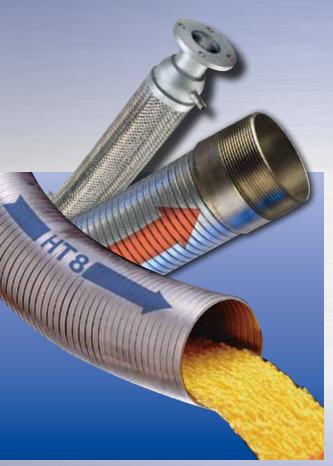


Kuriyama of America, Inc.

Metal Hose Products













EDITION 1108



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WHY METAL HOSE?

- Cost Savings In many cases, metal hose can offer significant cost savings compared to the other heavy duty material handling hoses.
- Abrasion Resistant High durability, better wear than plastic or rubber hoses.
- Temperature Extremes Very low or high temp ranges for media going through hose or environment hose is operated in (atmospheric).
- Chemical Compatibility Metal hose can handle a wide range of very aggressive chemicals.
- Protection Used as a protective armor, bend restrictor, blow-out or hot splash protection.

The trademarks contained in this publication are trademarks of Kuriyama of America, Inc.



Application Guide	Metal Hose To-Go [™]	"Multi-Flex" Rough Bore HT4000 Series	"Smooth Flow" Smooth Bore (lined) HT5000 Series	"Floppy Guard" HT1100 Series	SS/Alum. Duct HT3000 Series
Abrasive Material Handling	v	✓	✓		
Air Intake Supply; Fresh Air Intake		✓			✓
Bend Restrictor		V		✓	
Beverage Dispenser Hose Armor				>	
BOP (Blow Out Protection) for Hydraulic,		V		✓	
Cryogenic and Other High Pressure Hoses					
Bulk Unloading/Loading (Railcar/Truck)	V	V	V		
Dry Bulk Transfer (Railcar/Truck/In-Plant)	V	V	V		
Dust/Fume Collection		V			V
Engine Exhaust		V			
Environmental/Industrial Clean-Up	V	V			
Fly Ash/Soda Ash Handling	V	V			
Fume Hood Exhaust		V			V
Garage Fume Exhaust		V			V
Grain Handling	V	V	V		
High Temperature Material Handling	V	V	V		
Hot Air Blower/Suction	V	V			
Hot Air Ducting		V			V
Industrial Dryer Vents		V			V
Liner for Corrugated/Braided Assemblies		V			
Low Temperature Material Transfer	V	V	V		
Oven/Kiln Exhaust		V			V
Plastic Pellet Transfer	V	V	V		
Pneumatic Transfer	V	V	V		
Protective Armor/Shielding for Hoses		V		V	
Shielding for Wiring		V		V	
Steam Hose Liner		V			
Railcar - Bulk Unloading/Loading		V	V		
Spot Cooling/Air Conditioning Ducting		V			V
Truck - Bulk Unloading/Loading	V	V	V		
Truck Exhaust/Flexible Tailpipe Exhaust		V			
Vacuum Trucks and Equipment	V	V	V		

CAUTION

NOTE: This application guide provides information on typical flexible metal hose applications. Actual results may vary due to variances in the operating conditions involving temperature, chemical resistance, abrasiveness of the material being handled, working pressure, handling requirements, etc. Please refer to the specifications printed for each product in this catalog and our Cautionary Statement (see page 19), to better insure successful results.

NOTE: For questions regarding chemical resistance please call Hose Technology at 1-800-878-5501.



METAL-HOSE-TO-GOT

(Factory Pre-Welded Assembly)

Your Dry Bulk Transfer/Transport Solution!





NO WELDING REQUIRED!

(Factory Pre-Welded Assembly)

Why wait for new fabrication?

Kuriyama's Metal Hose Assemblies are in stock and ready for same day shipments!

Save your customers time and money.



YOUR DRY BULK TRANSFER/TRANSPORT SOLUTION

HOSE TEC prand pre-welded hose assemblies features and benefits...

Features and Benefits - Hose

■ Factory pre-welded with Stainless Steel 304 Schedule 40 MPT male pipe threaded (TOE) ends.

Available in three hose styles:

- HTS4200 Medium Weight (.017" .020" strip thickness) Rough Bore.
- HTSS5150 Lt. Wt. with Stainless Steel Liner (.015" Armor/.015" Liner) Smooth Bore.
- HTSS5180 Med. Wt. with Stainless Steel Liner (.018" Armor/.015" Liner) Smooth Bore.
- Ideal for hot air blower lines and material transfer/ transport with pneumatic trailers, railcars and in-plant applications. See p. 3 for more applications.

