

Holmatro

Rescue Tools



CORE™ Technology: Safer, Easier & Quicker

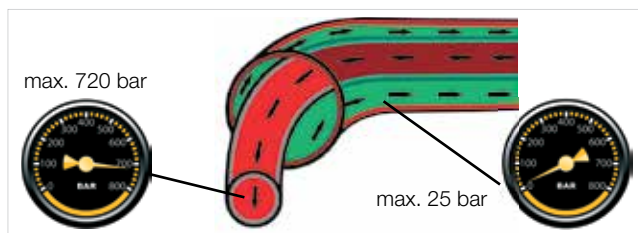
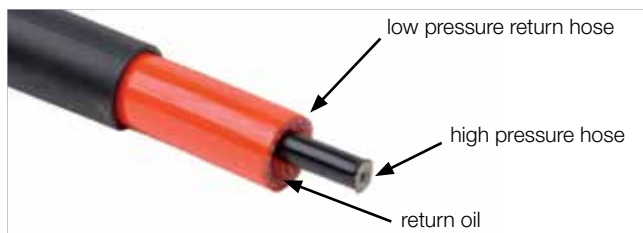
CORE™ Technology is a revolutionary turning point in rescue tool technology and definitely more than a new piece of equipment. It allows you, as a rescuer, to rethink and simplify your extrication techniques and your standard operating procedures. Once working with CORE™, you will discover the unprecedented benefits it offers.

CORE™ Technology (Coaxial Rescue Equipment Technology) refers to the hoses, couplers and valves of a rescue system. In other words the way hydraulic oil is directed from the pump to the tool and vice versa. A traditional dual hose system consists of a separate pressure and return hose connecting pump and rescue tool. CORE™ Technology is a one hose system, consisting of a high pressure inner hose inside a low pressure outer hose. The hydraulic principle and tool performance of CORE™ Technology and traditional technology are of course identical. Compared to working with a traditional system, working with CORE™ is **safer, easier & quicker**.

SAFER

One hose system (hose in hose) - protected power

- increased safety for the rescuer; high pressure hose protected by low pressure hose



Safety couplers

- one step auto-lock coupler
- two step uncoupling system



- couples and locks in just one push



- accidental uncoupling impossible during operation

According to all international safety norms

- 4:1 safety ratio for both pressure and return lines
- according to EN 13204 and NFPA 1936 (certificates by independent body available)



EASIER & QUICKER

Unique CORE™ couplers

- 360° rotating couplers on tool and on pump; no hose entanglement



- maintenance friendly flat face couplers



- easy to clean



- no dirt inside couplers

Changing tools under flow during use

- changing tools at any time without the need for a release valve on the pump
- saving precious manpower



Para-aramid reinforced hose

- no kinking
- easy to roll and unroll





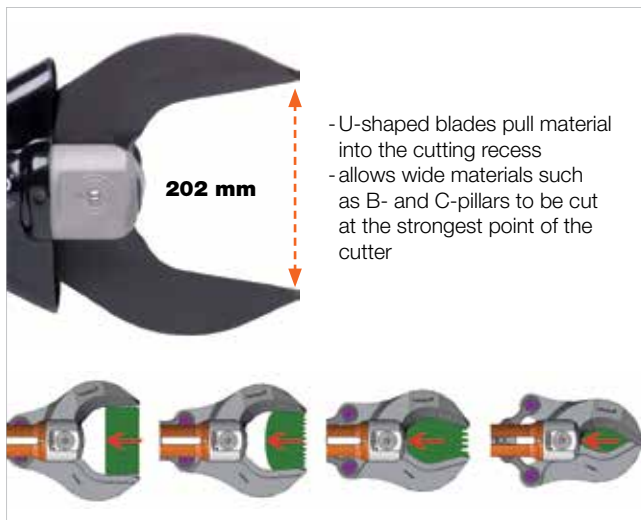
The conflict between safety and accessibility

Car manufacturers increasingly use reinforced constructions and high-strength materials in their vehicles to better protect passengers in case of an accident. The new technology applied in these cars often causes a conflict between safety and accessibility. In other words, the car construction that makes it possible for a driver to survive an accident could be the same reason why it is impossible for rescuers to free him out of his car. To help rescuers face this challenge, Holmatro developed a range of New Car Technology (NCT™) cutters. Thanks to various special features (see below) these cutters offer a better cutting performance on the tougher constructions found in modern vehicles.

Advanced blade design

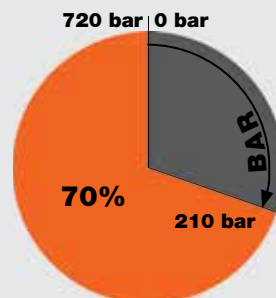


To be able to cut modern car constructions, blade design is an important part of the solution. The revolutionary Holmatro NCT™ blades, with their characteristic 90° blade angle, have a huge opening at the tips. They easily surround the wide pillars of modern cars. This U-shape of the NCT™ blades automatically pulls the material to the recess which is the point with the highest cutting force. The result: a superior cutting performance. Modern vehicle constructions and new hard materials are cut with far more efficiency and at a much lower working pressure than is possible with general purpose (GP) blades.



Reserve for the future

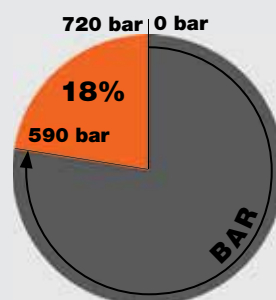
NCT™ blades



Indicative pressure needed to cut a B-pillar of a 2009 car prototype with Holmatro NCT™ blades.

Excess capacity with a cutter with Holmatro NCT™ blades (70%).

GP blades



Indicative pressure needed to cut a B-pillar of a 2009 car prototype with a conventional GP blade cutter.

Excess capacity with a cutter with GP blades (18%).

i-Bolt Technology



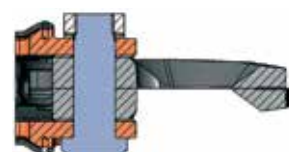
The new revolutionary central bolt construction

- the blades are squeezed together directly, resulting in less blade separation, a far more efficient cutting process and better cutting performance
- the i-Bolt is sunk into the blade holder; this results in a much flatter design which provides better access in narrow spaces
- the bolt and blade holder are protected from damage by a stainless steel cover



traditional bolt construction

new i-Bolt construction



Squeezes ("softer" aluminium) blade holder. Blades are squeezed indirectly only.



