



V3 TOOLS

www.v3tools.com



Experience for Excellence

PRICE LIST - 0524

STEEL FILES

HSS TOOL BITS

HSS P.SH. DRILLS

HSS CENTRE DRILLS

MASONRY DRILLS

HSS END MILL

HSS TAPS

SOLID CARBIDE END MILLS

SOLID CARBIDE BALL NOSE

SOLID CARBIDE DRILLS

SC THROUGH COOLANT DRILLS

SC ROUGHING END MILL



V3 ADVANCE TOOL PRIVATE LIMITED

Phone : +91-1147053480 Mobile : +91-9312023480

Email : v3tool20@gmail.com, v3tools15@gmail.com

High Performance Tools & Files

**D.K. PANDEY**

C.E.O. V3 Tools

Contact us
+91-97119 45194

By Mail :
v3tool20@gmail.com
Customer Care
9312023480

Our Presence

Always at your end
Indian Leading quality Tools Company

Dear V3 Tools Customer,

Since the V3 was founded over years ago.

To us sustainable, responsibility towards our customers and partners means to convey **reliability and competence in all our actions.**

We Committed

By making consequent investment in top quality tools. Cost effective process in **highest ability to supply** on the market and above all **in people.**

So that also in future, you have a skilled and committed partner in us to fulfill your expectations.

You as our customer stand clearly in the centre of company endeavour along with the benefit we bring you. Our focus in your **productivity, value creation and efficiency.** We are committed and challenge our self to improve bit by every day.

Challenge us

We take our responsibility seriously as Indian Leading partners for quality tools. You can rely on us. Today and in future

Terms & Conditions

1. GST Extra @ 18% on Selling Price
2. Delivery F.O.R. Destination Subject to order value
3. Prices & Specification are Subject to Change with out Prior Notice
4. All legal proceeding are subject to Delhi Jurisdiction
5. This Price list is Effective from 10/05/2024 & superceeds our Previous Price list.
6. For Unlisted Intermediate Sizes the prices of next listed size in inch or mm will be apply.
7. Special Products as per drawing also available against requirements.
8. All V3 items required Minimum order value 25,000/- net or MOV for special and non moving SKU each items Rs. 10,000/- or MOQ as mentioned in offer as per size which ever is higher or multiple of standard packing.
9. Dealers are Free to Charges lower than the maximum recommended retail price.
10. If Coating (TIN, TICN, TIALN, ALCRONA & TISINOS) required while ordering will be charged extra if not included in price list.

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Company Profile

Our Company :

V3 Tools is professionally managed Company by Sr. Person, Who is having **more than 32 years** of Marketing & Plant Experience from Premium Cutting & Hand tools Industries. We meet our Customer's requirement by committing to ensure consistent quality, timely delivery & Satisfying Customer needs of the **Times by Learning & Growing**. Our promise you will find a reliable "Partner for Growth" to provide solution of speedy & effortless smooth Innovative Tool Technology to fulfill your expectation.

Range of Products: **V3 Tools** offers wide range of diverse application **Files & Tools**.

Our Operations

To become leading partner for growth in productivity metal working tools for machining.

Our focus in your productivity efficiency and value creation.

Trading Competence

With the V3 tools you obtain most comprehensive range throughout market with **highest supply reliability through channel partner at the best value for money**.

Manufacturing Competence.

For more than 28 years of experience we had our finger on the pulse of the markets. Though a continuous dialogue with our customers and leading manufacturer for **premium quality**.

This know how and the unique technical competence of our manufacturer experts can be found combine in our premium brand V3

Service Competence

As a system partner for quality we are **always at your end**. From tool procurement to the optimum application. With comprehensive services for products and processes. From individual via professional advice. Always focused on **your success** due to **simplified processes and sustainable increase in productivity**.

Our Aim : **Delighted Customers**

Our Passion : **Quality Tools**

Our Vision : Our Customer's Success

Our Mission :

To become leading partner for growth in productivity metal working tools for machining

Our Values :

Simple

ÿ In Communication

ÿ In Organisation

ÿ In all process

Focused :

ÿ On Solutions / Services

ÿ On core competencies

ÿ On the essentials

Useful :

ÿ For our Customers / Channel partner / suppliers

ÿ For our company development

ÿ For our staff / environment

ÿ For the Next Generation.

Your Advantage

ÿ Competent contact persons

ÿ Highest Commitment

ÿ Global Presence

STEEL FILE

Price RS. / Each

SIZE INCH/ MM	MACHINIST FILES															PACK QTY
	FLAT / HAND			HALF ROUND			ROUND			SQUARE			THREE SQUARE			
	Bastard	2nd Cut	Smooth	Bastard	2nd Cut	Smooth	Bastard	2nd Cut	Smooth	Bastard	2nd Cut	Smooth	Bastard	2nd Cut	Smooth	
4"/100	235	287	328	446	479	501	301	346	391	349	370	384	359	385	401	10
6"/150	236	328	363	495	529	568	351	372	399	376	384	405	383	403	449	10
8"/200	237	382	413	628	695	737	395	401	461	387	405	450	508	536	574	10
10"/250	244	405	509	807	944	994	517	539	581	523	544	584	687	727	779	10
12"/300	364	600	666	1087	1137	1237	641	681	751	647	688	775	868	912	957	5
14"/350	849	895	985	1357	1471	1553	902	942	1031	860	924	944	1168	1217	1263	5

SIZE INCH/ MM	MACHINIST FILES										FLAT Alumi- nium	H.RD Alumi- nium	Dread Naught Std. Cut with Tang	MILL FILE Two Sq. Edge Bastard	FLAT SUPER LIGHT	FLAT HANDLE	PACK QTY
	PILLAR NARROW			WARDING			KNIFE										
	Bastard	2nd Cut	Smooth	Bastard	2nd Cut	Smooth	Bastard	2nd Cut	Smooth								
4"/100				322	324	348	561	602	698				192			10	
6"/150	385	392	407	431	438	475	570	617	707				194			10	
8"/200	495	508	522	539	554	599	722	758	852	295	700	992	195			10	
10"/250							969	998	1047	306	899	1224	197	194	197	10	
12"/300							1307	1334	1340	456	1238	1301	269			5	
14"/350										946	1467	1577	598			5	

SIZE INCH/ MM	SAW FILES					RASP FILES								PACK QTY		
	HEAVY / REGULAR TAPER	SLIM TAPER	PIT SAW	CANT SAW	FEATHER EDGE	FLAT WOOD RASPS			HALF ROUND WOOD RASP			CABINET RASP			HORSE RASP	
						Bastard	2nd Cut	Smooth	Bastard	2nd Cut	Smooth	Regular	Smooth			
4"/100	72	72	67													10
5"/125	104	86			233											10
6"/150	133	93		195	271	388	391	406	459	473	485	473	519			10
8"/200	191	153		257		526	542	563	589	593	616	616	700			10
10"/250						622	668	698	703	740	741	742	816			10
12"/300						807	857	912	859	942	956	911	1064	827		5
14"/350						961	1017	1054	1064	1107	1163	1148	1291	1082		5

SIZE MM	NEEDLE FILES		
	Shape	Set of 12 Nos.	
		CUT '0' or '2'	CUT '0' or '2'
140		200	2360**
160		210	2530**

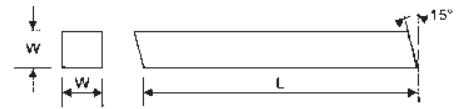
SIZE MM	DIAMOND COATED NEEDLE FILES		
	Shape	Set of 6 Nos.	
		CUT '0' or '2'	CUT '0' or '2'
140		760	4610**
160		790	4760**

(160 mm Needle Files available with handle in all shape @ 222/- each of 10 Nos. Box Packing)

STANDARD PACKING & NOTE :

- All orders will be placed in Standard Packing as mentioned above
- For sizes upto 250 mm : 10 Nos. per packet
- For sizes above 250 mm : 5 Nos. per packet.
- Feather Edge Files : * Marked 5 Nos per packet.
- Diamond & Needle Files : ** Marked Assorted 6 shape are available in Cut '0 & 2' in packet of 12 Nos.

