



Rescue Tools

the power of innovation

New Car Technology (NCT™) versus General Purpose



General Purpose cutters according to EN 13204

Since end 2004 the European standard EN 13204 for hydraulic rescue tools is replacing all existing national norms. This EN-norm is a **General Purpose** norm that has to take into account not only road traffic accidents, but also applications like industrial accidents, accidents in an urban environment, train accidents etc. To allow users to compare the performance of cutters a table with cutting requirements was included in the norm. Depending on its performance, a cutter can be categorised A-H (see table below). In order to be classified in a cutting category successfully a cutter must be able to cut each of 5 profiles 12 times, 60 cuts in total, with one set of blades. A cutter is classified in the category of the smallest profile it can cut successfully.

CUTTING CATEGORIES EN 13204

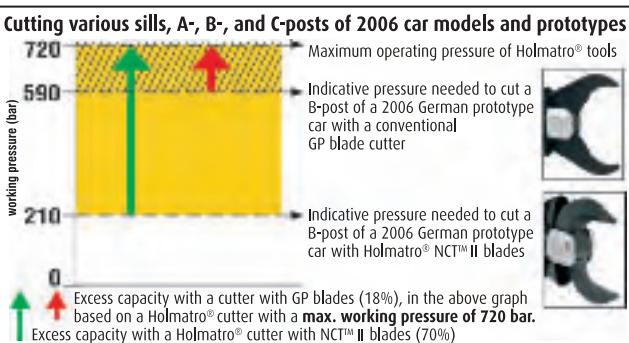
category	●	■	○	□	■ ■
A	mm	mm	mm	mm	mm
B	14	30 x 5	21.3 x 2.3		
C	16	40 x 5	26.4 x 2.3		
D	18	50 x 5	33.7 x 2.6	35 x 4	
E	20	60 x 5	42.6 x 2.6	40 x 4	50 x 25 x 2.5
F	22	80 x 8	48.3 x 2.9	45 x 4	50 x 30 x 3.0
G	24	80 x 10	60.3 x 2.9	50 x 4	60 x 40 x 3.0
H	26	100 x 10	76.1 x 3.2	55 x 4	80 x 40 x 3.0
	28	110 x 10	76.1 x 4.0	60 x 4	80 x 40 x 4.0

= example: a cutter with this cutting performance will be classified as "E"

The basis for the development of the EN-norm was the fact that the extrication of victims from a vehicle is one of the many applications where hydraulic rescue equipment is used. That is why we speak of General Purpose equipment. The EN-norm and in fact any norm, is by nature static. In other words: the specifications of the EN-norm are set and will not change for the coming years.

New Car Technology - NCT™

Reserve for the future



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.



Holmatro®'s answer to new developments in car industry: NCT™ (New Car Technology)

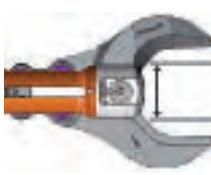
The majority of the use of hydraulic rescue cutters will be in car accidents. It is precisely the car industry that is continuously developing and therefore constantly asking for improved cutters. On the basis of continuous tests in our laboratory in which hardness, toughness and construction (method of several layers) are analysed, Holmatro is at an early stage in a position to adapt the rescue equipment to the new situation.

These tests clearly show that the performance of a cutter depends on many aspects. The blade design is one of the major aspects and has two important parameters, namely the blade material and the blade shape. From extensive tests and research it has also appeared that the blade shape that is best able to cut the official EN general-purpose materials, differs greatly from that of a shape more suitable for the latest vehicle constructions. In order to remain ahead of the developments in the car industry, Holmatro has therefore developed a new series of blades: the NCT™ II (New Car Technology) blades.

The starting point for determining the best shape and blade opening of the NCT™ II blades was the increasing diameter and the design of the sills and A-, B- and C-posts. Extensive tests on existing vehicles, but especially on vehicle prototypes still to be introduced, have indicated that in almost all situations, with one cutting movement, the section selected can be cut with a NCT™ II cutter.

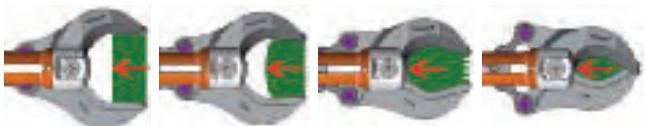


Improved blade design - NCT™ II



- U-shaped blades based on latest models B-pillars
- allows wide material to be cut at the strongest point of the cutter

Improved blade design - NCT™ II



- pulls material towards the strongest point of the cutter
- superior cutting performances tested on the latest car models
- up to 95 ton cutting capacity

NCT™ II also cuts according to the highest EN 13204 class H and even higher (CU 4050 C NCT™ II)

Contact your local dealer for NCT™-presentation/demonstration. For contact details see www.holmatro.com



CORE™ Technology – a major step forward in the field of extrication



- **QUICK**
- **EASY**
- **SAFE**

What is CORE™ Technology?

CORE™ Technology refers to the hoses, couplers and valves of a rescue system. In other words: the way hydraulic oil is directed from pump to tool and vice versa. A traditional dual hose system consists of a separate pressure and return hose connecting pump and rescue tool. A CORE™ system consists 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.

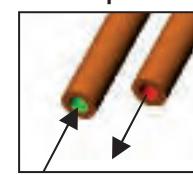


CORE™ Technology



Why CORE™ Technology?

CORE™ Technology is a revolutionary turning point in rescue tool technology. CORE™ allows you, as a rescuer to re-think and simplify your extrication techniques and your standard operating procedures, as well as the very underlying concepts these techniques and procedures are based on. Once working with CORE™, you will discover the unprecedented benefits CORE™ offers. Compared to working with a traditional system, **working with CORE™ saves time, is more user-friendly, makes a more efficient use of manpower and is safer.**



Traditional dual hoses

How the rescuer will benefit from the many new features CORE™ Technology offers:

Rolling and unrolling of a CORE™ hose

- a CORE™ hose can rotate freely on both ends (360°)
- impossible to get twisted

360°



- reinforced with state-of-the-art multilayered para-aramid yarn
- greater degree of hose flexibility

- a CORE™ hose is one single hose
- much easier to handle than a traditional dual hose
- user-friendly
- hose unrolls itself without kinking



Changing under flow

- no longer necessary to change over at the pump
 - rescue team members can be deployed more efficiently
- less hose handling
 - one hose less at the extrication scene
- rescuer can change his tool any time
 - connect a tool any time without changing over at the pump
- sequence of getting started and packing up is much more flexible
 - pump can be started and be under flow before connecting the hose to the pump and to the tool

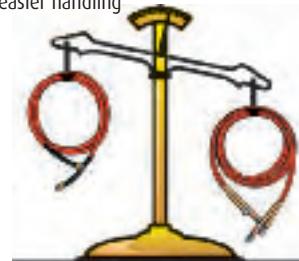


Hose kinking

- CORE™ hoses are reinforced with para-aramid yarn
 - no kinking (and possible damage resulting from it)

Weight

- CORE™ Technology reduces hydraulic hose weight around 40%
 - easier handling



left = CORE™ right = Traditional dual system

Coupling and uncoupling

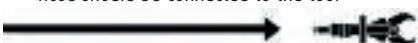
- time-saving
 - only half the number of couplers (and dust caps) compared to a traditional dual hose system
- no pigtail hoses
 - coupling direct on the tool



- Bend restrictors at either end of the hose and hose binder
 - maximum grip during coupling and uncoupling and easy to store



- clear indications printed on hose
 - one single glance to see which side of the hose should be connected to the tool



Number of hoses in action circle

- fewer hoses on the extrication scene
 - more organised and “clean” working area and reduced risk of tripping over hoses

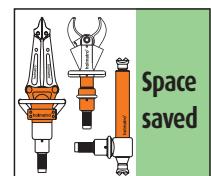
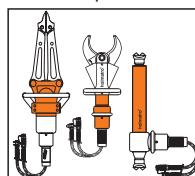
Hose colour

- with CORE™ it is no longer relevant to be working with different hose colours for different tools
 - one colour so more flexibility as hoses are 100% interchangeable
 - 4 colours available



Dimensions

- CORE™ Technology tools have no pigtail hoses
 - saves space



Space saved

Converting a traditional dual hose system to a CORE™ system only takes a couple of minutes



NCT™ II CUTTERS - New Car Technology

SPECIFICATIONS	CU 4035 C NCT™ II	CU 4050 C NCT™ II
article number	150.012.095	150.012.094
max. working pressure	bar/Mpa	720 / 72
blade opening	mm	159
cutting force	kN / t	355 / 36.2
round bar (acc. to EN 13204)	mm	32
integrated lighting / i-Bolt		✓ / ✓
weight ready for use CORE™/dual hose kg	13.5 / 14.6	18.1 / 19.2
dimensions (L x W x H) CORE™	mm	714 x 270 x 202
dimensions (L x W x H) dual hose	mm	749 x 270 x 202
EN 13204 CORE™		AC145E-13.5
EN 13204 dual hose		BC165H-19.2



CU 4035 C NCT™ II



CU 4050 C NCT™ II



Features / Benefits

All models also available in dual hose version



model	art.nr.
CU 4035 NCT™ II	150.012.088
CU 4050 NCT™ II	150.012.093

technical details same as CORE™ version, except weight

technical details same as CORE™ version, except weight

Integrated lighting in handle



- clear view under all circumstances



New i-Bolt technology

Traditional bolt construction

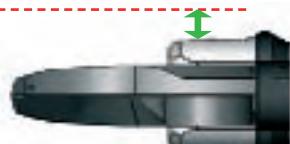


- flatter design for better access in tight places



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

New i-Bolt construction



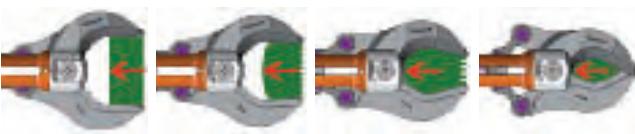
Squeezes blades directly for a superior cutting performance.

