

ALFAGOMMA[®]

FEATURING

CONQUEROR[™]

Concrete Hose System



KURIYAMA
OF AMERICA, INC.

EDITION 0722

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Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

The Conqueror™ Concrete Hose System includes a complete line of hose, fittings and clamps; all designed to work together seamlessly to ensure complete product compatibility and safety.

The line features our popular T740AA Series Steel Reinforced Concrete Hose, popular in boom concrete pump applications such as bridges, dams, commercial buildings and other projects where a larger hose is preferred in order to pump at higher volumes. In addition, the new, T74SAA Series Textile Fabric Reinforced Concrete Hose, provides a lighter weight option for use on trailer mounted line pumps; popular in smaller, residential applications, where a lighter weight hose is preferred in order to be carried by hand over longer distances.

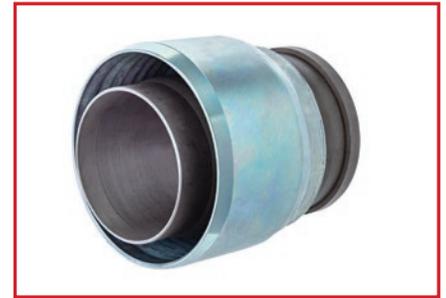
Both hoses have abrasion resistant natural rubber (NR) tubes to handle the abrasive sand and gravel contained in cement mixtures. As a result, the T74SAA can also be successfully used in boom concrete pump applications where a lighter weight hose is preferred.



T740AA
Wire Reinforced Concrete Hose



T74SAA
Textile Reinforced Concrete Hose



CHC-CA
Concrete Hose Coupling

The line also includes a complete assembly system, brought to you by our line of KuriCrimp™ Crimpers and Hose Processing Equipment. The heavy duty nature of concrete hose provides additional challenges in the hose assembly process. In particular, concrete hose provides additional challenges with fitting insertion due to the interference fit between the hose and fitting shank. The KuriCrimp system includes our KPUSH22-CON 22,000 lb. Heavy Duty Hose Pusher, custom modified with fitting insertion mandrels and hose clamp attachments, specifically designed for Conqueror Concrete Hose and Couplings.



KCS-TF5-230/3
Hose Cutter



KPUSH22-CON
Hose Pusher

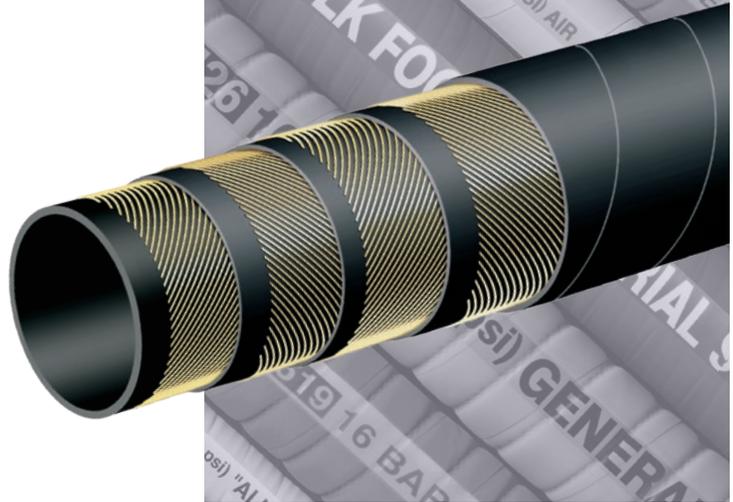


KC4-V160-230/3
High Volume Crimper

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CONQUEROR™

T740AA Series 1275 PSI Construction Duty Steel Reinforced Concrete Pumping Hose



General Applications:

Heavy-duty, steel-reinforced construction for use on concrete boom pumps and other demanding applications.

Construction:

Tube: Black conductive NR – abrasion resistant.
Reinforcement: High tensile steel cords.
Cover: Black conductive SBR/NR blend – abrasion and ozone resistant.

