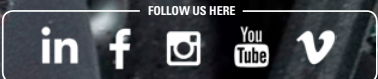




# EDD TECHNOLOGY

GOING BEYOND HYDRAULICS

**RESQTEC**<sup>®</sup>  
WWW.RESQTEC.COM



# EDD TECHNOLOGY

GOING BEYOND HYDRAULICS. ELECTRONIC DIRECT DRIVE.



**TWO-WAY POWER**  
Proven screw spindle technology delivers full power – both ways.



**EFFICIENT**  
Eliminating hydraulics means more overall efficiency and long battery runtimes.



**SAFE**  
No pressure for smooth cutting & no risk of leakages, contamination or hydraulic injection.



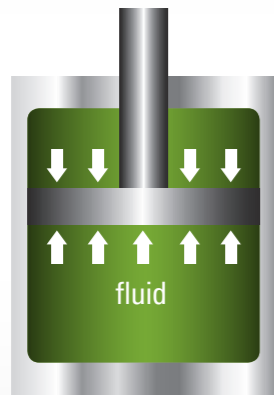
**RELIABLE**  
Robust components such as a gearbox and screw spindle offer increased reliability & durability.



**COMPACT**  
No hydraulic reservoir or pump, for smaller tools and freedom to work from all angles.

**A NEW ERA STARTS FOR RESCUE EXTRICATION EQUIPMENT.** For the first time ever, the need for hydraulics is completely eliminated in a complete line of extrication equipment. No need for a hydraulic pump, fluid, piston, valves or seals. Electronic Direct Drive (EDD) directly converts battery power – from a compact, powerful and efficient motor – to output force.

HYDRAULIC BATTERY TOOLS



- +
- valves
- +
- pump
- +
- gearbox
- +
- motor



- +
- gearbox
- +
- motor



### EDD FUNDAMENTALS

Fewer steps means greater efficiency. High-energy consuming components (a hydraulic pump, fluid, valves, seals & tubing) all reduce the battery's runtime, as they use precious battery energy. Eliminating these steps greatly boosts the system's efficiency.

### SCREW SPINDLE TECHNOLOGY

Screw spindle technology, proven in many other mechanical & industrial applications, is using a highly efficient spindle to transfer power by a rotating movement.

#### VARIABLE SPEED & IMMEDIATE RESPONSE

Get immediate reaction. Without pressure, the screw spindle and gearbox allow the control handle to work like an accelerator. Turn it up and straight to work.

#### CONTAMINATION-FREE

No matter the circumstances - EDD is usable in any environment. No more exposure to fluids or toxic exhaust gasses and the chance of hydraulic injection. Just pure mechanics.

#### LOW MAINTENANCE

Without fluids, leakages are a thing of the past. EDD simply requires less maintenance.



#### UNIQUE MOTOR TECHNOLOGY

Motor technology is what makes EDD possible. Running close to 90% efficiency, it produces more than a staggering 1.4 kW, which is similar to small gasoline engines currently used in hydraulic pumps.

**MORE SILENT THAN EVER**

No pump. Less noise. Less stress for the victim.



**BATTERY BUMPER**

For quick & easy battery handling



**UPGRADED 360° CARRYING HANDLE**

With improved balance & operation

**CENTRAL CONTROL HANDLE**

For direct access, from all sides



**HIGHLY VISIBLE LED**

Large & highly visible LED-buttons



**ALL WEATHER PROOF**

Rain, storm or thunder – with the IP67 connector, even the heaviest of storms is bearable.



**FULL VARIABLE SPEED**

Variable speed & immediate response



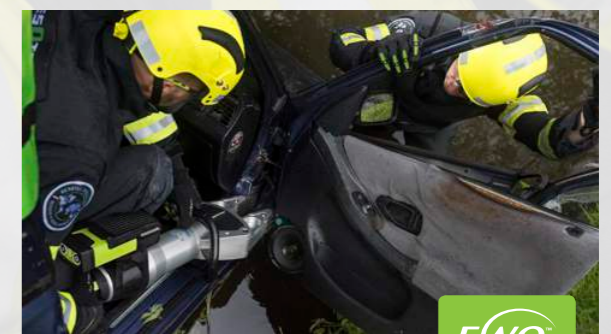
**LATEST LI-ION TECHNOLOGY**

EDD tools are powered by the latest lithium-ion technology. The batteries conform to the IEC 62133 safety standards and the UN 38.3 shipping requirements for lithium batteries.

# X-SERIES

SMALL SIZE, GREAT PERFORMANCE

Freedom to move, that's what the compact X2 EDD provides. It is exactly what you want from a battery tool – the perfect combination between size and power, to ensure optimal control.



