	23/32	246.00
26606	30	1	15	1/4	5/32	23/32	271.00
26607	30	1 1/4	8	3/16	5/16	23/32	242.00
26608	30	1 1/4	10	3/16	5/16	23/32	245.00
26609	30	1 1/4	12	3/16	5/16	23/32	250.00
26610	30	1	15	3/16	5/16	23/32	300.00
26611	30	1	18	3/16	5/16	23/32	328.00

STYLE "B" ARBORS



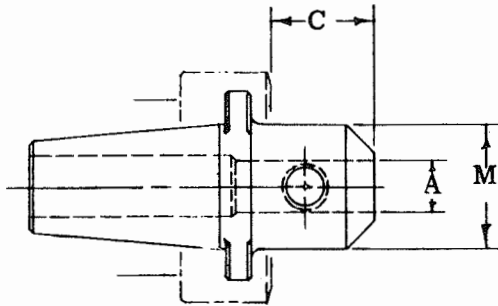
Arbor Number	Universal Taper	Diameter	Length Shoulder to Nut	Keyway		Bearing Furnished	Bearing Diameter	Price
				Width	Depth			
26612	30	7/8	3	1/8	1/16	None		\$164.00
26613	30	7/8	10	1/8	1/16	1-#3	1 7/8	209.00
26614	30	7/8	15	1/8	1/16	1-#3	1 7/8	237.00
26615	30	1	3	1/4	5/32	None		155.00
26616	30	1	10	1/4	5/32	1-#3	1 7/8	200.00
26617	30	1	15	1/4	5/32	1-#3	1 7/8	226.00
26618	30	1 1/4	3	5/16	3/16	None		170.00
26619	30	1 1/4	10	5/16	3/16	1-#3	1 7/8	218.00
26620	30	1 1/4	15	5/16	3/16	1-#3	1 7/8	245.00
26621	30	1 1/4	18	5/16	3/16	1-#3	1 7/8	271.00

STYLE "C" ARBORS



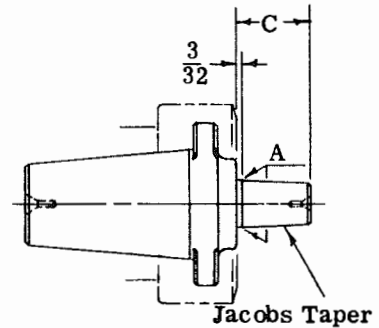
Arbor Number	Universal Spindle Taper	Diameter	Length	Price
26517	30	3/4	1 1/16	\$65.00
26518	30	1	1 1/16	65.00
26519	30	1 1/4	1 1/16	65.00

END MILL HOLDERS



Number	Universal Arbor Taper	Diameter	Price
26511	30	.375	\$47.00
26512	30	.500	47.00
26513	30	.625	52.00
26514	30	.750	52.00
26515	30	.875	56.00
26516	30	1.000	60.00

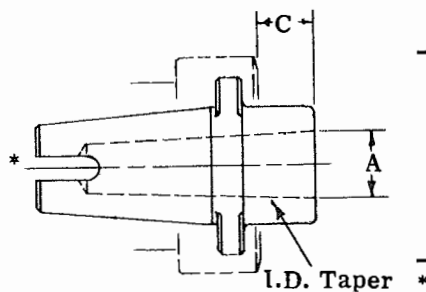
JACOBS TAPER ADAPTORS



Part Number	Universal Taper	Jacobs Taper	A	C	Price
26590	30	2	.559	7/8	\$33.00
26591	30	3	.811	17/32	33.00
26592	30	4	1.124	121/32	33.00
26593	30	6	.676	1	33.00
26594	30	33	.624	1	33.00

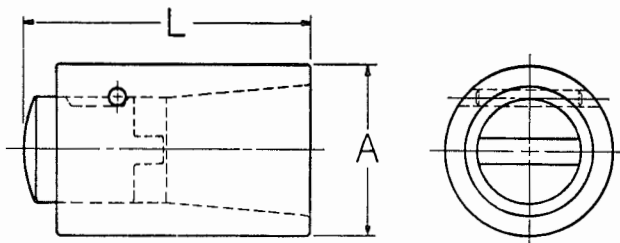
TAPER ADAPTORS

Use to adapt Universal #30 Taper Spindles for Arbors, Drills, Reamers and End Mills with Brown & Sharpe or Morse Taper Shanks.