Working Pressure: 1275 PSI

Service Temperature Range:
 -22°F (-30°C) to +176°F (+80°C)

Branding:

ALFAGOMMA – ITALY T740 85 BAR (1275 PSI)
 W. P. HEAVY DUTY CONCRETE PUMPING (in yellow letters)

Features and Advantages:

Heavy Duty Construction – Durable, thick walled construction, resists kinking, elongation and vibration during operation. All sizes rated to working pressure of 1275 PSI with 2:1 safety factor.

Steel Cord Reinforcement – Provides extended service life in heavy duty applications such as concrete placement, tunneling and piling rigs.

Abrasion Resistant Tube and Cover – The NR (natural rubber) tube resists the wear caused by the flow of abrasive concrete. The SBR/NR blend cover resists the wear caused by dragging over rough surfaces, as well as environmental (UV/ozone) damage.

Cold Flex Materials – Hose remains flexible in sub-zero temperatures.

Nominal Specifications

Series Number	ID		OD		Wall Thickness (mm)	Max Rec. WP (psi)	Min. Bending Radius (in)	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)					
T740AA200	2	51	2.72	69	9	1275	10	50/100	1.44
T740AA250	2 1/2	63	3.35	85	11	1275	10 1/2	50/100	2.25
T740AA300	3	76	3.94	100	12	1275	15	50/100	3.06
T740AA400	4	102	5.04	128	13	1275	20	50/100	4.72
T740AA500	5	127	6.10	155	14	1275	25	50	6.95

COUPLING SUGGESTIONS: CHC-CA Series “California Style” couplings (see pg. 6)

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NEW

CONQUEROR™

T74SAA Series 1275 PSI Construction Duty Textile Reinforced Concrete Pumping Hose

General Applications:

Easy-handling, textile-reinforced construction for use on trailer mounted line pumps where longer hose lengths are required.

Construction:

Tube: Black conductive NR – abrasion resistant.

Reinforcement: High tensile textile cords.

Cover: Black conductive SBR/NR blend – abrasion and ozone resistant.

Features and Advantages:

Heavy Duty Construction – Durable, thick walled construction, resists kinking, elongation and vibration during operation. All sizes rated to working pressure of 1275 PSI with 2:1 safety factor.

Textile Yarn Reinforcement – Operator friendly, lighter weight versus wire reinforced hoses for easier handling while still providing extended service life in heavy-duty applications.

Working Pressure: 1275 PSI

Service Temperature Range:

-22°F (-30°C) to +176°F (+80°C)

Branding:

ALFAGOMMA – ITALY T74S 85 BAR (1275 PSI)
W. P. HEAVY DUTY CONCRETE PUMPING (in yellow letters)

Abrasion Resistant Tube and Cover – The NR (natural rubber) tube resists the wear caused by the flow of abrasive concrete. The SBR/NR blend cover resists the wear caused by dragging over rough surfaces, as well as environmental (UV/ozone) damage.

Cold Flex Materials – Hose remains flexible in sub-zero temperatures.

Nominal Specifications

Series Number	ID		OD		Wall Thickness (mm)	Max Rec. WP (psi)	Min. Bending Radius (in)	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)					
T74SAA200	2	51	2.80	71	10	1275	10	100	1.45
T74SAA250	2 1/2	63	3.27	83	10	1275	10 1/2	100	1.78
T74SAA300	3	76	3.97	101	12	1275	15	100	2.46
T74SAA350	3 1/2	90	4.57	116	13	1275	17 1/2	100	2.87
T74SAA400	4	102	5.04	128	13	1275	20	100	3.34

COUPLING SUGGESTIONS: CHC-CA Series “California Style” couplings (see pg. 6)

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CONQUEROR™

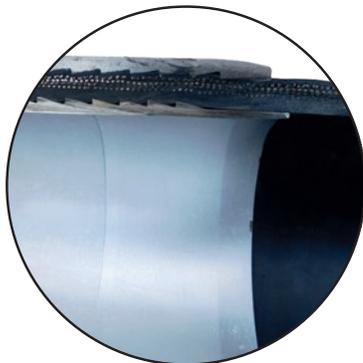
CHC-CA Series Conqueror™, One-Piece Concrete Hose Couplings

NEW

- One-piece design, no ferrule required.
- Beveled interior shank for full flow, helps eliminate material build up.
- Hardened steel for high abrasion resistance.
- 1450 PSI working pressure.