Unmatched New Car Technology - NCT™



- cuts all modern, strong and complex posts

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 C NCT™ II)

All Holmatro® cutters:

- temperature reach -20°C - +80°C
- hydraulic safety factor 2:1 (1440 bar)
- endurance test cutter of 1000 cycles of biting in a bar that can't be cut at 720 bar
- endurance test dead man's handle of 6000 cycles

GP CUTTERS - General Purpose

SPECIFICATIONS	CU 4005 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
article number	150.012.128	150.012.139	150.012.164	150.012.162	150.012.125	150.012.123	150.012.183
max. working pressure	bar/Mpa	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72
blade opening	mm	40	142	152	182	300	237
cutting force	kN / t	130 / 13.3	254 / 25.9	394 / 40.2	394 / 40.2	380 / 38.8	470 / 47.9
round bar (acc. to EN 13204)	mm	16	24	26	26	32	35
integrated lighting / i-Bolt	- / -	- / -	- / ✓	- / ✓	✓ / ✓	✓ / ✓	✓ / -
weight ready for use CORE™/dual hose kg	3.2 / 3.9	7.8 / 8.9	10.7 / 11.8	10.9 / 12.0	13.8 / 14.9	14.2 / 15.3	17.6 / 18.7
dimensions (L x W x H) CORE™	mm	355 x 125 x 69	622 x 210 x 170	690 x 230 x 187	711 x 230 x 187	759 x 270 x 202	771 x 270 x 202
dimensions (L x W x H) dual hose	mm	382 x 125 x 69	657 x 210 x 170	725 x 230 x 187	746 x 230 x 187	794 x 270 x 202	806 x 270 x 202
EN 13204 CORE™		AC40B-3.2	AC116D-7.8	AC133E-10.7	BC160F-10.9	BC190H-13.8	CC205H-14.2
EN 13204 dual hose		AC40B-3.9	AC116D-8.9	AC133E-11.8	BC160F-12.0	BC190H-14.9	CC205H-15.3
							CC220H-18.7



Features / Benefits

All models also available in dual hose version



model	art.nr.
CU 4005	150.012.148
CU 4010 GP	150.012.138
CU 4020 GP	150.012.133
CU 4030 GP	150.012.163
CU 4031 GP	150.012.124
CU 4035 GP	150.012.120
CU 4040 GP	150.012.184

technical details same as CORE™ version, except weight

Various extra hardened and regriindable shapes of blades



Moving parts covered

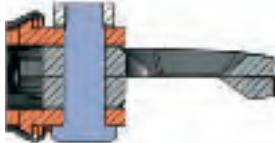


New i-Bolt technology

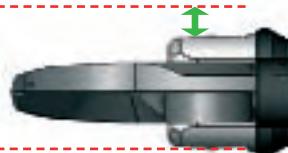
Traditional bolt construction



- flatter design for better access in tight places

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

New i-Bolt construction



Squeezes blades directly for a superior cutting performance.

Integrated lighting in handle



- clear view under all circumstances



Lightest mini cutter in its class (CU 4005 C)



- weight ready for use only 3.2 kg
- can be carried and operated with one hand (push button)



• QUICK • EASY • SAFE

For detailed information see page 3

SPREADERS

SPECIFICATIONS	SP 4230 C	SP 4240 C	SP 4260 C	SP 4280 C
article number*	150.012.113	150.012.105	150.012.110	150.012.116
max. working pressure bar / Mpa	720 / 72	720 / 72	720 / 72	720 / 72
spreading mm	835	686	833	677
max. spreading force up to kN / t	86 / 8.8	206 / 21.0	269 / 27.4	397 / 40.5
min. spreading force** kN / t	33 / 3.4	43 / 4.4	60 / 6.1	85 / 8.7
squeezing force kN / t	47 / 4.8	65 / 6.6	83 / 8.5	177 / 18.1
pulling force kN / t	53 / 5.4	90 / 9.2	104 / 10.6	143 / 14.5
weight ready for use CORE™ / dual hose kg	17.2 / 18.3	18.1 / 19.2	23.9 / 25.0	26.9 / 28.0
dimensions (L x W x H) CORE™ mm	855 x 316 x 206	771 x 316 x 206	883 x 316 x 224	803 x 316 x 224
dimensions (L x W x H) dual hose mm	890 x 316 x 206	806 x 316 x 206	918 x 316 x 224	838 x 316 x 224
EN 13204 CORE™	AS33/835-17.2	AS43/686-18.1	BS60/833-23.9	CS85/677-26.9
EN 13204 dual hose	AS33/835-18.3	AS43/686-19.2	BS60/833-25.0	CS85/677-28.0

* all spreaders with integrated lighting in carrying handle

CORE.
Technology

** according to EN 13204: 25 mm from the tips over full spreading range



SPREADERS - ACCESSORIES

for model	SP 4230 C	SP 4240 C	SP 4260 C	SP 4280 C
1 1 x spare tip	150.013.602	150.013.702	150.183.188	150.183.187
2 1 x cutting tip	150.013.616	150.013.703	150.013.166	
3 set pulling attachments	150.582.155	150.582.006	150.182.021	150.182.022
4 set pulling chains 3 m + 1.5 m	150.582.152	150.582.152	150.582.261	150.182.019
5 1 x tip with extra long tooth*		150.183.189		
case with all tips (2 each) and set pulling attachments	150.582.017	150.582.014	150.582.013	
case with set pulling chains	150.582.021	150.582.021	150.582.020	

* not in case 150.582.014



Features / Benefits

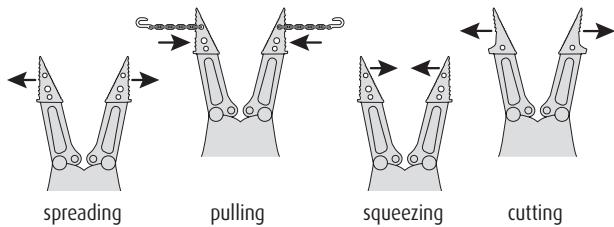
All models also available in dual hose version



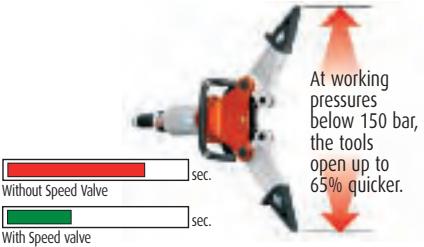
model	art. nr.
SP 4230	150.012.112
SP 4240	150.012.114
SP 4260	150.012.115
SP 4280	150.012.117

technical details same as CORE™ version, except weight

Versatile



Unique Speed Valve in all spreaders



- up to 65% faster tool opening for quicker reactions

Optimal balance between opening force and spreading width



- power available where you need it:
with the arms closed (EN 13204)

Integrated lighting in handle



- clear view under all circumstances

the power of innovation

COMBI TOOLS

SPECIFICATIONS	CT 4120 C	CT 4150 C
article number	150.012.141	150.012.099
max. working pressure bar / Mpa	720 / 72	720 / 72
spreading mm	268	360
max. spreading force up to kN / t	200 / 20.4	211 / 21.5
min. spreading force* kN / t	26 / 2.7	35 / 3.6
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 distance mm	181	416
pulling force kN / t	61 / 6.2	51 / 5.2
integrated lighting / i-Bolt	-/-	✓/✓
weight ready for use CORE™/ dual hose kg	8.2 / 9.3	14.2 / 15.3
dimensions (L x W x H) CORE™ mm	675 x 210 x 170	787 x 270 x 202
dimensions (L x W x H) dual hose mm	710 x 210 x 170	822 x 270 x 202
EN 13204 CORE™	BK26/268-E-8.2	CK35/360-H-14.2
EN 13204 dual hose	BK26/268-E-9.3	CK35/360-H-15.3

* according to EN 13204: 25 mm from the tips over full spreading range



CT 4150 C
Round bar
(acc. EN 13204)
Ø 32 mm



CT 4120 C
Round bar
(acc. EN 13204)
Ø 24 mm

**COMBI TOOLS - ACCESSORIES**

for model	CT 4120 C	CT 4150 C
1 set pulling attachments	150.582.551	150.582.026
2 set pulling chains 3 m + 1.5 m	150.582.152	150.582.152
case with set pulling attachments and pulling chains	150.582.028	150.582.018

**Features / Benefits**

All models also available in dual hose version



model	art. nr.
CT 4120	150.012.140
CT 4150	150.012.092

technical details same as CORE™ version, except weight

Integrated lighting in handle



- clear view under all circumstances

New i-Bolt technology

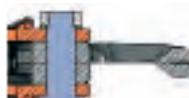
Traditional bolt construction



New i-Bolt construction



- flatter design for better access in tight places



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



Squeezes blades directly for a superior cutting performance.

