

EDD TECHNOLOGY

GOING BEYOND HYDRAULICS. ELECTRONIC DIRECT DRIVE.

A new era starts for rescue extrication equipment: Electronic Direct Drive (EDD) Technology direct from the motor to the output force. No need for hydraulic fluids, pump, valves or seals. Simply direct from a compact, powerful and efficient motor to output force. Highly-efficient for a long running time.

motor gears piston fluid piston
motor gears piston

Fewer steps mean more efficiency, thus more running time. All components in a battery driven hydraulic system (pump, fluid, valves, etc.) reduce efficiency. Eliminating the hydraulic fluid and pump in the system reduces efficiency loss.

NO HYDRAULICS

Hydraulic systems overheat which can create all kinds of problems. The current integrated tools have little room (small reservoir) needed to cool down the hydraulic fluid in its system. This limits the running time. EDD is not affected by heat issues. It therefore can provide much longer running time.

EDD works well in hot and cold environments. Its high durability requires little to no maintenance.

LONG RUNNING TIMES

Each tool is powered by the latest lithium-lon technology. The battery conforms to the IEC 62133 safety standards and the UN 38.3 shipping requirements for lithium batteries.

The motor technology leveraged in EDD produces more than a staggering 1.4kW which is similar to a small gasoline engine currently used in hydraulics pumps. The motor runs close to 90% efficiency and drives a robust screw or in the case of the P4 a robust gearbox. Nothing more is needed.



The best way to go integrated is to do it without hydraulics and the pump.





	SPREADER X2
Nominal input	43.2 VDC
Dimensions (L x W x H)	891 x 256 x 258 mm
Operational weight incl. Battery Pack 1	22.9 kg (±0.2 kg)
Operational weight incl. Power Connector	22.3 kg (±0.2 kg)
Weight excl. battery	21.9 kg (±0.2 kg)
Max. spreading opening	607 mm
Spreading force at base of arm teeth	342 kN / 34.9 ton
Spreading force at base of jaw	173.2 kN / 17.7 ton
Spreading force 25 mm from tips	83.2 kN / 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	91.2 kN / 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 ¹	120.9 kN / 12.3 ton
NFPA 1936	Compliant



TECHNOLOGY	RAM V4
Nominal input	43.2 VDC
Dimensions (L x W x H) 1	637 x 131 x 352 mm
Max. extended length incl. detachable rear jaw	937 mm
Max. stroke	300 mm
Operational weight incl. Battery Pack 1	16.9 kg (±0.2 kg)
Weight excl. battery	15.9 kg (±0.2 kg)
Max. spreading / pushing force	98.1 kN / 10 ton
NFPA 1936	Compliant

¹incl. detachable rear jaw.





TECHNOLOGY	CUTTER G4C	CUTTER G6C
Nominal input	43.2 VDC	43.2 VDC
Dimensions (L x W x H)	777 x 238 x 242 mm	937 x 268 x 259 mm
Operational weight incl. Battery Pack 1	15.9 kg (±0.2 kg)	22.9 kg (±0.2 kg)
Weight excl. battery	14.9 kg (±0.2 kg)	21.9 kg (±0.2 kg)
Max. cutting opening	150 mm	203 mm
Reach	129 mm	147 mm
Max. cutting force1	442 kN / 45.1 ton	954 kN / 97.3 ton
NFPA 1936	Compliant	Compliant





EDD EQUIPMENT ACCESSORIES















The P4 is an already trusted tool for many special teams such as the Military, USAR and as well Fire Brigades. It brings self-contained battery-powered rescue tools to a whole new higher level of performance and capability.



The P4 utilizes aerospace gear technology developed for military jet fighters coupled with the latest innovations in electric motor and Lithium-Ion battery technologies. By using Electronic Direct Drive technology and eliminating hydraulics completely the P4 operates super-efficient and the run times of its interchangeable battery packs are extremely long. Its reliable design requires low maintenance and minimizes any change of breaking down.



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











TECHNOLOSY	P4 SPREADER
Nominal input	43.2 VDC
Dimensions (L×W×H) 1	711 x 285 x 267 mm (±10 mm)
Operational weight incl. Battery Pack 1	19.8 kg (±0.2 kg)
Weight excl. battery	18.8 kg (±0.2 kg)
Rotating head angle	61°
Max. spreading opening	401 mm (±5 mm)
Spreading force at base of arm teeth	170.8 kN / 17.4 ton
Spreading force at base of jaw	117.0 kN / 11.9 ton
Spreading force 25 mm from tips	62.7 kN / 6.4 ton
NFPA HSF	56.7 kN / 5.8 ton
NFPA LSF	37.5 kN / 3.8 ton
NFPA 1936	Compliant
with full control handle	

E37 P4 CUTTER

TECHNOLOGY	
Nominal input	43.2 VDC
Dimensions (L x W x H) 1	706 x 285 x 267 mm (±10 mm)
Operational weight incl. Battery Pack 1	21.5 kg (±0.2 kg)
Weight excl. battery	20.5 kg (±0.2 kg)
Rotating head angle	61°
Max. cutting opening	147 mm (±5 mm)
Reach	118 mm (±5 mm)
Max. cutting force ¹	981 kN / 100.0 ton
NFPA 1936	Compliant

¹ with full control handle

EDD EQUIPMENT P4 ACCESSORIES













