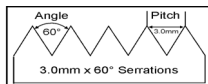
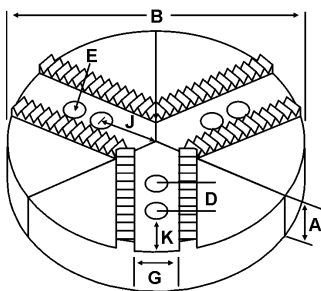


ROUND JAWS- 3.0 mm x 60° Serrations

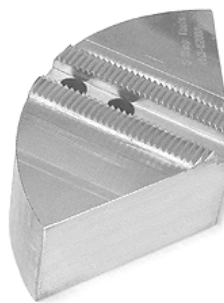
FOR USE ON: **MMK Matsumoto, Howa & Other Chucks**



Group



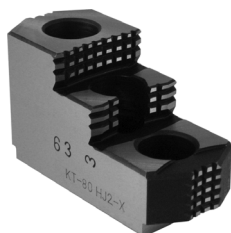
- **3.0mm x 60° serrations**
- Round Jaws allow for complete gripping of workpiece
- Oversized jaws available
- Ideal for thin-walled or irregular shaped workpieces.
- Can be machined to fit workpiece
- Max. length of serrations: 5.75"
- All jaws have 2 holes
- Special "J" dimensions available
- Available in Aluminum & Cast Iron
- **Made in the USA**



Group No.	Chuck Size	Critical Dimensions					Pie Dia B	Height Inch A	Industry Ref #	ALUMINUM		CAST IRON		STEEL	
		Groove Width G	Screw Size E	Hole Space D	Hole to Front J	Hole to Back K				Part Number	Price Set of 3	Part Number	Price Set of 3	Part Number	Price Set of 3
K3-12-20	6	0.472 (12mm)	10mm	0.787 (20mm)	1.375	6	2.00	-	RH3-6200A	\$83.92	RH3-6200CI	\$144.31	RH3-6200S	\$202.43	
							4.00	-	RH3-6400A	\$131.58	-	-	-	-	
K3-14-25	8	0.551 (14mm)	12mm	0.985 (25mm)	2.250	8	2.00	HOW8P	RH3-8200A	\$116.99	RH3-8200CI	\$185.53	RH3-8200S	\$294.45	
							4.00	HOW8P1	RH3-8400A	\$158.83	RH3-8400CI	\$350.44	-	-	
							2.00	-	10-RH3-8200A	\$165.73	-	-	-	-	
							2.00	-	12-RH3-8200A*	\$215.37	-	-	-	-	
K3-15-30	10	0.591 (15mm)	12mm	1.181 (30mm)	2.625	12	2.00	-	RH3-10204A	\$165.73	RH3-10204CI	\$278.30	-	-	
						10	4.00	-	RH3-10404A	\$255.63	-	-	-	-	
K3-16-30	10	0.630 (16mm)	12mm	1.181 (30mm)	2.375	10	2.00	-	RH3-10200A	\$146.68	RH3-10200CI	\$278.30	RH3-10200S	\$423.27	
						10	2.00	HOW10P	RH3-10200A4	\$146.68	-	-	-	-	
						10	4.00	-	RH3-10400A	\$227.62	-	-	-	-	
						10	4.00	HOW10P1	RH3-10400A4	\$227.62	-	-	-	-	
						10	5.00	-	RH3-10500A*	\$340.12	-	-	-	-	
						12	2.50	-	12-RH3-10250A*	\$267.98	-	-	-	-	
						12	4.00	-	12-RH3-10400A*	\$427.41	-	-	-	-	
						15	2.50	-	15-RH3-10250A*	\$494.11	-	-	-	-	
						15	4.00	-	15-RH3-10400A*	\$607.05	-	-	-	-	
						21	2.50	-	21-RH3-10250A*	\$890.80	-	-	-	-	
K3-18-30	12	0.709 (18mm)	14mm	1.181 (30mm)	2.875	12	2.00	HOW12P	RH3-12200A	\$215.37	RH3-12200CI	\$431.01	-	-	
						12	2.50	-	RH3-12250A	\$267.98	-	-	-	-	
						12	3.00	-	RH3-12300A	\$300.55	-	-	-	-	
						12	4.00	HOW12P1	RH3-12400A	\$372.23	-	-	-	-	
						12	5.00	-	RH3-12500A	\$476.58	-	-	-	-	
						15	2.50	-	15-RH3-12250A	\$494.11	-	-	-	-	
						15	3.00	HOW15-12P	15-RH3-12300A	\$516.17	-	-	-	-	
						18	3.00	HOW18-12P	18-RH3-12300A	\$710.55	-	-	-	-	

