





*When You're About to Brake, Rest Assured We'll Stop You!*

A large, chrome semi-truck is shown from a front-quarter perspective, parked on a dark road. The truck's headlights are on, and its chrome surfaces reflect the vibrant colors of a sunset sky, which transitions from deep blue at the top to bright orange and yellow near the horizon. The truck's grille and bumper are prominent in the foreground.

**BRAKE  
CATALOGUE  
2020**

*Quality Heavy Duty Brake Re-Manufacturer For Over 30 Years*

	<p>Product Class: <b>20K STANDARD</b></p> <p>A/L Factor: <b>165 AL</b></p> <p>Axle Rating: <b>UP TO 20,000 LBS</b></p>	<p>FP-STD20 is a mid , medium friction which provides outstanding stopping power. Its durable friction and resistance to fade make FP-STD20 a great choice for the price concious customer, producing a brake lining suitable for long haul and standard freight applications. Utilizing mineral and glass fibers, FP-STD20 consistently delivers outstanding stopping power, great lining life, and low drum wear. This material is an outstanding replacement for most standard and economy friction products and will provide most fleets with reduced costs without sacrificing safety.</p>	<p><b>FP-STD20</b></p>
	<p>Product Class: <b>20K PREMIUM</b></p> <p>A/L Factor: <b>165 AL</b></p> <p>Axle Rating: <b>UP TO 20,000 LBS</b></p>	<p>FP-PREM20 is a medium to high level friction design which provides outstanding stopping power. Its durable friction and resistance to fade make FP-PREM20 a premium brake lining, suitable for long haul and standard freight applications. Utilizing ceramic, mineral, and glass fibers, FP-PREM20 consistently delivers outstanding stopping power, great lining life, and low drum wear. This lining will provide most fleets with reduced costs per mile without sacrificing safety.</p>	<p><b>FP-PREM20</b></p>
	<p>Product Class: <b>23K STANDARD</b></p> <p>A/L Factor: <b>165 AL</b></p> <p>Axle Rating: <b>UP TO 23,000 LBS</b></p>	<p>FP-STD23 is a medium to high level friction design which provides outstanding stopping power. Its durable friction and resistance to fade make FP-STD23 a brake lining suitable for long haul, heavier loads, and moderate to rough terrain applications where a lower cost option is desired. Utilizing mineral, acrylic, and glass fibers, FP-STD23 consistently delivers outstanding stopping power, great lining life, and low drum wear for fleets requiring a lower cost 23K material.</p>	<p><b>FP-STD23</b></p>
	<p>Product Class: <b>23K PREMIUM</b></p> <p>A/L Factor: <b>165 AL</b></p> <p>Axle Rating: <b>UP TO 23,000 LBS</b></p>	<p>FP-PREM23 is a medium to high level friction design which provides outstanding stopping power. Its durable friction and resistance to fade make FP-PREM23 a premium brake lining, suitable for long haul heavier loads and moderate to rough terrain applications. Utilizing ceramic, mineral, and glass fibers, FP-PREM23 consistently delivers outstanding stopping power, great lining life, and low drum wear for fleets requiring a 23K material.</p>	<p><b>FP-PREM23</b></p>
	<p>Product Class: <b>23K HD PREMIUM</b></p> <p>A/L Factor: <b>165 AL</b></p> <p>Axle Rating: <b>UP TO 23,000 LBS</b></p>	<p>FP-HDP23 is a high level friction design which provides outstanding stopping power. Its durable friction and resistance to fade make FP-HDP23 a premium brake lining, suitable for long haul heavier loads and moderate to rough terrain applications. Utilizing ceramic, mineral, steel and glass fibers, FP-HDP23 consistently delivers outstanding stopping power, great lining life, and low drum wear for fleets requiring a 23K material. An outstanding replacement for most OEM 23K premium frictions.</p>	<p><b>FP-HDP23</b></p>
	<p>Product Class: <b>23K HD SUPREME</b></p> <p>A/L Factor: <b>165 AL</b></p> <p>Axle Rating: <b>23,000 - 26,000 LBS</b></p>	<p>FP-SUP23 is a high level, high performance friction design which provides outstanding stopping power. Its durable friction and resistance to fade make FP-SUP23 an ultra premium brake lining, suitable for heavier loads, refuse, rough terrain and other severe duty applications. Utilizing ARAMID (Kevlar) fibers, FP-SUP23 consistently delivers outstanding stopping power, great lining life and low drum wear for fleets requiring a high temperature, high performance material.</p>	<p><b>FP-SUP23</b></p>
	<p>Product Class: <b>25K SEVERE</b></p> <p>A/L Factor: <b>165 AL</b></p> <p>Axle Rating: <b>UP TO 25,000 LBS</b></p>	<p>FP-SEV25 is a high level, high performance combination friction design which provides outstanding stopping power. Its ability to handle high temperatures and its resistance to fade make FP-SEV25 an ultra premium brake lining, suitable for heavier loads, refuse, log hauling, rough terrain, and other severe duty applications. Utilizing a metallic cam block and an organic anchor block, FP-SEV25 consistently delivers outstanding stopping power, great lining life, and low drum wear for fleets requiring a high temperature, high performance material.</p>	<p><b>FP-SEV25</b></p>
	<p>Product Class: <b>29K SEVERE</b></p> <p>A/L Factor: <b>165 AL</b></p> <p>Axle Rating: <b>23,000 to 28,700 LBS</b></p>	<p>FP-SEV29 is a 23-29K, 165AL, high level, high performance friction design utilizing aramid (Kevlar) fibers and the revolutionary approach known as TRANSFER FILM TECHNOLOGY. Under braking, graphite and other chemicals bleed out of the friction and coat the drum with a 1 or 2 microns thick film. Rather than a mechanical action between the lining and drum, the friction is generated by cohesive forces between two like surfaces producing: Better lining/drum contact through greater conformability, • Creates a more durable friction co-efficient at all temperatures • Consistently lower average temperature throughout cycles • Reduced noise, drum scoring, and vibrations • Significantly longer lining life with less drum wear</p>	<p><b>FP-SEV29</b></p>

