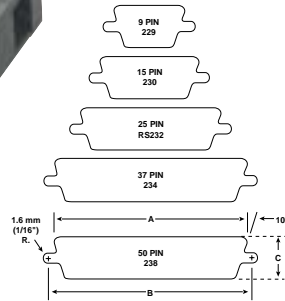


## Electronic Connector Panel Punches



- Cut-out and mounting slots are punched in one operation.
- Drill only one 7/16" (11.1 mm) pilot hole.  
(See catalog page 63 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

Operation: Manual with a wrench: Quick Draw™ and Quick Draw 90™ hydraulic drivers, Battery Driver, Ram and Pump hydraulic drivers.  
 Capacity: 16 gauge (1.5 mm) mild steel; 10 gauge (3.5 mm) aluminum.

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

## Metal Stud Punches



- Punch up through 20 gauge (0.9 mm) steel studs in one stroke.
- Aluminum head provides strength with minimum weight, reducing operator fatigue.
- Contoured handle design gives better operator leverage and makes it possible to punch in tight places.
- Self-stripping design eliminates punch hang-ups.
- Automatically centers holes on standard studs.
- Conversion kit available to upgrade early models from 24 gauge to 20 gauge maximum capacity.

### SPECIFICATIONS

Capacity: 709 - 1-5/8" (41.3 mm) and wider studs.  
 20 gauge (0.9 mm) steel studs.  
 710 - 2-1/2" (63.4 mm) and wider studs.  
 20 gauge (0.9 mm) steel studs.

Cat. No.	UPC No.	Description	Weight	
			lbs.	kg.
709	22280	7/8" (22.2 mm) Diameter Stud Punch	7	3.2
710	21285	1-11/32" (34.1 mm) Diameter Stud Punch	7.5	3.5
30968	30968	Conversion Kit - Upgrades early model 709 or 710 from 24 to 20 gauge maximum capacity		
121AV	04006	Punch for 709 - Accessory		
22286	22286	Die for 709 - Accessory		
24823	24823	Punch for 710 - Accessory		
21297	21297	Die for 710 - Accessory		