

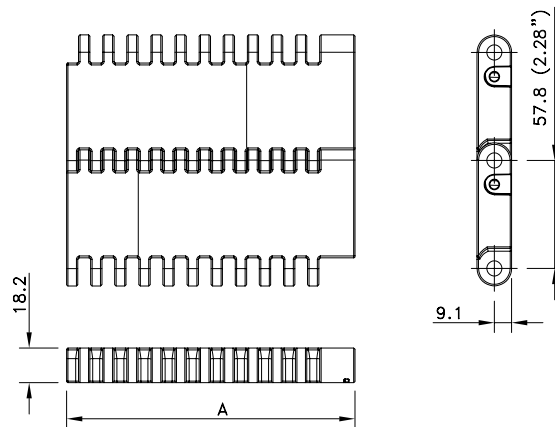
The 6990-Series 2¼-inch pitch heavy-duty MatTop chain is designed for the automotive industry, to be used in long and wide conveyors, without the requirement for tensioning. The 6990 technology is suitable for minimizing the overall conveyor height construction avoiding deep pit constructions. The high load capability of these belts allow the handling of people and cars in assembly lines, water and leak testing and car wash applications. The 6990-series is available in full plastic and in the so called hybrid versions which raise the performance level of plastic modular chains. Conveyors with lengths up to 656 ft (200m) and beyond are realized. The belts are standard supplied in high-performance Acetal with a closed surface or with a (non-skid) safety top surface.

Features

- High load capacity up to 50,000 N/m with standard pins and over 70,000 N/M with PBT Pins.
- Equally divided hinge eyes for higher chain stiffness.
- Long life chain design due to large pin diameter, optimum hinge eye width and proven wear resistant design of the chain underside.
- Easy installation and maintenance in combination with Twist-Lock® pin retention at both sides, which are easy to operate with just a screwdriver and prevent the loss of plugs; self-closing under influence of chain weight.
- Standard available in BSM Acetal and in BYSM with yellow sides for clear moving belt edge safety indication; upon request also available with red sides.
- Superior drive technology also under high loading, due to specific belt pocket and drive sprocket design.
- High strength indented pushers available for car wash and automotive applications.

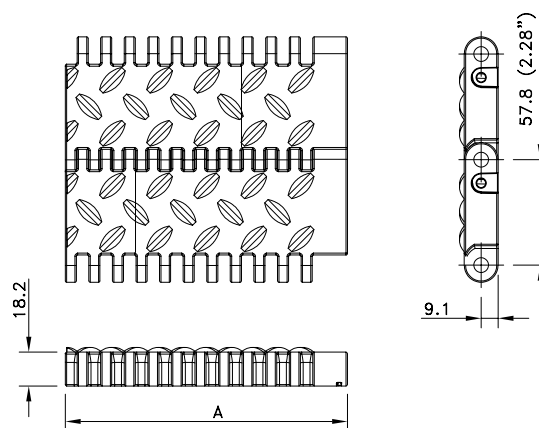
| FEATURES | Rexnord 6990 Series MatTop Chain | Rexnord 6990 Series Hybrid MatTop Chain |
|-----------------------------------|---|---|
| High load capacity | High load distribution up to 50,000 N/m with standard polypropylene pins, over 70,000 N/m with PBT Pins. | Raised performance level for high loads, frequent load variation(people movers). Load distribution over N/m through steel tensions plates and steel pins. |
| Higher chain stiffness | Robust design with equally divided hinge eyes. | Integrated steel structure that creates high stiffness and strength. Smooth running chain eliminating slip-stick or pulsation. Realizing conveyors over 656 ft (200m) in applications moving people, vehicles or combinations. |
| Long life chain design | Large pin diameter. Optimized hinge eye width and proven wear resistant design of the chain underside. | Steel pin and wear plates guarantee extreme wear resistance. |
| Easy installation and maintenance | Twist-Lock® pin retention clips prevent the loss of plugs. Self-closing under influence of chain weight and easy to operate with just a screwdriver. | Twist-LockR pin retention clips prevent the loss of plugs. Self-closing under influence of chain weight and easy to operate with just a screwdriver. |
| Safety | Yellow or red sides for clear moving belt edge safety and belt tact zone indication. Available in flame retardant material. | Yellow or red sides for clear moving belt edge safety and belt tact zone indication. The ESD standard has the lowest surface resistivity of all competitive plastic modular chains (< 10 ¹ Ohms/m ² , NEN-EN-IEC 61340-4-5). Available in flame retardant material. |
| Superior drive technology | Smooth run due to specific belt pocket and drive sprocket design, also under high loading. | H-Style drive sprocket where sprocket tooth are located left and right of the steel Hybrid structure. Limited temperature expansion (only 10% of a plastic equivalent). |
| High strength indented pushers | Standard available for car wash and automotive applications. | Standard available for car wash and automotive applications. |
| Programme | | |
| 6995 Solid Top | Closed surface; suitable for automotive and people moving applications | |
| 6999 Safety Top | Closed non-skid surface; prevents slipping in humid, greasy or wet environments | |
| 6990 Hybrid H8 design | In eight (H8) tension plates per 12 ". The H8 is designed for extreme applications (high loads, increased chain stiffness) that require operation excellence. | |
| Module materials | BSM | Acetal |
| | FR/FRES | Flame retarded, meeting DIN 4102-B1 |
| Belt accessories | T1-inch and T2-inch DIN style automotive pushers. These pushers meet the requirements of the DIN24446 standard. Pushers can be combined with 40mm high side guards. Side guards are available exclusively through selected industry channels. | |
| Sprockets | The machined sprockets can be supplied in many sizes in plastic or stainless steel; 6990 -9 sprockets up to 14 teeth and 6990 Hybrid sprockets (9 up to 30 teeth). | |