## 1308E 15"x4"



Diameter 15.0"  
 Table Width 4.0"  
 Axle Style Eaton  
 Replaces Euclid# E-5126  
 Hardware Kit 100.1308.30  
 Rivet Count 14

AXLE RATING (LBS.)	SHOE NO.	WHEEL KIT #	LINING	HARDWARE KIT	EUCLID HWK
20K	1308E	FP1308EQC-STD20	20K MID-GRADE	100.1308.30	E-5139
20K	1308E	FP1308EQC-PREM20	20K PREMIUM-GRADE	100.1308.30	E-5139
23K	1308E	FP1308EQC-STD23	23K MID-GRADE	100.1308.30	E-5139
23K	1308E	FP1308EQC-PREM23	23K PREMIUM-GRADE	100.1308.30	E-5139
23K	1308E	FP1308EQC-HDP23	23K HD PREMIUM-GRADE	100.1308.30	E-5139

## 1308Q 15"x4"



Diameter 15.0"  
 Table Width 4.0"  
 Axle Style Meritor  
 Replaces Euclid# E-5528  
 Hardware Kit 100.1308.10  
 Rivet Count 14

AXLE RATING (LBS.)	SHOE NO.	WHEEL KIT #	LINING	HARDWARE KIT	EUCLID HWK
20K	1308Q	FP1308EQC-STD20	20K MID-GRADE	100.1308.10	E-3869
20K	1308Q	FP1308EQC-PREM20	20K PREMIUM-GRADE	100.1308.10	E-3869
23K	1308Q	FP1308EQC-STD23	23K MID-GRADE	100.1308.10	E-3869
23K	1308Q	FP1308EQC-PREM23	23K PREMIUM-GRADE	100.1308.10	E-3869
23K	1308Q	FP1308EQC-HDP23	23K HD PREMIUM-GRADE	100.1308.10	E-3869

## 1443ES 15"x4"



Diameter 15.0"  
 Table Width 4.0"  
 Axle Style Eaton  
 Replaces Euclid# E-9027  
 Hardware Kit 100.1308.30  
 Rivet Count 14

AXLE RATING (LBS.)	SHOE NO.	WHEEL KIT #	LINING	HARDWARE KIT	EUCLID HWK
20K	1443E	FP1443ES-STD20	20K MID-GRADE	100.1308.30	E-5139
20K	1443E	FP1443ES-PREM20	20K PREMIUM-GRADE	100.1308.30	E-5139
23K	1443E	FP1443ES-STD23	23K MID-GRADE	100.1308.30	E-5139
23K	1443E	FP1443ES-PREM23	23K PREMIUM-GRADE	100.1308.30	E-5139
23K	1443E	FP1443ES-HDP23	23K HD PREMIUM-GRADE	100.1308.30	E-5139

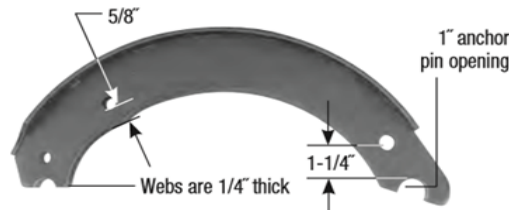
## 4311 16-1/2"x7"



Diameter	16.5"
Table Width	7.0"
Axle Style	Eaton
Replaces Euclid#	E-1778
Hardware Kit	100.4311.10
Rivet Count	28

AXLE RATING (LBS.)	SHOE NO.	WHEEL KIT #	LINING	HARDWARE KIT	EUCLID HWK
20K	4311	FP4311E-STD20	20K MID-GRADE	100.4311.10	E-1887AHD
20K	4311	FP4311E-PREM20	20K PREMIUM-GRADE	100.4311.10	E-1887AHD
23K	4311	FP4311E-STD23	23K MID-GRADE	100.4311.10	E-1887AHD
23K	4311	FP4311E-PREM23	23K PREMIUM-GRADE	100.4311.10	E-1887AHD
23K	4311	FP4311E-HDP23	23K HD PREMIUM-GRADE	100.4311.10	E-1887AHD
23K	4311	FP4311E-SUP23	23K HD SUPERIOR-GRADE	100.4311.10	E-1887AHD
25K	4311	FP4311E-SEV25	25K SEVERE-GRADE	100.4311.10	E-1887AHD
29K	4311	FP4311E-SEV29	29K SEVERE-GRADE	100.4311.10	E-1887AHD

