

1、 FLAT BOTTOM ENGRAVING BITS



K10 solid carbide					
FOR: ABS, PVC, ACRYLIC, PLASTIC					
“JS “ TYPE GOOD FOR ALUMINUM BRASS,STEEL					
MODE	2T	2A	SHK	OVL	PRICE(usd)
J3.0502	0.2	5	3.175	33	\$3.1
J3.0802	0.2	8	3.175	33	\$3.1
J3.1001	0.1	10	3.175	33	\$2.0
J3.1002	0.2	10	3.175	33	\$2.0
J3.1003	0.3	10	3.175	33	\$2.0
J3.1501	0.1	15	3.175	33	\$2.0
J3.1502	0.2	15	3.175	33	\$2.0
J3.2001	0.2	20	3.175	33	\$2.0
J3.2002	0.2	20	3.175	33	\$2.0
J3.2003	0.3	20	3.175	33	\$2.0
J3.2004	0.4	20	3.175	33	\$2.0
J3.2005	0.5	20	3.175	33	\$2.0
J3.2501	0.1	25	3.175	33	\$2.0
J3.2502	0.2	25	3.175	33	\$2.0
J3.2503	0.3	25	3.175	33	\$2.0
J3.3001	0.1	30	3.175	33	\$2.0
J3.3002	0.2	30	3.175	33	\$2.0
J3.3003	0.3	30	3.175	33	\$2.0
J3.3004	0.4	30	3.175	33	\$2.0
J3.3005	0.5	30	3.175	33	\$2.0
J3.3006	0.6	30	3.175	33	\$2.0
J3.3008	0.8	30	3.175	33	\$2.0
J3.3010	1	30	3.175	33	\$2.0
J3.3012	1.2	30	3.175	33	\$2.0
J3.3015	1.5	30	3.175	33	\$2.0
J3.3020	2	30	3.175	33	\$2.0

J3.4001	0.1	40	3.175	33	\$2.0
J3.4002	0.2	40	3.175	33	\$2.0
J3.4003	0.3	40	3.175	33	\$2.0
J3.4501	0.1	45	3.175	33	\$2.0
J3.4502	0.2	45	3.175	33	\$2.0
J3.4503	0.3	45	3.175	33	\$2.0
J3.4505	0.5	45	3.175	33	\$2.0
J3.6002	0.2	60	3.175	33	\$2.0
J3.6003	0.3	60	3.175	33	\$2.0
J3.6005	0.5	60	3.175	33	\$2.0
J3.9002	0.2	90	3.175	33	\$2.0
J3.9003	0.3	90	3.175	33	\$2.0
J3.2001L	0.1	20	3.175	40	\$3.1
J3.2002L	0.2	20	3.175	40	\$3.1
J3.3001L	0.1	30	3.175	40	\$3.1
J3.3002L	0.2	30	3.175	40	\$3.1
J3.3003L	0.3	30	3.175	40	\$3.1
J3.4502L	0.2	45	3.175	40	\$3.1
J3.6002L	0.2	60	3.175	40	\$3.1
J3.9002L	0.2	90	3.175	40	\$3.1
J42001	0.1	20	4	40	\$3.3
J42002	0.2	20	4	40	\$3.3
J42501	0.1	25	4	40	\$3.3
J42502	0.2	25	4	40	\$3.3
J43001	0.1	30	4	40	\$3.3
J43002	0.2	30	4	40	\$3.3
J43003	0.3	30	4	40	\$3.3
J44502	0.2	45	4	40	\$3.3
J44503	0.3	45	4	40	\$3.3
J43002L	0.2	20	4	75	\$7.1
J43002L	0.2	30	4	75	\$7.1
J61502	0.2	15	6	40	\$8.2
J62002	0.2	20	6	40	\$7.1
J62502	0.2	25	6	40	\$7.1
J63002	0.2	30	6	40	\$7.1
J64002	0.2	40	6	40	\$7.1
J64003	0.3	40	6	40	\$7.1
J64502	0.2	45	6	40	\$7.1
J64505	0.5	45	6	40	\$7.1