Well serrated spreading/squeezing tips



- perfect grip and no changing of tips necessary



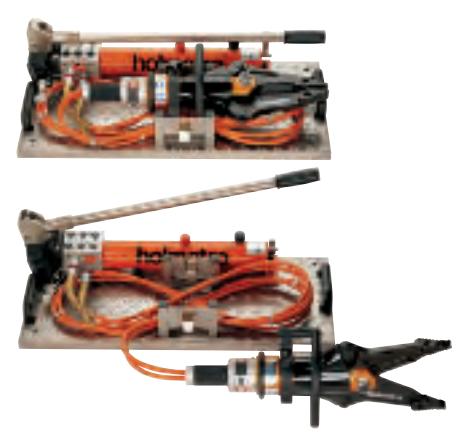
- always a perfect grip - easy to pick up and carry without the tool toppling against your leg

COMBISETS

SPECIFICATIONS	CT 4123 C	CT 4123
article number	150.012.159	150.012.156
consisting of:	3-stage hand pump HTT 1800 UC *	3-stage hand pump HTT 1800 U *
	mounted on stainless steel bottom plate with non-slip carrying handles	
	5 m. CORE™ hose, orange with CORE™ coupler on both ends	3.6 m. dual hose, orange. On one side fixed to the pump, on the other side with coupler.
	Combi tool CT 4120 C **	Combi tool CT 4120 **

* see page 13 for technical details

** see above for technical details



Holmatro®... number one in the world for a reason

RAM JACKS - single plunger / telescopic

RAM JACKS - SINGLE PLUNGER

SPECIFICATIONS	RA 4311 C	RA 4313 C	RA 4315 C
article number	150.032.042	150.032.043	150.032.044
max. working pressure bar / Mpa	720 / 72	720 / 72	720 / 72
spreading force over full stroke kN / t	100 / 10.2	100 / 10.2	100 / 10.2
retracted / extended length mm	315 / 465	415 / 665	565 / 965
spreading stroke mm	150	250	400
weight ready for use CORE™/dual hose kg	7.9 / 9.0	9.0 / 10.1	10.9 / 12.0
dimensions (L x W x H) CORE™ mm	315 x 122 x 325	415 x 122 x 325	565 x 122 x 325
dimensions (L x W x H) dual hose mm	315 x 122 x 360	415 x 122 x 360	565 x 122 x 360
EN 13204 CORE™	R100/150-7.9	R100/250-9.0	R100/400-10.9
EN 13204 dual hose	R100/150- 9.0	R100/250-10.1	R100/400-12.0



RAM JACKS - SINGLE PLUNGER - ACCESSORIES

item	description	art. nr.
1	RAM support HRS 22	150.181.011
2	extension pipe 125 mm*	150.181.570
3	extension pipe 225 mm*	150.181.571
4	extension pipe 500 mm*	150.181.572
5	connection piece	150.181.573

*only to connect on fixed side of ram



RAM JACKS - TELESCOPIC



SPECIFICATIONS	TR 4340 C	TR 4350 C
article number	150.032.039	150.032.040
max. working pressure bar / Mpa	720 / 72	720 / 72
spreading force 1st plunger kN / t	217 / 22.1	217 / 22.1
spreading force 2nd plunger kN / t	81 / 8.3	81 / 8.3
retracted / extended length mm	303 / 585	533 / 1275
spreading stroke 1st plunger mm	158	388
spreading stroke 2nd plunger mm	124	354
weight ready for use CORE™/dual hose kg	10.7 / 11.8	17.4 / 18.5
dimensions (L x W x H) CORE™ mm	303 x 133 x 350	533 x 133 x 350
dimensions (L x W x H) dual hose mm	303 x 133 x 385	533 x 133 x 385
EN 13204 CORE™	TR217/158-81/124-10.7	TR217/388-81/354-17.4
EN 13204 dual hose	TR217/158-81/124-11.8	TR217/388-81/354-18.5

RAM JACKS - TELESCOPIC - ACCESSORIES

description	art.nr.
RAM support HRS 22	150.181.011
extension pipe 250 mm*	150.181.330
extension pipe 450 mm*	150.181.331

*only connect on fixed side of TR 4340 C.



Features / Benefits

All models also available in dual hose version

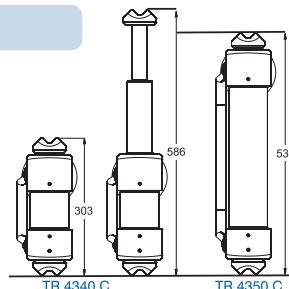


model	art. nr.
RA 4311	150.032.051
RA 4313	150.032.052
RA 4315	150.032.053
TR 4340	150.032.049
TR 4350	150.032.050

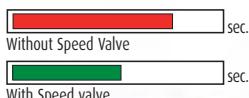
technical details same as CORE™ version, except weight

Working as a team

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



Unique Speed Valve in all RAM jacks



At working pressures below 150 bar, the tools open up to 35% quicker.
- up to 35% faster tool opening for quicker tool placement

Rotating cross heads

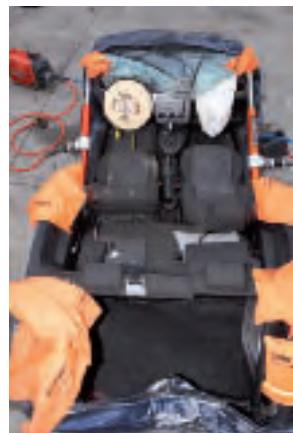


- easy positioning and perfect grip in every situation

the power of innovation

RAM JACKS - SINGLE AND DOUBLE PLUNGER

SPECIFICATIONS	RA 4321 C	RA 4331 C	RA 4322 C	RA 4332 C
article number	150.032.045	150.032.046	150.032.041	150.032.047
max. working pressure bar / Mpa	720 / 72	720 / 72	720 / 72	720 / 72
spreading force over full stroke kN / t	161 / 16.4	161 / 16.4	161 / 16.4	161 / 16.4
retracted / extended length mm	512 / 762	612 / 962	745 / 1225	945 / 1625
spreading stroke mm	1 x 250	1 x 350	2 x 240	2 x 340
pulling force kN / t	49.5 / 5.1	49.5 / 5.1	49.5 / 5.1	49.5 / 5.1
weight ready for use CORE™/dual hose kg	11.3 / 12.4	13.0 / 14.1	15.4 / 16.5	18.0 / 19.1
dimensions (L x W x H) CORE™ mm	512 x 122 x 338	612 x 122 x 338	745 x 122 x 338	945 x 122 x 338
dimensions (L x W x H) dual hose mm	512 x 122 x 373	612 x 122 x 373	745 x 122 x 373	945 x 122 x 373
EN 13204 CORE™	R161/250-11.3	R161/350-13.0	R161/480-15.4	R161/680-18.0
EN 13204 dual hose	R161/250-12.4	R161/350-14.1	R161/480-16.5	R161/680-19.1



RAM JACKS - ACCESSORIES

item	description	art. nr.	qty. in box
1	RAM support HRS 22 (page 19)	150.181.011	-
2	rim adapter set, in box (page 19)	150.182.580	-
3	accessories in box	150.582.008	-
3a	cross head	150.033.032	2
3b	wedge piece	150.181.324	1
3c	conical tip	150.181.325	1
3d	base plate	150.181.326	2
3e	connection piece	150.181.327	1
3f	extension pipe 165 mm*	150.181.321	1
3g	extension pipe 330 mm*	150.181.322	1
3h	extension pipe 600 mm*	150.181.323	1
3i	set pulling attachments	150.582.281	1
4	set pulling chains, in box	150.582.021	-
4a	set pulling chains 3 m + 1.5 m	150.582.152	1
5	carrying handle**	150.013.163	-

* extension pipes can ONLY be mounted on the fixed base of the single plunger RAM jacks RA 4321 C / RA 4331 C or can be used as a fixed strut

** carrying handle is only for RAM jacks with 2 plungers
RA 4322 C / RA 4332 C



All models with unique Speed Valve (see page 8)