### EWO TECHNOLOGY

Focus on the job, not the tool handling. Simple ergonomic features such as improved tool balance and the new 360 degree carrying handle, for ease and comfort. And with a control handle that allows full control from any position, EWO helps getting the job done.



### X2 EDD SPREADER

Nominal input	43.2 VDC
Dimensions (L x W x H)	823 x 273 x 235 mm (±10 mm)
Operational weight incl. battery pack 1 EDD	20.5 kg (±0.2 kg)
Operational weight incl. power connector	19.9 kg (±0.2 kg)
Weight excl. battery	19.5 kg (±0.2 kg)
Max. spreading opening	607 mm
Spreading force at base of arm teeth <sup>1</sup>	105 - 342 kN / 10.7 - 34.9 ton
Spreading force at base of jaw	67.6 - 173.2 kN / 6.9 - 17.7 ton
Spreading force 25 mm from tips	38.4 - 83.2 kN / 3.9 - 8.5 ton
NFPA HSF	76.7 kN / 7.8 ton
NFPA LSF	34.7 kN / 3.5 ton
Max. pulling opening	426 mm
Pulling force	45.9 - 91.2 kN / 4.7 - 9.3 ton
NFPA HPF	59.6 kN / 6.1 ton
NFPA LPF	27.4 kN / 2.8 ton
Squeezing force at base of arm teeth <sup>1</sup>	66.3 - 120.9 kN / 6.7 - 12.3 ton

<sup>1</sup>Maximum is a theoretical force

# V-SERIES

VITAL TODAY, READY FOR TOMORROW

Rams. A vital tool in today's rescue world, where cross ramming has become fundamental for extrication. By being compatible with Profix Max, and without a pump and hose, the EDD V-series' possibilities are endless. Ready for any scenario, today or tomorrow – all with one ram.

Simply add extensions, or add up to 880 mm extra length by combining it with a Profix Max.



FOR MORE EXTENSIONS

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### FULLY INTEGRATED

Customize your ram to the situation at hand, by combining Profix Max attachments to your V4 EDD. To use it in the smallest of spaces, or to cover even the most extreme distances.



### V4 EDD RAM

Nominal input	43.2 VDC
Dimensions incl. detachable rear jaw (L x W x H)	636 x 133 x 355 mm
Max. extended length incl. detachable rear jaw	936 mm
Max. stroke	300 mm
Operational weight incl. battery pack 1 EDD	16.4 kg (±0.2 kg)
Operational weight incl. power connector	15.8 kg (±0.2 kg)
Weight excl. battery	15.4 kg (±0.2 kg)
Spreading / pushing force	58.8 kN / 6.0 ton

# G-SERIES

SAFE. SMOOTH. CONFIDENT.

Smooth and safe. No hydraulics means no more contamination and a steady cut.

EDD provides safety and confidence. The confidence to do your job.



### IMPROVED 360° DESIGN

The 360° carrying handle was already a feature unique to Resqtec extrication equipment. With the new 360° handle, the design got even better: still 360° for optimal control, but with improved shape and size.



### G4W EDD CUTTER

Nominal input	43.2 VDC
Dimensions (L x W x H)	767 x 236 x 221 mm (±10 mm)
Operational weight incl. battery pack 1 EDD	16.0 kg (±0.2 kg)
Operational weight incl. power connector	15.4 kg (±0.2 kg)
Weight excl. battery	15.0 kg (±0.2 kg)
Max. cutting opening	154 mm
Reach	128 mm
Max. cutting force <sup>1</sup>	523 kN / 53.3 ton



### G6W EDD CUTTER

Nominal input	43.2 VDC
Dimensions (L x W x H)	855 x 268 x 235 mm (±10 mm)
Operational weight incl. battery pack 1 EDD	20.0 kg (±0.2 kg)
Operational weight incl. power connector	19.4 kg (±0.2 kg)
Weight excl. battery	19.0 kg (±0.2 kg)
Max. cutting opening	183 mm
Reach	150 mm
Max. cutting force <sup>1</sup>	910 kN / 92.8 ton



### G6C EDD CUTTER

Nominal input	43.2 VDC
Dimensions (L x W x H)	868 x 251 x 235 mm (±10 mm)
Operational weight incl. battery pack 1 EDD	20.3 kg (±0.2 kg)
Operational weight incl. power connector	19.7 kg (±0.2 kg)
Weight excl. battery	19.3 kg (±0.2 kg)
Max. cutting opening	200 mm
Reach	150 mm
Max. cutting force <sup>1</sup>	954 kN / 97.3 ton

<sup>1</sup>Maximum is a theoretical force



# FX-SERIES

PERFORMANCE UNLIKE ANY OTHER

Two-way power. Impossible for hydraulics, exemplary for EDD. By providing equivalent power on both the return stroke and the outward stroke, the Fx-series are built to maximize their cutting and spreading performance. A revolution for combitools – one that only EDD can offer.



