MATRIX TOOL INC.

ADVANCED MOLDING AND TOOLING

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NISSEI ADVANCED PRECISION MOLDING

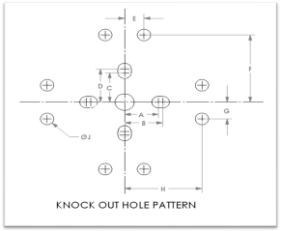
PRESS #	PRESS MAKE	PRESS MODEL	PRESS SIZE (T)	AVAILABLE SHOT SIZE (oz)	Ø TIE BAR (in)	TIE BAR SPACING (in)		MOLD HEIGHT (in)		OPEN DAYLIGHT (in)	CLAMP STROKE (in)	EJECTOR STROKE (in)	Ø SCREW (mm)	INTESIFICATION RATIO	MAX PLASTIC PRESSURE (psi)	PRESS #	CONTROLLER TYPE	CAPABILITIES			PLATEN KNOCK OUT LOCATIONS (mm)								Ø KNOCK OUT (mm)	PLATEN DIMENSIONS (in)		DISTANCE TO DOORS (in)	
						HORIZONTAL	VERTICAL	MIN	MAX									RJG	CORE PULL	VALVE GATE	A	B	C	D	E	F	G	H	J	K	M	N	P
1	NEX 1000	9E-AA	89	2.0	2.36	15.2	15.2	7.9	15.6	27.0	11.8	3.00	26	1 : 1	38,435	1	TACT				88.9	100	88.9	100	x	x	x	x	35	21.5	21.5	18.0	19.7
2	NEX 1000	5E-A	89	1.2	2.36	15.2	15.2	9.4	19.1	30.9	11.8	3.00	22	1 : 1	36,970	2	TACT				88.9	100	88.9	100	x	x	x	x	35	21.5	21.5	18.0	19.7
3	NEX 1000	5E-A	89	1.2	2.36	15.2	15.2	9.4	19.1	30.9	11.8	3.00	22	1 : 1	36,970	3	TACT				88.9	100	88.9	100	x	x	x	x	35	21.5	21.5	18.0	19.7
4	FN 2000	18A	123	4.7	2.36	16.5	16.5	7.9	Δ	28.3	20.5	3.30	36	16.1 : 1	32,280	4	9300	✓			88.9	x	88.9	x	x	x	x	x	35	23.9	23.9	22.0	24.0
5B	FNX 110	18A-AA	123	3.8	2.75	18.1	18.1	7.9	Δ	28.3	20.5	3.30	32	19.2 : 1	38,400	5B	TACT IV	✓			88.9	x	88.9	x	x	x	x	x	35	25.5	25.5	19.7	22.5
6B	FNX 110	18A-A	123	4.9	2.75	18.1	18.1	7.9	Δ	28.3	20.5	3.30	36	16.14 : 1	32,280	6B	TACT IV	✓			88.9	x	88.9	x	x	x	x	x	35	25.5	25.5	19.7	22.5
7B	FNX 110	18A-AA	123	3.8	2.75	18.1	18.1	7.9	Δ	28.3	20.5	3.30	32	19.2 : 1	38,400	7B	TACT IV	✓			88.9	x	88.9	x	x	x	x	x	35	25.5	25.5	19.7	22.5
9	FN 1000	5A	89	1.2	2.20	15.2	15.2	7.9	Δ	26.4	18.5	3.00	22	18.6 : 1	37,122	9	9300	✓			88.9	x	88.9	x	x	x	x	x	35	21.5	21.5	21.3	19.7
10	FN 1000	5A	89	1.6	2.20	15.2	15.2	7.9	Δ	26.4	18.5	3.00	26	14.7 : 1	29,442	10	NC9300T				88.9	x	88.9	x	x	x	x	x	25	21.5	21.5	21.3	19.7
12	FN 1000	12A	89	3.4	2.20	15.2	15.2	7.9	Δ	26.4	18.5	3.00	32	16.4 : 1	32,850	12	NC9300T	✓			88.9	x	88.9	x	x	x	x	x	35	21.5	21.5	21.3	19.7