## 4514Q 16-1/2"x6"



Diameter	16.5"
Table Width	6.0"
Axle Style	Meritor Dana Hendrickson
Replaces Euclid#	E-3304
Hardware Kit	100.4515.22
Rivet Count	24

AXLE RATING (LBS.)	SHOE NO.	WHEEL KIT #	LINING	HARDWARE KIT	EUCLID HWK
20K	4514Q	FP4514Q-STD20	20K MID-GRADE	100.4515.22	E-2769SHD
20K	4514Q	FP4514Q-PREM20	20K PREMIUM-GRADE	100.4515.22	E-2769SHD
23K	4514Q	FP4514Q-STD23	23K MID-GRADE	100.4515.22	E-2769SHD
23K	4514Q	FP4514Q-PREM23	23K PREMIUM-GRADE	100.4515.22	E-2769SHD
23K	4514Q	FP4514Q-HDP23	23K HD PREMIUM-GRADE	100.4515.22	E-2769SHD
23K	4514Q	FP4514Q-SUP23	23K HD SUPERIOR-GRADE	100.4515.22	E-2769SHD
25K	4514Q	FP4514Q-SEV25	25K SEVERE-GRADE	100.4515.22	E-2769SHD
29K	4514Q	FP4514Q-SEV29	29K SEVERE-GRADE	100.4515.22	E-2769SHD

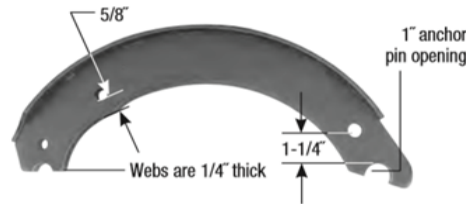
## 4514QHM - MACK 16-1/2"x6"



Diameter	16.5"
Table Width	6.0"
Axle Style	Mack
Replaces Euclid#	E-9780
Hardware Kit	100.4524.10; 100.4524.11
Rivet Count	24

AXLE RATING (LBS.)	SHOE NO.	WHEEL KIT #	LINING	HARDWARE KIT	EUCLID HWK
20K	4514QM	FP4514QM-STD20	20K MID-GRADE	100.4524.10; 100.4524.11	E-3858/E-9644
20K	4514QM	FP4514QM-PREM20	20K PREMIUM-GRADE	100.4524.10; 100.4524.11	E-3858/E-9644
23K	4514QM	FP4514QM-STD23	23K MID-GRADE	100.4524.10; 100.4524.11	E-3858/E-9644
23K	4514QM	FP4514QM-PREM23	23K PREMIUM-GRADE	100.4524.10; 100.4524.11	E-3858/E-9644
23K	4514QM	FP4514QM-HDP23	23K HD PREMIUM-GRADE	100.4524.10; 100.4524.11	E-3858/E-9644
23K	4514QM	FP4514QM-SUP23	23K HD SUPERIOR-GRADE	100.4524.10; 100.4524.11	E-3858/E-9644
25K	4514QM	FP4514QM-SEV25	25K SEVERE-GRADE	100.4524.10; 100.4524.11	E-3858/E-9644
29K	4514QM	FP4514QM-SEV29	29K SEVERE-GRADE	100.4524.10; 100.4524.11	E-3858/E-9644

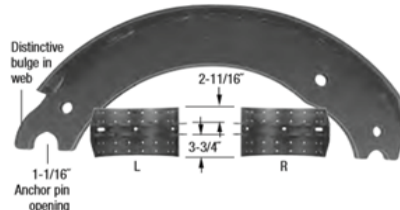
## 4515Q 16 1/2" x 7"



Diameter	16.5"
Table Width	7.0"
Axle Style	Meritor
Replaces Euclid#	E-2778
Hardware Kit	100.4515.22
Rivet Count	32

AXLE RATING (LBS.)	SHOE NO.	WHEEL KIT #	LINING	HARDWARE KIT	EUCLID HWK
20K	4515Q	FP4515Q-STD20	20K MID-GRADE	100.4515.22	E-2769SHD
20K	4515Q	FP4515Q-PREM20	20K PREMIUM-GRADE	100.4515.22	E-2769SHD
23K	4515Q	FP4515Q-STD23	23K MID-GRADE	100.4515.22	E-2769SHD
23K	4515Q	FP4515Q-PREM23	23K PREMIUM-GRADE	100.4515.22	E-2769SHD
23K	4515Q	FP4515Q-HDP23	23K HD PREMIUM-GRADE	100.4515.22	E-2769SHD
23K	4515Q	FP4515Q-SUP23	23K HD SUPERIOR-GRADE	100.4515.22	E-2769SHD
25K	4515Q	FP4515Q-SEV25	25K SEVERE-GRADE	100.4515.22	E-2769SHD
29K	4515Q	FP4515Q-SEV29	29K SEVERE-GRADE	100.4515.22	E-2769SHD