Squeezes blades directly for a superior cutting performance.

CU 4055 C NCT™ II



NCT™ II cutters - New Car Technology

specifications		CU 4035 C NCT™ II	CU 4050 C NCT™ II	CU 4055 C NCT II
EN 13204 classification		AC145E-13.8	BC165H-18.0	CC202H-19.9
blade opening	mm	159	181	202
cutting force	kN / t	355 / 36.2	927 / 94.5	1018 / 103.8
weight, ready for use	kg	13.8	18.0	19.9
integrated lighting / i-Bolt		√ / √	√ / √	√ / √

Tested according to EN 13204 and NFPA 1936 | All models also available in dual hose version



CU 4035 C NCT™ II



CU 4050 C NCT™ II



Features / Benefits



Time saving New Car Technology



- one cut for even the widest and deepest B-pillar

Improved blade design – NCT™ II



- pulls material towards the strongest point of the cutter
- superior cutting performances, tested on the latest car models
- 41 mm round bar (CU 4050 / 4055)

New Car Technology - unmatched performance



- cuts all modern, strong and complex pillars



CU 4035 C GP



GP cutters - General Purpose

specifications		CU 4007 C	CU 4010 C GP	CU 4020 C GP	CU 4030 C GP	CU 4031 C GP	CU 4035 C GP	CU 4040 C GP
EN 13204 classification		AC55B-3.8	AC116D-7.8	AC133E-10.7	BC160F-10.9	BC190H-13.8	CC205H-14.2	CC220H-17.6
blade opening	mm	55	142	152	181	300	237	282
cutting force	kN / t	220 / 22.4	254 / 25.9	394 / 40.2	394 / 40.2	380 / 38.8	380 / 38.8	470 / 47.9
weight, ready for use	kg	3.8	7.8	10.7	10.9	13.8	14.2	17.6
integrated lighting / i-Bolt		-- / √	-- / --	-- / √	-- / √	√ / √	√ / √	√ / --

Tested according to EN 13204 and NFPA 1936 | All models also available in dual hose version



CU 4007 C



CU 4020 C GP



CU 4031 C GP

Features / Benefits

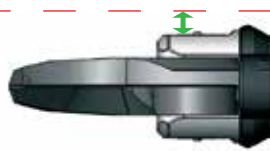


New i-Bolt Technology

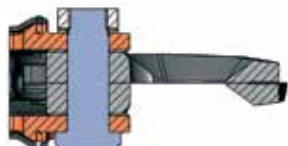
Traditional bolt construction



New i-Bolt construction



- flatter design for better access in narrow spaces



Squeezes ("softer" aluminium) blade holder. Blades are squeezed indirectly only.



Squeezes blades directly for a superior cutting performance.

Integrated lighting in handle



- clear view under all circumstances

The choice is yours

- a Holmatro NCT™ II cutter if your main application is road traffic accidents
- a Holmatro GP cutter if your application can be anything and varies from road traffic accidents to urban search and rescue, industrial accidents, train accidents, etc



Spreaders

specifications		SP 4230 C	SP 4240 C	SP 4241 C	SP 4260 C	SP 4280 C
EN 13204 classification		AS33/835 - 17.2	AS43/686 - 18.1	AS43/686 - 18.8	BS60/833-23.9	CS85/677-26.9
spreading	mm	835	686	686	833	677
max. spreading force	kN / t	86 / 8.8	206 / 21.0	331 / 33.7	269 / 27.4	397 / 40.5
pulling force	kN / t	53 / 5.4	90 / 9.2	90 / 9.2	107 / 10.9	143 / 14.5
weight, ready for use	kg	17.2	18.1	18.8	23.9	26.9
Speed Valve / integrated lighting		√ / √	√ / √	√ / √	√ / √	√ / √

Tested according to EN 13204 and NFPA 1936 | All models also available in dual hose version

Spreaders - accessories

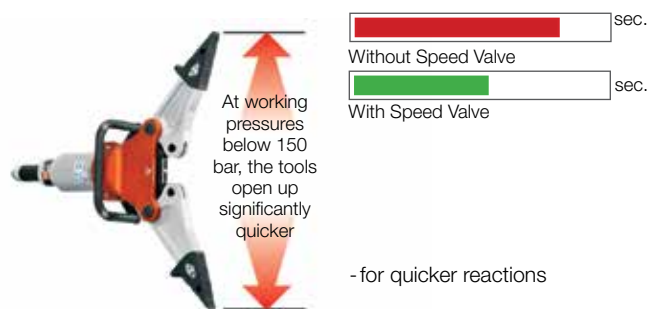
available for models	4230	4240 / 4241	4260	4280
1 x spare tip	√	√	√	√
1 x cutting tip	√	√	√	--
set pulling attachments	√	√	√	√
set pulling chains	√	√	√	√
1 x spare tip with extra long tooth *	--	√	--	--
case with all tips (2 each) and set pulling attachments	√	√	√	--
case with set pulling chains	√	√	√	--

* not in case with tips

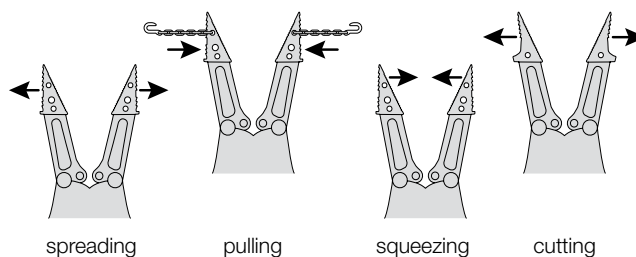


Features / Benefits

Unique Speed Valve in all spreaders



Versatile





CT 4150 C



Combi tools

specifications		CT 4120 C	CT 4150 C
EN 13204 classification		BK26/268-E-8.7	CK35/360-H-14.2
spreading	mm	268	360
max. spreading force	kN / t	220 / 22.4	211 / 21.5
cutting opening	mm	191	229
cutting force	kN / t	247 / 25.2	380 / 38.8
squeezing force	kN / t	46 / 4.7	76 / 7.8
pulling force	kN / t	61 / 6.2	51 / 5.2
weight, ready for use	kg	8.7	14.2
integrated lighting / i-Bolt		-- / --	✓ / ✓

Tested according to EN 13204 and NFPA 1936 | All models also available in dual hose version



CT 4120 C

Combi set

specifications		CT 4123 C
consisting of		3-stage hand pump HTTP 1800 UC mounted on stainless steel bottom plate with non-slip carrying handles
		5m. CORE™ hose, orange, with CORE™ couplers on both ends
		Combi tool CT 4120 C
weight set	kg	35.0



A complete compact rescue system for rapid interventions.