J66002	0.2	60	6	40	\$7.1
J66005	0.5	60	6	40	\$7.1
J66010	1	60	6	40	\$7.1
J66015	1.5	60	6	40	\$7.1
J66020	2	60	6	40	\$7.1
J69002	0.2	90	6	40	\$7.1
J69005	0.5	90	6	40	\$7.1
J612002	0.2	120	6	40	\$7.1
J64502L	0.2	45	6	100	\$16.3
J66002L	0.2	60	6	100	\$16.3
J84502	0.2	45	8	50	\$12.2
J86002	0.2	60	8	50	\$12.2
J89002	0.2	90	8	50	\$12.2
J104502	0.2	45	10	60	\$20.4
J106002	0.2	60	10	60	\$20.4
J109002	0.2	90	10	60	\$20.4
J1012002	0.2	120	10	60	\$20.4
J126002	0.2	60	12	60	\$30.6
J129002	0.2	90	12	60	\$30.6
J1212002	0.2	120	12	60	\$30.6
JS3.2002	0.2	20	3.175	33	\$2.4
JS3.3002	0.2	30	3.175	33	\$2.4
JS3.3003	0.3	30	3.175	33	\$2.4
JS3.3004	0.4	30	3.175	33	\$2.4
JS3.4002	0.2	40	3.175	33	\$2.4
JS3.4003	0.3	40	3.175	33	\$2.4
JS3.4502	0.2	45	3.175	33	\$2.4
JS3.4503	0.3	45	3.175	33	\$2.4
JS3.5003	0.3	50	3.175	33	\$2.4
JS3.5004	0.4	50	3.175	33	\$2.4

2. THREE/FOUR FACE ENGRAVING BITS



K10 solid carbide					
FOR: BRASS,STEEL,STONE					
MODE	TIP SIZE	FULLANGLE	SHK	OVL	PRICE(usd)
3J3.1001	0.1	10	3.175	33	\$2.4
3J3.1501	0.1	15	3.175	33	\$2.0
3J3.2001	0.1	20	3.175	33	\$2.0
3J3.2501	0.1	25	3.175	33	\$2.0
3J3.3001	0.1	30	3.175	33	\$2.0
3J3.4001	0.1	40	3.175	33	\$2.0
3J3.4501	0.1	45	3.175	33	\$2.0
3J3.6001	0.1	60	3.175	33	\$2.0
3J63001	0.1	30	6	40	\$7.1
3J64501	0.1	45	6	40	\$7.1
3J66001	0.1	60	6	40	\$7.1
3J69001	0.1	90	6	40	\$7.1
4J3.4501	0.1	45	3.175	33	\$2.0
4J3.6001	0.1	60	3.175	33	\$2.0
4J3.9001	0.1	90	3.175	33	\$2.0
4J64501	0.1	45	6	40	\$7.1
4J66001	0.1	60	6	40	\$7.1
4J67001	0.1	70	6	40	\$7.1
4J68001	0.1	80	6	40	\$7.1
4J69001	0.1	90	6	40	\$7.1
4J612001	0.1	120	6	40	\$7.1

