

■ POLYMERIC CHAINS

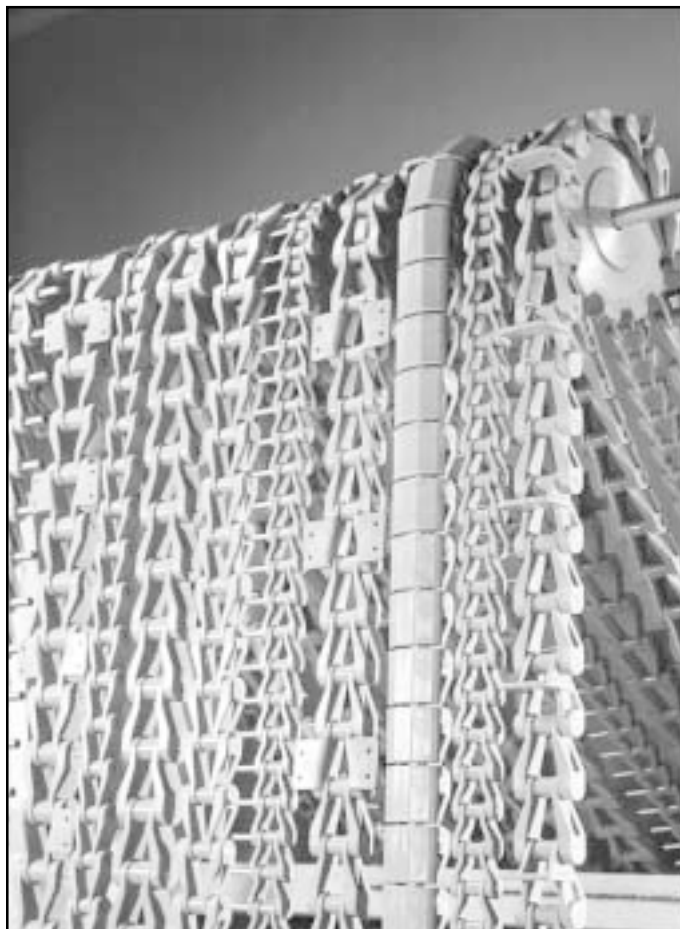
STRAIGHT RUNNING CHAINS

Design Features

Rex® straight running polymeric chains are designed specifically for those applications requiring corrosion resistant chains that operate over standard metal or polymeric sprockets.

The link material is a low friction thermoplastic that has proven itself as a chain material for over a decade. This material resists most chemicals, and because of its low friction characteristics, reduces energy consumption and noise while increasing chain, sprocket and conveyor wear strip life. Wide wearing surfaces on top and bottom of the link offer extended sliding wear life.

Chain pins are manufactured from stainless steel. The latest technology in chain design has been used to provide the greatest chain strength and wear life at a reasonable cost. The use of stainless steel pins with the corrosion resistant thermoplastic material offers a chain capable of withstanding most corrosive applications. Non-metallic pins are also available, contact Rexnord for details.