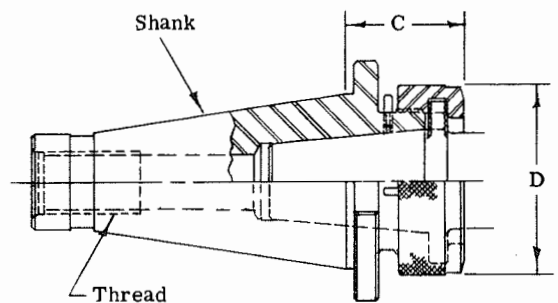
Part No.	Universal Outside Taper	Inside Taper	Drive	Price
26528	30	#1 Morse	Tang	\$38.00
26529	30	#2 Morse	Tang	39.00
26530*	30	#3 Morse	Tang	40.00
26531*	30	#4 Morse	Tang	42.00
26532*	30	#7 B&S	Tang	40.00
26533*	30	#9 B&S	Tang	42.00
26534*	30	#10 B&S	Tang	46.00

KNOCK-OUT DRIFT FOR TAPERED SOCKET ADAPTORS WITH OPEN END DRIFT SLOTS



Part Number	Adaptor Taper	A	L	Price
26535	30	2	3 1/2	\$21.00

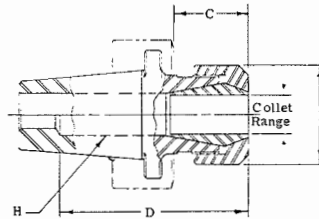
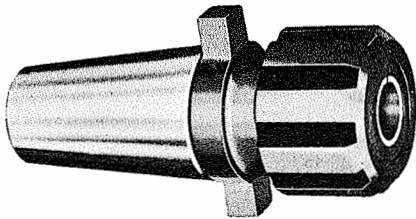
ADAPTORS — NMTBA TO UNIVERSAL



Part Number	NMTBA Taper	Universal I.D.	C	D	Thread	Price
26598	40	30	27/8	3	5/8-11	\$143.00
26599	50	30	115/16	3	1- 8	152.50

ADAPTORS, COLLETS

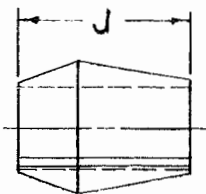
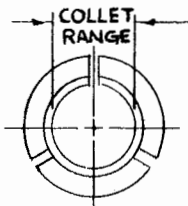
COLLET ADAPTORS



Adaptor Number	Quick Change Adaptor Size	Collet Range	Collet Type	C	D	F	H	Wrench* Required	Price
26536	30	1/8-3/8	WW	1 1/8	Hole Thru	1" Octagon	25/64	26587	\$46.00
26537	30	3/8-3/4	Z	1 3/8	Hole Thru	1 15/16" Spanner	25/32	26588	51.00
26538	30	3/8-1	ZZ	1 9/16	4 1/4	2 1/2" Spanner	1 1/32	26589	57.00

* Order Wrench Separately.

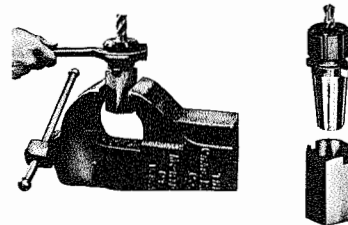
COLLETS



Collet Range	Type	J	Price
1/8-3/8	WW	3/4	\$4.35
3/8-3/4	Z	1 1/2	4.75
3/8-1	ZZ	2	7.15

Collets are available as standards for any number, letter, fractional drill sizes, or by 1/32" increments within collet range. Special hole size collets outside standard range on request. Order by type and size.

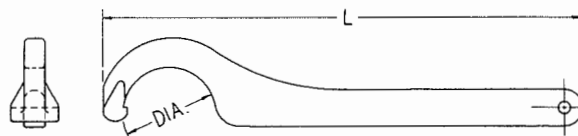
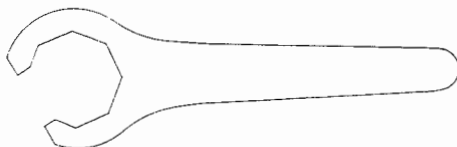
QUICK CHANGE ADAPTOR LOCKING FIXTURE



The Quick Change Adaptor Locking Fixture, when held in a vise, simplifies tool changing when using Collet Chuck or Shell Mill Adaptors.

