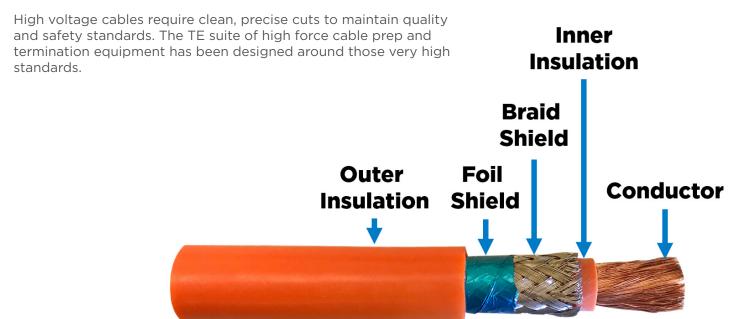


## FLEXIBLE HIGH FORCE PROCESSING SOLUTIONS



TE offers a wide range of wire processing solutions to handle challenging small wire applications up through complex 120mm<sup>2</sup> high voltage cables. Our high force lineup gives you the power needed to process large wire applications in a fast, flexible, and affordable format.

### **Challenges of High Voltage Cables**



# **HIGH FORCE TERMINATING SOLUTIONS**

# **HV Modular Die Sets**

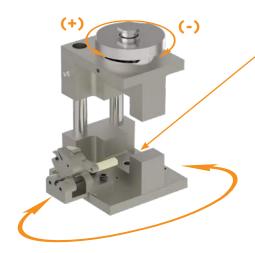


This is only a cross section of die sets and terminals available. Our modular die holders can accommodate both TE and non-TE terminals. For a more complete list please visit tooling.te.com or contact your TE Application Tooling sales representative.

# **HV Modular Die Holders – Loaded with Features**



The multi-platform design of our modular HV die holders allows for use in a variety of TE and non-TE terminators Fine adjust feature allows for faster, more precise crimp height adjustment



The wire clamp assembly, handle and die sets can easily be adjusted to handle left or right side wire processing



Spring-loaded wire clamp assembly accommodates a variety of different wire sizes to match your processing needs

### Modular Die Holder part Numbers

	Description	Part Number
ders	HV MOD Die Holder w/Fine Adjust	2305470-1
Die Hol	HV MOD Die Holder w/o Fine Adjust For AT-66 Terminator only (Can not be used in HV-20 or HF-20 Terminators)	2326378-1

## **HIGH VOLTAGE WIRE PROCESSING**



Part Number 2335400-1

Take the complexity and long preparation times out of your high voltage cable processing with the new HV-CP machine from TE. This machine can process (10 - 120mm²) multi-layered conductors in as fast as 30 seconds!

#### **Multi-Step Stripping**

The HV-CP machine will strip the outer jacket, foil shield, braid shield, and inner insulation to meet your termination specifications.

To confirm proper preparation of the cable, several unique quality control measures are in place.

- The machine has the ability to confirm installation of the proper tooling before running
- The HV-CP can self-calibrate the blade positions after tooling changeover
- The machine confirms cable position before and after the prep process to onfirm proper strip lengths



Process complex multi-layered HV cables in as fast as 30 Seconds!

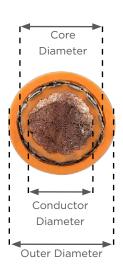
For ease-of-use the HV-CP machine has an intuitive touch screen interface with a memory that accommodates up to 1,500 different profiles.

## **Specifications**

Description	Specification	Description	Specification
Wire Cross Section	10 mm² - 120 mm²	Increments for Incision Diameter	0.01 mm (0.0004 in)
Max. Outer Diameter	25.0 mm (1 in)	Increment for Stripping Length	0.01 mm (0.0004 in)
Min Diameter of Inner Conductors	6.0 mm (0.24 in)	Maximum Outer Jacket Strip Length	80 mm (3.15 in)
Max Wire Cross Section for Cutting	2 mm² / AWG 14 / 1.6 mm diam (0.063 in diam)	Profile Library: Max Number of Articles	1500
Typical Cycle Time	30 sec	Sequence Function: Max Number of Steps	100