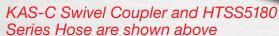
Features and Benefits - Couplings

- Readily accepts our Kuriyama-CouplingsTM Threaded Hex **SWIVEL** Couplers and Adapters. (See p. 7)
- **SWIVEL** Couplers and Adapters make hose handling easier and help extend hose life!



The arrow tells it all! A curved or distorted arrow like this one shows that the hose has been twisted (torqued) and possibly damaged. This may have been prevented with the use of a swivel coupling!

■ Also readily accepts our Kuriyama-Couplings[™]
Aluminum and Stainless Steel Non-Swivel Quick-Acting
Camlock Type-A Male Adapters and Type-D Female
Couplers. (See p. 7)











ROUGH BORE (UNLINED) HOSE - NOMINAL SPECIFICATIONS						
PART NUMBER	ID	OAL*	STRIP SERIES**	APPROX. WT. P/PC		
S203X120ST0E	3"	10'	4200	22 lbs		
S203X144ST0E	3"	12'	4200	26 lbs		
S204X120ST0E	4"	10'	4200	28 lbs		
S204X144ST0E	4"	12'	4200	33 lbs		
S204X228ST0E	4"	19'	4200	52 lbs		
S204X234ST0E	4"	19.5'	4200	53 lbs		
S205X120ST0E	5"	10'	4200	34 lbs		
S205X228ST0E	5"	19'	4200	61 lbs		
S206X120ST0E	6"	10'	4200	42 lbs		

^{**}NOTE: See p. 9 for strip thickness information on 4200 Series hoses.

SMOOTH BORE (LINED) HO	SE - NOMINA	L SPECIFICATI	ONS	
PART NUMBER	ID	OAL*	STRIP SERIES***	APPROX. WT. P/PC
SS154X228ST0E	4"	19'	5150	67 lbs
SS184X072ST0E	4"	6'	5180	24 lbs
SS184X120ST0E	4"	10'	5180	38 lbs
SS184X144ST0E	4"	12'	5180	45 lbs
SS184X180ST0E	4"	15'	5180	56 lbs
SS184X210ST0E	4"	17.5'	5180	65 lbs
SS184X228ST0E	4"	19'	5180	70 lbs
SS184X300ST0E	4"	25'	5180	92 lbs
SS185X180ST0E	5"	15'	5180	75 lbs
SS185X228ST0E	5"	19'	5180	93 lbs
SS185X240ST0E	5"	20'	5180	98 lbs
SS186X120ST0E	6"	10'	5180	62 lbs
SS186X156ST0E	6"	13'	5180	79 lbs
SS186X180ST0E	6"	15'	5180	90 lbs
SS186X228ST0E	6"	19'	5180	112 lbs
SS186X300ST0E	6"	25'	5180	146 lbs

^{***}NOTE: See p. 11 for strip thickness information on 5150 and 5180 Series hoses.

^{*}NOTE: OAL (overall length) of Metal-Hose-To-Go™ interlocked metal hoses refers to assembly lengths in the nominal "Natural-Lie" state. Due to the nature of interlocked metal hose, actual lengths may vary slightly. Hose Tec® factory representatives are available for additional information or questions (1-800-878-5501).





Kuriyama Couplings[™] and Accessories For The Metal-Hose-To-Go[™] Program

Nominal Specifications

THREADED SWIVEL ALUMINUM FEMALE COUPLER WITH SS304 THREADED NPT INSERT

Part Number	Size	Weight Each (lbs.)	Standard Carton
KAS-C401	4"	5.20	1
KAS-C501	5"	6.53	1
KAS-C601	6"	10.49	1



THREADED SWIVEL ALUMINUM MALE ADAPTOR WITH SS304 THREADED NPT INSERT

Part Number	Size	Weight Each (lbs.)	Standard Carton	
KAS-E401	4"	4.67	1	
KAS-E501	5"	5.42	1	
KAS-E601	6"	6.97	1	



THREADED SWIVEL SS304 MALE ADAPTOR WITH SS304 THREADED NPT INSERT

Part Number	Size	Weight Each (lbs.)	Standard Carton			
KSS-E401	4"	6.12	1			
KSS-E501	5"	7.61	1			
KSS-E601	6"	11.07	1			



PART 'A' QUICK-ACTING MALE ADAPTOR x FEMALE NPT (NON-SWIVEL)

Part Number	Size	Weight Each (lbs.)	Standard Carton†	
AL-A300	3"	0.70	35	
SS304-A300	3"	2.16	8	
SS-A300	3"	2.16	8	
AL-A400	4"	1.58	20	
SS304-A400	4"	2.88	6	
SS-A400	4"	2.88	6	
AL-A500	5"	1.75	4	
SS304-A500	5"	4.30	4	
SS-A500	5"	4.30	4	
AL-A600	6"	2.95	15	
SS304-A600	6"	6.00	2	
SS-A600	6"	6.00	2	



†Note: Couplings can be purchased individually also.