Features / Benefits

All models also available in dual hose version



model	art. nr.
RA 4321	150.032.054
RA 4331	150.032.061
RA 4322	150.032.055
RA 4332	150.032.062

technical details same as CORE™ version, except weight

Full range of accessories



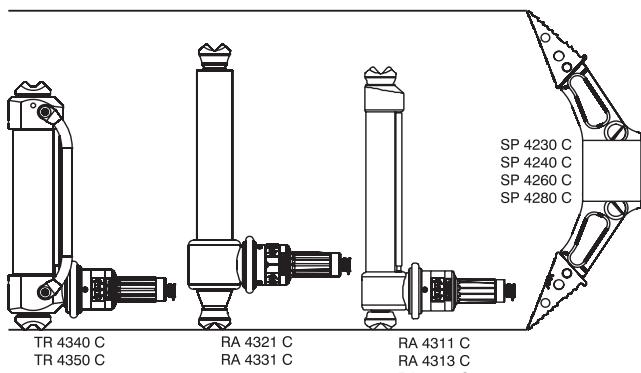
- provides multifunctional applications

- item 1 and 2 see page 19

Extension pipes



- 3 different sizes to bridge large lengths



- fit in the opening made with each spreader

Holmatro®... number one in the world for a reason

MOTOR PUMPS - CORE™ version

SPECIFICATIONS	personal power	personal power duo	duo
	PPU 15 C	DPU 31 PC	PU 30 C
article number	150.152.189	150.152.180	150.152.197
operating pressure bar/Mpa	720 / 72	720 / 72	720 / 72
4-stroke petrol engine	2.5 hp - 1.9 kW	3.5 hp - 2.6 kW	3 hp - 2.2 kW
capacity fuel tank cc	1250	1250	1200
continuous operation hours	4	4	4
effective capacity oil tank cc	2000	2490	3600
pump type	two-stage radial	2 x two-stage axial	2 x two-stage radial
output 1st stage 0-190 bar cc / min	2450	2 x 2800-3000	2 x 2400
output 2nd stage 190-720 bar cc / min	620	2 x 550-600	2 x 620
weight ready for use kg	14.2	24.9	24.4
dimensions (L x W x H) mm	423 x 300 x 380	600 x 290 x 425	500 x 340 x 391
EN 13204	STO	MTO	MTO

* a CORE™ pump with connection for 1 tool (PPU 15 C) offers the same operational usability as a traditional dual hose pump with 2 connections

EN 13204: STO = Single Tool Operation; MTO = Multiple Tool Operation; ATO = Alternative Tool Operation



MOTOR PUMPS - dual hose version

art. nr.	model	weight kg	description	EN 13204
150.152.316	PPU 15	15.5	1 tool connection	STO
150.152.315	TPU 15	15.7	2 tool connection	ATO
150.152.355	PU 30	24.9	2 tool connection	MTO

for technical details see specifications CORE™ version

Features / Benefits

The ultimate Personal Power® Concept - DPU 31 PC



- impact-resistant material and rubber suspension for motor and pump unit
- spark plug, pump modules and all filling plugs accessible from the outside
- works under an angle according EN
- engine and pump unit protected by side plates; operator shielded from hot parts

Lighting above valve block - DPU 31 PC



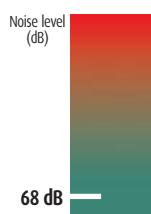
- easy identification in the dark and facilitates coupling and uncoupling of hoses

Pump housing of impact-resistant synthetic material; rubber suspension for motor and pump unit (PPU 15 C)



- pump is robust and even works after a one-meter drop!

Low noise level of 68 dB according to EN ISO 11820 - DPU 31 PC



- 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

Standard with carrying/protection frame - PU 30 C



- prevents damage during storage, transport and use and allows for easy carrying

Extremely lightweight



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

MOTOR PUMPS - petrol / electric / diesel - CORE™ version

SPECIFICATIONS		SPU 35 PC / PCF	SPU 35 DC / DCF	SPU 35 YCF
art.nr.	1 tool connection - carrying handle	150.152.593 (SPU 35 PC)	150.152.603 (SPU 35 DC)	--
art.nr.	1 tool connection - protection frame	150.152.588 (SPU 35 PCF)	150.152.199 (SPU 35 DCF)	150.152.594
operating pressure	bar/Mpa	720 / 72	720 / 72	720 / 72
motor		petrol 2.9 hp-2.1 kW-4-stroke	electric 230 VAC-0.9 kW-50 Hz-1 Ph	diesel 4 hp - 3 kw
capacity fuel tank	cc	1500	--	2500
continuous operation	hours	4	no limitation	4
effective capacity oil tank	cc	2000	2000	2000
output 1st stage 0-190 bar	cc / min	2400	2400	2400
output 2nd stage 190-720 bar	cc / min	700	700	700
weight ready for use	kg	1*	25.2	26.4
weight ready for use	kg	2*	27.4	27.8
dimensions with frame (L x W x H)	mm	405 x 345 x 430	405 x 345 x 430	525 x 447 x 522
EN 13204		STO	STO	STO
* article number corresponds with the weight		- a CORE™ pump with connection for 1 tool offers the same operational usability as a traditional dual hose pump with 2 connections - EN 13204: STO = Single Tool Operation		



SPU 35 PCF



SPU 35 DCF



TPU 35 YF

MOTOR PUMPS - petrol / electric / diesel - dual hose version

art. nr.	model	weight kg	description	EN 13204
150.152.589	SPU 35 P	25.0	petrol engine - 1 tool connection - carrying handle	STO
150.152.586	SPU 35 PF	27.2	petrol engine - 1 tool connection - protection frame	STO
150.152.605	TPU 35 P	25.9	petrol engine - 2 tool connection - carrying handle	ATO
150.152.587	TPU 35 PF	28.2	petrol engine - 2 tool connection - protection frame	ATO
150.152.026	SPU 35 D	26.2	electric motor - 1 tool connection - carrying handle	STO
150.152.027	SPU 35 DF	27.6	electric motor - 1 tool connection - protection frame	STO
150.152.028	TPU 35 D	27.1	electric motor - 2 tool connection - carrying handle	ATO
150.152.029	TPU 35 DF	28.5	electric motor - 2 tool connection - protection frame	ATO
150.152.060	SPU 35 YF	48.0	diesel engine - 1 tool connection - protection frame	STO
150.152.064	TPU 35 YF	48.9	diesel engine - 2 tool connection - protection frame	ATO

for technical details see specifications CORE™ version

EN 13204: ATO = Alternative Tool Operation

ACCESSORIES

art. nr.	description
150.182.115	selector valve M 201 U for connection of extra rescue tools only available in dual hose version



M 201 U

MOTOR PUMPS - CORE™ version

SPECIFICATIONS		PU 5 C-1	PU 5 C-2
article number		150.152.428	150.152.229
operating pressure	bar/Mpa	720 / 72	720 / 72
4-stroke petrol engine		2 hp - 1.5 kW	2 hp - 1.5 kW
capacity fuel tank	cc	1250	1250
continuous operation	hours	2.5	2.5
pump type		one stage radial	two stage radial
effective capacity oil tank	cc	530	530
output first stage 0-720 bar	cc/min	620	--
output first stage 0-190 bar	cc/min	--	2450
output 2nd stage 190-720 bar	cc/min	--	620
weight ready for use	kg	11.7	12.0
dimensions (L x W x H)	mm	325 x 269 x 398	325 x 269 x 398
EN 13204		STO	STO



PU 5-2

**MOTOR PUMPS - dual hose version**

art. nr.	model	weight kg	EN 13204
150.152.343	PU 5-1	11.7	STO
150.152.346	PU 5-2	12	STO

for technical details see specifications CORE™ version

Features PU 5

- extremely compact, lightweight and perfectly balanced
- enough oil volume to work with all cutters, spreaders, combi tools and most rams
- ideal for rapid intervention

MOTOR PUMPS		DUO - CORE™ version 2 tools work simultaneously		TRIO - CORE™ version 3 tools work simultaneously	
SPECIFICATIONS		DPU 60 PC	DPU 60 DC	MPU 60 PC	MPU 60 DC
article number		150.152.200	150.152.201	150.152.437	150.152.439
operating pressure	bar/Mpa	720 / 72	720 / 72	720 / 72	720 / 72
motor		petrol - 4-stroke 5.5 hp - 4.1 kW	electric - 230 VAC 1.5 kW - 50 Hz - 1 Ph	petrol - 4-stroke 5.5 hp - 4.1 kW	electric - 230 VAC 1.5 kW - 50 Hz - 1 Ph
capacity fuel tank	cc	1400	--	1400	--
continuous operation	hours	4	no limitation	4	no limitation
effective capacity oil tank	cc	4000	4000	4000	4000
output 1st stage 0-190 bar	cc / min	2 x 2565	2 x 2290	3 x 2110	3 x 1900
output 2nd stage 190-720 bar	cc / min	2 x 660	2 x 590	3 x 660	3 x 590
weight ready for use	kg	46.1	45.7	50.6	55.5
dimensions (L x W x H)	mm	500 x 372 x 497	500 x 372 x 497	500 x 372 x 497	500 x 372 x 497
EN 13204		MTO (Multiple Tool Operation)		MTO (Multiple Tool Operation)	
ALSO AVAILABLE:					
petrol engine with electric start		DPU 60 PXC	150.152.212	MPU 60 PXC	150.152.438
electric motor 380-440 VAC - 50 Hz - 3 Ph		DPU 60 EC	150.152.202		