## High Voltage Cable Prep Spare Tooling Part Numbers

Machine Part#	Cable Size (mm²)	Outer Diameter	Core Diameter	Conductor Diameter (mm Max)	Contour Blade Assembly Kit Part #	Mandrel Assembly Kit Part #	Cutting Wheels Part #
	10	8.8 (-0.6)	6.0 (-0.6)	4.5	2364113-1	2360456-1	
	16	10.2 (-0.6)	7.2 (-0.6)	5.8	2364113-2	2360456-2	
	25	12.2 (-0.6)	8.7 (-0.6)	7.2	2364113-3	2360456-3	
	35	14.4 (-0.6)	10.4 (-0.7)	8.5	2364113-4	2360456-4	
2335400-1	50	15.8 (-0.6)	12.2 (-0.7)	10.5	2364113-5	2360456-5	2844837-1
	60	16.9 (-0.6)	13.3 (-1.2)	11.6	2364113-6	2360456-6	
	70	18.2 (-0.6)	14.4 (-1.2)	12.5	2364113-7	2360456-7	
	95	20.9 (-0.6)	17.2 (-1.2)	14.8	2364113-8	2360456-8	
	120	23 (-0.8)	19 (-1.2)	16.5	2364113-9	2360456-9	





## **HIGH VOLTAGE WIRE TERMINATION**



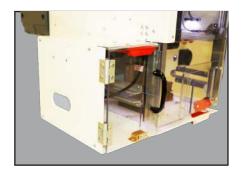


The HF-20 and HV-20 are robust, compact, high force bench top machines capable of terminating cables up to 120mm<sup>2</sup>

Both models are eccentric presses capable of reaching 178kN (20T) of crimp force, with fast, repeatable accuracy. The HV-20 model comes with a CQM II digital interface for crimp force monitoring, variable speed and an integrated vacuum system to keep sensitive connections clean and clear of debris commonly associated with high voltage cable processing.

### Flexible Design

To best fit the application process, the flexible design of the high force machines accommodates multiple processing orientations. The adjustable die holder platform can be easily rotated to handle processing from the left, front or right side of the unit. Side feed guarding is



also available for all models to accommodate both loose piece and reeled terminal applications.

### Safe, Easy Operation

Both models offer a simple push button design with multiple interlock features to confirm operator safety throughout the crimping process.

**High Force Terminator Part Numbers** 

		Press Part Number		
	Description	w/Loose Piece Guarding	w/Side Feed Guarding (for reeled terminals)	
Terminator	HF-20, High Force Terminator, 400V	2335500-1	2358697-1	
	HF-20, High Force Terminator, 200V	2335500-2	2358697-2	
	HV-20, High Voltage Terminator, 400V	2348822-1	2358698-1	
	HV-20, High Voltage Terminator, 200V	2348822-2	2358698-2	

# SIDE-BY-SIDE COMPARISON

	HF-20T	HV-20T	Competitor 1 Large Press Offering	Competitor 2 Large Press Offering
Force	178kN (20T)	178kN (20T)	150kN (17T)	178kN (20T)
Max Wire	120mm²	120mm²	100mm²	120mm²
Variable Stroke (Sec) Speed (RPM)	1.3 - 8.3 Sec 288 - 1800 RPM	1.3 - 8.3 Sec 288 - 1800 RPM	1.2 Sec (fixed) 1420 RPM	(fixed) 1200 RPM
Power	3kW	3kW	4kW	7.5 kW
Supply	200V & 400V	200V & 400V	400V	200V & 400V
Stroke / Shut Height	44mm / 158.4mm	44mm / 158.4mm	50mm / 204.8mm	50mm / 190mm
Weight	390kg	390kg	500kg	1550kg
Network/MES	RJ-45 / MQTT	RJ-45 / MQTT	-	-
Particle Vacuum	-	Yes	No	No
Guard Auto Lift	Yes	Yes	Yes	Optional
CQM/CFM	-	Yes	Optional	Optional

# **HV-20T & HF-20T FEATURES**



Combining sophisticated controls, traceability system and equipped with ethernet and USB ports, the HV-20T and HF-20T benchtop terminators are Industry 4.0 ready.

The integrated vacuum system design keeps sensitive connections clean and clear of debris commonly associated with high voltage cable crimping.







### Let's Connect

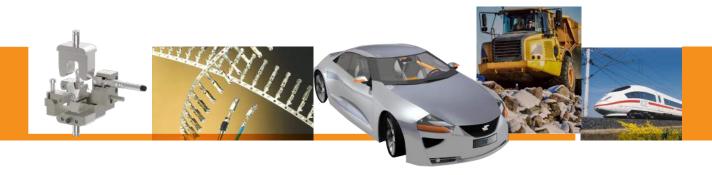
To find the right TE tooling for your needs, call us at **717-810-2082** or email **toolingSales@te.com**.



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- Board processing equipment: 888-782-3349 or 610-893-9680 E-mail: fieldservicesnorthamerica@te.com
- Web: www.te.com/fieldservice

For locations outside North America visit **tooling.te.com** 

www.te.com/fieldservice