### TRUE COMBITOOLS

EDD makes up for what hydraulics lack. Hydraulic battery tools cannot provide high power on the return stroke, as the piston's usable surface in the backward direction is limited. EDD has no hydraulics: a screw spindle is all that moves back and forth. Meaning more available power in both directions, and true combitools at your disposal.



### FX4 EDD CUTTER

Nominal input	43.2 VDC
Dimensions (L x W x H)	856 x 236 x 221 mm (±10mm)
Operational weight (incl. PP1)	17.1 kg (±0.2)
Operational weight (incl. PC)	16.5 kg (±0.2)
Weight (excl. Battery)	16.1 kg (±0.2)
Max. cutting opening	282 mm
Reach	123 mm
Max. cutting force <sup>1</sup>	688 kN / 70.2 ton
Max. spreading opening	348 mm
Max. spreading force at arm	285.6 kN / 29.1 ton
Spreading force 25 mm from tips	29.6 - 33.6 kN / 3.0 - 3.4 ton
Squeezing force 25 mm from tips	37.0 - 42.0 kN / 3.8 - 4.3 ton
Max. pulling opening	271 mm
Pulling force	50.3 - 59.8 kN / 5.1 - 6.1 ton



### FX6 EDD CUTTER

Nominal input	43.2 VDC
Dimensions (L x W x H)	950 x 268 x 235 mm (±10mm)
Operational weight (incl. PP1)	21.3 kg (±0.2)
Operational weight (incl. PC)	20.7 kg (±0.2)
Weight (excl. Battery)	20.3 kg (±0.2)
Max. cutting opening	354 mm
Reach	120 mm
Max. cutting force <sup>1</sup>	1194 kN / 121.8 ton
Max. spreading opening	426 mm
Max. spreading force at arm	406.4 kN / 41.4 ton
Spreading force 25 mm from tips	41.6 - 47.2 kN / 4.2 - 4.8 ton
Squeezing force 25 mm from tips	52 - 59.0 kN / 5.3 - 6.0 ton
Max. pulling opening	327 mm
Pulling force	69.6 - 87.6 kN / 7.1 - 8.9 ton

<sup>1</sup>Maximum is a theoretical force





61° The ability to rotate its head by 61° enables spreading and cutting in tight spaces. It can even work around corners.

# P4-SERIES

POWER AND VERSATILITY



SWITCH



The P4 is a true "must have" for any Rapid Response rescue team. Being interchangeable, it can be converted from being a dedicated spreader to a cutter or combitool within seconds.

The P4 is already a trusted tool for many special teams such as the military, USAR teams and fire brigades. It brings battery-powered rescue tools to a whole new level. Power and versatility – all in one tool.

The P4 utilizes aerospace technology, developed for military fighter jets, in combination with the latest electric motor and Lithium-Ion battery innovations. Without hydraulics, the P4 requires little to no maintenance and offers extremely long battery runtimes.



It takes you into places and completes jobs no other rescue tools can.



Compact, an IP67 battery connector rating and long-lasting batteries. The P4 is the ideal rescue tool for rapid intervention.



SPREADER P4X



CUTTER P4W



FRONTLINER P4FX



The P4 control handle comes in different flavors. Having the option for a short control handle downsizes the P4 even further, making it ideal for confined space rescue operations.



**SPREADER P4X**

Nominal input	43.2 VDC
Dimensions (L x W x H)	711 x 271 x 274 mm (±10 mm)
Rear 360° carry handle	Optional (Art. Nr. 4250.1065)
Operational weight incl. Battery Pack 1	20.0 kg (±0.2 kg)
Operational weight incl. Power Connector	19.4 kg (±0.2 kg)
Weight excl. battery	19.0 kg (±0.2 kg)
Weight excl. battery and excl. spreader arms	14.4 kg (±0.2 kg)
Rotating head angle	61°
Max. spreading opening	401 mm
Spreading force at base of arm teeth <sup>1</sup>	91.0 - 3813.0 kN / 9.3 - 388.8 ton
Spreading force at base of jaw	61.0 - 204.0 kN / 6.2 - 20.8 ton
Spreading force 25 mm from tips	37.0 - 59.0 kN / 3.8 - 6.0 ton
NFPA HSF	52.0 kN / 5.3 ton
NFPA LSF	33.5 kN / 3.4 ton