MOTOR PUMPS - DUO / TRIO - dual hose version

art. nr.	model	weight kg	description
150.152.232	DPU 60 P	47.5	petrol engine
150.152.231	DPU 60 PX	50.9	petrol - electric start
150.152.233	DPU 60 D	47.1	electric motor 230 VAC
150.152.234	DPU 60 E	48.9	electric motor 380-440 VAC
150.152.332	MPU 60 P	51.6	petrol engine
150.152.333	MPU 60 PX	55.0	petrol - electric start
150.152.334	MPU 60 D	56.5	electric motor 230 VAC

for technical details see specifications CORE™ version

MOTOR PUMPS - DUO WITH 4 CONNECTIONS - dual hose version

art. nr.	model	weight kg	description
150.152.252	XPU 60 P	48.6	petrol engine
150.152.251	XPU 60 PX	52.0	petrol - electric start
150.152.253	XPU 60 D	48.2	electric motor 230 VAC
150.152.254	XPU 60 E	50.0	electric motor 380-440 VAC

for technical details see specifications DUO pumps CORE™ version

HOSE REELS:

- single hose reels CORE™ available in left and right version with hoses length 15, 20 or 25 m; colours orange or blue
- double hose reels CORE™ available with hoses length 15, 20 or 25 m; colours orange (left side) and blue (right side)
- single hose reels dual version available in left and right version with hoses length 15, 20, 25 or 30 m; colours orange (left version) and green (right version)
- double hose reels dual version available with hoses length 15, 20, 25 or 30 m; colours orange/green or blue/red
- all motor pumps (DPU/MPU) in CORE™ version can be delivered with built-on hose reels with hoses length 15, 20 or 25 m; colours orange/blue
- all motor pumps (DPU) in dual hose version can be delivered with hoses length 15, 20, 25 or 30 m; colours orange/green
- max. hose length for Trio pumps (MPU) in dual hose version is 25 m; colours orange/green



SINGLE HOSES

- with quick couplers with lock-ring security and anti-kink springs on both ends

model	art.nr.	length m	weight kg	colour
B 1 SOU	150.570.063	1	1.0	orange
B 2 SOU	150.572.035	2	1.3	orange
B 3 SOU	150.572.033	3	1.6	green
B 3 SGU	150.572.034	3	1.6	green
B 5 SOU	150.572.058	5	2.3	orange
B 5 SGU	150.572.059	5	2.3	green



- electric rewind hose reel; various models available

DPU 61 PC 20

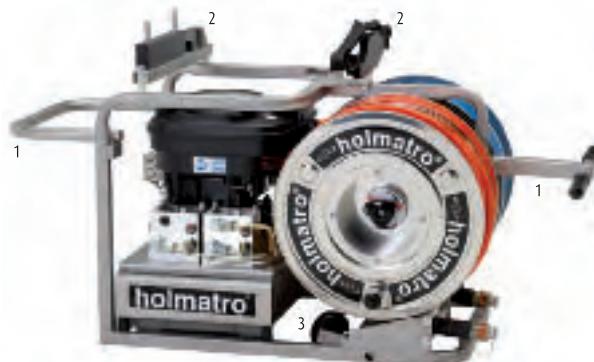


MOTOR PUMPS CRM - Compact Rescue Module

SPECIFICATIONS	DPU 60 PC CRM	DPU 60 DC CRM
article number	depends on version *	
operating pressure bar/Mpa	720 / 72	720 / 72
motor	petrol - 4-stroke 5.5 hp - 4.1 kW	electric - 230 VAC 1.5 kW - 50 Hz - 1 Ph
capacity fuel tank cc	1400	--
continuous operation hours	4	no limitation
effective capacity oil tank cc	4000	4000
output 1st stage 0-190 bar cc / min	2 x 2565	2 x 2290
output 2nd stage 190-720 bar cc / min	2 x 660	2 x 590
weight ready for use kg	depends on version *	
dimensions (LxWxH) mm	depends on version *	
EN 13204	MTO (Multiple Tool Operation)	

* ask your dealer for detailed information

ABOVE CRM PUMPS ARE ALSO AVAILABLE IN DUAL HOSE VERSION



DPU 60 PC CRM 20 CWT



DPU 60 DC CRM 20 CWT with tools

Build your own Compact Rescue Module:

- choose one of the above pumps
- choose the length of hoses for the hose reel - available are:
 - in CORE™ version 15 or 20 m, colours orange/blue
 - in dual hose version 15, 20 or 25 m, colours orange/green
- add following optional accessories (see picture):
 - 1 = carrying handle
 - 2 = tool support
 - 3 = folding wheel set

CRM pumps are delivered completely mounted with hoses and accessories

HAND / FOOT PUMPS	single hose	dual hose
SPECIFICATIONS	HTW 300 ABU	HTW 700 ABU
article number	150.449.001	150.442.013
operating pressure bar/Mpa	720 / 72	720 / 72
source of energy	hand	hand
effective capacity oil tank cc	300	710
output 1st stage cc	up to 30 bar 5 cc	up to 30 bar 11 cc
output 2nd stage cc	up to 720 bar 1 cc	up to 720 bar 2 cc
output 3rd stage cc	--	--
weight ready for use kg	3.8	6.9
dimensions (L x W x H) mm	500 x 90 x 115	740 x 200 x 162
EN 13204	STO (Single Tool Operation)	

CORE™		
HTW 1800 C	FTW 1800 C	HTT 1800 UC
150.142.021	150.142.022	150.142.018
720 / 72	720 / 72	720 / 72
hand	foot	hand
1800	1800	1800
up to 45 bar 28 cc	up to 45 bar 28 cc	up to 45 bar 28 cc
up to 720 bar 2.3 cc	up to 720 bar 2.3 cc	up to 260 bar 7.6 cc
--	--	up to 720 bar 3.1 cc
11.2	11.7	17.2
765 x 240 x 236	765 x 240 x 223	856 x 400 x 214
STO (Single Tool Operation)		

ALSO AVAILABLE IN DUAL HOSE VERSION:

art. nr.	model	weight kg	dimensions (LxWxH) mm
150.142.003	HTW 1800 BU	11.5	765 x 240 x 218
150.142.000	FTW 1800 BU	12.0	765 x 240 x 218
150.142.007	HTT 1800 U	17.2	855 X 400 X 205

AIR OPERATED PUMP	CORE™	dual hose
SPECIFICATIONS	AHS 1400 FDUC	AHS 1400 FDU
article number	150.152.584	150.602.001
operating pressure bar/Mpa	720 / 72	
max. air pressure bar		8
effective capacity oil tank cc	1400	
output unloaded cc / min	960	
output loaded cc / min	410	
air-consumption unloaded l / min	700	
air-consumption loaded l / min	580	
weight ready for use kg	6.9	6.5
dimensions (L x W x H) mm	317 x 125 x 200	321 x 125 x 200

EN 13204 : STO = Single Tool Operation



POWERSHORE™ - struts with hydraulic cylinder

model	art. nr.	locking system	retracted length mm	stroke mm	weight kg	working pressure bar / Mpa	force at working pressure kN / t	oil contents at max. stroke cc
HS 1 Q 5 FL	150.011.547	quick lock	632	252	10.3	720 / 72	99 / 10.1	346
HS 1 Q 10 FL	150.011.536	quick lock	1092	252	13	720 / 72	99 / 10.1	346
HS 1 L 5+	150.011.543	lock nut	575	252	9.2	720 / 72	99 / 10.1	346
HS 1 L 10+	150.011.537	lock nut	1035	252	11.9	720 / 72	99 / 10.1	346

POWERSHORE™ - struts with air cylinder

model	art. nr.	locking system	retracted length mm	stroke mm	weight kg	working pressure bar / Mpa	force at working pressure kN / t	max. air/water contents in litres
AS 3 Q 5 FL	150.011.546	quick lock	632	252	8.4	8	4 / 0.4	20.4 / 2.3
AS 3 Q 10 FL	150.011.545	quick lock	1092	252	11.2	8	4 / 0.4	20.4 / 2.3
AS 3 L 5+	150.011.532	lock nut	575	252	7.3	8	4 / 0.4	20.4 / 2.3
AS 3 L 10+	150.011.531	lock nut	1035	252	10.1	8	4 / 0.4	20.4 / 2.3

Quick lock with integrated spacer: plunger with automatic locking mechanism that locks in steps of 9 mm. Retracting the plunger is only possible after releasing the locking mechanism. The integrated spacer, a spring operated flex mechanism with 13 mm stroke, is used to overcome one 9 mm step of the quick lock system and creates a max. pretension in the strut of 4.0 kN.

Lock Nut: plunger with thread and lock nut. When the plunger is extended the lock nut can be secured. The pressure can then be released. Axial displacement per rotation is 16.5 mm.

All struts are equipped on both sides with a female snap-lock system. Cylinders are single acting with spring return.
All struts can be used with extension pipes and saddles.