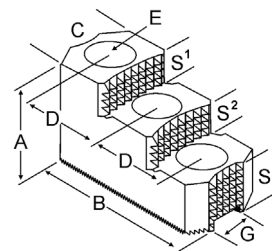
Round Jaw Material: ALUMINUM-6061-T6 Bar Stock, CAST IRON-Gray, STEEL-1018. 18" & Larger- Aluminum Casting T6
For complete list of applicable chucks, see pages 542-554. * denotes non-stock item. Please allow 1 week manufacturing time.

HARD JAWS-2 STEP 3.0mm x 60° Serrations



FEATURES:

- Designed for first operation roughing, expect standard runoff between **0.005-0.010**
- Reversible-suitable for OD & ID workholding.
- **XTRA BITE** - very aggressive bite. Has conical teeth for extra gripping power and ground body to provide improved runoff.
- 1 & 2 step jaws available.



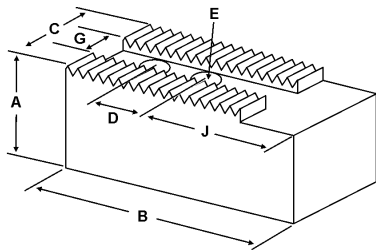
Group Number	Chuck Size	Critical Dimensions					OAL Inch B	Height Inch A	No. of Holes	No. of Steps	Top Step Ht S1	Mid Step Ht S2	Bot Step Ht S3	Part Number	Price Per Set
		Groove Width G	Screw Size E	Hole Space D	Width Inch C	Hole Space D									
K3-16-30	10	0.630 (16mm)	12mm	1.181 (30mm)	1.750	4.250	2.500	3	2	0.650	0.650	1.200	H3-100HJ2-X	\$700.25	
K3-18-30	12	0.710 (18mm)	14mm	1.181 (30mm)	1.750	4.875	2.469	3	2	0.650	0.650	1.169	H3-120HJ2-X	\$754.11	
	15-20	1.023 (26mm)	20mm	1.969 (50mm)	2.500	6.500	3.469	3	2	0.950	0.950	1.569	H3-150HJ2-X	\$897.75	

Call Us Today For All Of Your Machine Tool Needs!

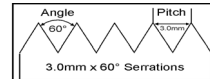
SOFT JAWS- 3.0 mm x 60° Serrations

C

FOR USE ON: **MMK Matsumoto, Howa & Other Chucks**



- 3.0mm x 60° serrations
- Supplies maximum concentricity on finish turning operations
- Can be bored or turned to fit workpiece
- Steel jaws can be hardened
- Available flat ended or pointed for smaller diameter parts
- Special orders available
- Available in Aluminum, Steel & Aircraft Aluminum (where noted)
- **Made in the USA**



QUANTITY DISCOUNTS!
Order **5 SETS OR MORE** of the same part number soft jaw and receive a **5% DISCOUNT!**