Combi tools - accessories

for models	CT 4120	CT 4150
set pulling attachments	✓	✓
set pulling chains 3 m + 1.5 m	✓	✓
case with set pulling attachments and pulling chains	✓	✓

Features / Benefits



Multifunctional



- cutting, spreading, squeezing and pulling with one tool

Serrated spreading/squeezing tips

- perfect grip and no changing of tips necessary





TR 4350 C

TR 4340 C



Rams		single plunger			telescopic plunger	
specifications		RA 4311 C	RA 4313 C	RA 4315 C	TR 4340 C	TR 4350 C
EN 13204 classification		R100/150-7.6	R100/250-9.0	R100/400-10.9	TR217/158-81/124-10.8	TR217/388-81/354-16.3
spreading force over full stroke	kN / t	100 / 10.2	100 / 10.2	100 / 10.2	--	--
spreading stroke	mm	150	250	400	--	--
spreading force 1st plunger	kN / t				217 / 22.1	217 / 22.1
spreading force 2nd plunger	kN / t				81 / 8.3	81 / 8.3
spreading stroke 1st plunger	mm				158	388
spreading stroke 2nd plunger	mm				124	354
total spreading stroke	mm	--	--	--	282	742
retracted/extended length	mm	315/465	415/665	565/965	303/585	533/1275
weight, ready for use	kg	7.6	9.0	10.9	10.8	16.3

Tested according to EN 13204 and NFPA 1936 | All models also available in dual hose version



RA 4311 C

RA 4313 C

RA 4315 C

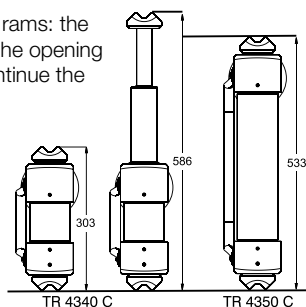
Rams - accessories		for models	
description		RA	TR
ram support HRS 22 (NCT™)		√	√
extension pipe	125 mm	√	--
	225 mm	√	--
	500 mm	√	--
connection piece		√	--
extension pipe*	250 mm	--	√
	450 mm	--	√

* only for TR 4340

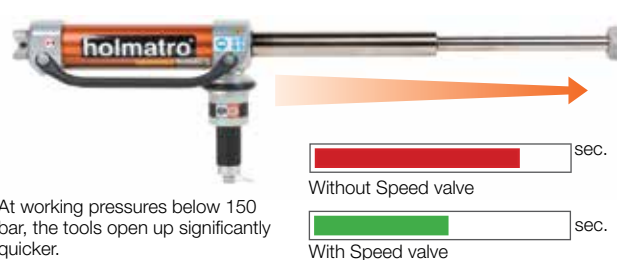
Features / Benefits

Working as a team

- both single plunger and telescopic rams: the larger the model can be placed in the opening created by the smaller one and continue the spreading job



Unique Speed Valve in all rams



At working pressures below 150 bar, the tools open up significantly quicker.

- for quicker tool placement



Rams		single plunger		double plunger	
specifications		RA 4321 C	RA 4331 C	RA 4322 C	RA 4332 C
EN 13204 classification		R161/250-11.1	R161/350-12.6	R161/480-15.4	R161/680-18.3
spreading force over full stroke	kN / t	161 / 16.4	161 / 16.4	161 / 16.4	161 / 16.4
spreading / pulling stroke	mm	250	350	2 x 240	2 x 340
pulling force over full stroke	kN / t	50 / 5.1	50 / 5.1	50 / 5.1	50 / 5.1
retracted/extended length	mm	512/762	612/962	745/1225	945/1625
weight, ready for use	kg	11.1	12.6	15.4	18.3

Tested according to EN 13204 and NFPA 1936 | All models also available in dual hose version



Rams - accessories

description

ram support HRS 22 (NCT™)
rim adapter set, in carrying / storage box
complete set of accessories in carrying / storage box
set pulling chains in carrying / storage box
carrying handle

Features / Benefits

Extension pipes

- different sizes to bridge large lengths
- only connectable to the fixed side of all ram models (except RA 4322 and RA 4332)



Rotating cross heads on all rams

- easy positioning and perfect grip in every situation





Extendo ram

specifications		XR 4360 C
EN 13204 classification		R100/650-13.6 TR100/300-100/350-13.6
spreading force	kN / t	100 / 10.2
mechanical stroke	mm	300
hydraulic stroke	mm	350
total stroke	mm	650
retracted/extended length	mm	625 / 1275
weight, ready for use	kg	13.6

Tested according to EN 13204 and NFPA 1936 | Also available in dual hose version



Features / Benefits



Manually extendable

- for quicker positioning
- enables more precise positioning
- allows you to start spreading almost immediately



Quick positioning: place in ram support and extend manually.

Unique adjustable carrying handle

- can be turned to left or right: easy use of ram on all sides of the car



Adjustable carrying handle for easy use of ram on all sides of the car.