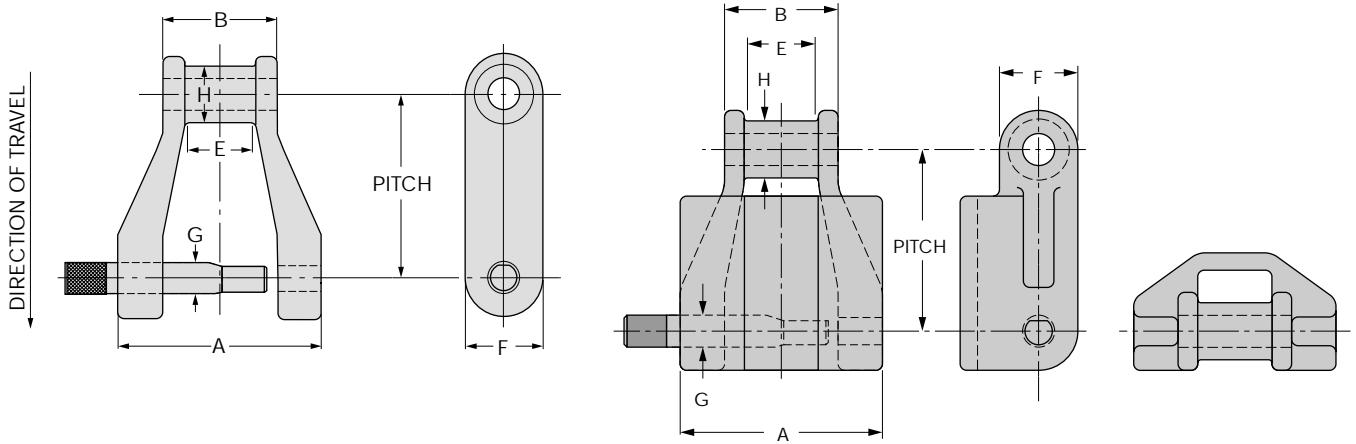


Design Benefits

- **Simple Two Piece Construction** – Pins are easily assembled into links – yet pins will not “work out” or rotate in service. No extra spring pins or cotters to fall out or snag conveyor apparatus. Every link is a “Master Link.”
- **Lightweight** – Less “dead weight” in your conveyor system will extend conveyor component life – longer chain life – longer conveyor “way” life – longer sprocket life – longer bearing life – longer reducer life – longer motor life!
- **Clean** – In normal service, Rex Polymeric Chain will not corrode and contaminate the product. It is easily washed with water during operation, saving both time and money.
- **Completely Interchangeable** – As a replacement for metal chains, Rex Polymeric Chain will run on existing carrying and return “ways.” The chains will not intercouple with metal chains.
- **Low Coefficient of Friction** – Rex chain materials have a very low coefficient of friction – this means less chain load and less energy consumption to convey the same tonnage.
- **Brute Strength** – Rex Polymeric Chain has the highest possible working load. This is accomplished through “Balanced Design” of the link and pin. For a comparison to your current chain or for chain recommendations consult Rexnord.
- **Operating Range** – Allowable temperature range of Rex Polymeric Chain is enough to handle most applications: -40°F to +180°F.
- **Quiet Running** – Because of its unique design, the Rex Polymeric Chain is an ideal chain for reducing noise in many applications. Make your own test to prove if the noise level is adequate for your needs.

■ POLYMERIC CHAINS

STRAIGHT RUNNING CHAINS



NHT78

Dimensions are in inches. Strengths, loads and weights are in pounds.

Rex Chain No.	Average Pitch	Overall Width	Length of Bearing	Max. Allowable Sprocket Face	Height of Sidebar	Link Thickness	Pins	Average Weight	Sprocket Unit No.	Bottom Sliding Area Sq. Inches Per Foot
		A	B	E	F	J	G			
NH45	1.630	2.19	1.31	.75	.88	.31	.63	0.9	N45	8.8
NH77	2.308	2.19	1.31	.75	1.10	.38	.81	1.1	N77	10.4
NH78	2.609	2.91	1.63	.94	1.13	.44	.88	1.4	N78	11.5
NHT78	2.609	2.91	1.63	.94	1.69	.44	.88	2.0	N78	11.5
NH82	3.075	3.29	2.00	1.13	1.50	.50	1.25	2.2	N82	13.7

Chains are normally stocked. Chains are patented: #4682687

CAUTION: ANY UNUSUAL burrs, ridges or protrusions on sprocket teeth or in conveyor system which would cut into polymeric chains must be removed.

Specifications

FDA and USDA – Chain materials used are in compliance with FDA regulations and guidelines for use in direct food contact. Also, the chain materials have been found chemically acceptable for direct food contact with meat or poultry products by the Product Safety Branch of USDA. Also, the chain designs have been found acceptable for direct contact with meat or poultry products by the Equipment Branch of the Facilities, Equipment and Sanitation Division of USDA.

See pages 130-132 for important application information.