LATHE CHUCKS
LIVE CENTERS

VICE JAWS
VICE ACCESSORIES

STRAIGHT SHANK
COLLET HOLDERS

TAP HOLDERS
DRILL CHUCKS

CARBIDE INSERTS
THREADING/GROOVING

CUTTING TOOLS
MACHINERY

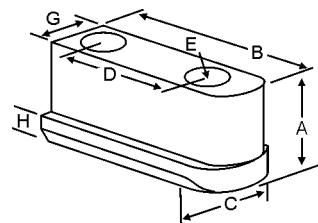
PRECISION TOOLS
DEBURRING

COOLANT/FLUIDS
TOOL STORAGE

Group No.	Chuck Size	Critical Dimensions				ALUMINUM					STEEL		
		Groove Width G	Screw Size E	Hole Space D	Hght Inch A	Hole to Front J	Width Inch C	Length Inch B	No. of Holes	FLAT END Part Number	Price Set Of 3	FLAT END Part Number	Price Set Of 3
K3-12-20 H-6,HA5-6 HO1MA6	6	0.472 (12mm)	10mm	0.787 (20mm)	1.50	1.375	1.250	2.750	2	H3-6150AF	\$45.40	H3-6150F	\$50.74
					2.50	1.375	1.250	2.750	2	H3-6250AF	\$62.67	H3-6250F	\$69.87
K3-14-25 HJ-08 HO1MA8	8	0.551 (14mm)	12mm	0.985 (25mm)	2.00	2.000	1.500	3.750	2	H3-8200AF	\$60.32	H3-8200F	\$66.99
					4.00	2.000	1.500	3.750	2	H3-8400AF	\$79.89	H3-8400F	\$88.02
K3-15-30	10 to 12	0.591 (15mm)	12mm	1.181 (30mm)	2.00	2.625	1.500	4.750	2	H3-10204AF	\$65.66	H3-10204F	\$72.73
					4.00	2.625	1.500	4.750	2	H3-10404AF	\$87.18	H3-10404F	\$95.71
K3-16-30 HW-10,HW-12 HO1MA10	10 to 12	0.630 (16mm)	12mm	1.181 (30mm)	2.00	2.625	1.500	4.750	2	H3-10200AF	\$65.66	H3-10200F	\$72.73
					4.00	2.625	1.500	4.750	2	H3-10400AF	\$87.18	H3-10400F	\$95.71
K3-18-30 HO1MA12	10 to 14	0.709 (18mm)	14mm	1.181 (30mm)	2.50	3.125	2.000	5.500	2	H3-12250AF	\$87.10	H3-12250F	\$95.71
					4.00	3.125	2.000	5.500	2	H3-12400AF	\$113.90	H3-12400F	\$124.40

For "Pointed" Soft Jaws, please substitute "P" for "F" in the part number. Example: H3-6150AF will be H3-6150AP. Pointed Jaws: Up to 10" add \$4.00. 12" and over add \$7.00
Soft Jaw Material: ALUMINUM-6061-T6 Bar Stock, STEEL-1018. For complete list of applicable chucks, see pages 542-554.
* denotes non-stock item. Please allow 1 week manufacturing time.

JAW NUTS & SCREWS

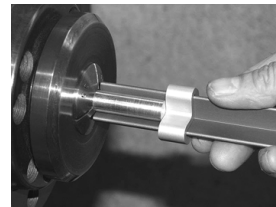
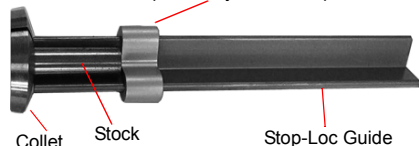


Chuck Make & Model	Critical Dimensions							2 Screws Included With Each Jaw Nut				
	Heel Height H	Groove Width G	Screw Size E	Hole Space D	Hght Inch A	Width Inch C	Length Inch B	Jaw Nut Part Number	Price Each	Screw Part Number	Price Each	
MMK:HO15M6,HO22M6,HO24M6,HO27M6 Howa: HJ-06	0.295	0.472 (12mm)	M10-1.60 x 30mm	0.787 (20mm)	0.847	0.669	1.460	H3-60JN	\$33.42	M1016030	\$2.25	
-	0.340	0.628 (16mm)	M12-1.75 x 35mm	1.181 (30mm)	1.000	0.910	2.000	H3-100JN	\$65.01	M1217535	\$2.25	

CHUCK/COLLET STOP

Handheld Lathe & Mill Vise Tool

- Adjustable Precision-Gage lengths up to 5-1/2" long holding +/- .005
- Save Money! No more fixed length dedicated shop-made front collet stops for each job
- Versatile-For use on CNC or manual lathes whether you are running a bar manually or using a bar puller
- Consistency-Unique design incorporates self-centering, unobstructed viewing and contrasting colors to give user confidence
- Dimensions: 6" L x 3/4" H x 3/4" W
- **Made in USA**



Stop-Loc Pat.Pend.