10 t pushing force at every length

- no loss of power over full stroke



Manual extension with auto-lock system

- easy: no need to lock manually
- safe: no accidental unlocking possible thanks to 2-step unlocking system





SPU 16 BC
whisper pump
with ECO-switch

Greenline battery pump SPU 16 BC: The first pump for all rescue operations, with next-generation battery technology



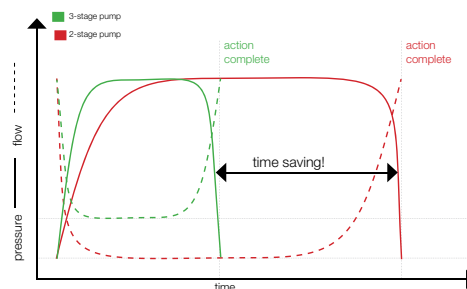
Motor pumps - battery

specifications	SPU 16 BC	
number of tool connections ¹⁾	1	
effective capacity oil tank	cc	1700
weight, ready for use ²⁾	kg	17.7
continuous operation	per battery	90 minutes during common vehicle extrications 180 minutes unloaded (idle)

¹⁾ EN 13204: STO = Single Tool Operation | ²⁾ including battery, hydraulic oil and coupler | a CORE™ pump with connection for 1 tool offers the same operational usability as a dual hose pump with 2 connections

3-stage pump technology

- higher flow / tool speed in 2nd stage, more control when you need it in 3rd stage



Features / Benefits

Emission-free

- ideal for powering rescue equipment in confined spaces like tunnels, trains and collapsed buildings
- healthier for rescuers and victims
- environmentally friendly



Long running time

- 90 minutes during common vehicle extrications, even with the use of heavy-duty rescue tools
- 45 minutes continuous spread/cut tool use

All weather proof

- suitable for use at below zero temperatures, up to -20° C
- suitable for use in wet weather conditions

ECO whisper mode

- power saving and extremely low noise level when tool is not in use

Compact and lightweight

- easy to carry by one person to any rescue situation
- easy to store

LED lights above the valve block and LED battery indicator

- easy to locate pump in the dark
- facilitates coupling and uncoupling of hose in the dark
- indicates battery capacity while pump is in use
- when pump is not in use, the battery capacity can be checked by pressing a button





DPU 31 PC
whisper pump
with ECO-switch



SPU 16 PC
whisper pump
with ECO-switch



Motor pumps - petrol

specifications		SPU 16 PC	DPU 31 PC
number of tool connections ¹⁾		1	2 (simultaneous operation)
effective capacity oil tank	cc	1680	2490
weight, ready for use ²⁾	kg	16.7	24.9

¹⁾ EN 13204: STO = Single Tool Operation MTO = Multiple Tool Operation

²⁾ Including hydraulic and engine oil, fuel and coupler(s) | SPU 16 PC: a CORE™ pump with connection for 1 tool offers the same operational usability as a dual hose pump with 2 connections | DPU 31 PC: simultaneous operation of 2 tools

Features / Benefits

Large hydraulic oil content - DPU 31 PC

- sufficient to operate any two rescue tools at the same time, including all heavy dusty rescue equipment



Low noise level



noise level (dB)

72 dB
68 dB



High noise level

- burden for victims
- difficult to communicate at rescue scene.

Low noise level

- decreased burden for victims
- easy to communicate at rescue scene

- according to EN ISO 11201
- more comfortable for victim and better workplace for rescuer

Lighting above valve block

- easy identification in the dark and facilitates coupling and uncoupling of hoses



3-stage pump technology - SPU 16 PC

- higher flow / tool speed in 2nd stage, more control when you need it in 3rd stage



ECO-switch

- electronic engine speed control. In ECO setting, engine speed increases automatically to maximum speed when tool is used
- when tool is not used, engine speed reverts to nominal speed
- minimises noise and fuel consumption



Extremely lightweight pumps < 25 kg

- can be carried quickly and easily to even the most inaccessible accident locations





SR 10 PC 1



SR 20 PC 2



Motor pumps - petrol / electric		petrol		electric
specifications		SR 10 PC 1	SR 20 PC 2	SR 20 DC 1
number of tool connections ¹⁾		1	2 (simultaneous operation)	1
effective capacity oil tank	cc	2500	4000	4000
weight, ready for use ²⁾	kg	14.5	22.7	24.9

¹⁾ EN 13204: STO = Single Tool Operation, MTO = Multiple Tool Operation | ²⁾ including hydraulic and engine oil, fuel and coupler(s) | SR PC 1 / SR 20 DC 1: a CORE™ pump with connection for 1 tool offers the same operational usability as a traditional dual hose pump with 2 connections | SR 20 PC 2: simultaneous operation of 2 tools | All models also available in dual hose version

Features / Benefits

3-stage pump technology

- much higher flow/speed in 2nd stage for quicker rescue operations
- lower flow/speed in 3rd stage for more tool control

Soft-grip carrying handle

- better grip
- ergonomic design for improved carrying balance
- pump easier to carry



Hydraulic oil level indicator

- for quick and easy monitoring of oil level from the outside of the pump



Compact and lightweight

- ergonomic, compact design
- easy to carry
- easy to store



Quick Fix and Release Bracket (optional)

- For quick and easy access to pump in rescue vehicle
- Saves time during rescue operations
- Saves space in rescue vehicle
- Less physical strain on rescuers when pulling out and putting back the pump





SR 31 PC 2

Motor pumps - petrol / electric		petrol		electric	
specifications		SR 31 PC 2	SR 32 PC 2	SR 31 DC 2	SR 32 DC 2
number of tool connections ¹⁾		2 (simultaneous operation)		2 (simultaneous operation)	
effective capacity oil tank	cc	4000		4000	
weight, ready for use ²⁾	kg	64.5	69.4	72.7	77.6
length hoses	m	2 x 15	2 x 20	2 x 15	2 x 20

¹⁾ EN 13204: MTO = Multiple Tool Operation | ²⁾ including hydraulic and engine oil, fuel and couplers | All models for simultaneous operation of 2 tools | All models also available with foldable wheels

Features / Benefits

Foldable carrying handles

- for easy carrying
- foldable for easy storage

Foldable wheels set (optional)

- for fast and easy transportation



Complete with hose reels and tool support

- with 15 m or 20 m hose reels
- with universal support for cutters, spreaders and combi tools



