

## Rectangular Punches

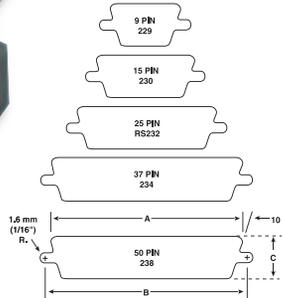


HOLE SIZE		MAXIMUM CAPACITY MILD STEEL		OPERATION TYPE	CAT./UPC NO.					MINIMUM PILOT HOLE Ø		WEIGHT		OPTIONAL ADAPTER FOR HYDRAULIC DRIVERS	
					PUNCH UNIT (INCLUDES PUNCH, DIE, DRAW STUDS AND NUTS)	PUNCH	DIE	DRAW STUD	BB DRIVE NUT	COUNTER NUT	INCH	mm	LBS.		kg
INCH	mm	GA	mm												
0.437 x 0.875	11.1 x 22.2	16	1.5	Hand/Hydr.	60025	60026	60027	60115	60120	05244	.375	9.5	1.2	.5	60114
0.670 x 0.749	17.0 x 19.0	14	2.0	Hand/Hydr.	61028	60029	60030	34421	34733	04638	.500	12.7	1.5	.68	33967
0.750 x 1.140	19.1 x 29.0	14	2.0	Hand/Hydr.	60031	60032	60033	60117	60165	60258	.625	15.9	2.3	1.0	60167
0.750 x 1.310	19.1 x 33.3	14	2.0	Hand/Hydr.	60034	60035	60036	60117	60165	60258	.625	15.9	2.3	1.0	60167
0.861 x 1.018	21.9 x 25.9	14	2.0	Hand/Hydr.	60037	60038	60039	60117	60165	60258	.625	15.9	2.3	1.0	60167
0.866 x 1.181	22.0 x 30.0	14	2.0	Hand/Hydr.	60040	60041	60042	60117	60165	60258	.625	15.9	2.4	1.1	60167
0.866 x 1.654	22.0 x 42.0	14	2.0	Hand/Hydr.	60043	60045	60046	60117	60165	60258	.625	15.9	2.9	1.3	60167
0.990 x 1.140	25.1 x 29.0	14	2.0	Hand/Hydr.	60047	60048	60049	60117	60165	60258	.625	15.9	2.6	1.2	60167
1.250 x 1.380	31.8 x 35.1	14	2.0	Hand/Hydr.	60050	60051	60052	60117	60165	60258	.625	15.9	3.1	1.4	60167
1.312 x 2.625	33.3 x 66.7	10	3.5	Hydr. Only	60053	60054	60055	60118	—	60235	1.188	30.2	5.1	2.3	Ø
1.378 x 2.047	35.0 x 52.0	10	3.5	Hydr. Only	60056	60057	60058	60118	—	60235	1.188	30.2	6.1	2.8	Ø
1.378 x 2.559	35.0 x 65.0	10	3.5	Hydr. Only	60059	60060	60061	60118	—	60235	1.188	30.2	6.8	3.1	Ø
1.378 x 3.228	35.0 x 82.0	14	2.0	*Hydr. Only	60062	60063	60064	60118	—	60235	1.188	30.2	7.7	3.5	*
1.378 x 4.409	35.0 x 112.0	14	2.0	*Hydr. Only	60065	60066	60067	60118	—	60235	1.188	30.2	9.2	4.2	*
1.811 x 3.622	46.0 x 92.0	10	3.5	*Hydr. Only	60068	60069	60070	60118	—	60235	1.188	30.2	8.9	4.0	*
2.250 x 3.500	57.2 x 88.9	10	3.5	*Hydr. Only	60071	60072	60073	60118	—	60235	1.188	30.2	10.1	4.6	*
2.677 x 5.433	68.0 x 138.0	14	2.0	*Hydr. Only	60074	60075	60076	60118	—	60235	1.188	30.2	16.1	7.3	*

\*For use with Hand and Foot Pump Hydraulic Drivers with Ram  
Ø For use with any Greenlee Hydraulic Driver or Battery-Powered Driver

For maximum draw stud life, Greenlee recommends the use of battery or hydraulic drivers

## Electronic Connector Panel Punches



- Cut-out and mounting slots are punched in one operation.
- Drill only one 7/16" (11.1 mm) pilot hole. (See catalog page 42 for Kwik Stepper® step bits.)
- Fast, accurate panel punching with no sawing or filing required.
- Universal size punches for front or back mount of TRW Cinch and ITT Cannon-type or equivalent connectors in 9,15,25,37 or 50-pin configurations.
- U.S. Patent No. 4,899,447

### SPECIFICATIONS

<b>Capacity</b>	16 gauge (1.5 mm) mild steel; 10 gauge (3.5 mm) aluminum
<b>Operation</b>	Manual with a wrench; Quick Draw® and Quick Draw 90° hydraulic drivers, Battery Driver, Ram and Pump hydraulic drivers

PUNCH UNIT		NO. OF PINS	DIMENSIONS			REPLACEMENT CAT./UPC NO.					WEIGHT	
CAT. NO.	UPC NO.		A	B	C	PUNCH	DIE UNIT	DRAW STUD	SQUARE COUNTER NUT	DRIVE NUT	LBS.	kg.
229	34436	9	.787" (20.0 mm)	.982" (24.9 mm)	.469" (11.9 mm)	34441	35196	34421	04638	34733	1.4	.64
231	34437	15	1.127" (28.6 mm)	1.309" (33.3 mm)	.469" (11.9 mm)	34442	35197	34421	04638	34733	1.5	.68
RS232	34420	25	1.655" (42.0 mm)	1.853" (47.1 mm)	.469" (11.9 mm)	34418	35198	34421	04638	34733	2.0	.91
234	34429	37	2.296" (58.3 mm)	2.497" (63.4 mm)	.469" (11.9 mm)	34427	35199	34421	04638	34733	2.0	.91
238	34444	50	2.201" (55.9 mm)	2.402" (61.0 mm)	.579" (14.7 mm)	34443	35200	34421	04638	34733	2.0	.91

For maximum draw stud life, Greenlee recommends the use of battery or hydraulic drivers