PART 'D' QUICK-ACTING FEMALE COUPLER x FEMALE NPT (NON-SWIVEL)

ari b quick norma i Em	THE COOL PERIOR TENIN	LE III I (III OIII OIIII E	
Part Number	Size	Weight Each (lbs.)	Standard Carton†
AL-D300	3"	1.80	20
SS304-D300	3"	3.82	8
SS-D300	3"	3.82	8
AL-D400	4"	2.16	10
SS304-D400	4"	5.14	6
SS-D400	4"	5.14	6
AL-D500	5"	3.42	4
SS304-D500	5"	8.00	4
SS-D500	5"	8.00	4
AL-D600	6"	4.24	10
SS304-D600	6"	10.06	2
SS-D600	6"	10.06	2

†Note: Couplings can be purchased individually also.

WHITE NEOPRENE (FDA) GASKETS FOR QUICK ACTING COUPLINGS

WHITE NEUPKENE (FUA) GAS	SKETS FUR QUICK AC	TING COUPLINGS	
Part Number	Size	Weight Each (lbs.)	Standard Package
WN300	3"	0.042	10
WN400	4"	0.066	10
WN500	5"	0.094	10
WN600	6"	0.116	10

Note: For standard part "A" and "D" Quick-Acting Couplings, please refer to our separate Kuriyama-Couplings™ full line catalog. Web: http://www.kuriyama.com

HT4000 Series Rough Bore (Unlined) "Multi-Flex" Interlocked Metal Hose



Construction:

- A single metal strip is formed to create a flexible interlocked metal hose that offers maximum flexibility and strength, as well as superior service life.
- Available in Galvanized steel and Series 300 Stainless steel construction, with strip thicknesses from .010" to .031".
- Choice of packing materials to suit most applications... see page 11.







Features:

- High strength construction.
- Temperature and corrosion-resistant.
- Flexible... can be formed and holds its shape, yet is easily moved.

Applications:

- Abrasive material handling
- BOP (Blow Out Protection) for hydraulic, cryogenic and other high pressure hoses
- Bulk unloading/loading (railcar/truck)
- Dry bulk transfer (railcar/truck/in-plant)
- Fly ash/soda ash handling
- Grain handling
- High temperature handling
- Hot air blower/suction
- Liner for corrugated/braided assemblies
- Protective armor/shielding for hoses
- Steam hose liner
- Truck exhaust/flexible tailpipe exhaust
- Vacuum trucks and equipment

Note: See p. 3 for more applications

Maximum Service Temperature:

■ Galvanized steel: Up to 750°F Series 300 Stainless steel: Up to 1500°F

For questions regarding other Stainless steel material options please call Hose Technology at 1-800-878-5501.

Note: If utilizing packing material, service temperatures may vary. See Page 11.





Please refer to the back page for the location of your nearest warehouse for availability of products/sizes shown.