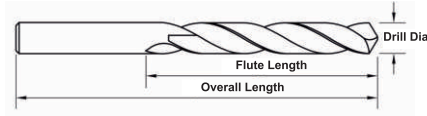
HSS TOOL BITS



NORMAL SIZE		V400 (T 42)	V500 (T 42 CRYO)	V600 (T 42-TINCOATED)	PKT. QTY
MM	INCH	SQ. Price Each Rs.	SQ. Price Each Rs.	SQ. Price Each Rs.	SQ. Price Each Rs.
5X100	3/16"X4"	491	518	873	10
6X75	1/4"X3"	453	475	831	10
6X100	1/4"X4"	603	627	1012	10
6X150	1/4"X6"	984	1021	1414	10
6X200	1/4"X8"	1662	1749	2307	10
8X75	5/16"X3"	585	621	865	10
8X100	5/16"X4"	795	849	1212	10
8X150	5/16"X6"	1280	1358	1840	10
8X200	5/16"X8"	1814	1935	2650	10
10X75	3/8"X3"	693	736	973	10
10X100	3/8"X4"	912	990	1330	10
10X150	3/8"X6"	1466	1565	1997	10
10X200	3/8"X8"	2084	2220	2920	10
12X75	1/2"X3"	1125	1172	1545	10
12X100	1/2"X4"	1469	1571	2097	10
12X150	1/2"X6"	2308	2412	3148	10
12X200	1/2"X8"	3214	3362	4541	10
16X100	5/8"X4"	2474	2573	3102	1
16X150	5/8"X6"	3616	3851	4456	1
16X200	5/8"X8"	5076	5272	6403	1
19X150	3/4"X6"	4981	5359	6097	1
19X200	3/4"X8"	6823	7185	8499	1
25X150	1"X6"	8357	8878	10221	1
25X200	1"X8"	11135	11839	13927	1

As per the customer requirement other grade M35 & M42 will be made available against order.

HSS MICRO DRILLS

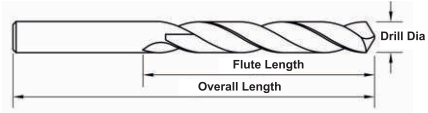


HSS PARALLEL SHANK JOBBER DRILL (GROUND FLUTE) To IS:5101 / DIN:338 / BS:328

Size - Diameter			Length - mm		Price 10 Nos
MM	INCH	DG/LG	FLUTE	OVERALL	
0.3			3	19	1909
0.32			4	19	1616
0.34		80	4	19	1616
0.35			4	19	1616
0.37		79	4	19	1616
0.38			4	19	1616
0.4	1/64		5	20	1616
0.41		78	5	20	1616
0.42			5	20	1616
0.45			5	20	1616
0.46		77	5	20	1616
0.48			5	20	1616
0.5			6	22	1167
0.51		76	6	22	1167
0.52			6	22	1167
0.53		75	6	22	1167
0.55			7	24	1167
0.57		74	7	24	1167
0.58			7	24	1167
0.6			7	24	1167
0.61		73	8	26	1167
0.62			8	26	1167
0.64		72	8	26	1167
0.65			8	26	1167

Size - Diameter			Length - mm		Price 10 Nos
MM	INCH	DG/LG	FLUTE	OVERALL	
0.66		71	8	26	1167
0.68			9	28	1167
0.7			9	28	1167
0.71		70	9	28	1167
0.72			9	28	1167
0.74		69	9	28	1167
0.75			9	28	1167
0.76			10	30	1167
0.79	1/32	68	10	30	1167
0.8			10	30	1167
0.81		67	10	30	1016
0.82			10	30	1016
0.84		66	10	30	1016
0.85			10	32	1016
0.88			11	32	1016
0.89		65	11	32	1016
0.9			11	32	1016
0.91		64	11	32	942
0.92			11	32	942
0.94		63	11	32	942
0.95			11	32	942
0.97		62	12	34	942
0.98			12	34	942
0.99		61	12	34	942

HSS DRILLS



HSS PARALLEL SHANK JOBBER DRILL (GROUND FLUTE)

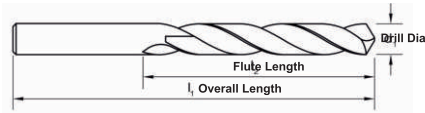
To IS:5101 / DIN:338 / BS:328

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Size - Diameter			Length - mm		Price 10 Nos
MM	INCH	DG/LG	FLUTE	OVERALL	
1.00			12	34	489
1.02		60			489
1.04		59	12	34	489
1.07		58			489
1.09		57			489
1.10			14	36	489
1.18		56			489
1.19	3/64				489
1.20			16	38	489
1.30			16	38	489
1.32		55			489
1.40		54	18	40	489
1.50			18	40	489
1.51		53			489
1.59	1/16				489
1.60			20	43	489
1.61		52			524
1.70		51	20	43	524
1.78		50			524
1.80			22	46	524
1.85		49	22	46	524
1.90			22	46	524
1.93		48			524
1.98	5/64		24	49	524
1.99		47	24	49	524
2.00			24	49	524
2.06		46	24	49	524
2.08		45	24	49	524
2.10			24	49	524
2.18		44	27	53	524
2.20			27	53	524
2.26		43	27	53	524
2.30			27	53	524
2.37		42	30	57	524
2.38	3/32		30	57	524
2.40			30	57	524
2.44		41	30	57	524
2.49		40	30	57	524
2.50			30	57	524

Size - Diameter			Length - mm		Price 10 Nos
MM	INCH	DG/LG	FLUTE	OVERALL	
2.53			39	57	524
2.58			38	57	524
2.60			30	57	524
2.64			37	57	524
2.70			33	61	524
2.71			36	61	524
2.78	7/64		33	61	524
2.79			35	61	570
2.80			33	61	570
2.82			34	61	570
2.87			33	61	570
2.90			33	61	570
2.95			32	61	570
3.00			36	65	542
3.05			31	65	692
3.10			36	65	692
3.17	1/8		36	65	692
3.20			36	65	707
3.26			30	65	707
3.30			36	65	707
3.40			39	70	707
3.45			29	70	707
3.50			39	70	707
3.57	9/64		39	70	707
3.60			39	70	1056
3.66			27	70	1056
3.70			39	70	1056
3.73			26	70	1056
3.80			25	75	1056
3.86			24	75	1056
3.90			43	75	1056
3.91			23	75	1056
3.97	5/32		43	75	1056
3.99			43	75	1056
4.00			43	75	1056
4.04			21	75	1269
4.09			20	75	1269
4.10			43	75	1269
4.20			43	75	1269

HSS DRILLS



HSS PARALLEL SHANK JOBBER DRILL (GROUND FLUTE)

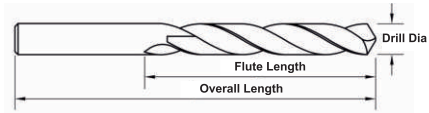
To IS:5101 / DIN:338 / BS:328

Size - Diameter			Length - mm		Price 10 Nos
MM	INCH	DG/LG	FLUTE	OVERALL	
4.22		19	43	75	1269
4.30		18	47	80	1269
4.37	11/64		47	80	1269
4.39		17	47	80	1269
4.40			47	80	1269
4.50		16	47	80	1673
4.57		15	47	80	1673
4.60			47	80	1673
4.62		14	47	80	1673
4.70		13	47	80	1673
4.76	3/16		52	86	1673
4.80		12	52	86	1673
4.85		11	52	86	1836
4.90			52	86	1836
4.92		10	52	86	1836
4.98		9	52	86	1836
5.00			52	86	1836
5.06		8	52	86	1836
5.10			52	86	1836
5.11		7	52	86	1836
5.16	13/64		52	86	1836
5.18		6	52	86	1836
5.20			52	86	1836
5.22		5	52	86	1983
5.30			52	86	1983
5.31		4	57	93	1983
5.40			57	93	1983
5.41		3	57	93	1983
5.50			57	93	1983
5.56	7/32		57	93	1983
5.60			57	93	1983
5.61		2	57	93	2208
5.70			57	93	2208
5.79		1	57	93	2208
5.80			57	93	2208
5.90			57	93	2208
5.94		A	57	93	2208
5.95	15/64		57	93	2208
6.00			57	93	2208