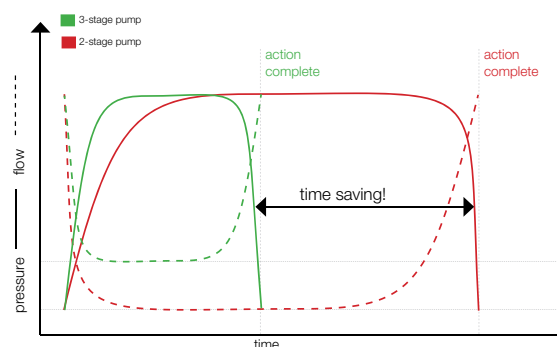
Large hydraulic oil capacity

- enough oil to operate any two tools at the same time, including all heavy-duty rescue equipment



3-stage pump technology

- much higher flow/speed in 2nd stage for quicker rescue operations
- lower flow/speed in 3rd stage for more tool control





SR 40 PC 2



SR 42 PC 2



Motor pumps - petrol / electric		petrol			electric		
specifications		SR 40 PC 2	SR 41 PC 2	SR 42 PC 2	SR 40 DC 2	SR 41 DC 2	SR 42 DC 2
number of tool connections ¹⁾		2 (simultaneous operation)			2 (simultaneous operation)		
effective capacity oil tank	cc	6000			6000		
weight, ready for use ²⁾	kg	37.3	64.0	68.9	41.0	67.7	72.6
length hoses	m	--	2 x 15	2 x 20	--	2 x 15	2 x 20

¹⁾ EN 13204: MTO = Multiple Tool Operation | ²⁾ including hydraulic and engine oil, fuel and couplers | All models for simultaneous operation of 2 tools | All models also available in dual hose version

Features / Benefits

3-stage pump technology

- much higher flow/speed in 2nd stage for quicker rescue operations
- lower flow/speed in 3rd stage for more tool control

Soft-grip carrying handle

- better grip
- ergonomic design for improved carrying balance
- pump easier to carry



Other options

- 15 m or 20 m hose reels
- dual hose connection for traditional dual hose systems; with pivoting couplers for easy storage (no couplers sticking out)



Comparatively lightweight

- standard version weighs 37.3 kg
- lighter than comparable heavy duty pumps

Large hydraulic oil capacity

- enough oil to operate any two tools at the same time, including all heavy-duty rescue equipment



LED lighting (optional accessory)

- easy to locate pump in the dark
- facilitates coupling and uncoupling of hoses in the dark





MPU 61 PC 20

Motor pumps - with hose reel		petrol		
specifications		DPU 61 PXC 15 ³⁾	DPU 61 PXC 20 ³⁾	DPU 61 PXC 25
number of tool connections ¹⁾		2 (simultaneous operation)		
effective capacity oil tank	cc	4000		
weight, ready for use ²⁾	kg	78.9	83.7	88.7
length hoses	m	2 x 15	2 x 20	2 x 25

¹⁾ EN 13204: MTO = Multiple Tool Operation | ²⁾ including hydraulic and engine oil, fuel and couplers | ³⁾ also available in dual hose version | All models for simultaneous operation of 2 tools | Colour of hoses orange /orange or orange/blue

Trio pumps		petrol	electric
specifications		MPU 60 PC ³⁾	MPU 60 DC
EN 13204 classification ¹⁾		MTO	
effective capacity oil tank	cc	4000	
weight, ready for use ²⁾	kg	50.6	55.5

¹⁾ EN 13204: MTO = Multiple Tool Operation | ²⁾ including hydraulic and engine oil, fuel and couplers | ³⁾ also available with electric starter | All models for simultaneous operation of 3 tools | All models also available with hose reels with 2 x 15 or 2 x 20 m hoses, colours orange / orange or orange/blue



MPU 60 DC





FTW 1800 C



HTW 1800 C



Hand / Foot pumps		single hose	dual hose	CORE™		
specifications		HTW 300 ABU ¹⁾	HTW 700 ABU	HTW 1800 C	FTW 1800 C	HTT 1800 UC
number of tool connections ²⁾		1	1	1		
source of energy		hand	hand	hand	foot	hand
effective capacity oil tank	cc	300	700	1800	1800	1800
weight ready for use ³⁾	kg	4.0	9.1	10.8	11.3	18.0

¹⁾ for use with single acting tools only | ²⁾ EN 13204: STO = Single Tool Operation | ³⁾ including hydraulic oil and coupler



HTW 300 ABU



HTW 700 ABU



HTT 1800 UC

Pumps - Diesel		CORE™	Dual hose
specifications		SPU 35 YCF	TPU 35 YF
number of tool connections ¹⁾		1	2
effective capacity oil tank	cc	2000	
weight, ready for use ²⁾	kg	48.2	48.9

¹⁾ EN 13204: STO = Single Tool Operation, ATO = Alternative Tool Operation

²⁾ including hydraulic and engine oil, fuel and coupler(s)

Pumps - air driven		
specifications		AHS 1400 FDUC
number of tool connections ¹⁾		1
max. air pressure	bar	8
effective capacity oil tank	cc	1400
weight, ready for use ²⁾	kg	6.9

¹⁾ EN 13204: STO = Single Tool Operation | ²⁾ including hydraulic oil and coupler



SPU 35 YCF













AHS 1400 FDUC



CORE™ hoses 5 m.



Hoses - CORE™						Hoses - dual version				Hoses - single				
colours ¹⁾														
length	m	5	10	15	20	5	10	15	20	1	2	3	5	
weight ²⁾	kg	2.5	4.7	6.9	9.1	4.5	7.8	11.0	14.3	1.0	1.3	1.6	2.3	

¹⁾ each length available in the colours indicated | ²⁾ weight with couplers and filled with oil

safety ratio all hoses
4:1 = 2880 bar



dual version hose 5 m



single hose 3 m

Hose reels - CORE™									
version		single - left or right version			double			electric rewind - left or right version	
colours ¹⁾			●	●		●	●	●	●
length	m	15	20	25	2 x 15	2 x 20	2 x 25	25	30
weight ²⁾	kg	17.1	19.5	22.2	33.4	38.3	43.6	38.0	40.5

¹⁾ each length available in the colours indicated | ²⁾ weight inclusive hose with couplers and filled with oil



single hose reel



double hose reel



electric rewind hose reel

Hose reels - dual hose version					
version		single - left or right version		double	
colours		●	left / right	●	left / right
length	m	15	20	2 x 15	2 x 20
weight ¹⁾	kg	19.5	22.0	39.5	44.5