Nominal Specifications Med. Weight **Light Weight** Lt. Med. Weight **Heavy Weight Extra Hvy. Weight** HTG4100 HTG4150 HTG4200 HTG4250 HTG4300 HTS4100 HTS4150 HTS4200 HTS4250 HTS4300 .010" - .012" .016" – .016" .017" - .020" .023" - .026" .027" - .031" Hose Size Min. Min. Min. Min. Wt. Wt. Wt. Min. I.D. Inside Inside Inside Inside Inside per per per per per (Inches) foot foot foot foot Bend Bend Bend **Bend** Bend foot Radius (in.) (lbs.) 5/16 1.25 0.10 $^{3}/_{8}$ 1.50 0.12 $^{1}/_{2}$ 1.75 0.15 5/8 2.00 0.20 3/4 2.625 0.25 7/8 3.00 0.29 3.50 0.33 1 11/8 3.75 0.37 0.41 11/4 4.00 13/8 4.25 0.45 5.00 0.60 4.75 0.50 5.50 0.70 6.00 11/2 1.00 $1^{5}/8$ 5.00 0.54 5.75 0.75 6.50 1.05 $1^{3}/_{4}$ 5.25 0.58 6.00 0.80 7.00 1.10 1.20 $1^{7}/8$ 5.50 0.62 6.25 0.85 7.50 6.50 9.00 2 6.00 0.70 0.90 8.00 1.30 1.60 9.5 2.10 21/4 6.75 0.75 7.25 8.50 1.45 9.50 10.00 1.10 1.80 2.20 8.00 21/2 9.00 10.00 2.00 7.50 0.80 1.20 1.60 10.50 2 30 23/4 8.75 0.90 8.25 1.30 10.00 1.80 11.00 2.15 11.50 2.50 3 10.00 1.00 10.50 1.40 11.00 2.00 12.00 2.30 13.00 2.70 31/4 10.50 1.10 11.25 1.50 12.00 2.10 13.00 2.50 13.50 2.95 $3^{1}/_{2}$ 11.00 1.20 12.00 1.60 12.50 2.30 13.50 2.70 14.00 3.20 4 12.50 1.40 13.50 1.80 14.50 2.60 15.00 3.10 15.50 3.60 $4^{1/2}$ 14.00 1.50 15.00 2.00 16.00 2.90 17.00 3.50 18.00 4 10 5 15.00 1.70 16.00 2.30 17.00 3.00 18.00 3.90 19.00 4.50 $5^{1}/_{4}$ 16.00 1.80 17.25 2.40 18.00 3.15 19.5 4.10 20.50 4.75 $5^{1}/_{2}$ 17.50 1.90 18.50 2.50 19.50 3.30 21.00 4.30 22.00 5.00 20.00 2.00 21.00 2.70 22.00 3.60 23.50 4.70 25.00 5.40 6 61/4 20.50 2.10 21.50 2.80 23.00 3.75 24.50 4.90 26.00 5.60 25.00 26.50 $6^{1/2}$ 21.00 2.20 22.00 2.95 23.50 3.90 5.10 5.80 4.20 22.00 2.40 23.00 3.20 25.00 26.50 5.50 28.00 6.30 7 $7^{1}/_{4}$ 23.00 2.50 23.75 3.30 26.00 4.30 27.50 5.70 29.00 6.50 $7^{1}/_{2}$ 24.00 2.60 24.50 3.40 26.50 4.40 28.00 5.85 29.50 6.75 25.00 2.70 26.00 3.60 28.00 4.70 29.50 6.20 31.00 8 7.20 9 28.25 4.05 30.50 5.30 32.00 6.60 34.00 7.60 $9^{1/2}$ 29.50 4.25 31.50 33.50 35.50 5.60 6.80 7.80 10 30.50 4.50 32.50 5.90 34.50 7.00 37.00 9.00 11 33.00 5.00 35.50 6.50 37.50 7.40 39.50 9.90 33.75 5.10 36.00 6.60 38.00 7.50 40.50 10.20 11¹/₄ 5.20 37.00 6.75 38.50 7.60 $11^{1}/_{2}$ 34.50 41.50 10.40 7.80 12 36.00 5.40 38.00 7.00 40.00 42.00 10.80 14 50.00 6.30 53.00 8.10 55.00 9 40 57.50 12.60

NOTE: Standard lengths are 25 ft. and 50 ft. coils, **WHEN FULLY EXTENDED**; other lengths available on request.

60.50

62.50

11.00

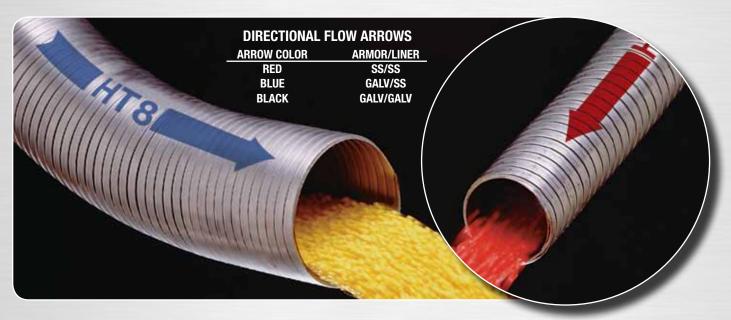
75.00

14.40

16

HT5000 Series Smooth Bore (Lined) "Smooth Flow" Interlocked Metal Hose





HT5000's Smooth Bore Interlocked Metal Hose combines the Hose Tec® single-strip interlocking armor construction with a second strip liner, providing a smooth interior flexible metal hose that resists material build-up; reduces internal abrasion and material degradation. Materials flow smoothly in one direction shown by arrows.

Construction:

- An armor strip is combined with a strip of liner material and formed to create a lined flexible interlocked metal hose that offers superior strength and abrasion-resistance for longer hose life.
- Available with Galvanized steel or Series 300 Stainless steel armor construction, with either Galvanized or Series 300 Stainless steel liner, in a variety of strip thicknesses.