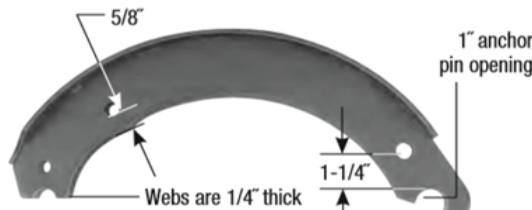
## 4515F 16 1/2" x 7"



Diameter	16.5"
Table Width	7.0"
Axle Style	Fruehauf
Replaces Euclid#	E-3920
Hardware Kit	100.4515.30
Rivet Count	32

AXLE RATING (LBS.)	SHOE NO.	WHEEL KIT #	LINING	HARDWARE KIT	EUCLID HWK
20K	4515F	FP4515F-STD20	20K MID-GRADE	100.4515.30	E-3710HD
20K	4515F	FP4515F-PREM20	20K PREMIUM-GRADE	100.4515.30	E-3710HD
23K	4515F	FP4515F-STD23	23K MID-GRADE	100.4515.30	E-3710HD
23K	4515F	FP4515F-PREM23	23K PREMIUM-GRADE	100.4515.30	E-3710HD
23K	4515F	FP4515F-HDP23	23K HD PREMIUM-GRADE	100.4515.30	E-3710HD
23K	4515F	FP4515F-SUP23	23K HD SUPERIOR-GRADE	100.4515.30	E-3710HD
25K	4515F	FP4515F-SEV25	25K SEVERE-GRADE	100.4515.30	E-3710HD
29K	4515F	FP4515F-SEV29	29K SEVERE-GRADE	100.4515.30	E-3710HD

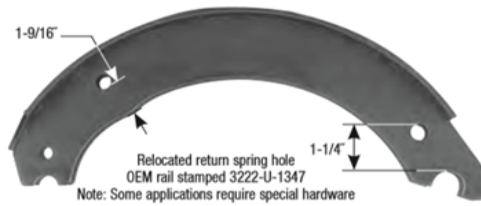
## 4524Q 16 1/2" x 5"



Diameter	16.5"
Table Width	5.0"
Axle Style	Meritor
Replaces Euclid#	E-3303
Hardware Kit	100.4515.30
Rivet Count	16

AXLE RATING (LBS.)	SHOE NO.	WHEEL KIT #	LINING	HARDWARE KIT	EUCLID HWK
20K	4524Q	FP4524Q-STD20	20K MID-GRADE	100.4515.22	E-2769SHD
20K	4524Q	FP4524Q-PREM20	20K PREMIUM-GRADE	100.4515.22	E-2769SHD
23K	4524Q	FP4524Q-STD23	23K MID-GRADE	100.4515.22	E-2769SHD
23K	4524Q	FP4524Q-PREM23	23K PREMIUM-GRADE	100.4515.22	E-2769SHD
23K	4524Q	FP4524Q-HDP23	23K HD PREMIUM-GRADE	100.4515.22	E-2769SHD
23K	4524Q	FP4524Q-SUP23	23K HD SUPERIOR-GRADE	100.4515.22	E-2769SHD
25K	4524Q	FP4524Q-SEV25	25K SEVERE-GRADE	100.4515.22	E-2769SHD
29K	4524Q	FP4524Q-SEV29	29K SEVERE-GRADE	100.4515.22	E-2769SHD

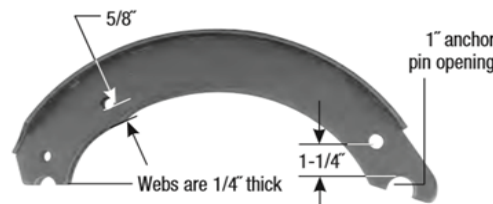
## 4524QH-MACK 16 1/2" x 5"



Diameter	16.5"
Table Width	5.0"
Axle Style	Meritor Mack
Replaces Euclid#	E-3823
Hardware Kit	100.4515.30
Rivet Count	32

AXLE RATING (LBS.)	SHOE NO.	WHEEL KIT #	LINING	HARDWARE KIT	EUCLID HWK
20K	4524QM	FP4524QM-STD20	20K MID-GRADE	100.4524.10; 100.4524.11	E-3858/E-9644
20K	4524QM	FP4524QM-PREM20	20K PREMIUM-GRADE	100.4524.10; 100.4524.11	E-3858/E-9644
23K	4524QM	FP4524QM-STD23	23K MID-GRADE	100.4524.10; 100.4524.11	E-3858/E-9644
23K	4524QM	FP4524QM-PREM23	23K PREMIUM-GRADE	100.4524.10; 100.4524.11	E-3858/E-9644
23K	4524QM	FP4524QM-HDP23	23K HD PREMIUM-GRADE	100.4524.10; 100.4524.11	E-3858/E-9644
23K	4524QM	FP4524QM-SUP23	23K HD SUPERIOR-GRADE	100.4524.10; 100.4524.11	E-3858/E-9644
25K	4524QM	FP4524QM-SEV25	25K SEVERE-GRADE	100.4524.10; 100.4524.11	E-3858/E-9644
29K	4524QM	FP4524QM-SEV29	29K SEVERE-GRADE	100.4524.10; 100.4524.11	E-3858/E-9644