HS 1 Q 5 FL



HS 1 L 5+



AS 3 Q 5 FL



AS 3 L 5+

ACCESSORIES - to be used in combination with struts with hydraulic cylinder

item	description	model	art. nr.
-	hand pump, oil contents 700 cc, weight ready for use 9.9 kg, pressure gauge 0-720 bar, rubber protection cover for pressure gauge, hose 3 metres with quick-coupler.	HTW 700 APS	150.012.504

HTW 700 APS



ACCESSORIES - to be used in combination with struts with air cylinder

item	description	model	art. nr.
1	single control unit with safety valve	SCV 10 U	350.582.042
2	double control unit with safety valves	DCV 10 U	350.582.034
3	pressure reducer with hose of 2 metres, suitable for both 200 and 300 bar	PRV 823 AU	350.182.002
4	air bottle 6 litres, 300 bar	--	350.581.096
5	air hose 5 metres, colour yellow	AH 5 YU	350.572.006
5	air hose 5 metres, colour blue	AH 5 BU	350.572.007
5	air hose 10 metres, colour yellow	AH 10 YU	350.572.009
5	air hose 10 metres, colour blue	AH 10 BU	350.572.011



POWERSHORE™ - mechanical struts

model	art. nr.	locking system	retracted length mm	stroke mm	weight kg
MS 2 L 2+	150.011.538	thread	250	120	3,5
MS 2 L 5+	150.011.533	lock nut	575	252	6,7



MS 2 L 2+



MS 2 L 5+



SX 1



SX 2



SX 5



FX 1



* depending on total length - see manual

Extension pipes with male snap-lock on one side and female snap-lock on the other side.

Connector FX 1 with female snap-lock on both sides. To connect the male end of an extension pipe with one of the saddles. In this way it is possible to make a fixed strut.

ACCESSORIES

All accessories to be used on struts and extension pipes are equipped with a male snap-lock system.

description	art. nr.		description	art. nr.	
Saddle - aluminium. For support against a flat surface; 0.3 kg, Ø 89 mm.	150.011.509		Cross head. For use on many kinds of surfaces; 1.1 kg.	150.011.523	
Saddle - aluminium. For support against a flat surface, with fixing holes; 0.8 kg, 150 x 150 mm.	150.011.541		Pointed head. For use in for example narrow gaps; 1.2 kg; Ø 89 mm.	150.011.524	
Tilting saddle - aluminium. For support on uneven or tilting surfaces. Max. angle 45° in all directions; 1.7 kg, 95 x 95 mm.	150.182.038		Support plate. Can support 3 swivel heads and up to 3 tensioning belts to create a stable triangle; 2.8 kg.	150.011.519	
Tilting saddle - aluminium. For support on uneven or tilting surfaces; with fixing holes. Max. angle 45° in all directions; 2.5 kg, 150 x 150 mm.	150.182.048		Support plate - zinc plated steel. Can be nailed to wooden plates to support 2 swivel heads in e.g. a trench; 0.9 kg; 280 x 110 x 75 mm.	150.011.549	
Beam support. For use with beams up to 150 mm; with fixing holes; 1.7 kg.	150.011.513		Tensioning belt. Length 4.0 m, width 35 mm, weight 1.4 kg, load 10 kN.	390.511.073	
Beam support. For use with beams up to 100 mm; with fixing holes; 1.2 kg.	150.011.514		Adjustable hook wrench. To create a pre-load with the MS 2 L 2+. Two pieces are advised.	150.581.689	
L-support. For use with very wide beams; with fixing holes; 1.0 kg.	150.011.520		Rope with carabine hook. To lower struts, e.g. into a trench.	150.011.548	
Swivel head - aluminium. Can be placed in almost any position and against each other for mutual support; 2.0 kg.	150.182.046		Rubber anti-roll block. Prevents struts and extension pipes rolling on uneven surfaces and protects against dirt and damage.	150.113.057	
V-block - aluminium. For support of or against tubes; 0.7 kg; Ø 89 mm.	150.011.516		Storage / carrying bag for accessories.	150.011.005	
V-block - aluminium. For support of or against tubes; 1.7 kg; opening x width 141 x 100 mm.	150.011.522		Storage / carrying bag for struts and extension pipes.	150.011.006	
Cone head. For support on concrete or steel surfaces; 0.5 kg; Ø 89 mm.	150.011.517				

Features / Benefits**Snap-lock system**

- all items can be connected within seconds

Reflective colour coding of extension pipes

- avoids miscommunication
- easy to spot, especially in the dark

10 tons hydraulic strut

- not only shoring but also lifting

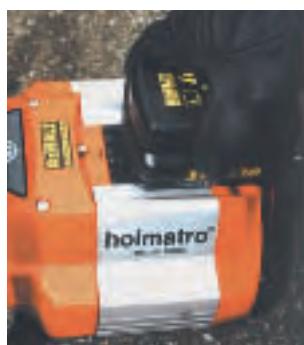
Numerous fields of application: - vehicle extrication - industrial accidents - Urban Search and Rescue - trench rescue - naval damage control**Standard sets:** ask your local dealer or check www.holmatro.com

SELF CONTAINED RESCUE TOOLS

 holmatro
rescue equipment

SELF CONTAINED RESCUE TOOLS	BATTERY TOOLS		HAND-OPERATED TOOLS	
	COMBI	CUTTER	COMBI	CUTTER
SPECIFICATIONS	BCT 4120	BCU 4010 GP	HCT 4120	HCU 4010 GP
article number	150.052.008	150.052.007	150.012.146	150.012.147
max. working pressure bar/Mpa	720 / 72	720 / 72	720 / 72	720 / 72
spreading mm	268	-	268	-
max. spreading force kN / t	200 / 20.4	-	200 / 20.4	-
min. spreading force kN / t	26 / 2.7	-	26 / 2.7	-
cutting force kN / t	247 / 25.2	254 / 25.9	247 / 25.2	254 / 25.9
round bar ø mm	24	24	24	24
squeezing force kN / t	46 / 4.7	-	46 / 4.7	-
pulling distance mm	181	-	181	-
pulling force kN / t	61 / 6.2	-	61 / 6.2	-
weight, ready for use kg	15.3	14.7	10.9	10.3
dimensions (L x W x H) mm	712 x 305 x 230	659 x 305 x 230	698 x 205 x 170	645 x 205 x 170
EN 13204	BK26.4/268-E-15.3	AC116-D-14.7	BK26.4/268-E-10.9	AC116-D-10.3

for pulling attachments and pulling chains of hand-operated combi HCT 4120 see accessories battery tools below



ACCESSORIES

description	art. nr.
battery 24-V, NiCd, 2.4 Ah battery.	150.553.014
battery 24-V, NiMH, 3.0 Ah battery for extended run time.	150.553.050
charger 110 - 120-V, suitable for charging both 2.4 Ah and 3.0 Ah batteries. Full recharge in one hour.	150.553.007
charger 220 - 230-V, suitable for charging both 2.4 Ah and 3.0 Ah batteries. Full recharge in one hour.	150.553.008
vehicle charger 12-V, suitable for charging both 2.4 Ah and 3.0 Ah batteries. To charge battery using a vehicle's 12-V power source.	150.553.006
power cable 12 to 24-V, length 5 m. Provides tool with unlimited run time using a vehicle's power source.	150.553.045
power cable 24-V, length 10 m. Provides tool with unlimited run time using a vehicle's power source.	150.553.052
carrying strap To carry the tool safely. Padded and provided with quick release clamps to attach when needed.	150.553.055
battery pouch Stores one battery. Equipped with carrying strap, can be attached to a belt.	150.553.113
carrying bag Holds tool, spare batteries and accessories. Made of wear-resistant non-absorbent nylon.	150.553.054
carrying frame Rugged carrying frame to hold a tool and 2 spare batteries. Weight excl. harness: 4.0 kg.	150.553.048
carrying harness For easy carrying of tool over long distances or to remote areas.	150.553.115
Pelican® box Extremely durable transporting and storage box. Waterproof, floats and keeps pressure inside box constant. Holds tool, 2 spare batteries, pulling chains and other accessories.	150.553.053
set pulling chains Consists of chains 1.5 and 3.0 m and 2 shortening hooks. For combi tool model BCT 4120 only, not for cutter model BCU 4010 GP.	150.582.152
set pulling adapters To fit over jaw tips, complete with hooks. For model BCT 4120 only, not for cutter model BCU 4010 GP.	150.582.551



Features / Benefits

- Cordless
- Compact
- Portability
- Light weight
- Well balanced



DOOR OPENERS

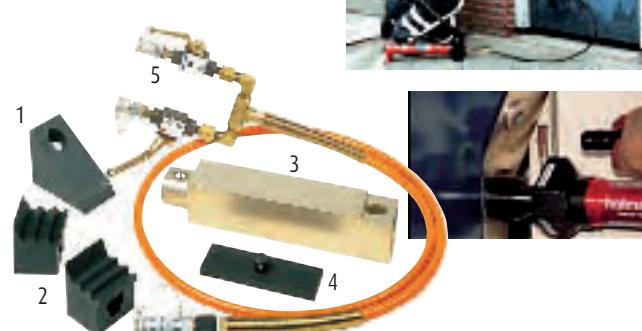
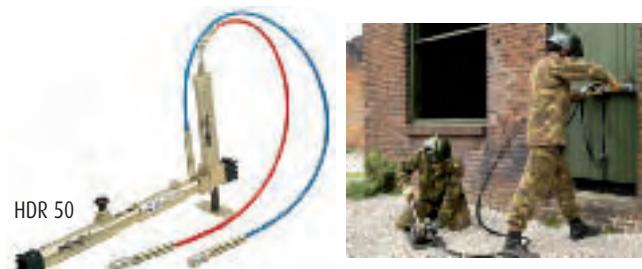
SPECIFICATIONS	HDR 50	HDO 100
article number	150.061.002	150.062.008 *
working pressure bar / Mpa	720 / 72	720 / 72
spreading force kN / t	47 / 4.8	98 / 10
pushing force kN / t	51 / 5.2	--
weight ready for use kg	11.0	6.6
PUMPS**	HTW 700 ADCV	HTW 300 ABU
article number	150.062.009	150.449.001
weight ready for use kg	8	3.8

* With fixed coupler. Also available with rotating hose connection and delivered in synthetic carrying/storage box. Art.nr. 150.062.007.