Solid Top 6995



| Assembly | Belt Type | Code Number* | Temperature range °C | | Working Load (max.) | Weight | Backflex Radius (min.) |
|--|-----------|--------------|----------------------|----------|---------------------|-------------------|------------------------|
| | | | Dry | Wet | | | |
| | | | | | N/m (21°C) | kg/m ² | mm |
| BSM-Acetal With Polypropylene Pins | | | | | | | |
| Standard | BSM 6995 | I6995BSMKxx | 4 to +80 | 4 to +65 | 51000 | 14.65 | 63.5 |
| BYSM-Acetal With Polypropylene Pins | | | | | | | |
| Standard | BYSM 6995 | I6995BYSMKxx | 4 to +80 | 4 to +65 | 51000 | 14.65 | 63.5 |

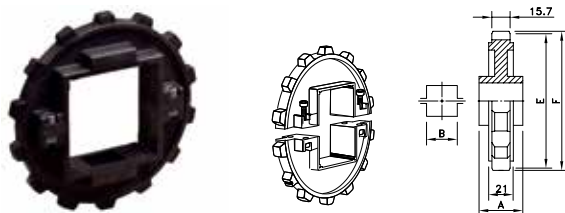
Safety Top 6999



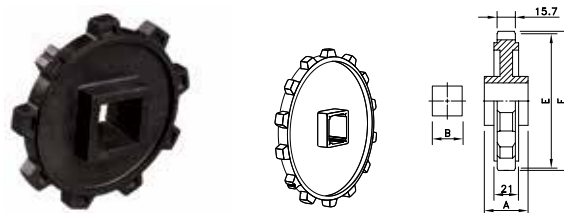
| Assembly | Belt Type | Code Number* | Temperature range °C | | Working Load (max.) | Weight | Backflex Radius (min.) |
|--|-----------|--------------|----------------------|----------|---------------------|-------------------|------------------------|
| | | | Dry | Wet | | | |
| | | | | | N/m (21°C) | kg/m ² | mm |
| BSM-Acetal With Polypropylene Pins | | | | | | | |
| Standard | BSM 6999 | I6999BSMKxx | 4 to +80 | 4 to +65 | 51000 | 14.65 | 63.5 |
| BYSM-Acetal with Polypropylene Pins | | | | | | | |
| Standard | BYSM 6999 | I6999BYSMKxx | 4 to +80 | 4 to +65 | 51000 | 14.65 | 63.5 |

* In code numbers xx corresponds with the belt width (A). Standard widths of these belts begin at 9" with 6" increments up to 190"; special widths begin at 5" with ½" increments. See also page 223.