## 4551Q 16 1/2" x 8.625"



Diameter	16.5"
Table Width	5.0"
Axle Style	Meritor Dana Hendrickson
Replaces Euclid#	E-3522
Hardware Kit	100.4515.22
Rivet Count	32

AXLE RATING (LBS.)	SHOE NO.	WHEEL KIT #	LINING	HARDWARE KIT	EUCLID HWK
20K	4551Q	FP4551Q-STD20	20K MID-GRADE	100.4515.22	E-2769SHD
20K	4551Q	FP4551Q-PREM20	20K PREMIUM-GRADE	100.4515.22	E-2769SHD
23K	4551Q	FP4551Q-STD23	23K MID-GRADE	100.4515.22	E-2769SHD
23K	4551Q	FP4551Q-PREM23	23K PREMIUM-GRADE	100.4515.22	E-2769SHD
23K	4551Q	FP4551Q-HDP23	23K HD PREMIUM-GRADE	100.4515.22	E-2769SHD
23K	4551Q	FP4551Q-SUP23	23K HD SUPERIOR-GRADE	100.4515.22	E-2769SHD
25K	4551Q	FP4551Q-SEV25	25K SEVERE-GRADE	100.4515.22	E-2769SHD
29K	4551Q	FP4551Q-SEV29	29K SEVERE-GRADE	100.4515.22	E-2769SHD

## 4670Q 12 1/4" x 7.5"



Diameter	12.25"
Table Width	7.5"
Axle Style	Meritor
Replaces Euclid#	E-3491
Hardware Kit	100.4670.10
Rivet Count	20

AXLE RATING (LBS.)	SHOE NO.	WHEEL KIT #	LINING	HARDWARE KIT	EUCLID HWK
20K	4670Q	FP4670Q-STD20	20K MID-GRADE	100.4670.10	E-3484
20K	4670Q	FP4670Q-PREM20	20K PREMIUM-GRADE	100.4670.10	E-3484
23K	4670Q	FP4670Q-STD23	23K MID-GRADE	100.4670.10	E-3484
23K	4670Q	FP4670Q-PREM23	23K PREMIUM-GRADE	100.4670.10	E-3484
23K	4670Q	FP4670Q-HDP23	23K HD PREMIUM-GRADE	100.4670.10	E-3484
23K	4670Q	FP4670Q-SUP23	23K HD SUPERIOR-GRADE	100.4670.10	E-3484
25K	4670Q	FP4670Q-SEV25	25K SEVERE-GRADE	100.4670.10	E-3484
29K	4670Q	FP4670Q-SEV29	29K SEVERE-GRADE	100.4670.10	E-3484

## 4692N 12 1/4" x 7.5"



Notch for hold down spring

**Diameter** 12.25"  
**Table Width** 7.5"  
**Axle Style** Dana Spicer  
**Replaces Euclid#** E-10763  
**Hardware Kit** 100.4692.10 / 100.4692.11  
**Rivet Count** 20

AXLE RATING (LBS.)	SHOE NO.	WHEEL KIT #	LINING	HARDWARE KIT	EUCLID HWK
20K	4692N	FP4692N-STD20	20K MID-GRADE	100.4692.10 / 100.4692.11	E-3782 / E9283
20K	4692N	FP4692N-PREM20	20K PREMIUM-GRADE	100.4692.10 / 100.4692.11	E-3782 / E9283
23K	4692N	FP4692N-STD23	23K MID-GRADE	100.4692.10 / 100.4692.11	E-3782 / E9283
23K	4692N	FP4692N-PREM23	23K PREMIUM-GRADE	100.4692.10 / 100.4692.11	E-3782 / E9283
23K	4692N	FP4692N-HDP23	23K HD PREMIUM-GRADE	100.4692.10 / 100.4692.11	E-3782 / E9283
23K	4692N	FP4692N-SUP23	23K HD SUPERIOR-GRADE	100.4692.10 / 100.4692.11	E-3782 / E9283
25K	4692N	FP4692N-SEV25	25K SEVERE-GRADE	100.4692.10 / 100.4692.11	E-3782 / E9283
29K	4692N	FP4692N-SEV29	29K SEVERE-GRADE	100.4692.10 / 100.4692.11	E-3782 / E9283

## 4692NN 12 1/4" x 7.5"



**Diameter** 12.25"  
**Table Width** 7.5"  
**Axle Style** Dana Spicer  
**Replaces Euclid#** E-10763  
**Hardware Kit** 100.4692.14 / 100.4692.15  
**Rivet Count** 20