** see also page 13

ACCESSORIES

item	description	HDR 50
1	wedge head. To be used on narrow or slippery (steel) doorposts	150.063.010
2	grip head with extra long tooth (1 piece). Provides extra grip on narrow doorposts. The extra long tooth penetrates in the crack between the door and the doorpost.	150.063.011
3	extension piece. To be mounted on the end of the spreading jack to enlarge the maximum reach.	150.063.031
4	steel pushing plate. For weak, easily bending doors, open structure doors, gates, etc.	150.063.032
5	operating set DCV 720 U with hose 2 m. In case another single acting pump is used.	150.061.005

**MINICUTTER**

SPECIFICATIONS	HMC 8 U
operating pressure bar / Mpa	720 / 72
cutting force kN / t	79 / 8
round bar mm	15
depth / width of jaw mm	40 / 40
weight ready for use kg	3.1

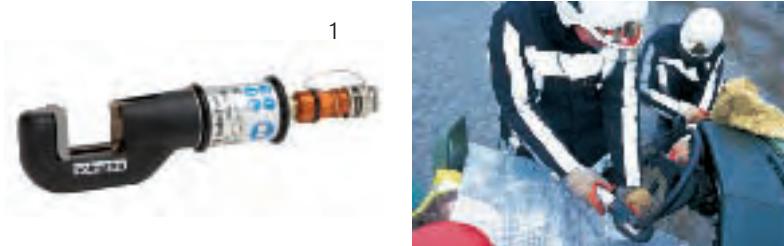
MINICUTTER in various versions

description	art. nr.
1 with coupler	150.012.025
2 with 30 cm pigtail hose. In synthetic case	150.012.026
3 with 360° rotation elbow and 30 cm pigtail hose. In synthetic case.	150.012.027
4 with 360° rotation elbow and handpump HTW 300 ABU mounted with 2 m hose. In synthetic case.	150.012.028

RE-BAR CUTTER

SPECIFICATIONS	CU 4006 C
article number	150.012.180
operating pressure bar / Mpa	720 / 72
cutting force kN / t	167 / 17
cutting capacity* mm	16
opening on tips mm	25
depth of blades mm	28
weight ready for use kg	7

* steel hardness 40 RC



VARIOUS RESCUE TOOLS

WEDGE JACK		PW 4624 C
art. nr.		150.062.046
operating pressure	bar / Mpa	720 / 72
min. insertion height	mm	6
max. lifting height	mm	50
spreading force	kN / t	235 / 24
weight ready for use	kg	8.2
dual hose version - PW 3624+ (150.012.078)		



TOE JACK		TJ 3610
art. nr.		150.012.049
operating pressure	bar / Mpa	720 / 72
max. capacity (on saddle)	kN / t	118 / 12
max. force (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



ALUMINIUM JACKS		HLJ 50 A 6	HLJ 50 A 10
art. nr.		150.112.060	150.112.059
operating pressure	bar / Mpa	720 / 72	720 / 72
lifting capacity	kN / t	510 / 52	510 / 52
closed height	mm	150	196
stroke	mm	61	104
weight ready for use	kg	7	8.7



PIPE SQUEEZER		HPS 60 AU
art. nr.		150.182.024
operating pressure	bar / Mpa	720 / 72
max. squeezing force	kN / t	147 / 15
max. Ø tube (outside)	mm	60
max. wall thickness tube	mm	4
dimensions (L x W x H)	mm	420 x 210 x 150
weight ready for use	kg	8.8



STEEL CABLE CUTTERS		HWC 16 U	HWC 20 U	HWC 32 U
SPECIFICATIONS				
article number		150.522.016	150.522.020	150.522.032
working pressure	bar/Mpa	720 / 72	720 / 72	720 / 72
capacity	kN / t	54 / 5.5	153 / 15.6	262 / 26.7
max. jaw opening	Ø / mm	20	50	32
capacity steel cable 6x19 Ø / mm	Ø / mm	16	20	32
capacity solid steel Ø / mm	Ø / mm	13	19	25
capacity ground cable Ø / mm	Ø / mm	20	50	32
weight ready for use	kg	2.2	9.0	9.8



ELECTRIC CABLE CUTTERS		HCC 85 U	HCC 100 U
SPECIFICATIONS			
article number		150.522.085	150.522.100
working pressure	bar / Mpa	720 / 72	720 / 72
capacity	kN / t	51 / 5.2	91 / 9.2
max. jaw opening	Ø / mm	85	100
capacity ground cable Ø / mm	Ø / mm	50	75
capacity telephone cable Ø / mm	Ø / mm	85	100
weight ready for use	kg	7.2	13.3

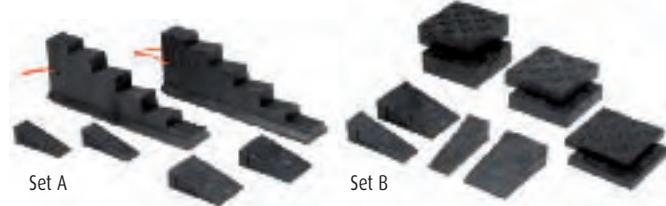


RESUCE TOOLS

RESUCE ASSIST TOOLS

CHOCKS & BLOCKS

Set A	150.562.010 consists of	Set B	150.562.004 consists of
	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

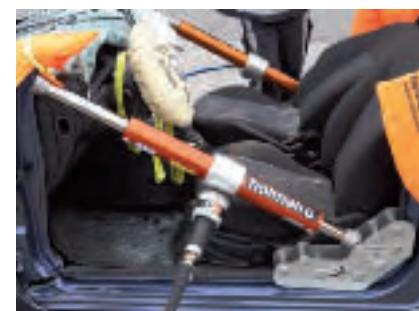


- ↳ made of recycled polyethylene
- ↳ water- and oil-resistant
- ↳ virtually indestructible
- ↳ higher allowable surface pressure than wood
- ↳ non-slip interlocking profile
- ↳ 20% higher friction coefficient than wood



RAM SUPPORT

model	HRS 22
article number	150.181.011
max. load	kN / t
dimensions (L x W x H)	mm
weight ready for use	kg



RIM ADAPTER

art. nr.	150.182.580
weight set, incl. case	kg
only with RA 4321-22 C / RA 4331-32 C	8.9

- ↳ lifts rear wheel in a safe way into its own suspension
- ↳ rescuer does not have to move under the vehicle
- ↳ can also be used to push away a steering column of a truck



PROTECTION COVERS

art. nr.	SEP 5	SEP 10
	150.581.676	150.581.677
	dimensions cm	weight gr
cover with Velcro	26 x 30	145
	60 x 60	465
blanket with magnets	150 x 60	1050
	contents	contents
	2 x	4 x
	2 x	4 x
	1 x	2 x



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



TOOL STATION

art. nr.	150.182.043	150.182.044
dimensions	cm	200 x 150
weight	kg	2.3

- ↳ durable, water-repellent PVC-coated polyester
- ↳ foldable so easy to carry and easy to store
- ↳ striking orange colour



RESCUE ASSIST TOOLS

GLAS-MASTER

art. nr.	150.182.060
weight ready for use	kg
dimensions (L x W x H)	mm
delivered inclusive a window punch and mounting clips	

FAST
EFFECTIVE

VERSATILE
SAFE



GLASS CUTTER

model	HGC 7
article number	150.012.410
weight ready for use	kg
delivered with window punch in synthetic carrying/storage box	

SAFE - catches a very big part of the glass fragments and dust
QUICK - cuts glued or laminated windshields in a very short time
SILENT - hand-operated ratchet mechanism



WINDOW PUNCH

art. nr.	980.005.045
weight ready for use	gr
material	anodized aluminium and heat-treated steel
attachment to clothing by means of clip	

FAST
EFFECTIVE
SAFE



SECUNET®

art. nr.	350.182.005
weight ready for use	gr

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



SEATBELT CUTTER

art. nr.	980.005.022
dimensions (L x W)	mm

safe, cutting blade fully covered
can be used on every seat belt
with Velcro for attachment at any spot



