

Quick Reference Guide Utilux Hydraulic Tooling



QUALITY, RELIABILITY & INNOVATION

Utilux has built an enviable reputation for high quality and reliable electrical terminals, connectors and tools and accessories.



For over 100 years, this dynamic Australian brand has been a leader in the field of interconnection systems. Utilux has now joined the truly innovative, international market leader, TE Connectivity.

Our aim is to provide the best possible products and services to keep our customers at the cutting edge of industry standards - internationally.



It's quality you can rely on.



Contents

Battery Powered Crimper	4
Hand Hydraulic Crimper	5
12 Tonne Crimp Dies	6
Remote Hydraulic Crimp Heads	7
Hydraulic Pumps and Hoses	8
Battery Powered Cutters	9
Hand Hydraulic Cutters	10
Heavy Duty Hydraulic Crimping Heads	11
Remote Hydraulic Cutting Heads	12

Battery Powered 12T Hydraulic Crimper

#38BH-L

The Utilux #38BH-L is a high quality, light weight, battery powered 12 tonne capacity hydraulic crimper. Featuring a two stage action, enabling fast advance speed, LED display indicating battery condition, with a sturdy, durable casing resulting in a robust, portable crimper capable of handling the most challenging of situations.

Powered by the latest technology battery, Lithium Ion.

- 2 stage action
- Large crimp range 6 - 300 mm²
- Li-Ion Bosch battery powered
- Non slip handle design
- 32mm throat size

Technical

Dimensions: 390mm(L) x 328mm(H) x 89mm(W)

Weight: 8.0kg (with battery)

Crimping force: 125 kN (12.7 tons)

Jaw opening: 32mm

14.4V Li-Ion battery

20 minutes battery recharge time

Configurations available

Catalogue Reference	Descriptions
#38BH-L	Tool only
#38BH-L+C+2B	Tool + charger + 2 batteries
#38BH-L+KIT	Tool + charger + 2 batteries + 16-300mm ² copper crimp dies in metal carry case

All above come in robust plastic carry case containing shoulder strap and operation manual

Accessories

#38BAT-Li: 14.4V Li-Ion battery

#38CHGR-Li: 230V charger for Li-Ion battery



Heavy Duty Hand Operated Hydraulic Crimper

#38C

Robust and built to last, the #38C sets the standard for other 12t hydraulic tools.

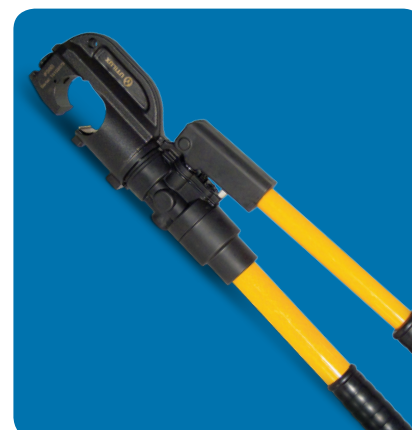
Precision engineering hydraulic components for maximum reliability, maintenance and ease of use. Accepts all Utilux #38 Series crimp dies for full hexagonal or indent crimping of copper or aluminium connectors/terminations.

Benefits:

- 2 stage action
- Large crimp range 6 - 300 mm²
- 32mm throat size
- 180° head rotation
- Reinforced glass fibre handles

Technical

Output: 11.6 tonnes
 Ram Stroke: 32mm
 Die set: '38' type dies
 Length: 640mm
 Weight: 6.5kg
 Range: Up to 300mm²



Configurations available

Catalogue Reference	Descriptions
#38C	12 tonne hex crimp
#38CKIT	12 tonne hex crimp + 16-300mm ² CU crimp die set

All above come in robust plastic carry case with die compartments and operation manual

Short HD Hand Operated Hydraulic Crimper

#38CS

Robust and built to last, the new #38CS is the tool for use in confined spaces, being 25% shorter overall than most 12 tonne 'C' head hand hydraulic crimpers.