3、 RADIUSSED BOTTOM ENGRAVING BITS



K10 solid carbide						
FOR: ABS, PVC, ACRYLIC, PLASTIC,WOOD						
MODE	2R	CEL	2A	SHK	OVL	PRICE(usd)
YDJ3.1004	0.4	16	10	3.175	33	\$3.7
YDJ3.1006	0.6	14.5	10	3.175	33	\$3.1
YDJ3.1008	0.8	13.5	10	3.175	33	\$3.1
YDJ3.1010	1	12.5	10	3.175	33	\$3.1
YDJ3.1015	1.5	9.5	10	3.175	33	\$3.1
YDJ3.1505	0.5	9.4	15	3.175	33	\$3.1
YDJ3.1510	1	8.3	15	3.175	33	\$3.1
YDJ3.2010	1	6.2	20	3.175	33	\$3.1
YDJ41505	0.5	13.2	15	4	40	\$5.1
YDJ41510	1	11.2	15	4	40	\$5.1
YDJ41515	1.5	9	15	4	40	\$5.1
YDJ41520	2	7	15	4	40	\$5.1
YDJ42005	0.5	10	20	4	40	\$5.1
YDJ42010	1	8.5	20	4	40	\$5.1
YDJ42015	1.5	7.5	20	4	40	\$5.1
YDJ42505	0.5	7	25	4	40	\$5.1
YDJ42510	1	6	25	4	40	\$5.1
YDJ61505	0.5	20.5	15	6	50	\$9.2
YDJ61508	0.8	19.7	15	6	50	\$9.2
YDJ61510	1	18.9	15	6	50	\$9.2
YDJ61515	1.5	17	15	6	50	\$9.2
YDJ61520	2	15	15	6	50	\$9.2
YDJ62006	0.6	15	20	6	50	\$9.2
YDJ62008	0.8	14.5	20	6	50	\$9.2
YDJ62010	1	14	20	6	50	\$9.2
YDJ62504	0.4	12.5	25	6	50	\$9.2
YDJ62506	0.6	12	25	6	50	\$9.2
YDJ62508	0.8	11.7	25	6	50	\$9.2
YDJ62510	1	11	25	6	50	\$9.2
YDJ63004	0.4	10.4	30	6	50	\$9.2
YDJ63006	0.6	10	30	6	50	\$9.2
YDJ63008	0.8	9.7	30	6	50	\$9.2
YDJ63010	1	9.3	30	6	50	\$9.2

4、 3D ENGRAVING BITS



FOR: acrylic,pvc,MDF

"B" type are made up of better solid carbide

MODE	CED	FULL ANGLE	TIP SIZE	SHK	PRICE(usd)
V3.645	6	45*	0.2	3.175	\$8.2
V3.660	6	60*	0.2	3.175	\$8.2
V3.690	6	90*	0.2	3.175	\$8.2
V3.845	8	45*	0.2	3.175	\$10.2
V3.890	8	90*	0.2	3.175	\$10.2
V3.8120	8	120*	0.2	3.175	\$10.2
V3.8150	8	150*	0.2	3.175	\$10.2
V61045	10	45*	0.2	6	\$7.1
V61060	10	60*	0.2	6	\$7.1
V61090	10	90*	0.2	6	\$7.1
V610120	10	120*	0.2	6	\$7.1
V610150	10	150*	0.2	6	\$7.1
V61660	16	60*	0.2	6	\$8.2
V61690	16	90*	0.2	6	\$8.2
V616120	16	120*	0.2	6	\$8.2
V62260	22	60*	0.2	6	\$9.2
V62290	22	90*	0.2	6	\$9.2
V622120	22	120*	0.2	6	\$9.2
V622150	22	150*	0.2	6	\$9.2
V63260	32	60*	0.2	6	\$10.2
V63290	32	90*	0.2	6	\$10.2
V632110	32	110*	0.2	6	\$10.2
V632120	32	120*	0.2	6	\$10.2
V632130	32	130*	0.2	6	\$10.2
V632135	32	135*	0.2	6	\$10.2
V632140	32	140*	0.2	6	\$10.2
V632150	32	150*	0.2	6	\$10.2
V103290	32	90*	0.2	10	\$11.2
V1032120	32	120*	0.2	10	\$11.2

V12.3290	32	90*	0.2	12.7	\$12.2
V12.32120	32	120*	0.2	12.7	\$12.2
V12.4590	45	90*	0.2	12.7	\$16.3
V12.45120	45	120*	0.2	12.7	\$16.3
BV62290	22	90*	0.2	6	\$16.3
BV622120	22	120*	0.2	6	\$16.3
BV63290	32	90*	0.2	6	\$18.3
BV632120	32	120*	0.2	6	\$18.3