Size - Diameter			Length - mm		Price 10 Nos
MM	INCH	DG/LG	FLUTE	OVERALL	
6.04		B	63	101	2424
6.10			63	101	2424
6.15		C	63	101	2424
6.20			63	101	2424
6.25		D	63	101	2424
6.30			63	101	2424
6.35	1/4	E	63	101	2424
6.40			63	101	2424
6.50			63	101	3148
6.53		F	63	101	3148
6.60			63	101	3148
6.63		G	63	101	3148
6.70			63	101	3148
6.75	17/64	H	69	109	3148
6.80			69	109	3148
6.90		I	69	109	3443
7.00			69	109	3443
7.03		J	69	109	3443
7.10			69	109	3443
7.14	9/32	K	69	109	3443
7.20			69	109	3443
7.30			69	109	3642
7.37		L	69	109	3642
7.40			69	109	3642
7.49		M	69	109	3642
7.50			69	109	3642
7.54	19/64		75	117	3954
7.60			75	117	3954
7.67		N	75	117	3954
7.70			75	117	3954
7.80			75	117	3954
7.90			75	117	4320
7.94	5/16		75	117	4320
8.00			75	117	4320
8.03		O	75	117	4320
8.10			75	117	4320
8.20		P	75	117	4320
8.30			75	117	5127
8.33	21/64		75	117	5127

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To IS:5101 / DIN:338 / BS:328

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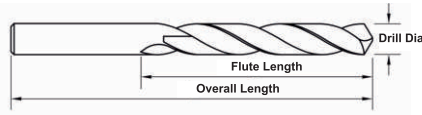
Size - Diameter			Length - mm		Price 10 Nos
MM	INCH	DG/LG	FLUTE	OVERALL	
8.40			75	117	5126
8.43		Q	75	117	5126
8.50			75	117	5126
8.60			81	125	5126
8.61		R	81	125	5126
8.70			81	125	5126
8.73	11/32		81	125	5468
8.80			81	125	5468
8.84		S	81	125	5468
8.90			81	125	5468
9.00			81	125	5468
9.09		T	81	125	5647
9.10			81	125	5647
9.13	23/64		81	125	5647
9.20			81	125	5647
9.30			81	125	5647
9.34		U	81	125	5647
9.40			81	125	5647
9.50			81	125	5647
9.52	3/8		87	133	6425
9.58		V	87	133	6425
9.60			87	133	6425
9.70			87	133	6425
9.80		W	87	133	6425
9.90			87	133	7157
9.92	25/64		87	133	7157
10.00			87	133	7157
10.08		X	87	133	7157
10.10			87	133	7157
10.20			87	133	7157
10.26		Y	87	133	7790
10.30			87	133	7790
10.32	13/32		87	133	7790

Size - Diameter			Length - mm		Price 10 Nos
MM	INCH	DG/LG	FLUTE	OVERALL	
10.40			87	133	7790
10.49		Z	87	133	7790
10.50			87	133	7790
10.60			87	133	7790
10.70			94	142	8235
10.72	27/64		94	142	8235
10.80			94	142	8235
10.90			94	142	8235
11.00			94	142	8235
11.10			94	142	9186
11.11	7/16		94	142	9186
11.20			94	142	9186
11.30			94	142	9186
11.40			94	142	9186
11.50			94	142	9678
11.51	29/64		94	142	9678
11.60			94	142	9678
11.70			94	142	9678
11.80			94	142	9678
11.90			101	151	10349
11.91	15/32		101	151	10349
12.00			101	151	10349
12.10			101	151	10349
12.20			101	151	10349
12.30	31/64		101	151	10978
12.40			101	151	10978
12.50			101	151	10978
12.60			101	151	10978
12.70	1/2		101	151	11581
12.80			101	151	11581
12.90			101	151	11581
13.00			101	151	11581

Note:

1. Intermediate, unlisted sizes, price of the next listed size will be charge.
2. All sizes can be order in multiple of 10 numbers.
3. Minimum order value required for non moving items Rs. 10,000/- Net each size.
4. For M35 Drills 40% will be charged extra.

HSS DRILLS



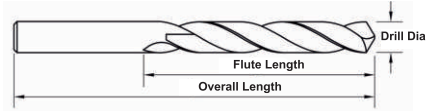
HSS PARALLEL SHANK STUB DRILL (GROUND FLUTE)

To IS:5100 / DIN:1897 / BS:328

Size - Diameter			Length - mm OVERALL	Price 10 Nos
MM	INCH	FLUTE		
1.00	3/64	6	26	506
1.19		8	30	506
1.20		8	30	506
1.50		9	32	506
1.59	1/16	10	34	506
1.80		11	36	506
1.98	5/64	12	38	506
2.00		12	38	506
2.20		13	40	506
2.38	3/32	14	43	506
2.50		14	43	506
2.78	7/64	16	46	506
2.80		16	46	554
3.00		16	46	569
3.17	1/8	18	49	673
3.20		18	49	709
3.50		20	52	709
3.57	9/64	20	52	709
3.80		22	55	1006
3.97	5/32	22	55	1006
4.00		22	55	1006
4.20		22	55	1134
4.37	11/64	24	58	1134
4.50		24	58	1501
4.76	3/16	26	62	1501
4.80		26	62	1501
5.00		26	62	1605
5.16	13/64	26	62	1605
5.20		26	62	1605
5.50		28	66	1741
5.56	7/32	28	66	1741
5.80		28	66	1970
5.95	15/64	28	66	1970
6.00		28	66	1970
6.20		31	70	2200
6.35	1/4	31	70	2200
6.50		31	70	2746
6.75	17/64	34	74	2746
6.80		34	74	2746

Size - Diameter			Length - mm	Price 10 Nos
MM	INCH	FLUTE		
7.00		34	74	3018
7.14	9/32	34	74	3018
7.20		34	74	3018
7.50		34	74	3129
7.54	19/64	37	79	3790
7.80		37	79	3790
7.94	5/16	37	79	3790
8.00		37	79	3717
8.20		37	79	3717
8.33	21/64	37	79	4655
8.50		37	79	4655
8.73	11/32	40	84	4862
8.80		40	84	4862
9.00		40	84	4862
9.13	23/64	40	84	5129
9.20		40	84	5129
9.50		40	84	5129
9.52	3/8	43	89	5355
9.80		43	89	5355
9.92	25/64	43	89	6558
10.00		43	89	6558
10.20		43	89	6558
10.32	13/32	43	89	7055
10.50		43	89	7055
10.72	27/64	47	95	7940
10.80		47	95	7940
11.00		47	95	7940
11.11	7/16	47	95	8270
11.20		47	95	8270
11.50		47	95	9368
11.51	29/64	47	95	9368
11.80		47	95	9368
11.91	15/32	51	102	9368
12.00		51	102	9368
12.20		51	102	9368
12.30	31/64	51	102	9368
12.50		51	102	9368
12.70	1/2	51	102	10377
12.80		51	102	10377
13.00		51	102	10377

HSS DRILLS



HSS PARALLEL SHANK LONG SERIES DRILLS

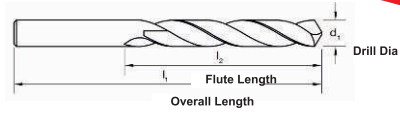
To IS:5102 / DIN:340 / BS:328 / I.S.O.