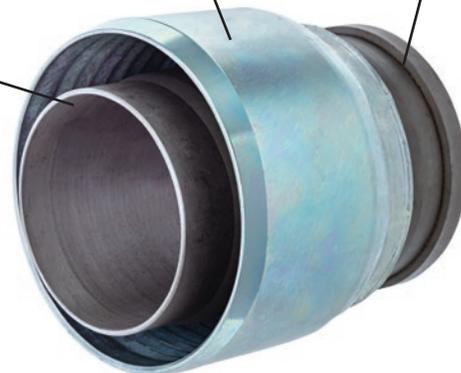
Nominal Specifications				
Part Number	Size (in)	Working Pressure (psi)	Weight Each (lbs)	Standard Carton
CHC-CA200	2	1450	4.80	1
CHC-CA250	2 1/2	1450	4.65	1
CHC-CA300	3	1450	8.02	1
CHC-CA400	4	1450	12.81	1
CHC-CA500	5	1450	19.00	1



Beveled interior edge for enhanced product flow and to help eliminate instances of material build up.

Pre-attached ferrule for secure connection.

Hardened steel for high durability and impact resistance.



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NEW

CONQUEROR™ Fixed Tension Concrete Hose Clamp

- For use with CHC-CA series couplings.
- Durable steel construction.
- User-friendly ergonomic handles.
- Safety pin prevents accidental opening.
- Gasket included.

Nominal Specifications			
Part Number	Size (in)	Working Pressure (psi)	Weight Each (lbs)
CCFL200HD	2	1233	4.85
CCFL250HD	2 1/2	1233	5.51
CCFL300HD	3	1233	6.17
CCFL400HD	4	1233	10.58
CCFL500HD	5	1233	12.35



NEW

CONQUEROR™ Adjustable Tension Concrete Hose Clamp

- For use with CHC-CA series couplings.
- Adjustable depth mechanism allows for customization of locking strength.
- Durable steel construction.
- User-friendly ergonomic handles.
- Safety pin prevents accidental opening.
- Gasket included.

Nominal Specifications			
Part Number	Size (in)	Working Pressure (psi)	Weight Each (lbs)
CCAL200HD	2	1233	4.85
CCAL250HD	2 1/2	1233	5.51
CCAL300HD	3	1233	5.95
CCAL400HD	4	1233	10.36
CCAL500HD	5	1233	12.13

CONQUEROR™ Concrete Hose Clamp Replacement Gaskets

NEW

- For use with CCFL and CCAL Series clamps.
- SBR Rubber compound provides abrasion and ozone resistance.

Nominal Specifications		
Part Number	Size (in)	Weight Each (lbs)
CCG200	2	0.09
CCG250	2 1/2	0.11
CCG300	3	0.13
CCG400	4	0.26
CCG500	5	0.31



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T757AA Series / T737AA Series 600 PSI Plaster & Concrete Hose (T737AA Series for 3" ID)



General Applications:

Designed for pumping plaster, grout and wet cement to placement sites.

Construction:

Tube: Black conductive NR – abrasion resistant.

Reinforcement: High tensile textile cords.

Cover: Black conductive SBR/NR – abrasion and ozone resistant.

Working Pressure:

Constant Pressure – 600 PSI

Service Temperature Range:

-22°F (-30°C) to +176°F (+80°C)

Branding:

ALFAGOMMA – ITALY T757 – 40 BAR (600 PSI) PLASTER & CONCRETE (in white letters) and ALFAGOMMA – ITALY T737 – 40 BAR (600 PSI) PLASTER & CONCRETE (in white letters)

Features and Advantages:

High Tensile Textile Reinforcement – Provides extended service life in heavy duty applications such as concrete placement, tunneling and piling rigs.

Cold Flex Materials – Hose remains flexible in sub-zero temperatures.

Abrasion Resistant Tube and Cover – Specially formulated SBR/NR blend resists wear caused by transfer of concrete as well as from being dragged on rough surfaces.

Nominal Specifications

Series Number	ID		OD		Max Rec. WP (psi)	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)			
T757AA150	1 1/2	38	2.13	54	600	100	0.82
T757AA200	2	51	2.64	67	600	100	1.09
T737AA300	3	76	4.09	104	600	100	2.96

COUPLING SUGGESTIONS

Tubular steel full flow male permanently swaged or internally expanded with ferrule to provide maximum hose coupling compatibility.