13	FN 3000	25A	154	8.5	2.99	18.9	18.9	9.8	Δ	33.5	23.6	3.50	45	12.5 : 1	25,170	13	NC9300T	✓	✓		88.9	x	88.9	x	50.8	203.2	50.8	203.2	25	27.6	27.6	25.2	23.4
14	FN 3000	25A	154	6.7	2.99	18.9	18.9	9.8	Δ	33.5	23.6	3.50	40	15.9 : 1	31,850	14	NC9300T	✓			88.9	x	88.9	x	50.8	203.2	50.8	203.2	35	27.6	27.6	25.2	23.4
15B	FNX 110	18A-A	123	4.9	2.75	18.1	18.1	7.9	Δ	28.3	20.5	3.30	36	16.14 : 1	32,280	15B	TACT	✓			88.9	x	88.9	x	x	x	x	x	35	25.5	25.5	19.7	22.5
15C	FNX 110A	12A-A * * *	123	3.4	2.75	18.1	18.1	7.9	Δ	28.3	20.5	3.30	32	16.4 : 1	32,850	15C	TACT IV	✓			88.9	x	88.9	x	x	x	x	x	35	25.5	25.5	17.3	22.1
16	FN 80	5A-BB * *	89	1.9	2.20	15.2	15.2	7.9	Δ	26.4	18.5	3.00	28	13 : 1	26,100	16	TACT	✓			88.9	x	88.9	x	x	x	x	x	35	21.5	21.5	21.3	19.7
17	NEX 50	5E-A	55	1.2	1.97	14.2	14.2	6.7	16.1	26.0	11.8	2.80	22	1 : 1	36,970	17	TACT	✓		✓	88.9	100	88.9	100	x	x	x	x	35	19.9	19.9	20.9	20.6
20B	FNX 80	12A-A * * *	89	3.4	1.97	16.5	16.5	7.9	Δ	26.4	18.5	3.00	32	16.4 : 1	32,850	20B	TACT	✓			88.9	x	88.9	x	x	x	x	x	35	22.8	22.8	17.3	18.7
21B	NEX 50	5E-A	55	1.2	1.97	13.0	13.0	6.7	14.2	24.0	9.8	2.80	22	1 : 1	36,970	21B	TACT				88.9	100	88.9	100	x	x	x	x	35	19.9	19.9	20.3	20.0
22	FNX 220	50A *	237	16.9	3.62	23.2	23.2	11.4	Δ	41.3	29.9	4.70	56	11.4 : 1	22,900	22	TACT	✓			88.9	x	88.9	x	50.8	203.2	50.8	203.2	35	33.5	33.5	22.8	27.8
22B	FNX 110	12A-A * * *	123	3.4	2.36	18.1	18.1	7.9	Δ	28.3	18.5	3.30	32	16.4 : 1	32,850	22B	TACT IV	✓		✓	88.9	x	88.9	x	x	x	x	x	35	22.8	22.8	17.3	18.7
23	FN 220	50A-A *	237	13.5	3.62	23.2	23.2	11.4	Δ	41.3	29.9	4.70	50	14.4 : 2	28,730	23	TACT	✓			88.9	x	88.9	x	50.8	203.2	50.8	203.2	35	33.5	33.5	22.8	27.8
24	FN 80	5A-B * *	89	1.6	2.20	15.2	15.2	7.9	Δ	26.4	18.5	3.00	26	15.1 : 1	30,305	24	TACT	✓			88.9	x	88.9	x	x	x	x	x	35	21.5	21.5	21.3	19.7
26	FNX 110	18A-A	123	4.9	2.75	18.1	18.1	7.9	Δ	28.3	20.5	3.30	36	16.14 : 1	32,280	26	TACT IV	✓			88.9	x	88.9	x	x	x	x	x	35	25.5	25.5	19.7	22.5
27	FNX 80	12A-A * * *	89	3.4	2.36	16.5	16.5	7.9	Δ	26.4	18.5	3.00	32	16.4 : 1	32,850	27	TACT IV	✓			88.9	x	88.9	x	x	x	x	x	35	22.8	22.8	17.3	18.7
28	FNX 80	12A-A * * *	89	3.4	2.36	16.5	16.5	7.9	Δ	26.4	18.5	3.00	32	16.4 : 1	32,850	28	TACT IV	✓			88.9	x	88.9	x	x	x	x	x	35	25.8	25.8	17.3	18.7

