ITC

ELECTRICAL
COMPONENTS

RIX Punching Tools

- Round Punches & Dies
- Rectangular Punches & Dies
- Manual Hydraulic Sets
- Battery-Hydraulic Punch

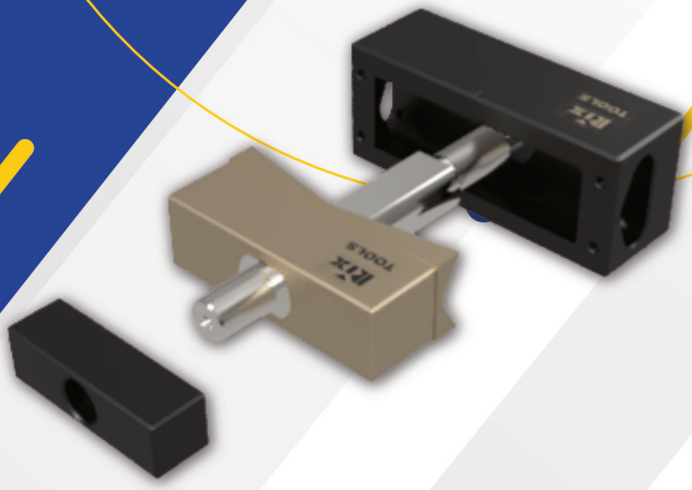










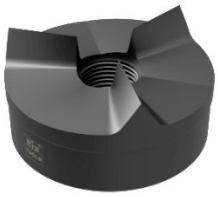


RIX TRISTAR Round Punches

The TRISTAR series of punches from RIX Tools are the efficient splitting sheet metal punch for professional control cabinet construction. It punches precise, burr-free breakthroughs in sheet steel and stainless steel (TRISTAR+), and prevents waste pieces from jamming in the die. The result: effortless work, clean cutting quality, and significantly higher process reliability in daily use.

Features & Specifications

- Material: Normal Mild Steel & Stainless Steel
- Material thickness and draw bolt requirements vary by size and version.
- Suitable for hydraulic and mechanical punches







TRISTAR and TRISTAR+ Round Punches (Order by Part No.)

TRISTAR - Mild steel		TRISTAR+ - Stainless steel		Diameter ø		Metric	PG Size	NPT Conduit / diamater ø	Draw bolt	Draw Bolt with Ball Bearing †
ITC Part No.	Max. mm	ITC Part No.	Max. SS mm	(mm)	(inch)					
502.4020010		-		12.7	0.500	M12	7	-	-	502.409100
502.4020020	2.0	502.4030020	-	15.2	0.598	-	9	-	502.409200 502.409230 ^	502.409122 502.409152 ^
502.4020030	2.0	502.4030030	2.0	16.2	0.638	M16	-	-		
502.4020040	2.0	502.4030040	2.0	18.6	0.732	-	11	-		
502.4020050	2.0	502.4030050	2.0	20.4	0.803	M20	13	-		
502.4020060	2.0	502.4030060	2.0	22.5	0.886	-	16	1/2"		
502.4020070	2.0	502.4030070	2.0	25.4	1.000	M25	-	-		
502.4020090	3.0	502.4030090	-	28.3	1.114	-	21	3/4"	502.409240	502.409132
502.4020100	3.0	502.4030100	2.5	30.5	1.201	-	-	-		
502.4020110	3.0	502.4030110	2.5	32.5	1.280	M32	-	-		
502.4020120	3.0	502.4030120	2.5	34.6	1.362	-	-	1" ø		
502.4020130	3.0	502.4030130	2.5	37.0	1.457	-	29	-		
502.4020140	3.0	502.4030140	2.5	40.5	1.594	M40	-	-		
502.4020150	3.0	502.4030150	2.5	43.2	1.701	-	-	1 1/4"		
502.4020160	3.0	502.4030160	2.5	47.0	1.850	-	36	-		502.409142
502.4020170	3.0	502.4030170	2.5	49.6	1.953	-	-	1 1/2"		
502.4020180	3.0	502.4030180	2.5	50.5	1.988	M50	-	-		
502.4020190	3.0	502.4030190	2.5	54.0	2.126	-	42	-		
502.4020200	3.0	502.4030200	2.5	60.0	2.362	-	48	-		
502.4020210	3.0	502.4030210	2.5	61.5	2.421	-	-	2"		
502.4020220	3.0	502.4030220	2.5	63.5	2.500	M63	-	-		
502.4010230 ▫	3.0	-	-	74.4	-	-	-	2 1/2"		-
502.4010240 ▫	3.0	-	-	90.6	-	-	-	3"		
502.4010260 ▫	3.0	-	-	116.0	-	-	-	4"		