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T758AA Series / T758AE Series 800 PSI Plaster, Grout & Concrete Hose

T758AA
Black Cover

T758AE
Blue Cover

General Applications:

Designed for pumping plaster, grout and wet cement to construction placement sites at rated pressures.

Construction:

Tube: Black conductive NR – abrasion resistant.
Reinforcement: Spiraled high tensile textile cords.
Cover: Black SBR/NR – T758AA
Blue SBR/EPDM – T758AE

Features and Advantages:

Textile Yarn Reinforcement – Operator friendly, lighter weight versus wire reinforced hoses for easier handling while still providing extended service life in heavy-duty applications.

Cold Flex Materials – Hose remains flexible in sub-zero temperatures.

Working Pressure:

Constant Pressure – 800 PSI

Service Temperature Range:

-22°F (-30°C) to +176°F (+80°C)

Branding:

ALFAGOMMA – ITALY T758 – 55 BAR (800 PSI)
PLASTER & CONCRETE (in white letters)

Abrasion Resistant Tube and Cover – Specially formulated SBR/NR blend resists wear caused by transfer of concrete as well as from being dragged on rough surfaces.

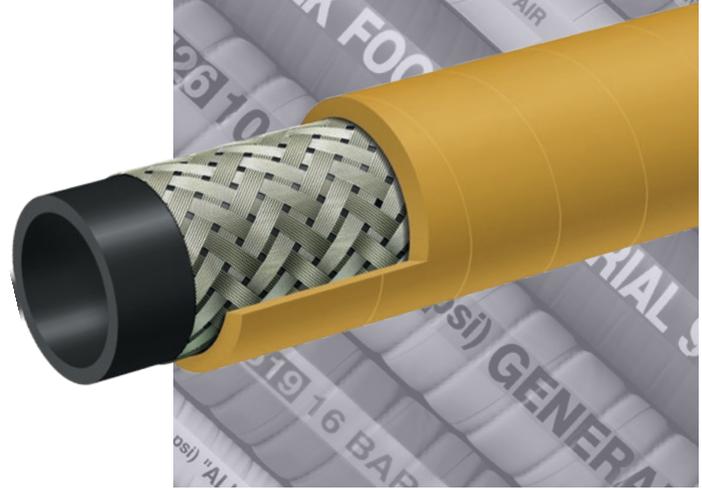
Nominal Specifications							
Series Number	ID		OD		Max Rec. WP (psi)	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)			
T758AA/AE100	1	25	1.57	40	800	100	0.60
T758AA/AE125	1 1/4	32	1.93	49	800	100	0.85
T758AA/AE150	1 1/2	38	2.28	58	800	100	1.15
T758AA/AE200	2	51	2.80	71	800	100	1.49

COUPLING SUGGESTIONS

Tubular steel full flow male permanently swaged or internally expanded with ferrule to provide maximum hose coupling compatibility.

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T140AK Series Braided Steel Wire Air Hose



General Applications:

High pressure air hose for heavy-duty use in mines, quarries, construction and industry.

Construction:

Tube: Black extruded SBR – resistant to oil mist.

Reinforcement: High tensile steel wire braids.

Cover: Yellow SBR – abrasion and ozone resistant – pin pricked.

Working Pressure:

Constant Pressure –

600 PSI: 1/2", 3/4", 1", 1 1/4", 1 1/2", 2"

450 PSI: 2 1/2", 3", 4"

Service Temperature Range:

-22°F (-30°C) to +176°F (+80°C)

Branding:

ALFAGOMMA – ITALY – T140 STEEL AIR (embossed)

Nominal Specifications

Series Number	ID		OD		Max Rec. WP (psi)	Min. Bending Radius (in)	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)				
T140AK050	1/2	13	0.87	22	600	2 1/2	50/100	0.28
T140AK075	3/4	19	1.10	28	600	4	50/100	0.37
T140AK100	1	25	1.34	34	600	5	50/100	0.47
T140AK125	1 1/4	32	1.65	42	600	6 1/2	50/100	0.72
T140AK150	1 1/2	38	1.89	48	600	7 1/2	50/100	0.86
T140AK200	2	51	2.52	64	600	10	50/100	1.34
T140AK250	2 1/2	63	3.03	77	450	12 1/2	50/100	1.64
T140AK300	3	76	3.54	90	450	15	50/100	1.95
T140AK400	4	102	4.65	118	450	20	50/100	2.75