HOSE BINDER

number per set	art. nr.
5 pieces	150.182.039
20 pieces	150.182.040

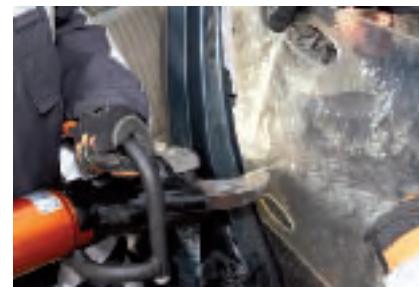
easy to store and to carry



PROTECTION SHIELD

art. nr.	150.182.045
dimensions (L x W)	mm
weight ready for use	kg

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



RESCUE TOOLS

LIFTING BAGS

LIFTING BAGS - max. working pressure 8 bar

model	art. nr.	max. effective lifting force kN/t	max. inflation height mm	dimensions (L x W) mm	weight kg
HLB 1	350.321.003	10 / 1	80	150 x 150	0.6
HLB 3	350.321.004	35 / 3.7	130	228 x 228	1.5
HLB 5	350.321.006	50 / 5.1	150	270 x 270	2
HLB 10	350.321.007	100 / 10.2	215	380 x 380	3.8
HLB 12	350.321.008	120 / 12.2	225	408 x 408	5
HLB 18	350.321.009	180 / 18.3	240	660 x 360	6.8
HLB 20	350.321.010	200 / 20.3	290	508 x 508	6.7
HLB 24	350.321.012	240 / 24.4	215	310 x 1000	9.5
HLB 29	350.321.017	300 / 30.6	348	611 x 611	9.8
HLB 32	350.321.013	320 / 32.6	380	658 x 658	13
HLB 40	350.321.014	400 / 40.7	405	714 x 714	15.1
HLB 67	350.321.015	670 / 68	520	908 x 908	23.5

- thickness incl. profile: HLB 1/3/5 is 22 mm; other models is 25 mm

- reflecting labels: HLB 1/3/5 on 1 corner; other models on 3 corners



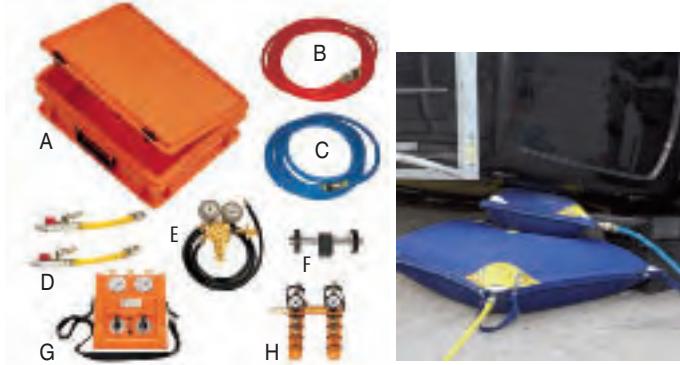
ACCESSORIES

item	model	description	art. nr.
1	AH 5 YU	air hose, 5 m, yellow	350.572.006
	AH 5 BU	air hose, 5 m, blue	350.572.007
	AH 5 RU	air hose, 5 m, red	350.572.008
	AH 10 YU	air hose, 10 m, yellow	350.572.009
	AH 10 BU	air hose, 10 m, blue	350.572.011
	AH 10 RU	air hose, 10 m, red	350.572.012
2		shut-off hose with safety	350.582.035
3	PRV 823 AU	pressure reducer for both 200 and 300 bar	350.182.002
4	DCV 10 U	double control unit, safety valves set at 8.5 bar	350.582.034
5	SCV 10 U	single control unit, safety valve set at 8.5 bar	350.582.042
6		connection piece for 2 air bottles 300 bar	350.582.430
		connection piece for 2 air bottles 200 bar	350.582.420
7	HDC 10 AU	synthetic control box, safety valves set at 8.5 bar	350.182.003
8		air cylinder 6 litre, 300 bar	350.581.096
		air cylinder 6 litre, 200 bar	350.581.086
9	UAS 10	adapter set for connection on various air sources; delivered in synthetic carrying/storage box	350.582.050



AIR CONTROL SETS

	300 BAR		200 BAR	
	HCS 10 U	DCS 10 U	HCS 10 U	DCS 10 U
	350.582.038	350.582.039	350.582.435	350.582.436
A	1 x	1 x	1 x	1 x
B	1 x (5 m)			
C	1 x (5 m)			
D	2 x	2 x	2 x	2 x
E	1 x	1 x	1 x	1 x
F	1 x	1 x	1 x	1 x
G	1 x	-	1 x	-
H	-	1 x	-	1 x



LIFTING BAGS - low pressure

model	art nr.	lifting capacity (a pair) kN/t	dimensions in storage bag (L x W) mm	weight (a pair) kg	height deflated mm	height inflated mm	max. working pressure bar	air contents (a pair) litre
LAB 4 UN	350.512.204	39 / 4	700 x 700	9	60	620	0.5	460
LAB 6 UN	350.512.206	59 / 6	850 x 850	19	60	620	0.5	716
LAB 9 UN	350.512.209	88 / 9	1050 x 1050	28	60	620	0.5	1028
LAB 16 UN	350.512.216	157 / 16	1320 x 1320	70	60	620	0.5	1846



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 / LEAK SEALING SYSTEMS

FLOW STOPPERS

SPECIFICATIONS	OLS 100/200	OLS 200/400	OLS 300/600	OLS 500/1000
article number	360.311.002	360.311.004	360.311.006	360.311.010
max. working pressure bar	3	3	3	3
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	4	9	20



FLOW STOPPERS - ACCESSORIES

description	model	art. nr.
single control unit	SCV 3 U	360.582.007
pressure reducer 200/300 bar	PRV 823 AU	350.182.002
green air hose with couplers 3 m	AH 3 MGU	360.582.004
green air hose with couplers 5 m	AH 5 MGU	360.582.002
green air hose with couplers 10 m	AH 10 MGU	360.582.003
green air hose with couplers 15 m	AH 15 MGU	360.582.005



LEAK SEALING SYSTEM

model	HVSP 250 U
article number	360.302.011
max. working pressure bar	8
dim. 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

vacuum leak sealing system consists of:
 - vacuum sealing plate
 - stainless steel pressure gauge with protection cap
 - vacuum pump with air hose, length 3 m
 - drain cock with drain hose, length 3 m
 - tube gel for optimal sealing (art. nr. 360.581.130)
 - steel carrying case (L x W x H) 620 x 430 x 200 mm
 delivered completely mounted and ready for use



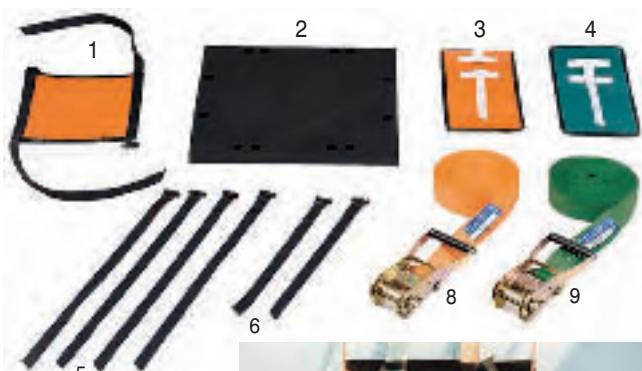
TANK SEALING SET

model	HLS 2
article number	350.582.020
working pressure bar	1.5
cap. lifting bag at 1.5 bar t	2

lifting bag HLB 10 to be ordered separately - see page 21

tank sealing set consists of:

- 1 1 x harness
- 2 1 x sealing plate (465 x 465 mm)
- 3 1 x protective cover orange (for item 8)
- 4 1 x protective cover green (for item 9)
- 5 4 x corner belt with buckle (length 635 mm)
- 6 2 x carrying belt with buckle (length 455 mm)
- 7 1 x shut-off hose, safety valve set at 1.5 bar
- 8 1 x stretch belt with ratchet, orange, length 10 m
- 9 1 x stretch belt with ratchet, green, length 10 m



Vehicle Extrication Techniques (VET)

Available in numerous languages

Holmatro's "Vehicle Extrication Techniques" is a compact yet comprehensive guide for rescuers about the use of rescue tools and the extrication of victims from vehicles after road traffic collisions. "Vehicle extrication techniques" deals extensively with the basic techniques of extrication rescue. All basic techniques are explained step by step with the help of photos, illustrations, animations (CD) and videos (CD). In addition related subjects are discussed such as safety, vehicle design and construction, rescue tools and the approach to the rescue scene. Based on the latest developments in vehicle technology "Vehicle Extrication Techniques" is very suitable for training purposes or for use as a reference book. "Vehicle Extrication Techniques" is available in numerous languages as a book, a series of posters and as an interactive CD-ROM.

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- ◀ **Poster**- 100 x 70 cm, full colour, set of 8 different posters, describing:
 - stabilization techniques
 - dashboard lift / roll
 - door removal
 - inverted roof flap
 - side removal
 - heavy goods vehicles / third door conversion
 - roof removal
 - extrication approach and equipment
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