Features:

- Directional flow arrows are provided on each length.
- Galvanized or Stainless steel liner provides additional strength and greater resistance to abrasion; extends hose life.
- Smooth liner reduces material degradation and improves loading/unloading time.
- Provides maximum flow rates for pneumatic conveying applications.

Applications:

- Abrasive material handling
- Bulk unloading/loading (railcar/truck)
- Dry bulk transfer (railcar/truck/in-plant)
- Grain handling
- Plastic pellet transfer

Note: See p. 3 for more applications

Maximum Service Temperature:

■ Galvanized steel: Up to 750°F Series 300 Stainless steel: Up to 1500°F

Note: If utilizing packing material, service temperatures may vary. **See Page 11**.

For questions regarding other Stainless steel material options please call Hose Technology at 1-800-878-5501.







HT5000 Series Smooth Bore (Lined) "Smooth Flow" Interlocked Metal Hose

Nominal Specifications						
Hose Size I.D.	HTGS - Galy Armor/SS Liner		HT5180 Series Med. Wt. Armor/Lt. Wt. Liner .018" Armor/015" Liner HTGG – Galv. Armor/Galv. Liner HTGS – Galv. Armor/SS Liner		HT5250 Series Hvy. Wt. Armor/Med. Wt. Liner .025" Armor/018" Liner	
(inches)	HTSS – SS Ar	mor/SS Liner	HTSS – SS Ar	mor/SS Liner	HTSS – SS Ar	mor/SS Liner
	Minimum Inside Bend Radius (in.)	Weight per foot (lbs.)	Minimum Inside Bend Radius (in.)	Weight per foot (lbs.)	Minimum Inside Bend Radius (in.)	Weight per foot (lbs.)
1 ¹ / ₂ 1 ³ / ₄ 2	5.625 6.50 7.50	1.10 1.35 1.60	6.00 7.00 8.00	1.50 1.70 1.90	_	=
2 ¹ / ₄ 2 ¹ / ₂ 2 ³ / ₄	8.50 9.50 10.50	1.90 2.10 2.30	9.50 10.50 12.50	2.10 2.30 2.50	=	
3 3 ¹ / ₂ 4	11.50 13.50 15.00	2.50 2.90 3.40	14.00 15.00 16.00	2.80 3.20 3.60	17.50 18.50 19.50	3.75 4.35 5.10
4 ¹ / ₂ 5 6	17.00 18.50 22.00	3.75 4.10 4.90	18.50 20.50 24.50	4.00 4.70 5.60	22.00 24.00 30.00	5.40 5.60 6.25
7 8 10	26.50 30.50 —	5.80 6.60 —	29.00 31.50 39.50	6.60 7.70 9.70	34.00 37.00 43.00	7.80 8.80 11.00
12 14	=	=	47.00 55.00	11.70 13.50	52.00 60.00	13.00 15.50

NOTE: Standard coil length is 25 ft., WHEN FULLY EXTENDED; other lengths available on request.

Packing Selections — for lined & unlined interlocked flexible metal hose

Note: Metal Hose service temperature may vary due to choice of packing material used.

63.00

Rough Bore (Unlined) Smooth Bore (Lined)
Interlocked Hose Interlocked Hose

16





Packing Material	Temperature	Pressure	Vacuum
Cotton Cord	To 300° F.	To 15 PSI	To 15" Mercury
Apyrous (Hi Temp)	To 700° F.	To 15 PSI	To 15" Mercury
Gas Tight (Elastomeric)	To 180° F.	To 20 PSI	To 20" Mercury
Silicone	To 500° F.	To 20 PSI	To 20" Mercury
S. S. Wire	To 1500° F.	To 15 PSI	To 15" Mercury

15.00

69.00

18.00

NOTE: Packings are NOT recommended for most hose applications. Check with Hose Technology at: 1-800-878-5501.





Construction:

- A single metal strip is loosely interlock-wound to create an extremely flexible interlocked metal hose.
- Available in Galvanized steel and Series 300 Stainless steel.

Features:

- Extremely flexible and light weight.
- Wide range of operating temperatures.
- Available in mill run and special cut lengths.

Applications:

- Bend restrictor
- Beverage dispenser hose armor
- BOP (Blow Out Protection) for hydraulic, cryogenic and other high pressure hoses
- Protective armor/shielding for hoses
- Shielding for wiring

Maximum Service Temperature:

Galvanized steel: Up to 750°F
 Series 300 Stainless steel: Up to 1500°F

For questions regarding special lengths or other Stainless steel material options please call Hose Technology at 1-800-878-5501.