Precision engineered hydraulic components for maximum reliability, maintenance and ease of use. Accepts all Utilux 38 series crimp dies for full hexagonal or indent crimping of copper or aluminium connectors and terminations.

Benefits:

- Reduced overall length
- 2 stage action
- 26mm throat size
- Able to crimp from 6 - 300 mm²
- 180° head rotation
- Reinforced glass fibre handles
- Space for 16 sets of crimp dies with carry case

Technical

Output: 12.7 tonnes
 Ram Stroke / Jaw Opening: 26mm
 Die set: Utilux (or equivalent) 38 series hexagonal or indent crimp dies
 Length: 490mm
 Weight: 6.7kg
 Range: Up to 300mm² copper or aluminium connectors/terminals



Configurations available

Catalogue Reference	Descriptions
#38CS	12 ton crimp tool - short
#38CSKIT	12 ton crimp tool - short with 11 sets copper crimp dies (16 - 300 mm ²)

Both configuration come in robust plastic carry case which also includes operation / maintenance manual

12 Tonne Crimp Dies

38

Utilux crimping dies for aluminium and copper connectors are precision engineered from EN26 high tensile steel and oil hardened, ensuring long life and minimal die wear. Each hexagon die set is engraved with "Utilux" on one of the die faces, and the die part number on the other, leaving an indent on the crimp for easy inspection and verification.

The range of dies includes:

- Hexagonal die sets for precision crimping of copper and aluminium connectors
- Nest and indent die sets for special aluminium applications
- Special 'steel' dies for crimping steel sleeves

The selection of the die type required depends on the connector to be crimped, and the tool to be used. Special size are dies made to order.

'38' Series Die Sets

Suitable for all '12 tonne' hydraulic crimp tools in the Utilux range.

Conductor Size mm ²	Hydraulic Tools - Hexagonal Dies			
	Copper Conductors		Aluminium Conductors	
	A/F mm	Catalogue Reference	A/F mm	Catalogue Reference
6	4.4	38-44CU	9.0	38-90AL
10	5.7	38-57CU	9.0	
16	6.3	38-63CU	9.0	
25	7.7	38-77CU	9.0	
35	9.2	38-92CU	9.0	
50	10.4	38-104CU	13.2	38-132AL
70	11.5	38-115CU	13.2	
95	14.2	38-142CU	17.3	38-173AL
120	16.5	38-165CU	17.3	
150	18.3	38-183CU	22.0	38-220AL
185	20	38-200CU	22.0	
240	23.1	38-231CU	28.4	38-284AL
300	26	38-260CU	28.4	



Copper Crimp Die Kit #38KIT16-300

- 11 sets of standard copper crimp dies
- 16 mm² to 300 mm² die sets
- Steel carry case
- Space for 5 more die sets



Indent Crimp Dies - Sector Aluminium

Aluminium Conductor Size	3 Core		4 Core	
	Nest Die	Indentor	Nest Die	Indentor
70	#12NEST	#141NDENT	#14NEST	#14INDENT
95	#12NEST	#151NDENT	#14NEST	#151NDENT
120	#12NEST	#161NDENT	#14NEST	#161NDENT
150	#12NEST	#171NDENT	#15NEST	#171NDENT
185	#12NEST	#181 NDENT	#15NEST	#181NDENT
240	#12NEST	#191NDENT	#15NEST	#191NDENT
300	#12NEST	#201 NDENT	#15NEST	#201NDENT

Hexagonal Crimp Dies - Half Hex (for flexible cables)

Multi Stranded Cable	Die Set	Hex Die	Flat Die
16	38-98HHEX17	38-98CU	38-FLAT17
25	38-122HHEX17	38-122CU	38-FLAT17
35	38-130HHEX17	38-130CU	38-FLAT17
50	38-153HHEX17	38-153CU	38-FLAT17
70	38-183HHEX14	38-183CU	38-FLAT14
95	38-220HHEX14	38-220CU	38-FLAT14
120	38-245HHEX14	38-245CU	38-FLAT14