Graduations	Part Number	Price
Inch	STOPLOC	\$16.00
Inch/Metric	STOPLOC-THSMM	\$18.00
Metric	STOPLOC-MM	\$18.00

PRECISION TOOLS
DEBURRING

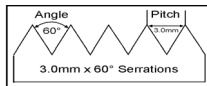
COOLANT/FLUIDS
TOOL STORAGE

Call Us Or Visit Our Website For Our Complete Selection!

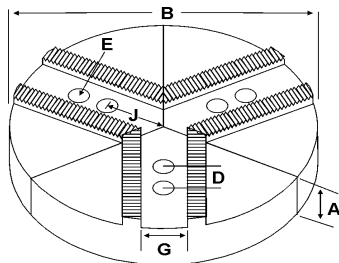
2019-20 MASTER CATALOG

ROUND JAWS- 3.0 mm x 60° Serrations

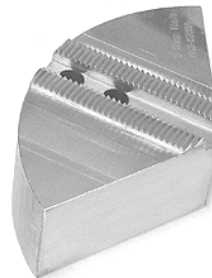
FOR USE ON: **Kitagawa®, Samchully®, MMK Matsumoto, Howa & Other Chucks**



Group
K3



- 3.0mm x 60° serrations
- Round Jaws allow for complete gripping of workpiece
- Oversized jaws available
- Ideal for thin-walled or irregular shaped workpieces.
- Can be machined to fit workpiece
- Max. length of serrations: 5.75"
- All jaws have 2 holes
- Special "J" dimensions available
- Available in Aluminum & Cast Iron
- **Made in the USA**