AXLE RATING (LBS.)	SHOE NO.	WHEEL KIT #	LINING	HARDWARE KIT	EUCLID HWK
20K	4692NN	FP4692NN-STD20	20K MID-GRADE	100.4692.14 / 100.4692.15	E9281 / E10756
20K	4692NN	FP4692NN-PREM20	20K PREMIUM-GRADE	100.4692.14 / 100.4692.15	E9281 / E10756
23K	4692NN	FP4692NN-STD23	23K MID-GRADE	100.4692.14 / 100.4692.15	E9281 / E10756
23K	4692NN	FP4692NN-PREM23	23K PREMIUM-GRADE	100.4692.14 / 100.4692.15	E9281 / E10756
23K	4692NN	FP4692NN-HDP23	23K HD PREMIUM-GRADE	100.4692.14 / 100.4692.15	E9281 / E10756
23K	4692NN	FP4692NN-SUP23	23K HD SUPERIOR-GRADE	100.4692.14 / 100.4692.15	E9281 / E10756
25K	4692NN	FP4692NN-SEV25	25K SEVERE-GRADE	100.4692.14 / 100.4692.15	E9281 / E10756
29K	4692NN	FP4692NN-SEV29	29K SEVERE-GRADE	100.4692.14 / 100.4692.15	E9281 / E10756

## 4702QP 15" x 4"



Q+ stamped in rail on OE shoe

**Diameter** 15.0"  
**Table Width** 4.0"  
**Axle Style** Meritor Mack  
**Replaces Euclid#** E-9062  
**Hardware Kit** 100.4515.22  
**Rivet Count** 16

AXLE RATING (LBS.)	SHOE NO.	WHEEL KIT #	LINING	HARDWARE KIT	EUCLID HWK
20K	4702QP	FP4702QP-STD20	20K MID-GRADE	100.4702.10	E-9064
20K	4702QP	FP4702QP-PREM20	20K PREMIUM-GRADE	100.4702.10	E-9064
23K	4702QP	FP4702QP-STD23	23K MID-GRADE	100.4702.10	E-9064
23K	4702QP	FP4702QP-PREM23	23K PREMIUM-GRADE	100.4702.10	E-9064
23K	4702QP	FP4702QP-HDP23	23K HD PREMIUM-GRADE	100.4702.10	E-9064
23K	4702QP	FP4702QP-SUP23	23K HD SUPERIOR-GRADE	100.4702.10	E-9064
25K	4702QP	FP4702QP-SEV25	25K SEVERE-GRADE	100.4702.10	E-9064
29K	4702QP	FP4702QP-SEV29	29K SEVERE-GRADE	100.4702.10	E-9064

## 4703QP 15"x5"



**Diameter** 15.0"  
**Table Width** 5.0"  
**Axle Style** Meritor  
**Replaces Euclid#** E-11453  
**Hardware Kit** 100.4702.10  
**Rivet Count** 16

AXLE RATING (LBS.)	SHOE NO.	WHEEL KIT #	LINING	HARDWARE KIT	EUCLID HWK
20K	4703QP	FP4703QP-STD20	20K MID-GRADE	100.4702.10	E-9064
20K	4703QP	FP4703QP-PREM20	20K PREMIUM-GRADE	100.4702.10	E-9064
23K	4703QP	FP4703QP-STD23	23K MID-GRADE	100.4702.10	E-9064
23K	4703QP	FP4703QP-PREM23	23K PREMIUM-GRADE	100.4702.10	E-9064
23K	4703QP	FP4703QP-HDP23	23K HD PREMIUM-GRADE	100.4702.10	E-9064
23K	4703QP	FP4703QP-SUP23	23K HD SUPERIOR-GRADE	100.4702.10	E-9064
25K	4703QP	FP4703QP-SEV25	25K SEVERE-GRADE	100.4702.10	E-9064
29K	4703QP	FP4703QP-SEV29	29K SEVERE-GRADE	100.4702.10	E-9064

## 4707QP 16.5"x7"



**Diameter** 16.5"  
**Table Width** 7.0"  
**Axle Style** Meritor  
**Replaces Euclid#** E-2778  
**Hardware Kit** 100.4515.22  
**Rivet Count** 28

AXLE RATING (LBS.)	SHOE NO.	WHEEL KIT #	LINING	HARDWARE KIT	EUCLID HWK
20K	4707QP	FP4707QP-STD20	20K MID-GRADE	100.4515.22	E-2769SHD
20K	4707QP	FP4707QP-PREM20	20K PREMIUM-GRADE	100.4515.22	E-2769SHD
23K	4707QP	FP4707QP-STD23	23K MID-GRADE	100.4515.22	E-2769SHD
23K	4707QP	FP4707QP-PREM23	23K PREMIUM-GRADE	100.4515.22	E-2769SHD
23K	4707QP	FP4707QP-HDP23	23K HD PREMIUM-GRADE	100.4515.22	E-2769SHD
23K	4707QP	FP4707QP-SUP23	23K HD SUPERIOR-GRADE	100.4515.22	E-2769SHD
25K	4707QP	FP4707QP-SEV25	25K SEVERE-GRADE	100.4515.22	E-2769SHD
29K	4707QP	FP4707QP-SEV29	29K SEVERE-GRADE	100.4515.22	E-2769SHD