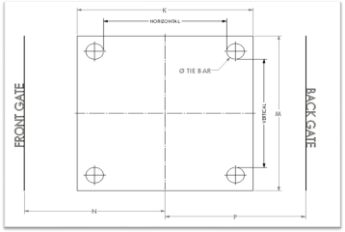
SODICK ADVANCED MICRO MOLDING

PRESS #	PRESS MAKE	PRESS SIZE (T)	AVAILABLE SHOT SIZE (oz)	Ø TIE BAR (in)	TIE BAR SPACING (in)		MOLD HEIGHT (in)		OPEN DAYLIGHT (in)	CLAMP STROKE (in)	EJECTOR STROKE (in)	INTESIFICATION RATIO	MAX PLASTIC PRESSURE (psi)	PRESS #	CONTROLLER TYPE	CAPABILITIES	PLATEN KNOCK OUT LOCATIONS (mm)								Ø KNOCK OUT (mm)	PLATEN DIMENSIONS (in)		DISTANCE TO DOORS (in)	
					HORIZONTAL	VERTICAL	MIN	MAX								RJG	A	B	C	D	E	F	G	H	J	K	M	N	P
8B	SODICK 20T	20	0.47	1.57	12.2	10.2	5.9	Δ	15.7	9.8	2.00	19 : 1	38,000	8B	IMC7	✓	100	x	x	x	x	x	x	x		16.9	16.1	14.8	14.8
9B	SODICK 20T	20	0.47	1.57	12.2	10.2	5.9	Δ	15.7	9.8	2.00	19 : 1	38,000	9B	IMC7	✓	100	x	x	x	x	x	x	x		16.9	16.1	14.8	14.8
10B	SODICK 20T	20	0.47	1.57	12.2	10.2	5.9	Δ	15.7	9.8	2.00	19 : 1	38,000	10B	IMC7	✓	100	x	x	x	x	x	x	x		16.9	16.1	14.8	14.8
10C	SODICK 20T	20	0.47	1.57	12.2	10.2	5.9	Δ	15.7	9.8	2.00	19 : 1	38,000	10C	IMC7	✓	100	x	x	x	x	x	x	x		16.9	16.1	14.8	14.8
11B	SODICK 60T	60	0.91	1.96	14.1	12.5	7.9	15.3	25.6	10.3	3.15	18.65 : 1	37,709	11B	IMC7	✓	100	x	100	x	x	x	x	x	16	20.5	18.1	18.0	18.0
25B	SODICK 60T	60	0.47	1.96	14.1	12.5	7.9	15.3	25.6	10.3	3.15	19 : 1	38,000	25B	IMC7	✓	100	x	100	x	x	x	x	x	16	20.5	18.1	18.0	18.0
29	SODICK 20T	20	0.15	1.96	12.2	12.2	5.9	Δ	15.7	9.84	2.00	21 : 1	41,770	29	TRD6	✓	100	x	x	x	x	x	x	x		17.3	17.3	15.7	15.7
30	SODICK 20T	20	0.15	1.57	12.2	10.2	5.9	Δ	15.7	9.84	2.00	21 : 1	41,770	30	IMC6	✓	100	x	x	x	x	x	x	x		16.9	14.2	14.7	14.7
31B	SODICK 20T	20	0.47	1.57	12.2	10.2	5.9	Δ	15.7	9.8	2.00	19 : 1	38,000	31B	IMC7	✓	100	x	x	x	x	x	x	x		16.9	16.1	14.8	14.8
32	SODICK 20T	20	0.47	1.57	12.2	10.2	5.9	Δ	15.7	9.8	2.00	19 : 1	38,000	32	IMC6	✓	100	x	x	x	x	x	x	x		16.9	14.2	14.7	14.7
33B	SODICK 20T	20	0.47	1.57	12.2	10.2	5.9	Δ	15.7	9.8	2.00	19 : 1	38,000	33B	IMC7	✓	100	x	x	x	x	x	x	x		16.9	16.1	14.8	14.8
34	SODICK 20T	20	0.47	1.57	12.2	10.2	5.9	Δ	15.7	9.8	2.00	19 : 1	38,000	34	IMC6	✓	100	x	x	x	x	x	x	x		16.9	16.1	14.8	14.8
35	SODICK 20T	20	0.47	1.57	12.2	10.2	5.9	Δ	15.7	9.8	2.00	19 : 1	38,000	35	IMC7	✓	100	x	x	x	x	x	x	x		16.9	16.1	14.8	14.8
36	SODICK 20T	20	0.47	1.57	12.2	10.2	5.9	Δ	15.7	9.8	2.00	19 : 1	38,000	36	IMC7	✓	100	x	x	x	x	x	x	x		16.9	16.1	14.8	14.8
37B	SODICK 20T	20	0.47	1.57	12.2	10.2	5.9	Δ	15.7	9.8	2.00	19 : 1	38,000	37B	IMC7	✓	100	x	x	x	x	x	x	x		16.9	16.1	14.8	14.8
38B	SODICK 20T	20	0.47	1.57	12.2	10.2	5.9	Δ	15.7	9.8	2.00	19 : 1	38,000	38B	IMC7	✓	100	x	x	x	x	x	x	x		16.9	16.1	14.8	14.8

* 50A injection unit with 50E barrel screw
* * 5A injection unit with 5E barrel
* * * 12A injection unit with 12E barrel and screw

Equations	
	Δ: MOLD HEIGHT + REQUIRED MOLD OPENING < MAX DAYLIGHT
	DAYLIGHT - MOLD HEIGHT = AVAILABLE EJECTION DISTANCE





MATRIX TOOL, INC.		
INJECTION MOLDING DIVISION		
INJECTION MOLDING MACHINE DETAILS		
CREATION:	SMA	6/1/2019
REVISION:	SMH	3/5/2024
APPROVAL:	DM	3/5/2024

ISO 9001 CERTIFIED IATF 16949 CERTIFIED

CONNECT WITH US!

MATRIX TOOL PROVIDES TURNKEY SOLUTIONS TO TODAY'S TOUGHEST MARKET CHALLENGES