Group No.	Chuck Size	Critical Dimensions			Hole to Front J	Pie Dia B	Height Inch A	Industry Ref #	ALUMINUM		CAST IRON	
		Groove Width G	Screw Size E	Hole Space D					Part Number	Price Set of 3	Part Number	Price Set of 3
K3-21-40	15	0.827 (21mm)	16mm	1.575 (40mm)	3.187	15	2.50	-	RH3-15258A	\$494.11	RH3-15258CI	\$721.49
					4.125	15	3.00	HOW7MA15P	RH3-15308A4	\$516.17	-	-
					3.187	15	4.00	-	RH3-15408A	\$607.05	-	-
					4.125	15	4.00	HOW7MA15P1	RH3-15408A4	\$585.38	-	-
K3-22-50 MMK HA-18-162, HA11-15, HA11-18, HA8-15 SAMCHULLY MH-218	15-18	0.866 (22mm) (some mfg's refer to this as 0.868)	20mm	1.969 (50mm)	3.750	15	2.50	-	RM3-15250A	\$494.11	RM3-15250CI	\$721.49
					4.125	15	3.00	MTT15P	RM3-15300A4	\$516.17	-	-
					3.750	15	4.00	-	RM3-15400A	\$607.05	-	-
					4.125	15	4.00	MTT15P1	RM3-15400A4	\$585.38	-	-
					3.750	15	6.00	-	RM3-15600A*	\$1,049.83	-	-
					4.125	15	6.00	MTT15P6	RM3-15600A4	\$1,049.83	-	-
					3.750	18	2.50	-	18-RM3-15250A	\$618.48	-	-
					4.125	18	3.00	MTT18-15P	18-RM3-15300A4	\$674.05	-	-
					3.750	18	4.00	-	18-RM3-15400A	\$851.69	-	-
					4.125	18	4.00	MTT18-15P1	18-RM3-15400A4	\$835.46	-	-
					3.750	21	2.50	-	21-RM3-15250A	\$908.09	-	-
					4.125	21	3.00	MTT21-15P	21-RM3-15300A4	\$933.38	-	-
					3.750	21	4.00	-	21-RM3-15400A	\$1,135.76	-	-
					4.125	21	4.00	MTT21-15P1	21-RM3-15400A4	\$1,114.13	-	-
					3.750	24	2.50	-	24-RM3-15250A	\$1,074.06	-	-
					3.750	24	4.00	-	24-RM3-15400A*	\$1,550.55	-	-
K3-25-60 KITAGAWA B-21, B-24 SAMCHULLY HAH/HCH 21 HAH/HCH 24	18-24	0.984 (25mm) (some mfg's refer to this as .985)	20mm	2.360 (60mm)	4.000	15	4.00	-	15-RK3-21400A	\$607.05	-	-
						18	2.50	-	RK3-18250A	\$618.85	-	-
							4.00	-	RK3-18400A	\$851.69	-	-
					4.750	18	3.00	KTT18-21P	18-RK3-21300A4	\$710.55	-	-
							4.00	KTT18-21P1	18-RK3-21400A4	\$835.46	-	-
					4.000	21	2.50	-	RK3-21250A	\$890.78	-	-
							4.00	-	RK3-21400A	\$1,114.13	-	-
					4.750	21	3.00	KTT21P	RK3-21300A4	\$848.95	-	-
							4.00	KTT21P1	RK3-21400A4	\$1,092.91	-	-
					4.000	24	2.50	-	24-RK3-21250A	\$1,074.06	-	-
							4.00	-	24-RK3-21400A	\$1,550.55	-	-
					6.000	24	2.50	-	24-RK3-21250A6	\$1,053.60	-	-
					4.750	24	3.00	KTT24-21P	24-RK3-21300A4	\$1,178.08	-	-
							4.00	KTT24-21P1	24-RK3-21400A4	\$1,521.01	-	-
					7.500	24	3.00	KTT24P	RK3-24300A	\$1,178.08	-	-
							4.00	KTT24P1	RK3-24400A7	\$1,521.01	-	-
4.750	28	3.00	KTT28-21P	28-RK3-21300A	\$1,699.12	-	-					
		4.00	KTT28-21P1	28-RK3-21400A	\$2,416.90	-	-					
7.500	28	3.00	KTT28-24P	28-RK3-24300A	\$1,699.12	-	-					
		4.00	KTT28-24P1	28-RK3-24400A	\$2,416.90	-	-					
K3-25-80	24	0.984 (25mm)	20mm	3.150 (80mm)	3.850	24	2.50	-	RK3-24250A	\$1,074.06	-	-
							4.00	-	RK3-24400A	\$1,550.55	-	-
K3-26-42	15	1.023 (26mm)	20mm	1.656 (42mm)	3.437	15	2.50	-	RH3-15254A	\$494.11	RH3-15254CI	\$721.49
							4.00	-	RH3-15404A	\$607.05	-	-
					4.313	15	3.00	HOW27M15P	RH3-15304A4	\$516.17	-	-
K3-26-50	18-20	1.023 (26mm)	20mm	1.969 (50mm)	3.437	15	2.50	-	RH3-15250A	\$494.11	RH3-15250CI	\$721.49
							4.00	HOW15P1	RH3-15400A	\$607.05	-	-
						24	2.50	-	24-RH3-15250A*	\$1,074.06	-	-

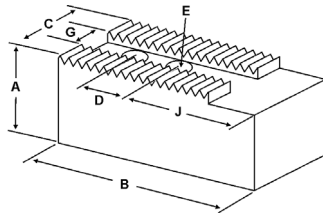
Round Jaw Material: ALUMINUM-6061-T6 Bar Stock, CAST IRON-Gray, STEEL-1018, 18" & Larger- Aluminum Casting T6
For complete list of applicable chucks, see pages 542-554. * denotes non-stock item. Please allow 1 week manufacturing time.