## 4709ES1 16-1/2"x7"



**Diameter** 16.5"  
**Table Width** 7.0"  
**Axle Style** Eaton  
**Replaces Euclid#** E-5480  
**Hardware Kit** 100.4709.10  
**Rivet Count** 28

AXLE RATING (LBS.)	SHOE NO.	WHEEL KIT #	LINING	HARDWARE KIT	EUCLID HWK
20K	4709ES1	FP4709ES1-STD20	20K MID-GRADE	100.4709.10	E-5481A
20K	4709ES1	FP4709ES1-PREM20	20K PREMIUM-GRADE	100.4709.10	E-5481A
23K	4709ES1	FP4709ES1-STD23	23K MID-GRADE	100.4709.10	E-5481A
23K	4709ES1	FP4709ES1-PREM23	23K PREMIUM-GRADE	100.4709.10	E-5481A
23K	4709ES1	FP4709ES1-HDP23	23K HD PREMIUM-GRADE	100.4709.10	E-5481A
23K	4709ES1	FP4709ES1-SUP23	23K HD SUPERIOR-GRADE	100.4709.10	E-5481A
25K	4709ES1	FP4709ES1-SEV25	25K SEVERE-GRADE	100.4709.10	E-5481A
29K	4709ES1	FP4709ES1-SEV29	29K SEVERE-GRADE	100.4709.10	E-5481A



## 4709ES2 16-1/2"x7"



**Diameter** 16.5"  
**Table Width** 7.0"  
**Axle Style** Eaton  
**Replaces Euclid#** E-10272  
**Hardware Kit** 100.4709.11  
**Rivet Count** 28

AXLE RATING (LBS.)	SHOE NO.	WHEEL KIT #	LINING	HARDWARE KIT	EUCLID HWK
20K	4709ES2	FP4709ES2-STD20	20K MID-GRADE	100.4709.11	E-10244
20K	4709ES2	FP4709ES2-PREM20	20K PREMIUM-GRADE	100.4709.11	E-10244
23K	4709ES2	FP4709ES2-STD23	23K MID-GRADE	100.4709.11	E-10244
23K	4709ES2	FP4709ES2-PREM23	23K PREMIUM-GRADE	100.4709.11	E-10244
23K	4709ES2	FP4709ES2-HDP23	23K HD PREMIUM-GRADE	100.4709.11	E-10244
23K	4709ES2	FP4709ES2-SUP23	23K HD SUPERIOR-GRADE	100.4709.11	E-10244
25K	4709ES2	FP4709ES2-SEV25	25K SEVERE-GRADE	100.4709.11	E-10244
29K	4709ES2	FP4709ES2-SEV29	29K SEVERE-GRADE	100.4709.11	E-10244

## 4710QP 15" x 8.625"



**Diameter** 15.0"  
**Table Width** 8.625"  
**Axle Style** Meritor  
**Replaces Euclid#**  
**Hardware Kit** 100.4515.22  
**Rivet Count** 32

AXLE RATING (LBS.)	SHOE NO.	WHEEL KIT #	LINING	HARDWARE KIT	EUCLID HWK
20K	4710QP	FP4710QP-STD20	20K MID-GRADE	100.4515.22	E-2769SHD
20K	4710QP	FP4710QP-PREM20	20K PREMIUM-GRADE	100.4515.22	E-2769SHD
23K	4710QP	FP4710QP-STD23	23K MID-GRADE	100.4515.22	E-2769SHD
23K	4710QP	FP4710QP-PREM23	23K PREMIUM-GRADE	100.4515.22	E-2769SHD
23K	4710QP	FP4710QP-HDP23	23K HD PREMIUM-GRADE	100.4515.22	E-2769SHD
23K	4710QP	FP4710QP-SUP23	23K HD SUPERIOR-GRADE	100.4515.22	E-2769SHD
25K	4710QP	FP4710QP-SEV25	25K SEVERE-GRADE	100.4515.22	E-2769SHD
29K	4710QP	FP4710QP-SEV29	29K SEVERE-GRADE	100.4515.22	E-2769SHD

## 4711QP 16.5" x 8.625"



**Diameter** 16.50"  
**Table Width** 8.625"  
**Axle Style** Meritor Dana Hendrickson  
**Replaces Euclid#** E-10844  
**Hardware Kit** 100.4515.22  
**Rivet Count** 28

AXLE RATING (LBS.)	SHOE NO.	WHEEL KIT #	LINING	HARDWARE KIT	EUCLID HWK
20K	4711QP	FP4711QP-STD20	20K MID-GRADE	100.4515.22	E-2769SHD
20K	4711QP	FP4711QP-PREM20	20K PREMIUM-GRADE	100.4515.22	E-2769SHD
23K	4711QP	FP4711QP-STD23	23K MID-GRADE	100.4515.22	E-2769SHD
23K	4711QP	FP4711QP-PREM23	23K PREMIUM-GRADE	100.4515.22	E-2769SHD
23K	4711QP	FP4711QP-HDP23	23K HD PREMIUM-GRADE	100.4515.22	E-2769SHD
23K	4711QP	FP4711QP-SUP23	23K HD SUPERIOR-GRADE	100.4515.22	E-2769SHD
25K	4711QP	FP4711QP-SEV25	25K SEVERE-GRADE	100.4515.22	E-2769SHD
29K	4711QP	FP4711QP-SEV29	29K SEVERE-GRADE	100.4515.22	E-2769SHD