Split Sprockets



Classic Sprockets



| Sprocket Type | Code Number | Number of Teeth | Bore | Pitch Diameter | Outside Diameter | Hub Width |
|---------------|-------------|-----------------|--------------|----------------|------------------|-----------|
| | | | B mm/inch | E mm | F mm | A mm |

Split Sprockets

Square Bores

| Square Datas | | | | | | |
|-----------------------|----------|----|-----|-------|-------|----|
| NS5996-9T_90MM_S_PA | 10027448 | 9 | 90 | 167.1 | 164.1 | 48 |
| NS5996-12T_90MM_S_PA | 10027449 | 12 | 90 | 220.8 | 221.0 | |
| NS5996-14T_90MM_S_PA | 10028558 | 14 | 90 | 256.8 | 256.5 | |
| NS5996-14T_120MM_S_PA | 10131451 | 14 | 120 | | | |

Classic Sprockets

Square Bores

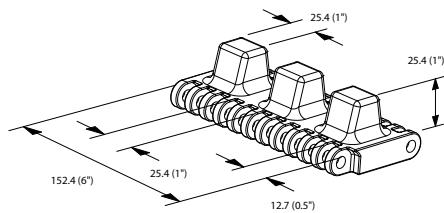
| | | | | | | |
|---------------------|----------|----|----|-------|-------|----|
| Square Drive | | | | | | |
| N5996-7T_40MM_S_POM | 10013574 | 7 | 40 | 131.7 | 125.5 | 48 |
| N5996-9T_40MM_S_HS | 10012700 | 9 | 40 | 167.1 | 164.1 | |
| N5996-9T_50MM_S_HS | 10071980 | 9 | 50 | | | |
| N5996-9T_65MM_S_HS | 10070046 | 9 | 65 | | | |
| N5996-14T_50MM_S_HS | 10070602 | 14 | 50 | 256.8 | 256.5 | |
| N5996-14T_65MM_S_HS | 10069276 | 14 | 65 | | | |
| N5996-14T_90MM_S_HS | 10012489 | 14 | 90 | | | |

HS suitable for hot and humid applications.

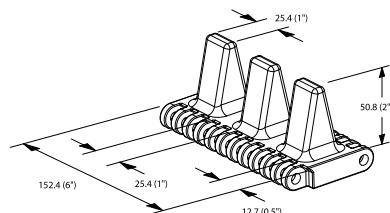
Accessory:



DIN Style Pusher 6990



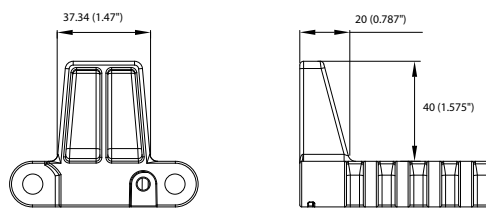
T1 Dimensions



T2 Dimensions

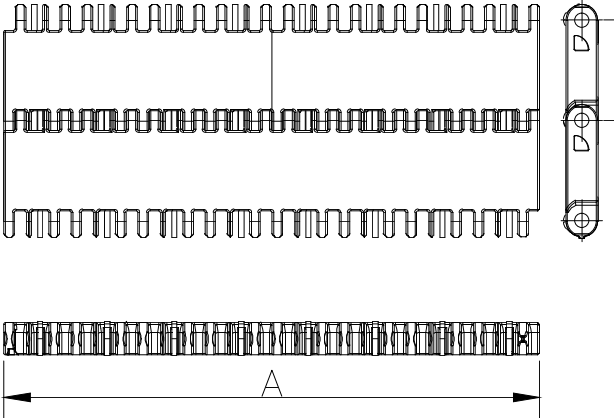


DIN Style Sideguard 6990



H40 Dimensions

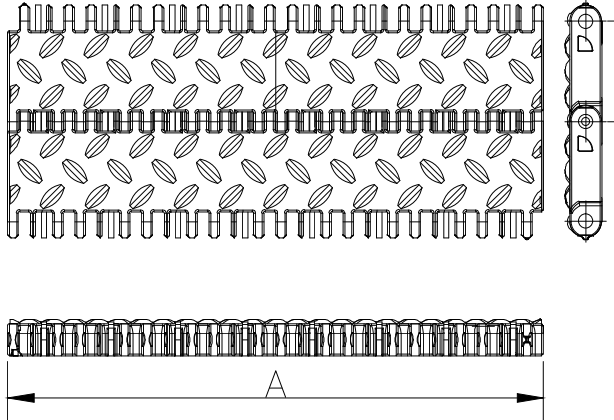
Solid Top 6995 H8



| Chain Type | Code Number | Working Load (max) | Weight | Backflex Radius (min) | Certification |
|------------|--------------|--------------------|-----------------|-----------------------|----------------------|
| | | lbs/ft / N/m | Lbs/ft2 / kg/m2 | in / mm | |
| BM | | | | | |
| BSM6995H8 | I6995H8BMKxx | 11.645 / 170.000 | 6.2 / 30.2 | 1.75 / 45 | NEN-EN-IEC 61340-4-5 |

Kxx indicated the chain width (K12, K14,.....K228). BM Chain width available starting at 12-inches (306 mm) up to 234,9 inch (5967 mm) actual width with increments of 3 inches (76,5 mm).