5. TWO FLUTE SPIRAL BITS



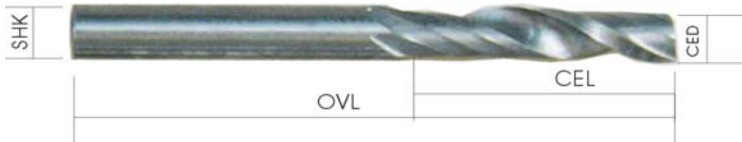
unit: MM

FOR: acrylic ,PVC,MDF					
"B" TYPE ARE MADE UP OF BETTER SOLID CARBIDE					
MODE	CED	CEL	SHK	OVL	PRICE(USD)
2LX3.0.804	0.8	3	3.175	40	\$3.1
2LX3.1.04	1	4	3.175	40	\$2.4
2LX3.1.206	1.2	6	3.175	40	\$2.4
2LX3.1.507	1.5	7	3.175	40	\$2.4
2LX3.1.512	1.5	12	3.175	40	\$2.4
2LX3.208	2	8	3.175	40	\$2.4
2LX3.212	2	12	3.175	40	\$2.4
2LX3.217	2	17	3.175	40	\$2.4
2LX3.222	2	22	3.175	50	\$3.1
2LX3.2.411	2.4	11	3.175	40	\$2.4
2LX3.2.515	2.5	15	3.175	40	\$3.1
2LX3.08	3.175	8	3.175	40	\$2.0
2LX3.12	3.175	12	3.175	40	\$2.0
2LX3.15	3.175	15	3.175	40	\$2.0
2LX3.17	3.175	17	3.175	40	\$2.0
2LX3.20	3.175	20	3.175	40	\$2.0
2LX3.22	3.175	22	3.175	50	\$2.0
2LX3.25	3.175	25	3.175	50	\$2.4
2LX3.28	3.175	28	3.175	50	\$3.1
2LX3.32	3.175	32	3.175	60	\$3.7
2LX3.42	3.175	42	3.175	60	\$4.1
2LX3.52	3.175	52	3.175	70	\$4.5
2LX412	4	12	4	40	\$3.1
2LX417	4	17	4	40	\$3.1

2LX422	4	22	4	45	\$3.7
2LX425	4	25	4	50	\$3.7
2LX428	4	28	4	50	\$4.1
2LX432	4	32	4	60	\$5.1
2LX442	4	42	4	70	\$6.1
2LX452	4	52	4	80	\$7.1
2LX412L	4	12	4	75	\$4.1
2LX517	5	17	5	50	\$7.1
2LX522	5	22	5	50	\$7.1
2LX6312	3	12	6	50	\$9.2
2LX6317	3	17	6	50	\$9.2
2LX6322	3	22	6	50	\$9.2
2LX6417	4	17	6	50	\$9.2
2LX6422	4	22	6	50	\$9.2
2LX6522	5	22	6	50	\$9.2
2LX612	6	12	6	50	\$7.1
2LX617	6	17	6	50	\$7.1
2LX622	6	22	6	50	\$7.1
2LX625	6	25	6	50	\$7.1
2LX632	6	32	6	60	\$8.2
2LX642	6	42	6	70	\$10.2
2LX652	6	52	6	80	\$12.2
2LX672	6	72	6	100	\$16.3
2LX617L	6	17	6	100	\$12.2
2LX6.22	6.35	22	6.35	50	\$8.2
2LX825	8	25	8	25	\$12.2
2LX832	8	32	8	32	\$14.3
2LX842	8	42	10	42	\$16.3
2LX1025	10	25	10	25	\$20.4
2LX1035	10	35	10	35	\$24.5
2LX1045	10	45	10	45	\$28.5
B2LX3.104	1	4	3.175	40	\$5.1
B2LX3.1.507	1.5	7	3.175	40	\$5.1
B2LX3.208	2	8	3.175	40	\$5.1
B2LX3.12	3.175	12	3.175	40	\$5.1
B2LX3.17	3.175	17	3.175	40	\$5.1
B2LX3.22	3.175	22	3.175	40	\$5.1
B2LX412	4	12	4	40	\$7.1
B2LX417	4	17	4	40	\$7.1