Information subject to change without notice - All dimensions in mm except where indicated
† Special order
▫ RIX Punch range
^ For Stainless Steel TriStar+ models

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Accessories for Round Punches

Replacement accessories for RIX TRISTAR punches. Draw bolts (draw studs), adapters, pre-drill bits and spacer sets. Draw bolts are available with or without ball bearings. Refer to the round punch table on page 2 for the draw bolt required for each punch size and version.

Round Punch Accessories (Order by Part No.)

ITC Part No.	Description	Dimensions (inch)	
502.409200	Draw bolt 9.5 x 19.0 mm	3/8" x 3/4"	
502.409201	Draw bolt 9.5 x 9.5 mm, L=75mm	3/8"	
502.409202	Adapter 9.5 to 19.0 mm	3/8" to 3/4"	
502.409210	Draw bolt 11.1 x 19.0 mm	7/16" x 3/4"	
502.409211	Draw bolt 11.1 x 11.1 mm, L=75mm	7/16"	
502.409212	Adapter 11.1 to 19.0 mm	7/16" to 3/4"	
502.409220	Draw bolt 9.5 × 19.0 mm VA	3/8" × 3/4"	
502.409230	Draw bolt 11.1 × 19.0 mm VA	7/16" × 3/4"	
502.409240	Draw bolt 19.0 × 19.0 mm	3/4" × 3/4"	
502.409100	Draw bolt with ball bearing 6.0 × 46 mm	-	
502.409122	Draw bolt with ball bearing 9.5 × 50 mm	-	
502.409152	Draw bolt with ball bearing 11.1 × 60 mm	-	
502.409132	Draw bolt with ball bearing 19.0 × 55 mm	-	
502.409142	Draw bolt with ball bearing 19.0 × 75 mm	-	
502.409300	Pre-drill bit, multi-step, 8.5-11.5-12.5-16.5-21	-	
502.409302	Pre-drill bit, 11.0 mm	-	
502.409350	Spacer set, 3-piece	-	
502.409351	Spacer set, 5-piece	-	

Information subject to change without notice

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Rectangular Punches for Multipole Connectors

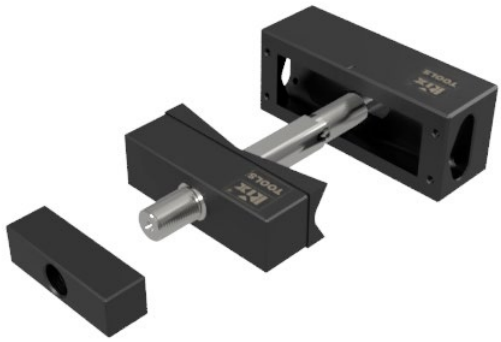
These unique punch / die sets are specially designed for punching holes of the exact sizes required to install multipole connector housings and DIN-sized devices.

They are designed to operate by a hydraulic cylinder or hand hydraulic pumps, are easy to align, and offer considerable time and cost savings compared to drilling/cutting, for installation of popular multi-pole connectors (ITC's ILME product line) and cable passing devices.

Rectangular multipole connector punches not only punch the rectangular knockouts but also indent 4 guide points for drilling the appropriate mounting holes. These 4 guide points can be used as a drilling template.