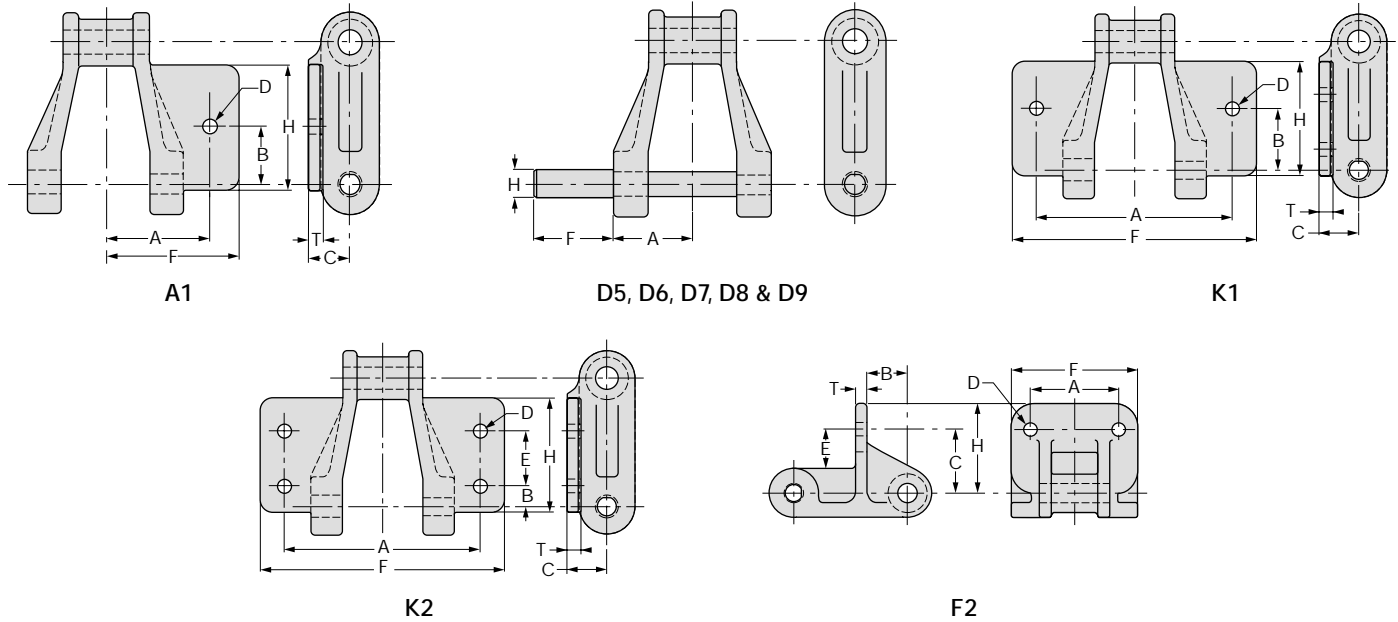
NOTE: The purpose of the table below is to account for cycles of load. This is an important consideration relating to fatigue and is critical to the successful application of chains made from any nonmetallic material.

Ratio of Chain Speed (FPM) to Sprocket Centers (FT)	Rated Working Load – Pounds*			
	NH45	NH77	NH78 & NHT78	NH82
0.1	800	1100	1750	2400
0.1	750	1050	1650	2250
0.5	700	950	1350	2100
1.0	600	800	1100	1700
2.0	500	680	925	1400
5.0	400	540	750	1200
10.0	330	450	650	950

*Working load ratings for Polymeric Chains are established according to chain speed (FPM) and sprocket centers (FT).

POLYMERIC CHAINS – Attachments

STRAIGHT RUNNING CHAINS – ATTACHMENTS



Dimensions are in inches. Strengths, loads and weights are in pounds.

Rex Chain No.	A	B	C	D [ⓐ]		E	F	H	T	Weight	Link Weight W/O Pins Per 100 Pieces	Pin Weight Per 100 Pieces
				Bolt Dia.	Bolt Hole							
A1												
NH45	1.63	.38	.69	1/4	.28	–	2.00	1.47	.19	1.4	9	4.5
NH78	1.94	1.06	.81	1/4	.28	–	2.50	2.31	.25	1.7	25	11.8
NH82	2.13	1.00	.88	1/4	.28	–	2.68	2.25	.31	2.4	44	17.8
D5												
NH45	1.09	–	–	–	–	–	1.50	.31	–	1.1	7	7.7
D6												
NH45	1.09	–	–	–	–	–	1.50	.38	–	1.2	7	9.2
NH77	1.09	–	–	–	–	–	1.50	.38	–	1.3	13	11.2
D7												
NH45	1.09	–	–	–	–	–	1.50	.44	–	1.3	7	10.8
NH78	1.44	–	–	–	–	–	1.50	.44	–	1.7	20	18.2
NH82	1.66	–	–	–	–	–	1.50	.44	–	2.6	43	24.2
D8												
NH45	1.09	–	–	–	–	–	1.50	.50	–	1.5	7	12.8
NH78	1.44	–	–	–	–	–	1.50	.50	–	1.8	20	20.1
NH82	1.66	–	–	–	–	–	1.50	.50	–	2.7	43	26.1
D9												
NH45	1.09	–	–	–	–	–	1.50	.56	–	1.6	7	15.0
NH78	1.44	–	–	–	–	–	1.50	.56	–	1.9	20	22.4
NH82	1.66	–	–	–	–	–	1.50	.56	–	2.8	43	28.3
F2												
NH78	2.03	.94	1.47	1/4	.28	.90	2.90	2.06	.25	1.7	25	11.8
NH822 [ⓑ]	2.22	1.25	1.91	1/4	.28	1.25	3.28	2.50	.38	2.5	46	17.8
K1												
NH45	3.25	.38	.69	1/4	.28	–	4.00	1.47	.19	1.2	12	4.5
NH78	4.00	1.25	.81	1/4	.28	–	5.00	2.31	.25	1.9	30	11.8
NH82	4.25	1.00	.88	1/4	.28	–	5.38	2.25	.31	2.6	49	17.8
K2												
NH45	3.25	–	.69	1/4	.28	.81	4.00	1.47	.19	1.2	12	4.5
NH78	4.00	.41	.81	1/4	.28	1.13	5.00	2.31	.25	1.9	30	11.8
NH82	4.25	.34	.88	1/4	.28	1.31	5.38	2.25	.31	2.6	49	17.8