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Size - Diameter			Length - mm	Price Each
MM	INCH	FLUTE	OVERALL	
1.00		33	56	242
1.10		37	60	242
1.19	3/64	41	65	242
1.20		41	65	242
1.30		41	65	242
1.40		45	70	242
1.50		45	70	242
1.59	1/16	50	76	242
1.60		50	76	242
1.70		50	76	242
1.80		53	80	242
1.90		53	80	242
1.98	5/64	56	85	242
2.00		56	85	242
2.10		56	85	242
2.20		59	90	242
2.30		59	90	309
2.38	3/32	62	95	309
2.40		62	95	309
2.50		62	95	309
2.60		62	95	309
2.70		66	100	309
2.78	7/64	66	100	309
2.80		66	100	309
2.90		66	100	309
3.00		66	100	315
3.10		69	106	315
3.17	1/8	69	106	315
3.20		69	106	315
3.30		69	106	315
3.40		73	112	315
3.50		73	112	315
3.57	9/64	73	112	315
3.60		73	112	340
3.70		73	112	340
3.80		78	119	340
3.90		78	119	340
3.97	5/32	78	119	340
4.00		78	119	340

Size - Diameter			Length - mm	Price Each
MM	INCH	FLUTE	OVERALL	
4.10		78	119	340
4.20		78	119	340
4.30		82	126	340
4.37	11/64	82	126	340
4.40		82	126	340
4.50		82	126	340
4.60		82	126	340
4.70		82	126	340
4.76	3/16	87	132	340
4.80		87	132	340
4.90		87	132	394
5.00		87	132	394
5.10		87	132	394
5.16	13/64	87	132	394
5.20		87	132	394
5.30		87	132	462
5.40		91	139	462
5.50		91	139	462
5.56	7/32	91	139	462
5.60		91	139	501
5.70		91	139	501
5.80		91	139	501
5.90		91	139	501
5.95	15/64	91	139	501
6.00		91	139	501
6.10		97	148	566
6.20		97	148	566
6.30		97	148	566
6.35	1/4	97	148	603
6.40		97	148	727
6.50		97	148	727
6.60		97	148	879
6.70		97	148	879
6.75	17/64	102	156	879
6.80		102	156	879
6.90		102	156	879
7.00		102	156	879
7.10	9/32	102	156	879
7.14		102	156	879

HSS DRILLS



HSS PARALLEL SHANK LONG SERIES DRILLS

To IS:5102 / DIN:340 / BS:328 / I.S.O.

Size - Diameter			Length - mm	Price Each
MM	INCH	FLUTE	OVERALL	
7.20		102	156	879
7.30		102	156	879
7.40		102	156	879
7.50		102	156	879
7.54	19/64	109	165	879
7.60		109	165	879
7.70		109	165	879
7.80		109	165	879
7.90		109	165	906
7.94	5/16	109	165	906
8.00		109	165	906
8.10		109	165	906
8.20		109	165	906
8.30		109	165	906
8.33	21/64	109	165	906
8.40		109	165	906
8.50		109	165	906
8.60		115	175	1001
8.70		115	175	1001
8.73	11/32	115	175	1001
8.80		115	175	1001
9.00		115	175	1001
9.13	23/64	115	175	1001
9.20		115	175	1001

Size - Diameter			Length - mm	Price Each
MM	INCH	FLUTE	OVERALL	
9.50		115	175	1001
9.52	3/8	121	184	1001
9.80		121	184	1167
9.92	25/64	121	184	1167
10.00		121	184	1259
10.20		121	184	1320
10.3	13/32	121	184	1358
10.50		121	184	1358
10.72	27/64	128	195	1539
10.80		128	195	1539
11.00		128	195	1514
11.11	7/16	128	195	1755
11.20		128	195	1755
11.50		128	195	1755
11.51	29/64	128	195	1755
11.80		128	195	1755
11.91	15/32	134	205	1755
12.00		134	205	1755
12.20		134	205	1955
12.30	31/64	134	205	1955
12.50		134	205	1955
12.70	1/2	134	205	2168
12.80		134	205	2168
13.00		134	205	2168

MASONRY DRILLS - CARBIDE TIPPED (GROUND FLUTED & BRIGHT PLATED)

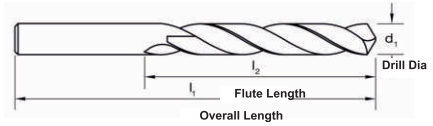
Sizes				Prise Rs./Each
MM	INCH	FLUTE	OVERALL	STD. DRILLS
3	1/8	40	76	75
4	5/32	45	85	83
5	3/16	45	90	89
5.5	7/32	45	90	108
6	15/64	60	110	120
6.5	1/4	60	110	105
7	9/32	60	110	205
8	5/16	80	120	184
9	11/32	80	120	229
10	3/8	80	120	210
11	7/16	115	160	295
12	15/32	115	160	262
13	1/2	115	160	262



Note:

1. Intermediate, unlisted sizes, prize of the next listed size will be charge.
2. All sizes can be order in **multiple of 10 numbers**.
3. Minimum order value required for non moving items Rs. **10,000/-** Net each size.

HSS DRILLS



HSS PARALLEL SHANK - EXTRA LONG SERIES DRILLS

Sizes		Prise Rs./Each							
MM	INCH	OAL MM	150	175	200	225	250	300	350
		FL MM	100	120	150	175	200	250	300
3	1/8		916	1103	1269	1486	1782	2137	
3.5			973	1110	1269	1721	1909	2521	
4	5/32		916	1110	1269	1722	1916	2521	3472
4.5			865	1066	1297	1724	1921	2703	3559
5	3/16		942	1162	1328	1759	1959	2764	3627
5.5	7/32		997	1223	1404	1886	2091	2770	3649
6	1/4		997	1254	1428	1932	2149	2842	4231
6.5					1728		2498	3221	4231
7					1817		2718	3258	4731
7.5	9/32				1916		2871	3449	4751
8	5/16				2025		3042	3503	4858
8.5	11/32				2096		3097	3609	4422
9					2102		3097	3609	4422
9.5	3/8				2163		3102	3720	4558
10					2197		3170	4252	5164
10.5	13/32				2386		3293	4422	5605
11	7/16						3321	4521	5845
11.5							3480	4606	6075
12	15/32						3489	4620	6229
12.5	1/2						3697	4896	6602

HSS END MILLS

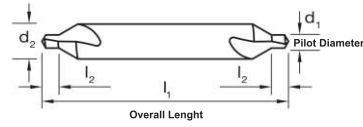
HSS PARALLEL SHANK END MILLS
IS 6353 - 1991 & BS - 122 (PART-1) 1953

DIA	SHANK DIA	CEL	OAL	PRICE EACH	
MM	INCH				
3	1/8	4	8	40	607
4	5/32	4	11	43	607
5	3/16	5	13	47	607
6	1/4	6	13	57	680
7		8	16	60	768
8	5/16	8	19	63	768
9	3/8	10	19	69	768
10		10	22	72	768
11	7/16	12	22	79	768
12	1/2	12	26	83	793
13		12	26	83	905
14	9/16	12	26	83	984
15		16	26	83	1199
16	5/8	16	32	92	1207
17		16	32	92	1318
18		16	32	92	1463
19	3/4	16	32	92	1463
20	13/16	20	38	104	1696

HSS PARALLEL SHANK SLOT MILL
IS 6353 - 1991 & BS - 122 (PART-1) 1953

DIA	SHANK DIA	CEL	OAL	PRICE EACH	
MM	INCH				
3	1/8	4	7	39	740
4	5/32	4	7	39	740
5	3/16	6	8	49	740
6	1/4	6	8	52	793
7		8	10	54	793
8	5/16	8	11	55	793
9	3/8	8	11	61	793
10		10	13	63	820
11		10	13	70	820
12	1/2	12	16	73	899
14	9/16	12	16	73	1153
15	5/8	12	16	73	1490

HSS CENTRE DRILL



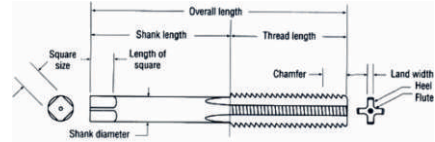
Type A & R IS : 6710-1977						
Pilot Dia	Body Dia	OVER ALL		PILOT length		Price/EACH
		Max.	Min	Max.	Min	
1.00	3.15	33.50	29.50	1.60	1.30	226
1.25	3.15	33.50	29.50	1.90	1.60	226
1.60	4.00	37.50	33.50	2.40	2.00	226
2.00	5.00	42.00	38.00	2.90	2.50	226
2.50	6.30	47.00	43.00	3.60	3.10	257
3.15	8.00	52.00	48.00	4.40	3.90	403
4.00	10.00	59.00	53.00	5.60	5.00	499
5.00	12.50	66.00	60.00	6.90	6.30	850
6.30	16.00	74.00	68.00	8.60	8.00	1003
8.00	20.00	83.00	77.00	11.50	10.10	1550
10.00	25.00	103.00	97.00	14.20	12.80	1997