B2LX422	4	22	4	45	\$7.1
B2LX425	4	25	4	50	\$7.1
B2LX617	6	17	6	50	\$10.2
B2LX622	6	22	6	50	\$10.2
B2LX625	6	25	6	50	\$10.2

6、 ONE FLUTE SPIRAL BITS



for: PVC, MDF					
"B" TYPE ARE MADE UP OF BETTER SOLID CARBIDE					
mode	CED	CEL	SHK	OVL	PRICE(usd)
1LX3.205	2	5	3.175	40	\$5.1
1LX3.212	2	12	3.175	40	\$5.1
1LX3.12	3.175	12	3.175	40	\$2.4
1LX3.17	3.175	17	3.175	40	\$2.4
1LX3.22	3.175	22	3.175	45	\$2.4
1LX3.25	3.175	25	3.175	45	\$3.1
1LX3.28	3.175	28	3.175	50	\$3.1
1LX3.32	3.175	32	3.175	55	\$3.7
1LX3.42	4	42	3.175	60	\$4.1
1LX412	4	12	4	40	\$3.1
1LX417	4	17	4	40	\$3.1
1LX422	4	22	4	45	\$3.7
1LX425	4	25	4	50	\$3.7
1LX432	4	32	4	60	\$4.5
1LX442	4	42	4	70	\$5.1
1LX452	4	52	4	80	\$6.1
1LX617	6	17	6	50	\$7.7
1LX622	6	22	6	50	\$7.7
1LX625	6	25	6	50	\$7.7
1LX632	6	32	6	60	\$9.2
1LX642	6	42	6	70	\$10.2
1LX652	6	52	6	80	\$12.2
1LX672	6	72	6	100	\$16.3
B1LX3.12	3.175	12	3.175	40	\$5.1
B1LX3.17	3.175	17	3.175	40	\$5.1
B1LX3.22	3.175	22	3.175	40	\$5.1

B1LX412	4	12	4	40	\$7.1
B1LX417	4	17	4	40	\$7.1
B1LX422	4	22	4	45	\$7.1
B1LX622	6	22	6	50	\$11.2
B1LX625	6	25	6	50	\$11.2

7、 half round straight bits



FOR:ABS, ACRYLIC					
MODE	CED	CEL	SHK	OVL	PRICE(usd)
OZX3.0.803	0.8	3.5	3.175	33	\$2.4
OZX3.1.004	1	4	3.175	33	\$2.4
OZX3.1.205	1.2	5	3.175	33	\$2.4
OZX3.1.505	1.5	5	3.175	33	\$2.4
OZX3.207	2	6	3.175	33	\$2.4
OZX3.210	2	10	3.175	33	\$3.1
OZX3.2.507	2.5	7	3.175	33	\$2.4
OZX3.2.512	2.5	12	3.175	33	\$3.1
OZX3.10	3	10	3.175	33	\$2.4
OZX3.15	3	15	3.175	33	\$3.7
OZX412	4	12	4	40	\$4.1
OZX6513	5	13	6	40	\$8.2
OZX615	6	15	6	40	\$8.2

8、 three flute spiral bits



MODE	CED	CEL	SHK	OVL	PRICE(usd)
3LX3.12	3.175	12	3.175	40	\$2.4
3LX3.17	3.175	17	3.175	s	\$2.4
3LX3.22	3.175	22	3.175	40	\$2.4
3LX3.25	3.175	25	3.175	45	\$3.1
3LX422	4	22	4	45	\$4.1
3LX622	6	22	6	50	\$8.2
3LX632	6	32	6	60	\$10.2
3LX652	6	52	6	80	\$14.3
3LX672	6	72	6	100	\$18.3