ⓐ Style of hole: round.

ⓑ Custom bolt-on attachment available – contact Rexnord.

A attachments are available right hand and left hand.

A, F, and K attachments are available blank (no holes), with holes as shown, or as required.

Note: Dimensions are subject to change. Certified dimensions of ordered material are furnished upon request.

■ POLYMERIC CHAIN

DOUBLE FLEX CHAINS

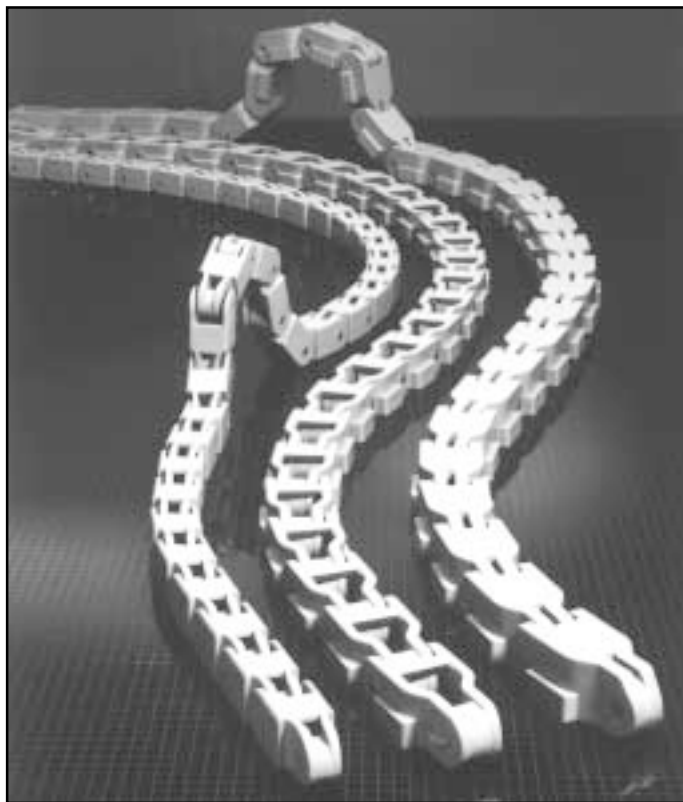
Design Features

The Rex® Polymeric Double Flex Chains are designed for curved or straight unit handling conveyors. The chain will flex in the vertical and horizontal planes.

The chains are made from an exclusive low friction material that has proven itself as long wearing and shock resistant. With a stainless steel pin, the chains will not rust and will resist the same chemicals as acetal thermoplastic. Non-metallic pins are also available, contact Rexnord for details.

The latest technology in chain design has been used to provide the greatest chain strength and wear life at a reasonable cost.

Conveyor operators will appreciate the quiet running chains that reduce daily work area stress. Maintenance people laud the chain's light weight and ease of installation.



FDA and USDA – Chains materials used are in compliance with FDA regulations and guidelines for use in direct food contact. Also, the chain materials have been found chemically acceptable for direct food contact with meat or poultry products by the Product Safety Branch of USDA. Also, the chain designs have been found acceptable for direct contact with meat or poultry products by the Equipment Branch of the Facilities, Equipment, and Sanitation Division of USDA.