Type B IS : 6709 - 1977						
Pilot Dia	Body Dia	OVER ALL		PILOT length		Price/EACH
		Max.	Min	Max.	Min	
1.00	4.00	37.50	33.50	1.80	1.40	371
1.25	5.00	42.00	38.00	1.90	1.60	399
1.60	6.30	47.00	43.00	2.40	2.00	468
2.00	8.00	52.00	48.00	3.30	2.50	657
2.50	10.00	59.00	53.00	4.10	3.10	838
3.15	11.20	63.00	57.00	4.90	3.90	1121
4.00	14.00	70.00	64.00	6.20	5.00	1502
5.00	18.00	77.00	73.00	6.90	6.30	2145
6.30	20.00	82.00	78.00	8.60	8.00	2525

B.S. 328 (PART 2) 1950							
Size B.S. NO	Pilot Dia	Body Dia	OVER ALL		PILOT length inch		Price/EACH
					Max.	Min	
BS1	3/64"	1/8"	1.1/2		5/64	1/16	219
BS2	1/16"	3/16"	1.3/4		3/32	5/64	219
BS3	3/32"	1/4"	2		5/32	1/8	250
BS4	1/8"	5/16"	2.1/4		3/16	5/32	392
BS5	3/16"	7/16"	2.1/2		9/32	1/4	518
BS6	1/4"	5/8"	3		11/32	5/16	976
BS7	5/16"	3/4"	3.1/2		7/16	13/32	1563

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HSS TAPS



COARSE PITCH

Price RS. / Each

HSSGROUND THREAD HAND TAPS-COARCE PITCH

IS 6175-PART 1,2 & 3 - 1992

Size	Drill Size	TL	OAL	Str. Flute	SPPT (Spiral Point)	Spiral Flute
M3X0.5	2.5	11	48	393	496	542
M4X0.7	3.3	13	53	393	496	542
M5X0.8	4.2	16	58	424	521	571
M6X1.0	5	19	66	424	521	587
M8X1.25	6.75	22	72	513	603	673
M10X1.5	8.5	24	80	620	755	842
M12X1.75	10.2	29	89	968	1155	1274
M14X2.0	12	30	95	1403	1690	1933
M16X2.0	14	32	102	1403	1690	1933
M18X2.5	15.5	37	112	2135	2585	2816
M20X2.5	17.5	37	112	2915	3233	3755
M22X2.5	19.5	38	118	2915	3465	3891
M24X3.0	21	45	130	3274	3867	4228
M27X3.0	24	45	135	4970	6050	7700
M30X3.5	26.5	48	138	5558	6710	8690

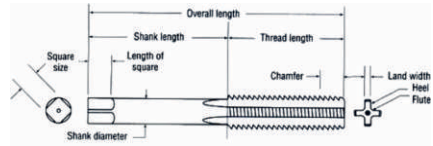
HSSGROUND THREAD LONG SHANK MACHINE TAPS

IS 6175-PART-4 1991

Size	Drill Size	TL	OAL	Str. Flute	Str. Flute
				Type A,C & D	Type B
M3X0.5	2.51	11	66	868	1023
M4X0.7	3.32	13	73	868	1023
M5X0.8	4.22	16	79	622	888
M6X1.0	5.03	19	89	666	941
M8X1.25	6.78	22	97	724	941
M10X1.5	8.54	24	108	927	1109
M12X1.75	10.3	29	119	1315	1558
M14X2.0	12.05	30	127	1911	2265
M16X2.0	14.05	32	137	1911	2265
M18X2.5	15.56	37	149	2762	3308
M20X2.5	17.56	37	149	3455	4065
M22X2.5	19.65	38	158	3867	4556
M24X3.0	21.08	45	172	4190	4940



HSS TAPS



FINE PITCH

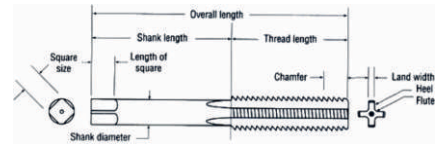
Price RS. / Each

HSSGROUND THREAD HAND TAPS-COARCE PITCH				IS 6175-PART 1,2 & 3 - 1992		
Size	Drill SIZE	TL	OAL	Str. Flute	SPPT (Spiral Point)	Spiral Flute
M3X0.35	2.66	11	48	589	699	768
M4X0.5	3.51	13	53	589	699	768
M5X0.5	4.51	17	58	589	712	768
M6X0.75	5.25	19	66	589	725	768
M8X0.75/1.0	7.27/7.03	16/19	66/69	599	821	893
M10X0.75/1.0/1.25	9.27/9.03/8.78	17/20/20	73/76/76	675	946	1051
M12X1.0/1.25/1.50	11.03/10.78/10.54	20/24/29	80/84/89	1126	1273	1503
M14X1.0/1.25	13.03/12.78	22/25	87/90	1447	1736	2064
M16X1.0	15.03	22	92	1445	1778	2064
M18X1.0/1.5	17.03/16.54	22/29	97/104	2407	2947	3141
M20X2.0	18.05	37	112	3030	3918	4270
M22X2.0	20.05	33	118	3573	4300	4828
M24X1.0/1.5/2	23.03/22.54/22.05	29/35/35	114/120/120	3633	4054	5287
M25X1.5	23.54	35	120	4005	5178	7150
M26X1.5/2.0	24.54	35	120	4442	5597	7480
M27X1.5/2.0	25.54/25.05	37	127	5804	6924	9130
M30X1.0/1.5	29.03/28.54	30/37	120/127	6098	7329	9900

HSSGROUND THREAD LONG SHANK MACHINE TAPS				IS 6175-PART-4 1991	
Size	Drill SIZE	TL	OAL	Type A, C & D	Type B
M3X0.35	2.66	11	66	802	1031
M4X0.5	3.51	13	73	802	953
M5X0.5	4.51	16	79	759	888
M6X0.75	5.25	19	89	759	888
M8X0.75/1.0	7.27/7.03	16/19	91/97	868	1023
M10X0.75/1.0/1.25	9.27/9.03/8.78	17/20/20	104/108/108	1001	1114
M12X1.0/1.25/1.50	11.03/10.78/10.54	20/24/29	110/119/119	1441	1696
M14X1.0/1.25	13.03/12.78	22/25	124/127	1859	2203
M16X1.0	15.03	22	127	2005	2368
M18X1.0/1.5	17.03/16.54	22/29	135/142	3275	3862
M20X2.0	18.05	37	149	4318	5479
M22X2.0	20.05	38	158	4384	5557
M24X1.0	22.54	35	172	4785	6057
M24X1.5	22.54	35	172	4785	6057
M24X2.0	22.05	35	172	4785	6057

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HSS TAPS



BSW/UNC

SizeXTPI	DRILL SIZE	TL	OAL	Str. Flute	Spiral Point (SPPT)
NO.5X40	2.65	11	48	461	557
NO.6X32	2.85	13	50	461	557
NO.8X32	3.50	13	53	461	557
NO.10X24	3.90	16	58	461	557
NO.12X24	4.50	17	62	570	677
1/8X40	2.60	11	48	409	493
3/16X24	3.60	16	58	409	517
1/4X20	5.10	19	66	429	517
5/16X18	6.60	22	72	483	607
3/8X16	8	24	80	590	725
7/16X14	9.40	25	85	759	940
1/2X13	10.80	29	89	962	1156
9/16X12	12.20	30	95	1402	1691
5/8X11	13.50	32	102	1402	1691
11/16	15.00	37	112	2048	2526
3/4X10	16.50	37	112	2130	2564
7/8X9	19.50	38	118	2943	3525
1X8	22.25	45	130	3689	4432
1.1/8X7	25.00	48	138	4955	5947
1.1/4X7	28.00	51	151	5974	7167
1.3/8X6	30.75	57	162	7705	
1.1/2X6	34.00	60	170	9261	

BSF / UNF

Price RS. / Each

Size X TPI	DRILL SIZE	TL	OAL	Str. Flute	Spiral Point (SPPT)
NO.5	2.70	11	48	461	557
NO.6	2.95	13	50	461	570
NO.8	3.50	13	53	461	596
NO.10	4.10	16	58	461	596
NO.12	4.70	17	62	487	602
3/16X32	4.00	16	58	487	602
1/4X26	5.40	19	66	506	607
5/16X22	6.30	22	72	558	676
3/8X20/24	9.80	24	80	694	855
7/16X18/20	11.20	25	85	888	1069
1/2X16/20	12.70	29	89	1091	1286
9/16X16/18	14.00	30	95	1402	1691
5/8X14	15.75	32	102	1661	1820
11/16X14	17.00	37	112	2048	2526
3/4X12	20.00	37	112	2389	3081
7/8X11	23.00	38	118	3331	4043
1X10	26.00	45	130	4595	4950
1.1/8X9	29.00	48	138	5861	5947
1.1/4X9	32.00	57	151	7268	7167
1.3/8X8	35.00	57	162	8999	
1.1/2X8	38.00	60	170	9261	