¹⁾ weight inclusive hose with couplers and filled with oil



double hose reel, dual hose version



BCT 4120



BCU 4010 GP

Self-contained rescue tools		battery tools	
specifications		combi	cutter
		BCT 4120	BCU 4010 GP
EN 13204 classification		BK26/268-E-15.3	AC116-D-14.7
spreading	mm	268	--
max. spreading force	kN / t	220 / 22.4	--
cutting force	kN / t	247 / 25.2	254 / 25.9
squeezing force	kN / t	46 / 4.7	--
pulling force	kN / t	61 / 6.2	--
weight, ready for use	kg	15.3	14.7
integrated lighting		✓	✓

- All battery driven tools are delivered with battery and carrying strap

Accessories battery tools					
	battery		battery pouch		carrying frame
	charger		power cable		carrying harness
	box		set pulling chains		inverter 12VDC-230VAC
	carrying bag		set pulling adapters		

Features / Benefits

Cordless



- no pump and hose(s) needed
- battery quickly rechargeable and replaceable

Ideal for rapid interventions & confined spaces



Extremely portable

- compact, lightweight and perfectly balanced



Also usable with external power sources

- can be connected to e.g. a car battery





HCT 4120

Self-contained rescue tools		hand-operated tools		
specifications		combi	cutter	Power Wedge
		HCT 4120	HCU 4010 GP	HPW 4624
EN 13204 classification		BK26/268-E-10.8	AC116-D-10.3	--
min. insertion height	mm	--	--	6
max. lifting height	mm	--	--	51
spreading	mm	268	--	--
max. spreading force	kN / t	220 / 22.4	--	253 / 25.8
cutting force	kN / t	247 / 25.2	254 / 25.9	--
squeezing force	kN / t	46 / 4.7	--	--
pulling force	kN / t	61 / 6.2	--	--
weight, ready for use	kg	10.8	10.3	11.8
integrated lighting		--	--	✓



HCU 4010 GP



HPW 4624

For pulling attachments and pulling chains of hand-operated combi HCT 4120 see accessories battery tools.

Features / Benefits

Ergonomic operation

- tool is operated by pushing handle forward, which is a natural and efficient motion



Handle foldable and rotatable

- easy carrying and storage
- can be used in any position
- also easy to use in confined spaces



Self-contained

- pump integrated in tool, so no additional pump and hose(s) needed
- easy to carry to remote locations
- easy to use in confined spaces



Self-contained: also suitable for use in confined spaces.

Small insertion height - HPW 4624

- creates initial gap for other lifting/spreading equipment



Aluminium jacks

specifications		HLJ 50 A 6	HLJ 50 A 10
lifting capacity	kN / t	510 / 52	510 / 52
closed height	mm	150	196
stroke	mm	61	104
weight, ready for use	kg	7.0	8.7



Power Wedge

specifications		PW 4624 C ¹⁾
min. insertion height	mm	6
max. lifting height	mm	51
spreading force	kN / t	253 / 25.8
weight, ready for use	kg	9.5

¹⁾ also available in dual hose and hand-operated version



- creates space for spreader or high-pressure lifting bag



PW 4624 C



Example of progressive lifting operation



Power Wedge creates opening for lifting bag (see page 28).



Lifting bag is inflated and backed up by stabilization blocks.



This creates space for lifting jack.

Toe jack

specifications		TJ 3610
max. capacity on saddle	kN / t	118 / 12
max. capacity on toe	kN / t	98 / 10
lifting height / plunger stroke	mm	250
closed height	mm	448
min. insertion height toe	mm	56
weight, ready for use	kg	20.5



TJ 3610



Concrete crusher

specifications		CC 20 C
max. opening	mm	230
crushing force	kN / t	68 / 7
shape of tip		pointed
weight ready for use	kg	22.9

- heavy-duty: designed to quickly break away large, thick pieces of concrete
- limited dust: supports a clear view at the rescue scene
- no vibrations: prevents risk of secondary collapse
- ideal to use in combination with mini cutter CU 4007 for cutting re-bar
- more silent than use of rescue saw: only pump produces sound



CORE™
Technology



Designed for heavy-duty work.



A perfect combination: crushing concrete with the CC 20 C and cutting re-bar with mini cutter CU 4007 C (or SMC 4006 C).



The crusher hardly generates any dust.

Pipe squeezer

specifications		HPS 60 AU
max. squeezing force	kN / t	147 / 15
max. outside ø pipe	mm	60
max. wall thickness pipe	mm	4
weight, ready for use	kg	8.6

HPS 60 AU



Cable cutters		Steel cable			Electric cable	
specifications		HWC 16 U	HWC 20 U	HWC 32 U	HCC 85 U	HCC 100 U
capacity	kN / t	54 / 5.5	153 / 15.6	262 / 26.7	51 / 5.2	91 / 9.2
max. jaw opening	mm	20	50	32	85	100
capacity steel cable 6 x 19	ø mm	16	20	32	--	--
capacity solid steel	ø mm	13	19	25	--	--
capacity ground cable	ø mm	--	--	--	50	75
capacity telephone cable	ø mm	--	--	--	85	100
weight, ready for use	kg	2.2	9.0	9.9	7.3	13



HWC 32 U

HCC 85 U

Special Materials Cutter

specifications		SMC 4006 C ¹⁾
blade opening	mm	25
cutting force	kN / t	193 / 19.7
cutting capacity ²⁾	mm	Ø 20
weight, ready for use	kg	6.8

¹⁾ also available in dual hose version | ²⁾ steel hardness 75 HRb



SMC 4006 C



Mini cutter

specifications		HMC 8 U	
1	with fixed coupler		
2	with 30 cm pigtail hose; in synthetic case		
3	360° rotation elbow and 30 cm pigtail hose; in synthetic case		
4	with 360° rotation elbow and handpump HTW 300 ABU mounted with 2m. hose; in synthetic case		
cutting force	kN / t	79 / 8.0	
depth / width of jaw	mm	40 / 40	
weight, ready for use	kg	3.0	