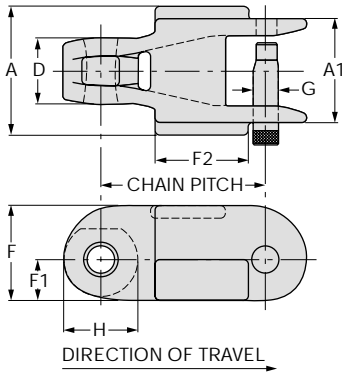
Design Benefits

- **Simple Two Piece Construction** – Pins are easily assembled into links – yet pins will not “work out” or rotate in service. No extra spring pins or cotters to fall out or snag conveyor apparatus.
- **Lightweight** – Less “dead weight” in your conveyor system will extend conveyor component life – longer chain life – longer conveyor “way” life – longer sprocket life – longer bearing life – longer reducer life – longer motor life!
- **Clean** – In normal service, chains will not corrode and contaminate the product. They are easily washed with water during operation, saving both time and money.
- **Easy Maintenance** – Chains are engineered for ease of assembly or disassembly. Since it is lightweight, a 10 foot strand of N325WS weighs 12 pounds, so one person can handle routine maintenance.
- **Operating Range** – Allowable temperature range of Rex polymeric chains is enough to handle most applications, -40°F to +180°F.
- **Completely Interchangeable** – A replacement for metal chains. These chains will run on existing carrying and return “ways.” Chains will not intercouple with metal chains and require proper care with catenary design – consult Rexnord.
- **Low Coefficient of Friction** – Rex chain materials have a very low coefficient of friction. This means less chain load and less energy consumption to convey the same tonnage.
- **Brute Strength** – These chains have the highest possible rated Working Load. This is accomplished through “Balanced Design” of the link and pin. For a comparison to your current chain or for chain recommendations consult Rexnord.
- **Protects Conveyed Material** – The polymeric chains will not damage most products.
- **Quiet Running** – Because of its unique design, these chains are ideal for reducing noise in many applications... make your own test to prove if the noise level is adequate for your needs.

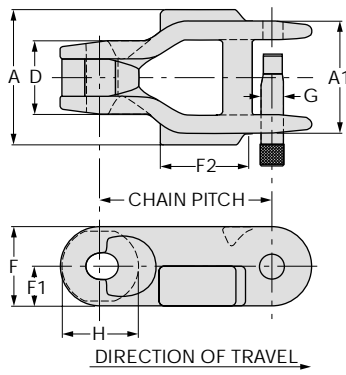
■ POLYMERIC CHAIN

DOUBLE FLEX CHAINS

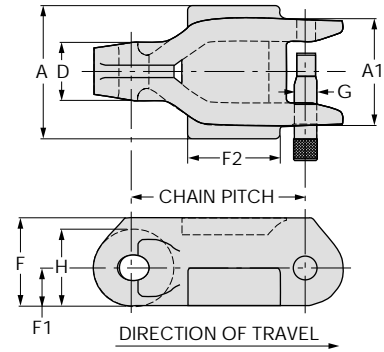
See pages 130-132 for important application information.



N250 (WS)*



N325 (WS)*



N9350 (WS)*

Dimensions are in inches. Weights are in pounds.

Rex Chain No.	Average Pitch	Overall Width		Length of Barrel	Max. Allowable Sprocket Face	Height of Sidebar		Wear Shoe		Diameter of Pin or Rivet	Diameter of Barrel	Minimum Flex Radius	Average Weight	Bottom Sliding Area Including Shoes Sq. Inches Per Foot
		With Wear Shoes	Without Wear Shoes			Height	Length	Height	Length					
		A	A1			D	F	F1	F2					
N250(WS)	2.500	1.94	1.56	1.00	.75	1.44	.63	1.41	.38	1.13	20	0.9	2.1	
N325(WS)	3.268	2.56	2.13	1.38	.63	1.50	.75	1.63	.44	1.44	24	1.2	3.2	
N9350(WS)	3.500	2.66	2.13	1.16	.81	1.75	.75	1.84	.44	1.50	24	1.8	4.2	

* Note: WS version has wear shoes. Chains are normally stocked. Chains travel open end forward. Chains are patented: #4682687
CAUTION: ANY UNUSUAL burrs, ridges or protrusions on sprocket teeth or in conveyor system which would cut into polymeric chains must be removed.

Dimensions are in inches. Weights are in pounds.

Ratio of Chain Speed (FPM) to Sprocket Centers (FT)	Rated Working Load – Pounds*		
	NH250(WS)	NH325(WS)	NH9350(WS)
0.1	800	1500	1875
0.2	750	1500	1875
0.5	700	1250	1565
1.0	600	1030	1290
2.0	500	850	1065
5.0	400	650	815
10.0	330	540	675

*Working load ratings for Polymeric Chains are established according to chain speed (FPM) and sprocket centers (FT).

NOTE: The purpose of the table to the left is to account for cycles of load. This is an important consideration relating to fatigue and is critical to the successful application of chains made from any nonmetallic material.