9、two straight flute end mills



ror: plywood,mdf

MODE	CED	CEL	SHK	OVL	PRICE(usd)
2ZX3.1.205	1.2	5	3.175	40	\$4.1
2ZX3.1.506	1.5	6	3.175	40	\$4.1
2ZX3.208	2	8	3.175	40	\$4.1
2ZX3.2.512	2.5	12	3.175	40	\$4.1
2ZX3.12	3.175	12	3.175	40	\$3.7
2ZX3.17	3.175	17	3.175	40	\$3.7
2ZX417	4	17	4	40	\$6.1
2ZX422	4	22	4	45	\$6.1
2ZX617	6	17	6	50	\$10.2
2ZX622	6	22	6	50	\$10.2
2ZX628	6	28	6	60	\$10.2
2ZX632	6	32	6	65	\$10.2
2ZX825	8	25	8	60	\$20.4
2ZX835	8	35	8	70	\$30.6

10、CLEANING BOTTOM BITS



MODE	CED	CEL	SHK	OVL	PRICE(usd)
QD3.8	8	10	3.175	40	\$10.2
QD610	10	10	6	55	\$7.1
QD616	16	12	6	55	\$8.2
QD622	22	15	6	55	\$10.2
QD630	30	15	6	55	\$12.2
QD12.22	22	20	12.7	55	\$12.2
QD12.32	32	25	12.7	55	\$12.2
QD12.45	45	30	12.7	60	\$16.3



MODE	CED	A	SHK	OVL	PRICE(usd)
QDA45610	10	45	6	55	\$11.2
QDA45616	16	45	6	s	\$11.2
QDA45622	22	45	6	55	\$11.2
QDA30610	10	30	6	55	\$11.2
QDA30616	16	30	6	55	\$11.2
QDA30622	22	30	6	55	\$11.2
QDA15610	10	15	6	55	\$11.2
QDA15616	16	15	6	55	\$11.2
QDA15622	22	15	6	55	\$11.2

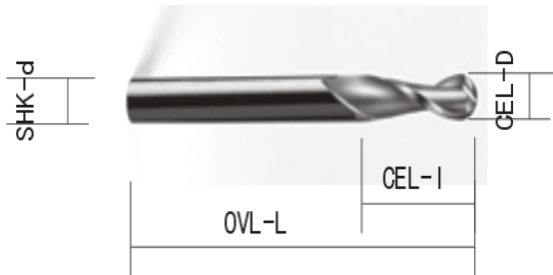


MODE	CED	R	SHK	OVL	PRICE(usd)
QDB610	10	2	6	45	\$11.2
QDB616	16	3	6	45	\$11.2
QDB622	22	4	6	45	\$11.2









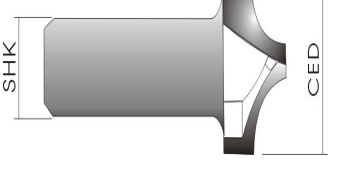


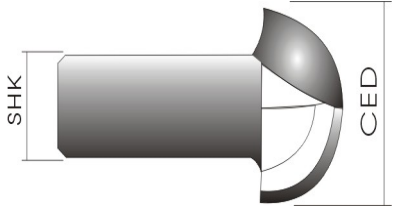
MODE	CED	R	SHK	OVL	PRICE(usd)
QDC610	10	2	6	55	\$11.2
QDC616	16	3	6	55	\$11.2
QDC622	22	4	6	55	\$11.2