Hexagonal Crimp Dies - Steel cores of ACSR Conductor

Die Set	Cable Range	Die Set	Cable Range
	mm ²		mm ²
38-74ST13	7.4	38-95ST	9.5
38-76ST	7.6	38-95ST13	9.5
38-80ST	8.0	38-130ST7	13.0

Note: Flat dies are available individually

Crimp Dies - Overhead

Conductor	Fitting	Die Set
7/2.50	FT36	38-140AL
7/3.00	FT44	38-180AL
7/3.75	FT44	38-180AL
7/4.50	FT58	38-190AL
19/3.75	FT80	38-262AL
37/3.00	FT94	38-284AL
19.4.75	FT94	38-303AL

Overhead - ABC

ABC Conductor	Die Set	Die A/F
mm ²		
25	38-140AL9	14.0
35 - 95	38-173AL9	17.3
150	38-215AL9	21.5

Crimp Dies - 40

Cable Range	Die Set	Die A/F	Conductor
70	40-130CU	13	Copper
95	40-142CU	14.2	
120	40-165CU	16.5	
150	40-185CU	18.5	
185	40-200CU	20	
240	40-231CU	23.1	
300	40-260CU	26	
400	40-281CU	28.1	
500	40-310CU	31	
630	40-370CU	37	
800	40-432CU	43.2	Aluminium
1000	40-480CU	48	
95, 120	40-172AL	17.2	
150, 185	40-220AL	22	
240, 300	40-283AL	28.3	
400, 500	40-390AL	39	
630	40-432AL	43.2	

Crimp Dies - C Connectors

Cable Range	Die Set	Cable Range	Die Set
		mm ²	
14 - 20	38-T020	99 - 122	38-T122
21 - 26	38-T026	123 - 154	38-T154
27 - 44	38-T044	155 - 190	38-T190
45 - 60	38-T060	191 - 240	38-T240
61 - 76	38-T076	241 - 288	38-T288
77 - 98	38-T098	289 - 365	38-T365

Crimp Dies - 50

Cable Range	Die Set	Die A/F	Conductor
400	50A-281CU	28.1	Copper
500	50A-310CU	31	
630	50A-370CU	37	
400	50A-390AL	39	Aluminium
500			



Cat Ref Description

#41AH	'C' frame general purpose compression head. Includes coupling.
	FEATURES Robust construction, Spring assisted ram retraction
	RANGE Up to 300mm ²
	INPUT REQUIRED 700 bar 10,000 psi, single acting pump
	OIL VOL. REQ'D 53cc
	OUTPUT 11.3 tonnes
	RAM STROKE 32mm
	DIE SET '38' type dies
	LENGTH 276mm
	WEIGHT 4.9kg (tool only with die set loaded)
PACKAGING Plastic carry case, with die compartment	
#41A	#41AH crimp head, #P80 pump and HYH2M hose



Cat Ref Description

#50AH	'U' frame increased capacity compression head for up to 630mm ² connectors. Includes coupling.
	FEATURES Robust construction, Spring assisted ram retraction, Removable top die for easy application to cable, Light weight, Can use '38' type dies with #50ADH adaptor
	RANGE Up to 630mm ²
	INPUT REQUIRED 700 bar 10,000psi, single acting pump
	OUTPUT 18 tonnes
	DIE SET '50A' type dies, #50ADH '38' die adaptor
	DIES AL: 400 / 500mm ² CU: 400, 500, 630mm ²
	LENGTH 285mm
	WEIGHT 3.6kg (tool only with die set loaded)
	PACKAGING Metal carry case, with die compartment



Cat Ref Description

#40BH	'U' frame high capacity compression head. Includes coupling and alloy stand.
	FEATURES Robust construction, Spring assisted ram retraction, Carry handle, Removable die cap
	RANGE Up to 1000mm ²
	INPUT REQUIRED 700 bar 10,000psi, single acting pump
	OIL VOL. REQ'D 308cc
	OUTPUT 55 tonnes
	RAM STROKE 39.2mm
	DIE SET '40' type dies, '38' type dies using #40DH die holder
	DIES AL: 95 to 630mm ² CU: 70 to 1000mm ²
	SIZE 146mm(dia) x 446mm(H), in stand
WEIGHT 22kg (tool only with die set loaded)	
PACKAGING Metal carry case	
#40B	#40BH crimp head, #P80 pump and HYH2M hose