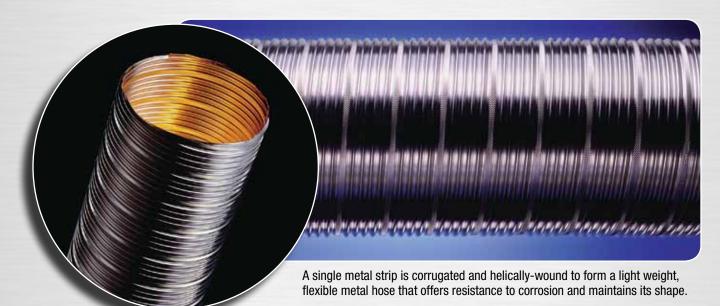
Catalog Series Numbers:

HTG1100 — Galvanized — .010" – .012" strip thickness

HTS1100 — Series 300 Stainless steel — .010" – .012" strip thickness

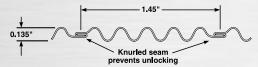
Nominal Specifications

Trommar Opcomodations							
Hose Size I. D. (In.)	HTG1100/HTS1100		Hose Size	HTG1100/HTS1100			
	Min. Inside Bend Radius (in.)	Wt. per foot (lbs.)	I. D. (In.)	Min. Inside Bend Radius (in.)	Wt. per foot (lbs.)		
³ / ₁₆	0.75	.08	1 ¹ / ₈	4.50	.32		
1/4	1.00	.10	1 ¹ / ₄	5.00	.36		
⁵ / ₁₆	1.25	.12	13/8	5.50	.42		
3/8	1.50	.14	11/2	6.00	.48		
1/2	2.25	.16	1 ⁵ / ₈	6.50	.52		
5/8	2.75	.18	13/4	7.00	.58		
3/4	3.00	.20	17/8	7.50	.62		
7/8	3.50	.23	2	8.00	.66		
1	3.75	.28	21/4	9.50	.76		



Construction:

- 316L Stainless steel.
- Aluminum.



Features:

Good air-handling characteristics . . . low friction loss and minimal air leakage.

Applications:

- Dust/fume collection
- Hot air ducting
- Industrial dryer vents
- Spot cooling/air conditioning ducting

Note: See p. 3 for more applications

Maximum Service Temperature:

■ Aluminum: Up to 600°F 316L Stainless steel: Up to 1500°F

Nominal Specifications

	Series and Strip Thickness						
Hose Size I. D. (Inches)	HTA3008 .007" – .008" Aluminum		HTS3007 .006"007" SS				
	Minimum Inside Bend Radius (in.)	Weight per foot (lbs.)	Minimum Inside Bend Radius (in.)	Weight per foot (lbs.)			
3 4 5 6 7	2.25 3.00 3.75 4.50 5.25	.15 .20 .25 .28 .33	3.00 4.00 5.00 6.00 7.00	.40 .50 .63 .75 .86			
8 9 10 12	6.00 6.75 7.50 9.00	.38 .40 .45 .54	8.00 9.00 10.00 12.00	1.00 1.15 1.27 1.50			
14 16 18	10.50 12.00 —	.63 .72 —	14.00 16.00 18.00	1.73 2.00 2.30			
20 22 24	_	_	20.00 22.00 24.00	2.50 2.75 3.00			

NOTE: Standard coil length is 25 ft., WHEN FULLY EXTENDED; other lengths available on request.



Agriculture — Grain handling/chutes/ vac systems, feed trucks.

Brewery — Grain handling offloading railcar/in-plant.

Chemical — Dry bulk resin handling offloading railcars/bulk trucks/in-plant, fume exhaust.

Chimney — Relining chimneys.

Cryogenics — Armor for transfer hoses.

Environmental/Industrial Clean-Up — Dry material handling for power plants, steel mills, fly ash, soda ash, lime powder.

Food Processing — Dry bulk handling, protective armor on hot water lines.

Government — Fresh air/air conditioning ducting for ship maintenance.

Mining — Dry bulk handling, lime, trona. Ducting/venting/exhaust lines.

OEM — Air/Gas/Liquid/Material handling, armor guard, bend restrictor, wire guides.

Oil Field — BOP lines, heater hoses, dry bulk handling, frac sand trucks.

Petro-Chemical — Dry resin handling offloading railcars/bulk trucks/in-plant.

Plastics — Transfer/transport of pellets, resins with railcars/bulk trucks/in-plant.

Plating — Fume removal.

Shipyards — Maintenance ducting lines for fresh air/air conditioning.

Steel Mills — Hot material clean-up, protective armor, ducting/venting, cooling plate armor.

Textile Mills — Dust/lint control.

Trucking — Dry bulk drop hoses, vacuum hoses, flexible exhaust connectors, hot air blower hoses.