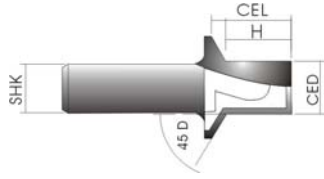
11、two flute end mills



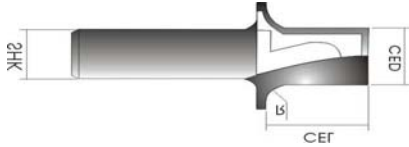
MODE	CED	CEL	SHK	OVL	PRICE(usd)
2QX3.0.803	0.8	3	3.175	40	\$4.1
2QX3.1.004	1	4	3.175	40	\$3.7
2QX3.1.505	1.5	5	3.175	40	\$3.1
2QX3.208	2	8	3.175	40	\$3.1
2QX3.212	2	12	3.175	40	\$3.7
2QX3.2.410	2.4	10	3.175	40	\$3.1
2QX3.12	3.175	12	3.175	40	\$2.4
2QX3.17	3.175	17	3.175	40	\$2.4
2QX3.22	3.175	22	3.175	40	\$3.1
2QX412	4	12	4	40	\$3.7
2QX417	4	17	4	40	\$3.7
2QX422	4	22	4	45	\$4.1
2QX432	4	32	4	55	\$5.1
2QX612	6	12	6	50	\$8.2
2QX617	6	17	6	50	\$8.2
2QX622	6	22	6	50	\$8.2
2QX632	6	32	6	60	\$10.2
2QX642	6	42	6	70	\$12.2
2QX672	6	72	6	100	\$16.3
B2QX3.12	3.175	12	3.175	40	\$5.1
B2QX3.17	3.175	17	3.175	40	\$5.1
B2QX3.22	3.175	22	3.175	45	\$5.1
B2QX417	4	17	4	40	\$7.1
B2QX422	4	22	4	45	\$7.1
B2QX617	6	17	6	50	\$12.2
B2QX622	6	22	6	50	\$12.2

12. CLASSICAL OGEE BITS

PICTURE	MODE	SHK	CED	PRICE(usd)
	HBDA616	6	16	\$10.2
	HBDA626	6	26	\$10.2
	HBDA12.2	12.7	26	\$10.2
	HBDB616	6	16	\$10.2
	HBDB626	6	26	\$10.2
	HBDB12.2	12.7	26	\$10.2
	HBDC616	6	16	\$10.2
	HBDC626	6	26	\$10.2
	HBDC12.2	12.7	26	\$10.2
	HBDD616	6	16	\$10.2
	HBDD622	6	22	\$10.2
	HBDE612	6	12	\$10.2
	HBDE616	6	16	\$10.2
	HBDE622	6	22	\$10.2
	HBDE12.3	12.7	32	\$16.3
	HBDF626	6	26	\$16.3
	HBDF12.3	12.7	34	\$16.3
	NRD616	6	16	\$8.2
	NRD624		24	\$9.2
	NRD632		32	\$10.2
	NRD12.24	12.7	24	\$10.2
	NRD12.32		32	\$10.2
	NRD12.45		45	\$12.2
	JZD610	6	10	\$10.2
	JZD616		16	\$10.2
	JZD624		24	\$10.2
	JZD12.24	12.7	24	\$10.2
	JZDB612	6	12	\$12.2
	JZDB616	6	16	\$12.2
	JZDB12.24	12.7	24	\$13.2
	YDD610	6	10	\$8.2
	YDD620		20	\$9.2
	YDD625		25	\$10.2
	YDD630		30	\$10.2
	YDD12.20	12.7	20	\$10.2
	YDD12.25		25	\$10.2
	YDD12.30		30	\$10.2
	YDD12.45		45	\$14.3



MODE	CED	CEL	SHK	OVL	PRICE(usd)
YTD812	8	13	6	60	\$12.2
YTD12.20	12.7	22	12.7	60	\$24.5



MODE	CED	CEL	R	SHK	OVL	PRICE(usd)
YTDR812	8	13	5	6	60	\$12.2
YTDR12.20	12.7	4	6.35	12.7	70	\$24.5