COUPLING SUGGESTIONS

Steel or malleable iron male insert NPT, female ground joint or washer type with spud, or universal quick-acting couplings attached with 2 or 4 bolt interlocking clamps or bands. See the Kuriyama Couplings Catalog for more information.

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Dura-Jack™ 300 PSI Red or Yellow Cover Jackhammer Hose Assemblies

General Applications:

A durable quality hose to tackle the rugged application of jackhammer service

Construction:

Tube: Black EPDM.

Reinforcement: Spiral polyester yarn.

Cover: Abrasion and ozone resistant EPDM.

Ends: Crimped on Chicago style universal couplings.

Service Temperature Range:

-40°F (-40°C) to +200°F (+93°C)

Nominal Specifications

Part Number	Color	ID (in)	OD (in)	Working Pressure (psi)	Length (ft)	Weight (lbs/pc)
DJCR075X50ABX	Red	3/4	1.15	300	50	41
YLDJCR075X50ABX	Yellow	3/4	1.15	300	50	41



Redi-Wash™ Black 150 PSI Contractor's Water Hose Coupled Assemblies

General Applications:

Concrete trough clean-out and other washdown applications

Construction:

Tube: Black EPDM.

Reinforcement: Polyester yarn.

Cover: Black EPDM.

Ends: Crimped on GHT (garden hose) couplings.

Nominal Specifications

Part Number	Color	ID (in)	OD (in)	Working Pressure (psi)	Length (ft)	Weight (lbs/pc)
REDIWASH-062X50	Black	5/8	0.94	150	50	12.0
REDIWASH-062X100	Black	5/8	0.94	150	100	24.0

Service Temperature Range:

-40°F (-40°C) to +180°F (+82°C)

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KCS-TF5-230/3

Hose Capacity (in)	Motor Strength (HP)
1 – 2 Wire	3
4 SP / 6 SP	2 1/2
Industrial	5*
Max opening (mm)	160
10	

*Dependent on hose type

Cutter Size	
L x W x H (in)	41.9 x 40.2 x 30.3
Weight (lbs)	783
Blade Diameter (mm)	520

Part Number	Motor Info
KCS-TF5-230/3	10 HP (230 V) 3 PH

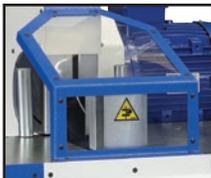


Low
Smoke

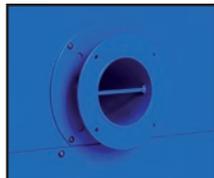
Base sold
separately

Description: Available as either stand alone or bench mounted. Ideal for cutting 2 1/2" six spiral hydraulic hose and 5" industrial hose including Conqueror Concrete Hose. The blade is recessed inside the base for additional safety.

Included Accessories:



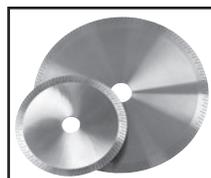
Recessed Blade



Ventilation Port



Electric Foot
Pedal

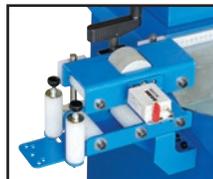


Serrated Blade
BLADE-SER520

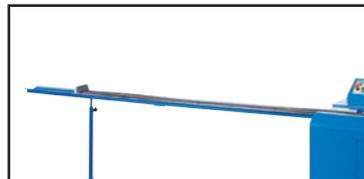
Optional Accessories:



Base
BASE-KCS5



Centering &
Measuring Device
CENTER-KCS45



Measuring Hose Tray
TRAY-KCS5



Stroke Counter
STROKE-KCS5



Fume Extractor
FUME-KCS5



Blowing Kit
BLKIT-KCS45



Smooth Blade
BLADE-SMT520

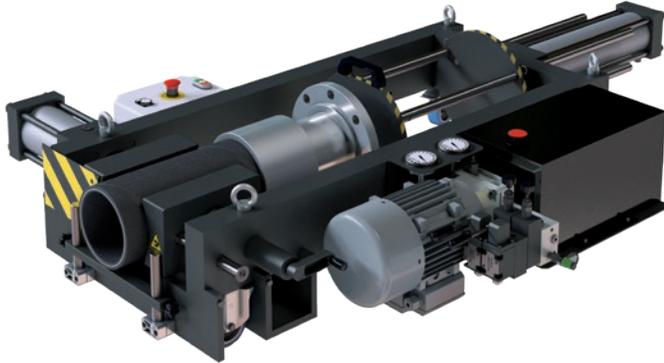


Diamond Blade
BLADE-DIA520

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KPUSH22-CON

Concrete Hose Pusher



Description: Boasting 22,000 lbs of crimping force, the KPUSH22-CON is designed for difficult, heavy duty industrial hose such as concrete and petroleum hoses. Concrete hose mandrels and non-slip hose jaws sold separately.

Hose Capacity (in)	Push Force (lbs)
8	22,000
Max Coupling OD (in)	16.7

Pusher Size	
L x W x H (in)	49.2 x 71.9 x 13.8
Weight (lbs)	992

Part Number	Motor Info
KPUSH22-CON	3 HP

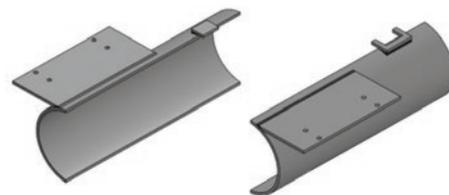
Optional Accessories:



Concrete Hose Mandrels

Description: Helps guide coupling into hose during fitting insertion. Specially designed to work with Alfagomma Conqueror T74SAA and T740AA series hoses.

Part Number	Description	Hose ID (in)
PUSHMAN200	Concrete Hose Mandrel	2
PUSHMAN250	Concrete Hose Mandrel	2 1/2
PUSHMAN300	Concrete Hose Mandrel	3
PUSHMAN400	Concrete Hose Mandrel	4
PUSHMAN500	Concrete Hose Mandrel	5



Non-Slip Hose Jaws

Description: Keeps hoses from slipping during fitting insertion. Specially designed to work with Alfagomma Conqueror T74SAA and T740AA series hoses.

Part Number	Description	Hose ID (in)
PUSHJAWS200	Non Slip Hose Jaws	2
PUSHJAWS250	Non Slip Hose Jaws	2 1/2
PUSHJAWS300	Non Slip Hose Jaws	3
PUSHJAWS400	Non Slip Hose Jaws	4
PUSHJAWS500	Non Slip Hose Jaws	5

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KC4-V160 Series



Greaseless
Operation



Silent
Pump

Hose Capacity (in)		Crimping Force (ton)
1 – 2 Wire	3	386
4 SP / 6 SP	3	
90° Fittings	3	
Industrial	6	

Opening Diameter	
Max. Without Dies (mm / in)	288 / 11.34
Max. With Dies (mm / in)	201 / 10.28
By Die Size (mm / in)	Die Size + 130 / 5.11

Crimper Size	
L x W x H (in)	41.8 x 34.5 x 76.2
Weight (lbs)	4,916

Part Number	Motor Info
KC4-V160-230/3	10 HP (230 V) 3 PH

Die Series	Die Range (mm)
V119 & V160	6 – 131*

*Large Diameter Dies available up to 190 mm

Refer to pg. 15 for available dies

Control Mechanism:



ES4

- Large, full-color, touch-screen display
- Stores up to 1,000 crimp specifications
- Built-in crimp diameter calculator
- USB port connection for data transfer
- Optional upgrades such as digital caliper, history data save, barcode reader, webcam and WiFi connection

Description: Handles industrial hose up to 6" and features an enlarged opening mechanism that allows for assemblies with large couplings or flanges. Its back limit switch and advanced Siemen's ES4 computerized controller greatly reduce cycle times. Its power pack is separated from the main unit creating a thin profile. Reduction dies included.