Welding — Fume exhaust.

Woodworking — Dust/chip control.

Note: For Chimney applications please contact Hose Technology at 800-878-5501 for assistance.

While this is a list of industries and common uses within the industry, there are still many more that are not listed here. The type of metal hose used in these industries could be either interlocked hose or corrugated hose.

Please refer to the back page for the location of your nearest warehouse for availability of products/sizes shown.



HOSE TECHNOLOGY

PRODUCTS & SERVICES





KMHCA0811





Repair Services

- In many cases, expensive hose replacements are not needed.
- Let Hose Technology repair your current hoses instead.

The professional and courteous engineering staff at Hose Technology is available to assist with all of your custom fabrication design and manufacturing.

Interlocked Hose Assemblies With Welded Swivel Fittings

- Swivel fittings offer easier handling of hoses.
- Extend hose life by reducing damage caused by torqueing, or twisting of the hose.



Epoxy/Bolt Connection

- Two bolts along with epoxy are used to secure fitting onto an interlocked hose assembly.
- Provides extra measure of security when fastening.



Interlocked Hose with Stainless Steel Tube End Welded On.



Interlocked Hose with Aluminum Tube End Fastened With Epoxy



Aluminum Interlocked Hose

- All aluminum, lightweight, interlocked hose.
- For ducting or light duty material handling.

Truck Exhaust Hose

- Galvanized steel.
- Stainless steel.
- Aluminized steel.
- Bulk or pre-cut lengths.



CALL HOSE TECHNOLOGY AT 1-800-878-5501 FOR MORE INFORMATION

HOSE TEC® TOUGH METAL HOSE™



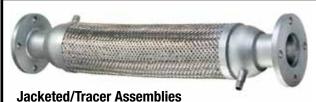






Corrugated Hose Assembly with Interlocked Hose Liner

- · Liner is used to help protect the hose corrugations.
- Eliminates material build-up and reduces damage caused by abrasion.



- Hose-within-a-hose assembly.
- Keeps media at very high or low temps; good with very high viscosity materials.



Square/Rectangle Hose

- Used for specialty applications.
- OEM use where the shape of the hose is critical.

Chimney Liner

- Offered in many shapes.
- These hoses are used in re-lining existing chimneys
- · See "note" on page 14.



CALL HOSE TECHNOLOGY AT 1-800-878-5501 FOR MORE INFORMATION

Commonly Used Terms



Abrasion — Scuffing, rubbing or wear of a hose or braid surface.

Ambient Conditions — The surrounding environment to which a hose assembly is subjected. This includes temperature, corrosion and abuse conditions.

Annular — With reference to the convolution form, meaning independent corrugations straight and parallel.

Armor — Flexible interlocked tubing placed over the entire length or in short lengths at the ends of a metal hose to protect it from physical damage and to limit bending.

ASME — American Society of Mechanical Engineers.

Bend Radius — The centerline radius of a hose in a bent condition.

Braid — A flexible metal sheath surrounding metal hose that prevents the hose from elongating under pressure. Braid is composed of a number of wires wrapped helically around the hose while at the same time going over and under each other in a basket weave fashion.

Compressed — Interlocked hose in its completely closed state.

Extended — Interlocked hose in its completely open state.

Fatigue — The process of failure in a metal hose associated with motion or pressure.

Floppy Interlock — Constructed for maximum flexibility.

Helical — With reference to the convolution form, meaning one single convolution generated along the axis of the tube in a manner similar to a screw thread.

Interlocked Hose — Formed from profiled strip and would into flexible metal tubing with no subsequent welding, brazing, or soldering. May be made pressure tight by winding in strands of packing.

Intermittent Bend Radius — The designation for a radius used for non-continuous operation. Usually in an elastic radius.

Loose Wound Interlock — Loosely wound interlocked hose. Will not hold its shape.

Minimum Bend Radius — The smallest radius to which a hose is permitted to be bent, generally applicable only to static conditions. Sometimes referred to as static bend radius.

Natural Lie (Relaxed) — Interlocked hose halfway between the compressed and extended state.

Offset — A condition wherein the ends of a hose are displaced laterally with respect to each other with the ends being in parallel planes. Sometimes referred to as lateral offset, shear, or parallel offset.

Operating Conditions — The designation of pressure, temperature, motion media and environment. Used interchangeably with "application."

Packing — Material inserted into the windings of interlocked hose to make it less susceptible to leaking.

Pressure — The internal hydraulic or pneumatic force applied to a metal hose.