<sup>1</sup>Maximum is a theoretical force



**CUTTER P4W**

Nominal input	43.2 VDC
Dimensions (L x W x H)	705 x 271 x 274 mm (±10 mm)
Rear 360° carry handle	Optional
Operational weight incl. Battery Pack 1	20.6 kg (±0.2 kg)
Operational weight incl. Power Connector	20.0 kg (±0.2 kg)
Weight excl. battery	19.6 kg (±0.2 kg)
Weight excl. battery and excl. cutter blades	14.4 kg (±0.2 kg)
Rotating head angle	61°
Max. cutting opening	153 mm
Reach	118 mm
Max. cutting force <sup>1</sup>	506 kN / 51.6 ton

<sup>1</sup>Maximum is a theoretical force



**FRONTLINER P4FX**

Nominal input	43.2 VDC
Dimensions (L x W x H)	765 x 271 x 274 mm (±10 mm)
Rear 360° carry handle	Optional
Operational weight incl. Battery Pack 1 EDD	21.8 kg (±0.2 kg)
Operational weight incl. power connector	21.2 kg (±0.2 kg)
Weight excl. battery	20.8 kg (±0.2 kg)
Weight excl. battery and excl. combi arms	14.4 kg (±0.2 kg)
Rotating head angle	61°
Max. spreading opening	319 mm
Spreading force at base of jaw	63.5 - 130.0 kN / 6.5 - 13.3 ton
Spreading force 25 mm from tips	47.8 - 77.6 kN / 4.9 - 7.9 ton
NFPA HSF	65.5 kN / 6.7 ton
NFPA LSF	42.8 kN / 4.4 ton
Max. cutting opening	236 mm
Reach	96 mm (±5 mm)
Max. cutting force <sup>1</sup>	371 kN / 37.8 ton

<sup>1</sup>Maximum is a theoretical force

**EDD EQUIPMENT P4 ACCESSORIES**



COMPLETE YOUR KIT WITH THE POWER PUSHER RAM

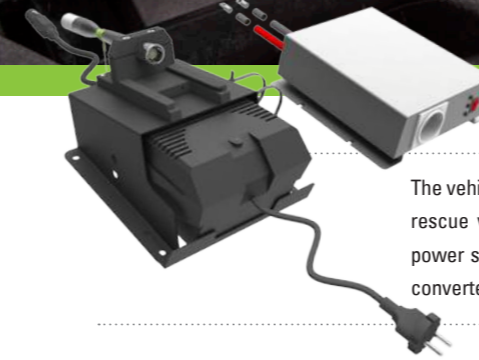


AIRCRAFT JAW SET



**MAINS POWER ADAPTER**

A mains power adapter allows you to work without batteries. Connected to 110 or 220V, the mains power adapter enables any EDD tool to operate continuously. Without interruption.



The vehicle charger charges your batteries on board of any rescue vehicle, by simply connecting it to any in-vehicle power source – whether it is 110/220V, or with the special converter to 12/24V.

RECHARGEABLE LED	BATTERY BACKPACK 10 EDD	BATTERY PACK 1 EDD	VEHICLE CHARGER	BATTERY CHARGER EDD

**SPECIFIC EDD RAM ACCESSORIES**

MULTI SWIVEL	MULTI SWIVEL WITH RINGHANDLE	EDGE SUPPORT	BEAM SUPPORT	CROWN	FIXED BASE	RHINO	POWER PLATE
						<sup>1</sup> Limitations in use of accessories apply.	
POWER PLATE PLUG	MULTI CONNECTOR	RAM ADAPTER	RAM SUPPORT	PREFIX MAX <sup>1</sup>	EXTENSIONS <sup>1</sup> Available in 5 sizes		



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**RESQTEC®**

[WWW.RESQTEC.COM](http://WWW.RESQTEC.COM)

**EUROPEAN OFFICE**

Meer en Duin 82  
2163 HC Lisse, the Netherlands  
T +31 (0)252 419002  
F +31 (0)252 411794

**USA OFFICE**

300 Forge Way, Suite 2  
Rockaway, New Jersey, 07866  
T +1 973 627 4646  
F +1 973 627 4622

**ASIA OFFICE**

Lot 5, Jalan Delima 1/1, Subang Hi-Tech Industrial Park  
47 500 Selangor, Malaysia  
T +603 5621 5298  
F +603 5621 2895

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