B.A TAPS

B.A NO	DRILL SIZE	TL	OAL	STRAIGHT FLUTE	SPIRAL POINT
0	5.10	19	66	520	626
1	4.49	17	62	520	626
2	3.97	16	58	461	563
3	3.44	13	53	461	563
4	3.01	13	50	461	563
5	2.67	11	48	461	563
6	2.32	9.5	44.5	507	563
8	1.81	9.5	44.5	855	823
10	1.39	8	41	1020	1186
11	1.22	8	41	1579	1898
12	1.05	7	40	1579	1898

BSP(P), BSPT & NPT TAPS

Size	DRILL SIZE	TL	OAL	BSP(P)	BSPT	NPT
1/8	8.86	3/4	2.1/8	652	926	949
1/4	11.87	1.1/16	2.7/16	1015	1614	1661
3/8	15.38	1.1/16	2.9/16	1526	2076	2111
1/2	19.21	1.3/8	3.1/8	2231	3106	3172
5/8	21.17	1.3/8	3.3/16	2530		
3/4	24.7	1.3/8	3.1/4	3335	4604	3406
7/8	28.46	1.9/16	3.1/2			
1	31.03	1.3/4	3.3/4	5112	7160	7339

SOLID CARBIDE TOOLS

SC END MILL 2/4 FLUTE

Price RS. / Each

DIA	SH.DIA	FL	OAL	vx1 TIALN 45HRC PRICE / EACH	vx2 ALCRONA 55 HRC	vx3 TISINOS 65HRC PRICE / EACH
1.0	3.0	5	40	886	1024	1150
2.0	3.0	10	50	886	1024	1150
3.0	3.0	15	50	886	1024	1150
4.0	4.0	15	50	989	1139	1277
5.0	5.0	20	55	1530	1759	1978
6.0	6.0	20	60	1530	1759	1978
7.0	7.0	25	65	1760	2023	2289
8.0	8.0	25	65	1760	2023	2289
9.0	9.0	30	75	3289	3784	4267
10.0	10.0	30	75	3289	3900	4267
11.0	11.0	35	75	3830	4404	4980
12.0	12.0	35	75	3830	4658	4980
14.0	14.0	40	90	6475	7550	8407
16.0	16.0	40	90	7360	8550	9568
18.0	18.0	40	100	9258	12800	12029
20.0	20.0	40	100	15180	17457	19734
22.0	22.0	40	100	17710	20367	23023
24.0	24.0	40	100	19895	22770	25864
25.0	25.0	40	100	21390	24599	27807

END MILLS

vx1



SC BALL NOSE END MILL 2/4 FLUTE

DIA	SH.DIA	FL	OAL	vx1 TIALN 45HRC PRICE / EACH	vx2 TIALN 55 HRC PRICE / EACH	vx3 TISINOS 65HRC PRICE / EACH
1.0	1.0	5	40	1035	1185	1346
2.0	3.0	10	50	1035	1185	1346
3.0	3.0	10	50	1035	1185	1346
4.0	4.0	15	50	1185	1265	1484
5.0	5.0	20	55	1829	2105	2381
6.0	6.0	20	60	1829	2105	2381
7.0	7.0	25	65	2105	2415	2726
8.0	8.0	25	65	2105	2415	2726
9.0	9.0	30	75	3945	4543	5129
10.0	10.0	30	75	3945	4543	5129
11.0	11.0	35	75	4520	5197	5865
12.0	12.0	35	75	4520	5197	5865
14.0	14.0	40	90	7763	8924	10005
16.0	16.0	40	90	8832	10155	11385
18.0	18.0	40	100	9787	13200	13900
20.0	20.0	40	100	16825	19320	21850
22.0	22.0	40	100	20792	23805	27025
24.0	24.0	40	100	21482	24610	27830
25.0	25.0	40	100	25289	28980	32775

BALL NOSE

vx3



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SOLID CARBIDE TOOLS

SC LONG & EXTRA LONG END MILL 4 FLUTE

Price RS. / Each

DIA	SH.DIA	FL	OAL	VX1 TIALN 45 HRC PRICE / EACH	VX2 ALCRONA 55 HRC	VX3 TISINOS 65 HRC PRICE / EACH
3.0	3.0	20	60	1058	1219	1380
3.0	3.0	25	75	1380	1587	1794
3.0	3.0	30	100	1725	1990	2243
4.0	4.0	20	60	1277	1472	1656
4.0	4.0	25	75	1438	1656	1863
4.0	4.0	40	100	2070	2381	2691
5.0	5.0	20	60	1610	1852	2093
5.0	5.0	25	75	1875	2162	2427
5.0	5.0	40	100	2358	2714	3071
6.0	6.0	35	75	2024	2323	2634
6.0	6.0	40	100	2358	2645	2990
6.0	6.0	50	150	3450	3968	4485
8.0	8.0	35	75	2070	2381	2691
8.0	8.0	40	100	2530	2910	3289
8.0	8.0	75	150	4455	5164	5831
10.0	10.0	40	80	3324	3830	4324
10.0	10.0	40	100	4485	5164	5831
10.0	10.0	75	150	6785	7809	8821
10.0	10.0	75	200	8970	10316	11661
12.0	12.0	50	100	5635	6900	7326
12.0	12.0	75	150	8395	9900	10914
12.0	12.0	75	200	11040	12696	14352
14.0	14.0	40	100	6900	7935	8970
14.0	14.0	75	150	10350	11903	13455
14.0	14.0	75	200	13225	16800	17193
16.0	16.0	75	150	12420	12961	14651
16.0	16.0	75	200	14375	17100	18688
18.0	18.0	75	150	13800	17300	18630
18.0	18.0	75	200	18400	22700	23920
20.0	20.0	75	150	22770	26186	29601
20.0	20.0	75	200	29900	34385	38870
25.0	25.0	75	150	31050	35708	40365
25.0	25.0	75	200	38640	44436	50232

VX1



VX3



VX1 Series 45 HRC TIALN Coated 10% Cobalt (K20UF) Grain Size~0.6-0.8- (µm)

VX2 Series 55 HRC ALCRONA Coated 10% Cobalt (K20-30) Grain Size~0.5-0.6- (µm)

VX3 VX3 Series 65 HRC TISINOS Coated 12% Cobalt (K44-K44UF) Grain Size 0.4 to 0.5 (µm)

SOLID CARBIDE TOOLS

SC LONG & EXTRA LONG BALL NOSE END MILL 2/4 FLUTE

Price RS. / Each

DIA	SH.DIA	FL	OAL	VX1 TIALN 45 HRC PRICE / EACH	VX2 ALCRONA 55 HRC	VX3 TISINOS 65HRC PRICE / EACH
3.0	3.0	20	60	1265	1449	1645
3.0	3.0	25	75	1656	1898	2151
3.0	3.0	30	100	2070	2381	2691
4.0	4.0	20	60	1530	1760	1990
4.0	4.0	25	75	1725	1978	2243
4.0	4.0	40	100	2484	2852	3324
5.0	5.0	20	60	1932	2220	2507
5.0	5.0	25	75	2243	2576	2910
5.0	5.0	40	100	2829	3243	3669
6.0	6.0	30	75	2427	2783	3151
6.0	6.0	40	100	2760	3174	3588
6.0	6.0	50	150	4140	4761	5382
8.0	8.0	35	75	2484	2852	3220
8.0	8.0	40	100	3036	3485	3945
8.0	8.0	75	150	5382	6187	6992
10.0	10.0	40	80	3979	4566	5164
10.0	10.0	40	100	5382	6187	6992
10.0	10.0	75	150	8142	9361	10580
10.0	10.0	75	200	10764	12374	13984
12.0	12.0	50	100	6762	7774	8786
12.0	12.0	75	150	10074	11581	13087
12.0	12.0	75	200	13225	15180	17193
14.0	14.0	40	100	8280	9522	10764
14.0	14.0	75	150	12420	14260	16146
14.0	14.0	75	200	15870	18251	21390
16.0	16.0	75	150	13524	15525	17572
16.0	16.0	75	200	17250	19838	22425
18.0	18.0	75	150	16560	19044	21528
18.0	18.0	75	100	22080	25392	28704
20.0	20.0	75	150	27255	31338	35432
20.0	20.0	75	200	35880	41285	46644
25.0	25.0	75	150	36800	42320	47840
25.0	25.0	75	200	46000	52900	59800