Part Number	For Kwik-Switch Adaptor Size	Hex Size	Length	Price
26586	30	2 1/8	3	\$7.50

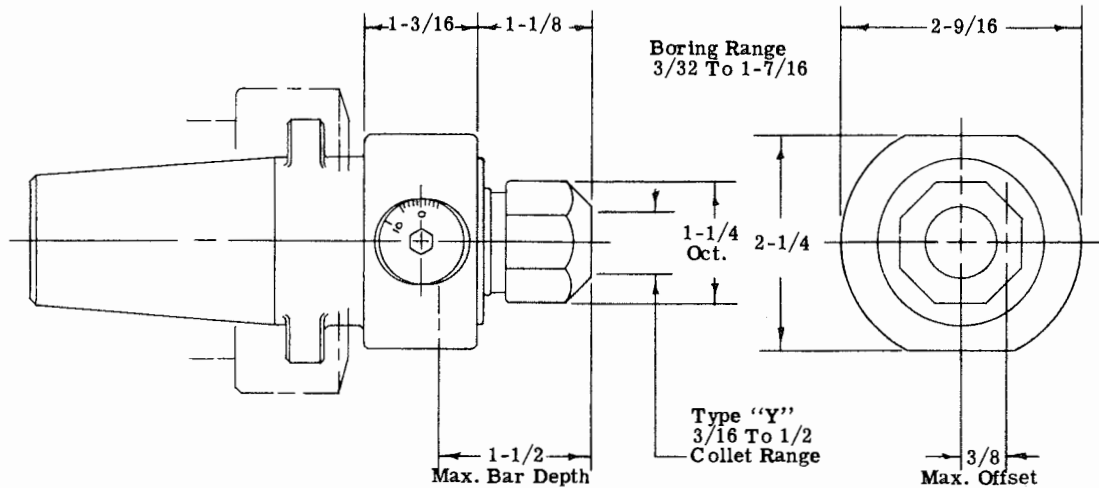
WRENCHES FOR OCTAGON AND SPANNER COLLET CHUCK NUTS



Wrench Number	Wrench Type	Nominal Opening	Diameter	For Collet Type	Price
26587	Octagon	1	—	WW	\$5.85
26588	Spanner	—	1 15/16	Z	5.00
26589	Spanner	—	2 1/2	ZZ	5.75

BORING CHUCKS, TOOLS

BORING CHUCK



Part Number	Universal Shank	Universal Type	Collet Type	Price
26595	30	OY	Y	\$189.00

2 Wrenches furnished with each Boring Chuck — 1 Collet Chuck Nut Wrench and 1 $\frac{3}{8}$ " Allen Wrench.
 $\frac{3}{8}$ " Collet — #27520.....\$4.20 $\frac{1}{2}$ " Collet — #27521.....\$4.20

UNIVERSAL BORING TOOLS

The style A or plain boring tool is designed to give maximum performance when through-boring holes.

The style B or facing and bottoming tool is backed off in a manner that makes it particularly suitable for machining blind holes, since it machines the bore and faces the bottom in the same operation.

BORING CHUCK SET

A convenient box for your boring chuck and tools will be furnished when a complete boring set is purchased. This set includes the boring chuck, one $\frac{3}{8}$ and one $\frac{1}{2}$ collet, and 8 sizes of both style A and style B tools. Prices quoted on request.

STYLE A

Internal
Boring Tools



STYLE B

Facing and
Bottoming Tools



STYLE A or B

STYLE A	8.50	7.50	7.50	7.50	7.75	8.25	11.75	17.00
STYLE B	9.75	8.50	8.50	8.50	9.75	11.00	13.00	19.00
Tool Number	0000	000	00	0	1	2	3	4
Shank Diameter	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{2}$
Minimum Boring Diameter	$\frac{3}{32}$	$\frac{1}{8}$	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{7}{16}$	$\frac{9}{16}$	$\frac{11}{16}$
Overall Length of Tool	2	2	2	$2\frac{3}{16}$	$2\frac{9}{16}$	$2\frac{3}{4}$	$3\frac{3}{8}$	$3\frac{1}{2}$
Maximum Boring Depth	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{3}{4}$	$2\frac{1}{4}$	$2\frac{3}{8}$

Set of Style "A" No. 26596 — \$75.00

Set of Style "B" No. 26597 — \$87.00

To order — Give Style and Number of Tool. Example: A-No. 000.



VAN NORMAN MACHINE COMPANY

A DIVISION OF **UNIVERSAL**  **AMERICAN CORPORATION**

SPRINGFIELD, MASSACHUSETTS 01107, U. S. A.