Rough Bore — Interlocking metal hose that allows movement of media in either direction. (Unlined)

Smooth Bore — Interlocking metal hose that uses an additional strip to create a smooth transition of media in one direction only. (Lined)

Square Cutting — Cutting the end of a metal hose so that the end will be completely flush with a fitting for attaching.

Squarelocked Hose —

Flexible metal hose that is not mechanically locked together.



Standard Interlock —

Flexible interlocked hose that offers flexibility, strength and service life.



Torque — A force that produces rotation on an interlocked hose.

Vacuum — Negative pressure or suction.



Cautionary Statement

All Products sold and distributed by Kuriyama of America, Inc. are in the nature of commodities and they are sold by published specifications and not for particular purposes, uses or applications. Purchaser shall first determine their suitability for the intended purposes, uses or applications and shall either conduct its own engineering studies or tests, or retain qualified engineers, consultants or testing laboratories and consult with them before determining the proper use, suitability or propriety of the merchandise or Products for the intended purposes, uses or applications.

Kuriyama of America, Inc. ("Seller") does not recommend the Products for any particular purpose, use or application, and the Purchaser or user thereof shall assume full responsibility for the suitability, propriety, use and application of the Products. Purchaser shall follow all instructions contained in Seller's catalogs, brochures, technical bulletins and other documents regarding the Products. The Products, including but not limited to, hose, tubing or couplings, may fail due to the use or conveyance of substances at elevated or lowered temperatures or at excessive pressure, the conveyance of abrasive, injurious, flammable, explosive or damaging substances.

Hose or tubing used in bent configurations will be subjected to increased abrasion. Hose clamps or couplings may loosen after initial installation and all sections of hose and tubing including connections, couplings, clamps, conductivity and bonding should be inspected frequently, regularly and consistently, and should be replaced, adjusted or re-tightened for the avoidance of leakage, for the prevention of injuries or damages, and for general safety purposes. Except as indicated in its Limited Warranty. Seller shall not be liable or responsible for direct or indirect injuries or damages caused by or attributed to the failure or malfunction of any Products sold or distributed by it.

Purchasers or users of the Products should frequently and consistently undertake inspections and protective measures with respect to the use and application of Products, which should include the examination of tube and cover, conditions of the hose or tubing, and the identification, repair or replacement of sections showing cracking, blistering, separations, internal and external abrasions, leaking or slipped couplings or connections and make proper proof tests.

Limited Warranty

Please refer to the back page for the location of your nearest warehouse for availability of products/sizes shown.

The Products sold or distributed by Seller are warranted to its customers to be free from defects in material and workmanship at the time of shipment by us, subject to the following provisions.

ALL WARRANTY CLAIMS SHALL BE MADE WITHIN SIX (6) MONTHS AFTER SELLER SHIPPED THE PRODUCTS. SELLER'S LIABILITY HEREUNDER IS LIMITED AT SELLER'S EXCLUSIVE DISCRETION, TO 1) THE PURCHASE PRICE OF ANY PRODUCTS PROVING DEFECTIVE; 2) REPAIR OF ANY DEFECTIVE PRODUCT OR PART THEREOF; OR 3) REPLACEMENT OF ANY DEFECTIVE PRODUCT OR PART UPON ITS AUTHORIZED RETURN TO SELLER. THIS WARRANTY IS IN LIEU OF AND EXCLUDES ALL OTHER WAR-RANTIES, EXPRESSED, IMPLIED, STATUTORY, OR OTHERWISE CREATED UNDER APPLICABLE LAW INCLUDING, BUT NOT LIM-ITED TO, THE WARRANTY OF MERCHANTABILITY AND THE WAR-RANTY OF FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL SELLER OR THE MANUFACTURER OF THE PRODUCT BE

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09/2005



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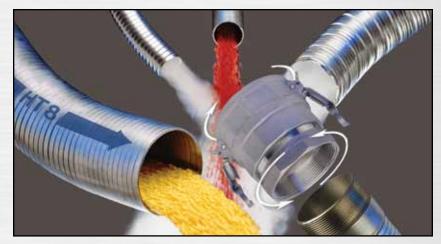
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About Hose Technology...



Hose Technology is dedicated to manufacturing the highest quality flexible metal hose, delivered quickly and competitively priced.

Our plant in centrally located in the Midwest to provide fast delivery, and has been designed solely for the efficient manufacture of flexible metal hose and ducting.

Hose Technology's standard Hose Tec® Brand products are being inventoried in all Kuriyama warehouses.

We pride ourselves on our ability to meet our customer's individual needs. Whether you need a special length, special diameter, special materials of construction, special fittings, or just special handling, don't hesitate to ask!

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Visit us www.kuriyama.com on the Web!



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