Call Us Today For All Of Your Machine Tool Needs!

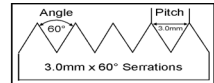
SOFT JAWS- 3.0 mm x 60° Serrations

C

FOR USE ON: **Kitagawa®, Samchully®, MMK Matsumoto, Howa & Other Chucks**



- 3.0mm x 60° serrations
- Supplies maximum concentricity on finish turning operations
- Can be bored or turned to fit workpiece
- Steel jaws can be hardened
- Available flat ended or pointed for smaller diameter parts
- Special orders available
- Available in Aluminum & Steel
- Made in the USA



Group **K3**

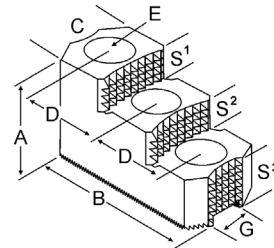
QUANTITY DISCOUNTS!
Order **5 SETS OR MORE** of the same part number soft jaw and receive a **5% DISCOUNT!**

Group No.	Chuck Size	Critical Dimensions			ALUMINUM						STEEL		
		Groove Width G	Screw Size E	Hole Space D	Hght Inch A	Hole to Front J	Width Inch C	Length Inch B	No. of Holes	FLAT END Part Number	Price Set Of 3	FLAT END Part Number	Price Set Of 3
K3-21-40	15	0.827 (21mm)	16mm	1.575 (40mm)	2.50	3.187	2.000	6.000	2	H3-15258AF	\$112.76	H3-15258F	\$124.40
HO15M15, HO 22M12					4.00	3.187	2.000	6.000	2	H3-15408AF*	\$140.81	H3-15408F*	\$153.10
					4.50	3.187	2.000	6.000	2	H3-15458AF	\$139.67	H3-15458F	\$153.10
K3-22-50	15 - 18	0.866 (22mm)	20mm	1.969 (50mm)	2.50	3.187	2.500	6.250	2	M3-15250AF	\$125.37	M3-15250F	\$137.81
MMK HA-18-162, HA11-15, Samchully MH-218					3.00	3.187	2.500	6.250	2	M3-15300AF	\$131.08	M3-15300F	\$143.56
					4.00	3.187	2.500	6.250	2	M3-15400AF	\$157.81	M3-15400F	\$172.25
					5.00	3.187	2.500	6.250	2	M3-15500AF	\$251.09	M3-15500F	\$268.80
					6.00	3.187	2.500	6.250	2	M3-15600AF	\$317.95	M3-15600F	\$319.88
K3-25-51	18 - 21	0.984 (25mm)	20mm	2.000 (51mm)	4.00	5.430	2.50	8.500	2	K3-21403AF*	\$187.72	K3-21403F*	\$211.64
K3-25-60	18 - 21	0.984 (25mm)	20mm	2.360 (60mm)	2.50	3.070	2.500	7.000	2	K3-21250AF	\$137.35	K3-21250F	\$150.94
KITAGAWA B-21, B-24					4.00	3.070	2.500	7.000	2	K3-21400AF	\$165.59	K3-21400F	\$180.36
					6.00	3.070	2.500	7.000	2	K3-21600AF	\$341.28	K3-21600F	\$409.22
K3-25-80	24	0.984 (25mm)	20mm	3.150 (80mm)	2.50	3.850	3.000	8.500	2	K3-24250AF	\$266.29	K3-24250F	\$294.45
UVE-800LB					4.00	3.850	3.000	8.500	2	K3-24400AF	\$350.97	K3-24400F	\$386.46
K3-26-42	15	1.023 (26mm)	20mm	1.656 (42mm)	2.50	2.687	2.000	5.750	2	H3-15254AF	\$95.68	H3-15254F	\$105.26
HO27M15					4.00	2.687	2.000	5.750	2	H3-15404AF	\$122.55	H3-15404F	\$133.99
K3-26-50	18 - 20	1.023 (26mm)	20mm	1.969 (50mm)	2.50	3.187	2.500	6.250	2	H3-15250AF	\$125.37	H3-15250F	\$137.81
HO1MA15					4.00	3.187	2.500	6.250	2	H3-15400AF	\$157.81	H3-15400F	\$172.25
					5.00	3.187	2.500	6.250	2	H3-15500AF	\$218.44	H3-15500F	\$239.24