Door openers

specifications		HDR 50	HDO 100 ¹⁾
spreading force	kN / t	47 / 4.8	--
pushing force	kN / t	51 / 5.2	100 / 10.2
min. / max. length	mm	710 / 1310	-- / --
stroke	mm	--	130
weight, ready for use	kg	11.0	6.6

¹⁾ with rotating hose connection and handle, delivered in synthetic carrying / storage box; also available with 30 cm pigtail hose, without handle



HDO 100

HDR 50



Ram support

model		HRS 22	HRS 22 NCT™
max. load	kN / t	216 / 22	220 / 22.4
weight	kg	7.7	14.9

- suitable for every door opening: HRS 22 NCT™ for wider door sills and B-pillars of new model cars
- various positioning bars for different ramming angles
- NCT™ version with teeth providing grip and profiled bars to prevent tilting of the ram

Rim adapter set

weight, incl. case	kg	12.4
--------------------	----	------

- can be used with rams RA 4321-22 C / RA 4331-32 C
- rescuer does not have to move under the vehicle
- can also be used to push away the steering column of a truck

Chocks & blocks

set A	set B
2 x step chock	2 x lock block low
2 x wedge small	2 x lock block medium
2 x wedge large	2 x lock block high
	2 x wedge small
	2 x wedge large

- made of recycled polyethylene, water- and oil-resistant
- virtually indestructible, longer lifespan than wood
- non-slip interlocking profile

Tool stations

dimensions (L x W)	cm	200 x 150	250 x 200
weight	kg	2.3	3.7

- durable, water- and dirt-repellent PVC-coated polyester
- foldable, so easy to carry and store

Protection shield

dimensions (L x W)	mm	900 x 500
weight	kg	2.9

- ensures optimal safety for the victim
- made of thick yet flexible PVC material
- transparent for continuously monitoring the victim
- with 4 handles to hold in any position

Window punch

material	anodized aluminium and heat-treated steel
----------	---

- can be attached to clothing by means of clip
- fast, effective and safe

Rescue support bag

Consisting of:	tyre deflator, seatbelt cutter, trim removal tools, window punch, flexible steel rule, marker pen, mini LED torch, multi-cutter, waist and thigh strap
----------------	--

HRS 22



HRS 22 NCT



Set A



Set B



V-Strut

article number	150.062.158
max. axial load	16 kN
closed length	1080 mm
number of stroke steps	24
stroke step size	30 mm
total stroke	720 mm
extended length	1800 mm
weight	7.2 kg
dimensions (LxWxH)	1080 x 149 x 210 mm
length tensioning belt	5 m

- vehicle stabilization strut with integrated head, base plate and tensioning belt with hook and ratchet mechanism
- all-in-one solution, no loose parts that may get lost
- ready for immediate use
- unique auto-lock system
- fast set-up in just 15 seconds



Glas-Master

dimensions (L x W x H)	mm	420 x 245 x 35
weight	kg	1.0

- delivered including a window punch and mounting clips



Secunet airbag safety cover

weight	gr	250
--------	----	-----

- easy to install, within seconds
- for all passenger cars and modern vans
- in synthetic storage box with wall-mounting bracket



Seatbelt cutter

dimensions (L x W x H)	mm	124 x 44 x 5
------------------------	----	--------------

- safe, cutting blade fully covered



Sharp Edge Protection Covers

	dimensions cm	weight kg	SEP 5 contents	SEP 10 contents
cover with Velcro	26 x 30	0.18	2 x	4 x
blanket with magnets	60 x 60	0.52	2 x	4 x
	150 x 60	1.20	1 x	2 x

- wear-resistant, fire-retardant polyester, water-repellent
- blankets with magnets for instant attachment to a vehicle
- washable (magnets are removable)



One super lightweight shoring and lifting system for every rescue situation



- vehicle extrication



- trench rescue



- heavy vehicle rescue



- urban search and rescue

struts with hydraulic cylinder - 100 kN / 10.1 t					struts with pneumatic cylinder - 4 kN / 0.4 t				
model	locking system	retracted length mm	stroke mm	weight kg	model	locking system	retracted length mm	stroke mm	weight kg
HS 1 Q 5 FL	Auto-lock	632	252	10.3	AS 3 Q 5 FL	Auto-lock	632	252	8.4
HS 1 Q 10 FL	Auto-lock	1092	252	13.0	AS 3 Q 10 FL	Auto-lock	1092	252	11.2
HS 1 L 5+	Locknut	575	252	9.2	AS 3 L 5+	Locknut	575	252	7.3
HS 1 L 10+	Locknut	1035	252	11.9	AS 3 L 10+	Locknut	1035	252	10.1

Auto-lock: plunger with automatic locking mechanism that locks in steps of 9 mm. Retracting the plunger is only possible after releasing the locking mechanism.

Locknut: plunger with thread and Locknut. When the plunger is extended the Locknut can be secured.



HS 1 L 5+



AS 3 Q 5 FL

Operation hydraulic PowerShore™

Handpump, weight ready for use 9.9 kg



Operation pneumatic PowerShore™



Single or double control unit, pressure reducer, air hoses and air bottle

PowerShore™ manual (mechanical) struts

model	locking system	retracted length mm	stroke mm	weight kg
MS 2 L 2 +	Thread	250	127	3.5
MS 2 L 5 +	Locknut	575	250	6.7

Thread: plunger with thread. When the plunger is extended the thread is self-retaining.

Locknut: plunger with thread and a Locknut. When the plunger is extended the Locknut can be secured.



MS 2 L 2+

Extensions / connector

model	extension mm	colour code	weight kg
SX 1	125	white	1.5
SX 2	250	blue	1.9
SX 5	500	yellow	2.8
SX 10	1000	green	4.6
SX 15	1500	red	6.4
FX 1	-		1.4

Connector FX1: with female snap-lock system on both sides. To connect the male end of an extension with one of the heads. In this way it is possible to make a fixed shore without the use of a strut.