Cat Ref	Description
#P80	Hand operated single acting hydraulic pump. Suitable for use with #50AH, 41AH Press Head, #CCS24 and #CCS55 cutters.
	FEATURES 2 speed mechanism for faster pumping, Built in oil pressure relief valve, Large oil capacity, Operating pressure 700 bar (10,000psi)
	OIL CAPACITY 2491cc
	OIL PORT 3/8" NPTF
	OUTPUT 700 bar (10,000psi)
	HANDLE EFFORT 47kg (max)
	SIZE 578mm(L) x 95.3mm(W) x 175mm(H)
	WEIGHT 10.9kg



Cat Ref	Description
#PUJ1200E	Mains (240V) powered portable single acting hydraulic pump. Suitable for use with a wide range of crimping heads and cylinders requiring 10,000psi supply and large oil volumes.
	FEATURES Robust construction, 2 stage pump 3m remote hand operated pendant controller
	OIL CAPACITY 1900cc
	OIL PORT 3/8" NPTF
	MOTOR 0.37kW
	OUTPUT 700 bar (10,000psi)
	SIZE 240mm(L) x 240mm(W) x 360mm(H)
WEIGHT 10kg	



Cat Ref	Description
#HYH2M	Standard Style: Utilux hydraulic hoses are manufactured from 2 brades of high tensile steel reinforced rubber. The rubber is oil and weather resistant.
	All hoses are fitted with a male quick coupler at one end for connection to the the crimp head, and a 3/8" male NPTF fitting on the other for connection to the pump.
	DIAMETER 9.5 (nom) inside
	OPERATING PRESSURE 700 bar (10,000psi)
	BURST PRESSURE 1400 bar (20,000psi)
	LENGTH 2m

Battery Powered Cable Cutter

The #50BC is a portable gear driven cable cutter ideal for many applications. Specifically designed to cut the toughest copper and aluminium cables in a limited amount of space. Cuts up to 50mm OD non-ferrous cables. Minimal cable distortion with clean cuts from the toughened blade. Reversing switch to enable multiple cuts with minimal blade movement. Circuit breaker for overload protection.

Features:

- Eliminates possible RSI
- Rocker switch control (forward and reverse)
- Cuts clean with minimal distortion
- Built in overload protection
- Up to 100 cuts from single battery charge

Specification

Dimensions: 105mm(L) x 375mm(H) x 115mm(W)
 Input Voltage: 220V Single Phase AC
 Drive Unit: 12V DC Motor
 Weight: 2.5kg
 Range: Up to 50mm OD non-ferrous cables

All above come in robust plastic carry case containing shoulder strap and operation manual, battery charger and NiCad battery



#CC24L and #CC55L Features:

These cutters are designed to cut ACSR as well as copper and aluminium cables. They utilise the latest battery technology, Lithium Ion (LiION), which has no memory effect and slow loss of charge whilst stored (5 to 10% per month vs 30% for NiMH). The rotating head allows ease of use in confined spaces and the locking style head swings back out of the way for easy placement of the tool onto the cable. Supplied in a sturdy plastic case with Bosch charger and two Bosch batteries.

Specifications:

Drive unit: 14.4V DC Motor
 Charger (GS/CE):

- Input voltage : 230V Single Phase AC
- Input frequency : 50-60 Hz
- Input current : 21.75 VA

Reservoir capacity : 120 cc
 Length: 328 mm
 Weight: 6 kgs (battery included)

Cutting Capacity:

Max. Pressure: 700 bar
 Oil Required: 55 cc
 Crimping force : 8 tons / 78.4 KN

Wire rope 6x7	18 mm
Wire rope 6x12	24 mm
Wire rope 6x19	24 mm
Soft steel bar	20 mm
Reinforcing rod	16 mm
Cu Strands	24 mm
Al Strands	24 mm
ACSR	24 mm
Guy wire 1x7	20 mm
Guy wire 1x19	20 mm
CCP cable	N/A

Cutting of piano wire is prohibited.