VX1



VX3



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VX1 Series 45 HRC TIALN Coated 10% Cobalt (K20UF) Grain Size~0.6-0.8-(µm)

VX2 Series 55 HRC ALCRONA Coated 10% Cobalt (K20-30) Grain Size~0.5-0.6-(µm)

VX3 VX3 Series 65 HRC TISINOS Coated 12% Cobalt (K44-K44UF) Grain Size 0.4 to 0.5 (µm)

SOLID CARBIDE TOOLS

SC CARBIDE JOBBER DRILLS

Price RS. / Each

DIA	SH.DIA	FL	OAL	VX1 TIALN 45HRC PRICE / EACH	VX2 ALCRONA 55 HRC	VX3 TISINOS 65HRC PRICE / EACH
0.5	3	5	50	920	1058	1196
1	1	12	50	759	874	989
1.5	1.5	18	50	840	966	1093
2.0	3.0	24	49	920	1058	1196
2.5	3.0	30	57	978	1116	1277
3.0	3.0	33	61	1127	1288	1472
3.5	3.5	39	70	1277	1461	1656
4.0	4.0	43	75	1576	1817	2047
4.5	4.5	47	80	1679	1932	2185
5.0	5.0	52	86	1909	2300	2484
5.5	5.5	57	93	2220	2553	2875
6.0	6.0	57	93	2323	2680	3025
6.5	6.5	63	101	2864	3289	3715
7.0	7.0	69	109	2864	3289	3715
7.5	7.5	69	109	3117	3588	4060
8.0	8.0	75	117	3542	4071	4600
8.5	8.5	75	117	3864	4439	5026
9.0	9.0	81	125	4382	5037	5693
9.5	9.5	81	125	5014	6200	6521
10.0	10.0	87	133	5762	6624	7487
10.5	10.5	87	133	6440	7406	8372
11.0	11.0	94	142	7659	8798	9948
12.0	12.0	101	151	8740	10051	11362
13.0	13.0	101	151	10948	12593	14226
14.0	14.0	108	160	13340	15341	17342
15.0	15.0	114	169	15180	17457	19734
16.0	16.0	120	178	20240	23276	26312
18.0	18.0	130	191	25760	29624	33488
20.0	20.0	140	205	34052	39158	44267

VX1



VX1



SOLID CARBIDE N.C SPOTTING DRILLS

DIA	SH.DIA	FL	OAL	VX1 TIALN 50 HRC PRICE / EACH
5.0	5.0	14	65	1610
6.0	6.0	16	65	1921
8.0	8.0	20	80	2921
10.0	10.0	25	80	4405
12.0	12.0	30	100	5957
16.0	16.0	37	110	9695
20.0	20.0	45	130	16100
25.0	25.0	50	130	23345

SOLID CARBIDE TOOLS

SOLID CARBIDE STUB DRILL

Price RS. / Each

DIA	SH.DIA	FL	OAL	VX1 TIALN 45HRC PRICE / EACH	VX2 ALCRONA 55 HRC	VX3 TISINOS 65HRC PRICE / EACH
0.5	1	4	25	725	833	943
1	1	6	38	725	833	943
1.5	1.5	15	40	782	899	1017
2.0	3.0	12	38	817	939	1061
2.5	3.0	14	43	966	1111	1256
3.0	3.0	16	46	1012	1164	1316
3.5	3.5	20	52	1265	1455	1645
4.0	4.0	22	55	1357	1561	1764
4.5	4.5	24	58	1553	1786	2019
5.0	5.0	26	62	1794	2063	2332
5.5	5.5	28	66	1863	2142	2422
6.0	6.0	28	66	2001	2301	2601
6.5	6.5	31	70	2185	2513	2841
7.0	7.0	34	74	2392	2751	3110
7.5	7.5	34	74	2726	3135	3544
8.0	8.0	37	79	3163	3637	4112
8.5	8.5	37	79	3163	3637	4112
9.0	9.0	40	84	3611	4153	4694
9.5	9.5	40	84	4140	4761	5382
10.0	10.0	43	89	4635	5330	6026
10.5	10.5	43	89	6084	6997	7909
11.0	11.0	47	95	6084	6997	7909
11.5	11.5	47	95	6084	6997	7909
12.0	12.0	51	102	6084	7200	7909
12.5	12.5	51	102	9085	10448	11811
13.0	13.0	51	103	9085	10448	11811
14.0	14.0	54	107	9085	10448	11811
14.5	14.5	54	107	12075	13886	15698
15.0	15.0	56	107	12075	13886	15698
16.0	16.0	58	110	13524	15553	17581
18.0	18.0	60	110	18803	21623	24443
20.0	20.0	60	110	23690	27244	30797
22.0	22.0	60	110	26393	30351	34310
24.0	24.0	60	110	28290	32534	36777
25.0	25.0	60	110	30935	35575	40216

VX1



VX3



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On request availability

* Step Drill and special Drill as per Drawing

* Drill for aluminum application

SOLID CARBIDE TOOLS

SOLID CARBIDE REAMER

VX1

Price RS. / Each

DIA	SH.DIA	FL	OAL	VX1 TIALN 45HRC PRICE / EACH
3.0	3.0	16	65	1449
4.0	4.0	19	65	1610
5.0	5.0	25	80	2335
6.0	6.0	25	80	2806
8.0	8.0	40	100	3565
10.0	10.0	40	100	5750
12.0	12.0	40	100	7590
14.0	14.0	50	100	11489
16.0	16.0	50	160	14490



SOLID CARBIDE ROUGHING END MILL

VX1

DIA	SH.DIA	FL	OAL	VX1 TIALN 45HRC PRICE / EACH
6.0	6.0	16	63	2990
7.0	7.0	16	63	2990
8.0	8.0	16	63	2990
10.0	10.0	40	90	5750
12.0	12.0	40	90	6900
12.0	12.0	100	150	13340
12.0	12.0	100	200	16100
14.0	14.0	40	90	20240
16.0	16.0	100	150	21160
16.0	16.0	100	200	25300
20.0	20.0	100	150	29900
20.0	20.0	100	200	34960
25.0	25.0	100	150	39100
25.0	25.0	100	200	45195
32.0	32.0	100	150	69000
32.0	32.0	100	200	82800



SOLID CARBIDE TOOL

SOLID CARBIDE THROUGH COOLANT DRILL

Price RS. / Each

DIA	SH.DIA	FL	OAL	VX3 TISINOS 65HRC PRICE / EACH
6.0	6.0	44	82	4715
6.0	6.0	53	91	7475
7.0	8.0	53	91	7475
7.5	8.0	53	91	7475
8.0	8.0	53	91	7475
8.5	10.0	61	103	10925
9.0	10.0	61	103	10925
9.5	10.0	61	103	10925
10.0	10.0	61	103	10925
10.2	12.0	71	118	13800
12.0	12.0	71	118	13800
14.0	14.0	77	124	18975
15.0	15.0	77	133	25300
16.0	16.0	83	133	25300

VX3



SOLID CARBIDE CENTRE DRILL

PILOT DIA	BODY DIA	OAL	VX1 TIALN 45 HRC PRICE / EACH
2.0	5.0	50	2300
2.5	6.3	50	2680
3.15	8.0	65	3450
4.0	10.0	65	4428
5.0	12.5	65	5842
6.3	16.0	75	9764
8.0	20.0	80	13340

VX1



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On request availability

- * Step Drill and special Drill as per Drawing
- * Drill for aluminum application

VX1 Series 45 HRC TIALN Coated 10% Cobalt (K20UF) Grain Size~0.6-0.8- (µm)