For "Pointed" Soft Jaws, please substitute "P" for "F" in the part number. Example: H3-15258AF will be H3-15258AP. Pointed Jaws Add \$7.00.
Soft Jaw Material: ALUMINUM-6061-T6 Bar Stock, STEEL-1018, "B" JAWS-7075-T6 Aircraft Aluminum
For complete list of applicable chucks, see pages 542-554. * denotes non-stock item. Please allow 1 week manufacturing time.

HARD JAWS-2 STEP 3.0mm x 60° Serrations

- Designed for first operation roughing, expect standard runout between 0.005-0.010
- Reversible-suitable for OD & ID workholding.
- **XTRA BITE** -very aggressive bite. Has conical teeth for extra gripping power and ground body to provide improved runout.
- 1 & 2 step jaws available.

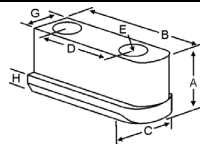


XTRA BITE

E

Group Number	Chuck Size	Critical Dimensions			Width C	OAL B	Height A	No. of Holes	No. of Steps	Top Step Ht S1	Mid Step Ht S2	Bot Step Ht S3	Part Number	Price Per Set
		Groove Width G	Screw Size E	Hole Space D										
K3-22-50	15	0.866 (22mm)	20mm	1.969 (50mm)	2.500	6.500	3.469	3	2	0.950	0.950	1.569	M3-150HJ2-X	\$897.75
K3-25-49	18-24	0.984 (25mm)	20mm	1.907 (48.5mm)	2.500	6.500	3.469	3	2	0.950	0.950	1.569	K3-240HJ2-X	\$897.75

JAW NUTS & SCREWS



USST

Chuck Make & Model	Chuck Size	Heel Height H	Groove Width G	Screw Size E	Hole Space D	Hght Inch A	Width Inch C	Length Inch B	2 Screws Included With Each Jaw Nut			
									Jaw Nut Part Number	Price Each	Screw Part Number	Price Each
MMK: HO15M15	15	0.413	0.826(21mm)	M16-2.00 x 40mm	1.575(40mm)	1.141	1.000	2.560	H3-158JN	\$50.15	M1620040	\$2.25
Samchully: MH-218	18	0.650	0.866 (22mm)	M20-60mm	1.969 (50mm)	1.791	1.318	3.150	KT-MH-218JN	\$52.85	M20X60	\$2.25
Kitagawa: B-21,B-24	18 - 24	0.748	0.984(25mm)	M20-2.50 x 50mm	2.362(60mm)	1.772	1.476	3.543	KT-240JN	\$64.00	M2025050	\$3.25
-	21-24	0.748	0.984(25mm)	M20-2.50 x 50mm	T-Nut	1.772	1.476	1.811	KT-210JN	\$54.83	M2025050	\$3.25
MMK: HO27M15	15	0.669	1.022(26mm)	M20-2.50 x 50mm	1.654(42mm)	1.570	1.339	2.750	H3-154JN	\$50.15	M2025050	\$3.25
-	18 - 20	0.669	1.022(26mm)	M20-2.50 x 50mm	1.968(50mm)	1.575	1.339	3.250	H3-150JN	\$71.02	M2025050	\$3.25

Call Us Or Visit Our Website For Our Complete Selection!

2019-20 MASTER CATALOG

35

LATHE CHUCKS
LIVE CENTERS

VICE JAWS
VICE ACCESSORIES

STRAIGHT SHANK
COLLET HOLDERS

TAP HOLDERS
DRILL CHUCKS

CARBIDE INSERTS
THREADING/GROOVING

CUTTING TOOLS
MACHINERY

PRECISION TOOLS
DEBURRING

COOLANT/FLUIDS
TOOL STORAGE