Features & Specifications

- Material: Normal Steel & Stainless Steel
- Maximum material thickness and pre-drill diameter vary by item
- A hydraulic driver tool must be used
- Supplied in a sturdy case with draw bolt and counter-locknut





Rectangular Punches for multipole connectors (Order by Part No.)

TRISTAR - Mild steel		TRISTAR+ - Stainless steel		Opening dimensions mm	Multipole Connector Size	Draw bolt	Locknut
ITC Part No.	Max. mm	ITC Part No.	Max. mm				
502.4120180	2.5	**502.4130180**	2.0	36 x 52	6	502.419005	502.419021
502.4120190	2.5	**502.4130190**	2.0	36 x 65	10	502.419005	502.419021
502.4120200	2.5	**502.4130200**	2.0	36 x 86	16	502.419005	502.419021
502.4120220	2.0	**502.4130220**	2.0	36 x 112	24	502.419005	502.419026

Part No.	Description
502.419005	Draw bolt, Ø22.2mm, flattened to 19.0mm
502.419021	Locknut for rectangular punches
502.419026	Locknut for rectangular punches, Bridge No 9 3/4"-16

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TRISTAR Metric and NPT Punch Sets

The convenient RIX punch sets with metric or NPT punches and accessories. Also available are complete sets with the RIX Punch hand hydraulic driver tool.

Features & Specifications

- Metric sets designated M16 to M40, and available for M16 to M63
- NPT Conduit sets cover 1/2" to 2"
- Includes 9.5×19mm and 19×19mm draw bolts, spacers and a pre-drill bit
- Supplied in a carrying case with fitted storage for the punch / dies, and accessories
- Sets available with hydraulic punching tools



502.4025013

TRISTAR NPT Conduit Set, ½" to 2"



502.4025010

TRISTAR Metric Set, M16 to M40



502.420111

Rix Puncher TRISTAR+ Set, M16 to M63

Punch Sets (Order by Part No.)

METRIC Punch Sets								
ITC Part No.	**Description**	**Included punch / die diameters (mm / Metric)**						
502.4025010	TRISTAR Set, M16 to M40	16.2 / M16	20.4 / M20	25.4 / M25	32.5 / M32	40.5 / M40	-	-
502.4035010	TRISTAR+ Set, M16 to M40, for SS							
502.420130	RIX Puncher & TRISTAR+ Set, M16 to M40							
502.4025021	TRISTAR Set, M16 to M63						50.5 / M50	63.5 / M63
502.420111	RIX Puncher & TRISTAR+ Set, M16 to M63							
NPT Conduit Punch Sets								
ITC Part No.	**Description**	**Included punch / die diameters (mm / inch)**						
502.4025013	TRISTAR Set, NPT Conduit 1/2" to 2"	22.5 / ½"	28.3 ¾"	34.6 / 1"	43.2 / 1 ¼"	49.6 / 1 ½"	61.5 / 2"	
502.4035013	TRISTAR+ Set, NPT Conduit 1/2" to 2", for SS							
502.420123	RIX Puncher & TRISTAR+ set, NPT Conduit 1/2" to 2"							
502.420133	RIX Puncher & TRISTAR+ set, NPT Conduit 1/2" to 2", for SS							

Information subject to change without notice
Other Punch sets combinations available

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RIX Punch Manual Hydraulic Punching Tool

The RIX Punch driver is the high-performance punching tool for burr-free, clean holes – ready for the installation of switchgear. Suitable for punching round, square, and rectangular shapes with matching RIX punches and dies. The hardened punch head, the ergonomic golf-style handle, and the hydraulically supported seals ensure reliable results with easy maintenance. Compatible with all common punching systems on the market.