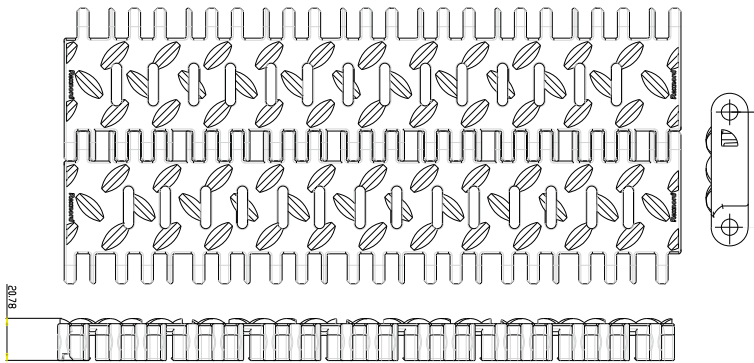
Safety Top 6999 H8



| Chain Type | Code Number | Working Load (max) | | Weight | | Backflex Radius (min) | | Certification |
|------------|--------------|--------------------|---------|---------|-------|-----------------------|----|----------------------|
| | | lbs/ft | N/m | Lbs/ft2 | kg/m2 | in | mm | |
| BM | | | | | | | | |
| BSM6999H8 | I6999H8BMKxx | 11.645 | 170.000 | 6.3 | 30.6 | 1.75 | 45 | NEN-EN-IEC 61340-4-5 |

Kxx indicated the chain width (K12, K14,.....K228). BM Chain width available starting at 12-inches (306 mm) up to 234,9 inch (5967 mm) actual width with increments of 3 inches (76,5 mm).

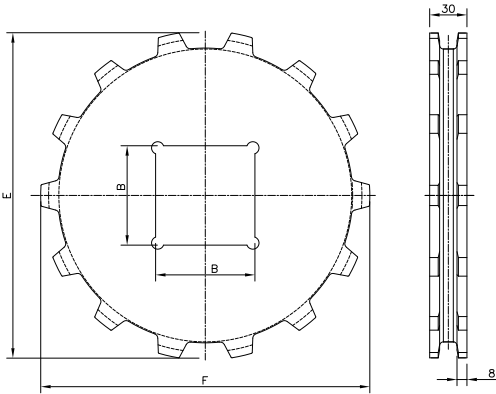
Perforated Top 6992 HYB H8



| Chain Type | Code Number | Working Load (max) | | Weight | | Backflex Radius (min) | | Certification |
|--------------------------------|--------------|--------------------|---------|---------|-------|-----------------------|------|----------------------|
| | | lbs/ft | N/m | Lbs/ft2 | kg/m2 | in | mm | |
| BM - With Stainless Steel Pins | | | | | | | | |
| BSM6999H8 | I6999H8BMKxx | 6.850 | 100.000 | 5.2 | 25.4 | 3.00 | 76.2 | NEN-EN-IEC 61340-4-5 |

Kxx indicated the chain width (K12, K14,.....K228). BM Chain width available starting at 12-inches (306 mm) up to 234,9 inch (5967 mm) actual width with increments of 3 inches (76,5 mm).

KU6990 Hybrid



| Sprocket Description | Number Of Teeth | Pitch Circle Diameter | Maximum Square Bore Size | Hub Width |
|----------------------|-----------------|-----------------------|--------------------------|-----------|
| | | inch / mm | inch / mm | inch / mm |
| Solid | | | | |
| KU6990 Hybrid T19 | 19 | 350,86 | 200 | 32 |
| Split | | | | |
| KUS6990 Hybrid T19 | 19 | 350,86 | 200 | 32 |

Other bore sizes, teeth and round bores are available on request. Please consult our technical support department for more information.