VX2 Series 55 HRC ALCRONA Coated 10% Cobalt (K20-30) Grain Size~0.5-0.6- (µm)

VX3 Series 65 HRC TISINOS Coated 12% Cobalt (K44-K44UF) Grain Size 0.4 to 0.5 (µm)

HARDNESS COMPRASION

BRINELL HARDNESS (HB)	VICKERS HARDNESS (HV)	ROCKWELL HARNESS (HRc)
111	117	-
116	122	-
121	127	-
126	132	-
131	137	-
137	143	-
143	150	-
149	156	-
156	163	-
163	171	-
167	175	-
170	178	-
174	182	-
179	188	-
183	192	-
187	196	-
192	202	-
197	207	-
201	212	-
207	218	-
212	222	-
217	228	-
223	234	-
229	241	20.5
235	247	21.7
241	253	22.8
248	261	24.2

BRINELL HARDNESS (HB)	VICKERS HARDNESS (HV)	ROCKWELL HARNESS (HRc)
255	269	25.4
262	276	26.6
267	284	27.6
277	292	28.8
285	301	29.9
293	309	30.9
302	319	32.1
311	328	33.1
321	339	34.3
331	350	35.5
341	360	36.6
352	372	37.9
363	383	39.1
375	396	40.4
388	410	41.8
401	425	43.1
415	440	44.5
429	455	45.7
444	472	47.1
461	491	48.5
477	508	49.6
495	528	51.0
514	547	52.1
534	569	53.5
565	591	54.7
578	615	56.0

BRINELL HARDNESS (HB)	VICKERS HARDNESS (HV)	ROCKWELL HARNESS (HRc)
601	640	57.3
627	667	58.7
630	670	58.8
638	680	59.2
647	690	59.7
653	697	60.0
656	700	60.1
670	720	61.0
682	737	61.7
684	740	61.8
698	760	62.5
710	780	63.3
712	782	63.5
722	800	64.0
733	800	66.4
745	820	64.7
757	840	65.3
767	860	65.9
-	900	67.0
-	920	67.5
-	940	68.0
-	970	68.6
-	1000	69.1
-	1050	69.8
-	1100	70.4
-	1200	71.5

FILES STEELS - CHEMICAL COMPOSITION

GRADE	Chemical Composition %					
	C	Cr.	Mn.	Si.	S.	P
	Carbon	Chromium	Mangeneses	Silicon	Sulpher	Phosphorous
FILES	1.33	0.53	0.38	0.22	0.029	0.016

HIGH SPEED STEELS - CHEMICAL COMPOSITION

HSS GRADE	Chemical Composition %					
	C	Cr.	Mo.	W	Co.	V
	Carbon	Chromium	Molybdenum	Tungsten	Cobalt	Vanadium
M2	0.9	4.2	5	6.4	-	1.8
M7	1.02	3.8	8.6	1.8	-	1.9
M35	0.93	4.2	5	6.4	4.8	1.8
M42	1.08	3.8	9.4	1.5	8	1.2
T42	1.25	4	3.6	1.5	10	3.2
ASP2017	0.8	4.2	3	3	8	1
ASP2030	1.28	4.2	5	6.4	8.5	3.1
AST2060	2.3	4.2	7	6.5	10.5	6.5

SUGGESTED PARAMETERS - SPEED & FEED DATA

Cutting Speed. (Vc) = $\pi \times D \times S / 1000$
 Spindle Speed (s) = $Vc \times 1000 / \pi D$
 Feed (F) = S x f x N
 Feed Per Tooth (f) = F / S x N

Vc = Cutting Speed (v)
 π = The Cricular Constant (3.14)
 D = Diameter (min-1)
 S = Spindle Speed (-1)
 F = Feed (mm/min-1)
 F = Feed Per Tooth(mm/Tooth)
 N = Number of Flutes

Application : Side - Milling

Work Material	Carboon Steels < 28HRC		Allowy Steels 28 to 45 HRC		Prehardened Steels HPM, NAK < 45 HRC		Hardened Steels > 52HRC		Copper	
Cutting Speed	50-80m/min		50-70m/min		40-60m/min		20-40m/min		60-68m/min	
Dia	Side Milling		Side Milling		Side Milling		Side Milling		Side Milling	
	Spindle Speed	Feed	Spindle Speed	Feed	Spindle Speed	Feed	Spindle Speed	Feed	Spindle Speed	Feed
	min-1	mm/min	min-1	mm/min	min-1	mm/min	min-1	mm/min	min-1	mm/min
1	20700 - 6400	320 - 100	19100 - 4800	230 - 60	15900 - 4000	200 - 55	9,500	120	22300 - 8000	410 - 150
1.5	13800 - 4200	320 - 100	12700 - 3200	230 - 60	10600 - 2700	200 - 55	6,400	120	14900 - 5300	450 - 150
2	10300 - 3200	320 - 100	9500 - 2400	260 - 70	8000 - 2000	230 - 60	4,800	120	11100 - 4000	500 - 190
2.5	8300 - 2500	380 - 180	7600 - 1900	270 - 70	6400 - 1600	240 - 60	3,800	120	8900 - 3200	540 - 200
3	6900 - 2100	420 - 130	6400 - 1600	290 - 75	5300 - 1300	260 - 70	3,200	120	7400 - 2700	560 - 210
3.5	5900 - 1800	450 - 140	5500 - 1400	290 - 75	4500 - 1100	260 - 70	2,700	130	6400 - 2300	570 - 210
4	5200 - 1600	530 - 160	4800 - 1200	320 - 90	4000 - 1000	290 - 80	2,400	160	5600 - 2000	660 - 240
4.5	4600 - 1400	540 - 140	4200 - 1100	360 - 90	3500 - 900	320 - 85	2,100	160	5000 - 1800	680 - 240
5	4100 - 1300	560 - 170	3800 - 1000	390 - 100	3200 - 800	360 - 90	1,900	160	4500 - 1600	700 - 240
5.5	3800 - 1200	560 - 170	3500 - 1000	410 - 100	2900 - 500	370 - 90	1,700	160	4100 - 1400	700 - 240
6	3400 - 1100	580 - 190	3200 - 800	440 - 110	2700 - 700	410 - 100	1,600	170	3700 - 1300	700 - 240
8	2600 - 800	540 - 160	2400 - 600	410 - 100	2000 - 500	370 - 90	1,200	170	2800 - 1000	610 - 220
10	2100 - 600	510 - 150	1900 - 500	390 - 100	1600 - 400	360 - 85	1,000	170	2200 - 800	560 - 200
12	1700 - 500	460 - 140	1600 - 400	370 - 90	1300 - 300	340 - 80	800	170	1900 - 700	540 - 200
Depth of Cut	Side Milling 2D $\phi 1 \sim 2.5 = 0.07D$ $\phi 3 \sim 6 = 0.15D$ $\phi 8 \sim 12 = 0.2D$		Side Milling 5D $\phi 1 \sim 2.5 = 0.03D$ $\phi 3 \sim 6 = 0.906D$ $\phi 8 \sim 12 = 0.08D$		Side Milling 2D ~ 5D 0.02D ~ 0.06D		Side Milling 2D ~ 5D 0.2D ~ 0.06D		Side Milling 2D ~ 5D 0.2D ~ 0.06D	

Use cutting fluid with smoke retardant.

Recommend to use oil mist coolant for machining hardened steels

Available only for Side Cutting

Adjust both spindle speed and feed of the same rate.

- VX1** Series 45 HRC TIALN Coated 10% Cobalt (K20UF) Grain Size~0.6-0.8- (µm)
- VX2** Series 55 HRC ALCRONA Coated 10% Cobalt (K20-30) Grain Size~0.5-0.6- (µm)
- VX3** Series 65 HRC TISINOS Coated 12% Cobalt (K44-K44UF) Grain Size 0.4 to 0.5 (µm)



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V3 TOOLS

Plot No.41, Hasanpur, Patparganj, Delhi-110092
Ph.: +91-11-47053480 Mob.: +91-9711945194
Email : v3tool20@gmail.com, v3tools15@gmail.com

V3 ADVANCE TOOLS PVT. LTD.

Plot No. 2900/140, INDOCHM, GIDC, BHARUCH,
ANKLESHWAR, GUJARAT
Mob.: +91-9711945194, Email : v3tool20@gmail.com