Features & Specifications

- Specially hardened steel on the punch head for a long service life
- Easy Maintenance and Refilling of Hydraulic Oil
- **Operating Temperature:** -20˚C to 40˚C
- **Max. hydraulic force:** 75kN, stroke length: 23mm
- **Max. punch size:**
  - **Mild Steel:** 120mm in 3 mm steel
  - **Stainless steel:** up to 63.5mm in 2.5mm SS
- **Bolt thread:** 3/4" / 16UNF
- **Weight:** 2.4kgs, 5lbs
- **Delivery includes:** Rix puncher hand pump, spacer set, draw bolt 19mm, draw bolt 19x9.5mm, pilot step-drill







RIX Punch Manual Hydraulic punching tool (Order by Part No.)

Part No	Description	Weight (kg)	Accessories list
502.420100	Rix Punch straight manual hydraulic punch kit in hard case	2.4	502.409200 – Draw bolt 502.409240 – Draw bolt 502.409350 – 3 Spacer set 502.409300 – Step drill

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RIX Punch Battery Powered Hydraulic punching tool

Punching at the touch of a button: the battery powered hydraulic driver builds up the entire force on its own and produces one opening after another in consistent quality, with no pumping, no cable and no loss of power over larger runs.

The RIX Punch Battery (Akku) is the cordless version of the proven RIX Punch, offering maximum flexibility without a hand pump. With a rated pressure of 60kN and a stroke length of 25mm, it reliably punches holes up to 63.5mm in 3.5mm steel or up to 160mm in 2mm steel.

The battery-powered operation (18V, 2.0Ah) ensures fast, effortless work and reduces fatigue caused by repetitive hand movements. Made in Germany—includes a carrying case.

Features & Specifications

- Pivoting and swivelling head
- Specially hardened steel on the punch head for a long service life
- Battery-powered — no manual pumping required
- **Operating temperature:** -10 °C to +40 °C
- **Max. hydraulic force:** 60kN, stroke length: 25mm
- **Max. punch size:**
  - **Mild Steel:** 63.5mm in 3.5mm steel / 160mm in 2mm steel
  - **Stainless steel:** up to 63.5mm in 2.5mm SS
- **Bolt thread:** 3/4"-16UNF
- **Weight:** 2.6kg (5.7lbs), including the battery
- **Charging time:** about 40 minutes
  Charger Input: 100-240 V AC, 50-60Hz
- **Battery:** rechargeable lithium-ion, 18 V DC, 2.0Ah
- **Dimensions:** 452 × 120 × 75mm





Information subject to change without notice

RIX Punch Battery Hydraulic punching tool (Order by Part No.)

ITC Part No.	Description	Weight (kg)	Accessories list
502.420300	RixPunch Battery (Akku) powered hydraulic punch kit in hard case	2.6	Draw bolt 9.5mm Draw bolt 19mm Spacer Charger 100V to 240V 2 Batteries, 18VDC, 2.0Ah

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ITC ELECTRICAL COMPONENTS

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50 Mural St Unit 8
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DIN Rail


DIN Rail Accessories


Hinged Enclosures


Thermal Management


PANEL Lighting


Multipole Connectors


Plug and Socket Connectors


Terminal Blocks


Terminal Strips & Parallel Connectors


Interface Connectors


Pushbuttons & Control Stations


Led Light bulbs & Pilot Lights

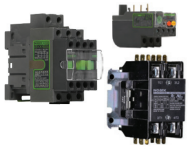

Limit Switches


Micro Limit Switches

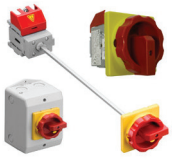

Safety Switches


Foot Switches


Circuit Breakers


Contactors & Starters


Variable Frequency Drives


Disconnect Switches


Fuses & Fuse Holders


Tower Lights & Signalling Devices


Power Continuity


Ferrules


Colour Coded Lugs


Crimp Terminals


Termination Kits


Cable Glands


Thread Adapters


Cable Entry Systems


Wire Management


DIN Rail Cutters


Assembly Tables


Cutting & Stripping


Crimping Tools


Hole Cutting & Punching Tools

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