Specifications:

Drive unit: 14.4V DC Motor
 Charger (GS/CE):

- Input voltage : 230V Single Phase AC
- Input frequency : 50-60 Hz
- Input current : 21.75 VA

Reservoir capacity : 120 cc
 Length: 479 mm
 Weight: 9.2 kgs (battery included)

Cutting Capacity:

Max. Pressure: 700 bar
 Oil Required: 88.6 cc
 Crimping force : 12.7 tons / 124.46 KN

Wire rope 6x7	25 mm
Wire rope 6x12	30 mm
Wire rope 6x19	30 mm
Soft steel bar	22 mm
Reinforcing rod	19 mm
Cu Strands	55 mm
Al Strands	55 mm
ACSR	55 mm
Guy wire 1x7	15 mm
Guy wire 1x19	20 mm
CCP cable	N/A

Cutting of piano wire is prohibited.



Hydraulic Cable Cutter

Features:

- 180° rotating heads for convenient operation
- Guillotine type cutting for less jamming than shear type cutters
- All blades are easily replaceable
- Flip-top latch for easy insertion of cutting material
- Single stage pump action with spring return
- No set-up time required
- Lightweight, self-contained tool, can be used anywhere

Remote Hydraulic Cutter Heads



Capacity:

Max. Cutting Capacity:

Wire rope	6x7 24 mm
Wire rope	6x12 24 mm
Wire rope	6x19 24 mm
Soft steel bar	16 mm
Soft Aluminium bar	24 mm
Soft Copper bar	23 mm
Cu Strands	24 mm
Al Strands	24 mm
ACSR	24 mm

Specifications:

Length: 240 mm
 Weight: 2.1 kgs
 Max. Pressure: 700 bar
 Oil Required: 31 cc
 Max Output: 6.7 ton/66 kN

Hand Operated Cutter Heads



Specifications:

Length: 360 mm
 Weight: 2.7 kgs
 Max. Pressure: 700 bar
 Oil Required: 56 cc
 Max Output: 6.7 ton/66 kN

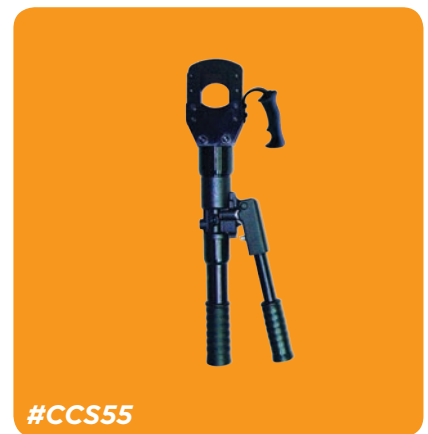


Cutting Capacity

Wire rope	6x7:25 mm
Wire rope	6x12:30 mm
Wire rope	6x19:30 mm
Soft Copper bar	35 mm
Soft Aluminium bar	28 mm
Soft steel bar	22 mm
Reinforcing rod	19 mm
Cu strands	54 mm
Al strands	54 mm
ACSR	54 mm
Guy wire 1x7	15 mm
Guy wire 1x19	20 mm

Specifications

Length: 365 mm
 Weight: 7.2 kgs
 Max. Pressure: 700 bar
 Oil Required: 106 cc
 Max Output: 14.9 tons / 146 KN



Specifications:

Length: 631 mm
 Weight: 10.3 kgs
 Max. Pressure: 700 bar
 Oil Required: 89 cc
 Max Output: 12.7 tons / 124.46 KN

About TE Connectivity

TE Connectivity is a global, \$12.1 billion company that designs and manufactures over 500,000 products that connect and protect the flow of power and data inside the products that touch every aspect of our lives. Our nearly 100,000 employees partner with customers in virtually every industry – from consumer electronics, energy and healthcare, to automotive, aerospace and communication networks – enabling smarter, faster, better technologies to connect products to possibilities.

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