Included Accessories:



Back Limit Switch



Electric Foot Pedal
PEDAL-ES



Fitting Orientation
Protractor



Crimp Calculator

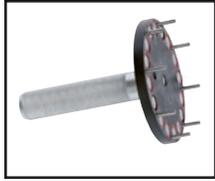


Back Mirror

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KC4-V160 Series

Optional Accessories:



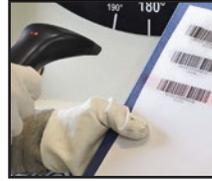
Quick Change
Die Tool
KCQCT-H119



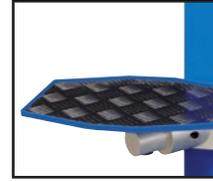
Patented Quick
Change Die Tool
KCPQCT-V160



Die Cart (24 pc.)
DIECART-V119



ES4 Upgrades



Mounted Side Table
TABLE-KC



Protection Net with
Activation Switch

CONQUEROR™

Dies for T74SAA and T740AA Series hoses

Conqueror Hose ID (In)	Die Number	Crimp Range (mm)	Closed Diameter (mm)	Length (mm)	Weight (lbs/ea)
2	KCDV119-77	77.0 - 86.0	77	120	11.1
2 1/2	KCDV119-90	90.0 - 99.0	90	120	8.9
3	KCDV160-108	108.0 - 117.0	108	135	12.2
3 1/2	KCDV160-131	131.0 - 139.0	131	135	12.2
4	KCDV160-139	139.0 - 149.0	139	135	29.0
5	KCDV160-164	164.0 - 175.0	164	135	29.0

Contact Kuriyama Customer Service for Conqueror hose crimp specifications.

Other Available Dies for KC4-V160 Series Crimpers:

Die Number	Crimp Range (mm)	Closed Diameter (mm)	Length (mm)	Weight (lbs/ea)
KCDV119-6	6.0 - 8.0	6	60	15.4
KCDV119-8	8.0 - 10.0	8	60	15.4
KCDV119-10	10.0 - 12.0	10	60	14.4
KCDV119-12	12.0 - 14.0	12	60	14.4
KCDV119-14	14.0 - 16.0	14	60	15.5
KCDV119-16	16.0 - 19.0	16	60	15.5
KCDV119-19	19.0 - 22.0	19	60	16.6
KCDV119-22	22.0 - 25.0	22	60	16.6
KCDV119-25	25.0 - 29.0	25	60	15.5
KCDV119-29	29.0 - 34.0	29	70	15.5
KCDV119-34	34.0 - 38.0	34	70	15.5
KCDV119-38	38.0 - 42.0	38	85	15.5
KCDV119-42	42.0 - 46.0	42	85	15.5
KCDV119-46	46.0 - 50.0	46	120	19.9
KCDV119-50	50.0 - 54.0	50	120	15.5
KCDV119-54	54.0 - 58.0	54	120	16.6
KCDV119-58	58.0 - 63.0	58	120	16.6

Die Number	Crimp Range (mm)	Closed Diameter (mm)	Length (mm)	Weight (lbs/ea)
KCDV119-63	63.0 - 69.0	63	120	17.7
KCDV119-69	69.0 - 73.0	69	120	15.5
KCDV119-73	73.0 - 77.0	73	120	13.3
KCDV119-77	77.0 - 86.0	77	120	11.1
KCDV119-86	86.0 - 90.0	86	120	12.5
KCDV119-96	96.0 - 103.0	96	120	8.9
KCDV160-103	103.0 - 106.0	103	135	12.2
KCDV160-106	106.0 - 111.0	106	135	12.2
KCDV160-111	111.0 - 116.0	111	135	12.2
KCDV160-116	116.0 - 121.0	116	135	12.2
KCDV160-121	121.0 - 126.0	121	135	12.2
KCDV160-126	126.0 - 131.0	126	135	12.2
KCDV160-131	131.0 - 136.0	131	135	12.2
KCDV160-166*	166.0 - 178.0	166	135	29.0
KCDV160-178*	178.0 - 190.0	178	135	29.0
KCDV160-190*	190.0 - 215.0	190	135	29.0

* Large Diameter Die. Other sizes are available.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

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