FX 1



SX 1



SX 2

Accessories

Flat head; 0.3 kg.		V-block head small; 0.7 kg.		Adjustable hook wrench.	
Flat head with nailing plate; 0.8 kg.		V-block head large; 1.7 kg.		Rope with carbine hook.	
Tilting head; Max. angle 45° in all directions; 1.7 kg.		Cone head; 0.5 kg.		Rubber anti-roll block.	
Tilting head with nailing plate; Max. angle 45° in all directions; 2.5 kg.		Cross head; 1.1 kg.		Storage / carrying bag for accessories.	
Beam support head; 150 mm; with nailing holes; 1.7 kg.		Pointed head; 1.2 kg.		Storage / carrying bag for struts and extensions.	
Beam support head; 100 mm; with nailing holes; 1.2 kg.		Base support plate; can support 3 swivel heads; 4.0 kg.		2-way block; to support 2 tilting heads.	
L-support head; with nailing holes; 1.0 kg.		Trench support plate to support 2 swivel heads; 0.9 kg.		3-way swivel head; contains 3 integrated swivel heads for use with up to 3 shoring lines in various directions.	
Swivel head; can be placed in almost any position and against each other for mutual support; 2.0 kg.		Tensioning belt; 1.4 kg; load 10 kN.			

Features / Benefits

Snap-lock system

- all items can be connected within seconds



Reflective colour coding of extensions



Shoring at various angles possible



10.1 t hydraulic lifting capacity



Lightweight

- easy to carry
- easy to assemble and very quick to position




Lifting bags - max. working pressure 8 bar

model	max. effective lifting force kN / t	max inflation height mm	dimensions (L x W) mm	weight kg
HLB 1	10 / 1.0	80	150 x 150	0.6
HLB 3	35 / 3.7	130	228 x 228	1.5
HLB 5	50 / 5.1	150	270 x 270	2.0
HLB 10	100 / 10.2	215	380 x 380	3.8
HLB 12	120 / 12.2	225	408 x 408	5.0
HLB 18	180 / 18.3	240	660 x 360	6.8
HLB 20	200 / 20.3	290	508 x 508	6.7
HLB 24	240 / 24.4	215	1000 x 310	9.5
HLB 29	300 / 30.6	348	611 x 611	9.8
HLB 32	320 / 32.6	380	658 x 658	13.0
HLB 40	400 / 40.7	405	714 x 714	15.1
HLB 67	670 / 68	520	908 x 908	23.5

- thickness incl. profile of HLB 1/3/5 is 22 mm and of other models 25 mm
- reflecting labels: HLB 1/3/5 on 1 corner; other models on 3 corners


Accessories

item	description
1	air hoses 5 and 10 m.: red, yellow or blue
2	shut-off hose with safety
3	pressure reducer for both 200 and 300 bar
4	double control unit, safety valve set at 8.5 bar
5	single control unit, safety valve set at 8.5 bar
6	connection piece for connection of 2 air bottles
7	synthetic control box, safety valve set at 8.5 bar
8	air bottle 6 litres, 200 or 300 bar
-	adapter set for connection on various air sources
-	air control sets 200 or 300 bar consisting of air hoses, shut-off hoses, pressure reducer, control unit and connection piece, in storage box




Lifting bags - max. working pressure 0.5 bar

model	lifting capacity (a pair) t	dimensions single bag (L x W) mm	weight (a set*) kg	height deflated / inflated mm
LAB 4 UN	3.6	600 x 600	27.0	60 / 580
LAB 6 UN	5.8	750 x 750	34.0	60 / 580
LAB 9 UN	8.2	900 x 900	41.0	60 / 580
LAB 16 UN	14.6	1200 x 1200	65.0	60 / 580

*** Each set consists of:**

- 1 1 x storage bag
- 2 2 x lifting bag (of equal capacity)
- 3 1 x pressure reducer
- 4 2 x low pressure hose
- 5 1 x double control unit
- 6 1 x repair kit


Flow stoppers - max. working pressure 3 bar

specifications		OLS 100 / 200	OLS 200 / 400	OLS 300 / 600	OLS 500 / 1000
min bursting pressure	bar	9	9	9	9
max. back pressure	bar	1	1	1	1
smallest diameter	mm	96	195	298	455
largest diameter	mm	200	400	600	1000
length	mm	500	500	700	1000
weight	kg	2.0	4.0	9.0	20.0

Flow stoppers - accessories
description

single control unit, 3 bar safety valve
pressure reducer 200/300 bar
air hoses, 3, 5, 10 or 15 m., green
air bottle 6 litres, 200 or 300 bar





Leak sealing system

specifications		HVSP 250 U
working pressure	bar	6
dimensions sealing pad (L x W)	mm	600 x 390
dim. sealing compartment (L x W)	mm	250 x 50
weight ready for use	kg	5.3



Tank sealing system

specifications		HLS 2
working pressure	bar	1.5
capacity lifting bag* at 1.5 bar	t	2

* lifting bag HLB 10 to be ordered separately, see page 28



After sales service



testing & measuring equipment



handles with integrated LED lights to update your existing 3000-series tools



sets of 2 blades for cutters and combi tools



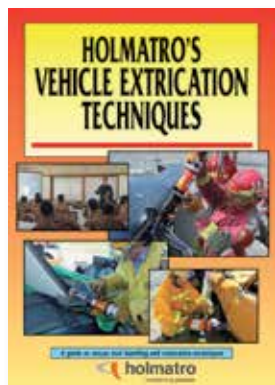
maintenance sets for all tools and pumps



hydraulic oil, engine oil and lubricants

Vehicle Extrication Techniques

A richly illustrated book, interactive cd-rom and a series of 8 posters on vehicle extrication techniques and rescue tool handling. For group training or to brush up your personal skills. Various languages available.



100-page training book



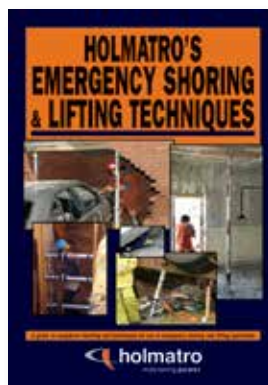
interactive cd-rom



poster series,
dimensions 70 x 50 cm

Emergency Shoring & Lifting Techniques

A richly illustrated training book and a series of 5 posters on equipment handling and techniques for use in emergency shoring & lifting operations. Various languages available.



100-page training book



poster series,
dimensions 70 x 50 cm

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