## 4715QP 16.5" x 7"



**Diameter** 16.5"  
**Table Width** 7"  
**Axle Style** Meritor  
**Replaces Euclid#** E-10847  
**Hardware Kit** 100.4515.22  
**Rivet Count** 24

AXLE RATING (LBS.)	SHOE NO.	WHEEL KIT #	LINING	HARDWARE KIT	EUCLID HWK
20K	4715QP	FP4715QP-STD20	20K MID-GRADE	100.4515.22	E-2769SHD
20K	4715QP	FP4715QP-PREM20	20K PREMIUM-GRADE	100.4515.22	E-2769SHD
23K	4715QP	FP4715QP-STD23	23K MID-GRADE	100.4515.22	E-2769SHD
23K	4715QP	FP4715QP-PREM23	23K PREMIUM-GRADE	100.4515.22	E-2769SHD
23K	4715QP	FP4715QP-HDP23	23K HD PREMIUM-GRADE	100.4515.22	E-2769SHD
23K	4715QP	FP4715QP-SUP23	23K HD SUPERIOR-GRADE	100.4515.22	E-2769SHD
25K	4715QP	FP4715QP-SEV25	25K SEVERE-GRADE	100.4515.22	E-2769SHD
29K	4715QP	FP4715QP-SEV29	29K SEVERE-GRADE	100.4515.22	E-2769SHD

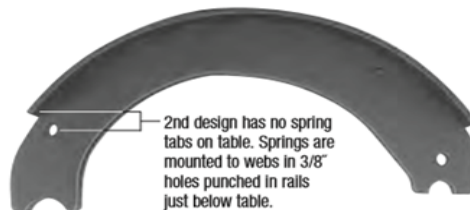
## 4718QP 16.5" x 8"



**Diameter** 16.5"  
**Table Width** 8"  
**Axle Style** Meritor  
**Replaces Euclid#** E-10850  
**Hardware Kit** 100.4515.22  
**Rivet Count** 28

AXLE RATING (LBS.)	SHOE NO.	WHEEL KIT #	LINING	HARDWARE KIT	EUCLID HWK
20K	4718QP	FP4718QP-STD20	20K MID-GRADE	100.4515.22	E-2769SHD
20K	4718QP	FP4718QP-PREM20	20K PREMIUM-GRADE	100.4515.22	E-2769SHD
23K	4718QP	FP4718QP-STD23	23K MID-GRADE	100.4515.22	E-2769SHD
23K	4718QP	FP4718QP-PREM23	23K PREMIUM-GRADE	100.4515.22	E-2769SHD
23K	4718QP	FP4718QP-HDP23	23K HD PREMIUM-GRADE	100.4515.22	E-2769SHD
23K	4718QP	FP4718QP-SUP23	23K HD SUPERIOR-GRADE	100.4515.22	E-2769SHD
25K	4718QP	FP4718QP-SEV25	25K SEVERE-GRADE	100.4515.22	E-2769SHD
29K	4718QP	FP4718QP-SEV29	29K SEVERE-GRADE	100.4515.22	E-2769SHD

## 4719ES2QP 16.5" x 5"



**Diameter** 16.5"  
**Table Width** 5"  
**Axle Style** Eaton  
**Replaces Euclid#** E-10270  
**Hardware Kit** 100.4709.11  
**Rivet Count** 28

AXLE RATING (LBS.)	SHOE NO.	WHEEL KIT #	LINING	HARDWARE KIT	EUCLID HWK
20K	4719ES2QP	FP4719ES2QP-STD20	20K MID-GRADE	100.4709.11	E-10244
20K	4719ES2QP	FP4719ES2QP-PREM20	20K PREMIUM-GRADE	100.4709.11	E-10244
23K	4719ES2QP	FP4719ES2QP-STD23	23K MID-GRADE	100.4709.11	E-10244
23K	4719ES2QP	FP4719ES2QP-PREM23	23K PREMIUM-GRADE	100.4709.11	E-10244
23K	4719ES2QP	FP4719ES2QP-HDP23	23K HD PREMIUM-GRADE	100.4709.11	E-10244
23K	4719ES2QP	FP4719ES2QP-SUP23	23K HD SUPERIOR-GRADE	100.4709.11	E-10244
25K	4719ES2QP	FP4719ES2QP-SEV25	25K SEVERE-GRADE	100.4709.11	E-10244
29K	4719ES2QP	FP4719ES2QP-SEV29	29K SEVERE-GRADE	100.4709.11	E-10244

## 4720QP 16.5" x 5"



Diameter	16.5"
Table Width	5"
Axle Style	Meritor
Replaces Euclid#	E-10854
Hardware Kit	100.4515.22
Rivet Count	16

AXLE RATING (LBS.)	SHOE NO.	WHEEL KIT #	LINING	HARDWARE KIT	EUCLID HWK
20K	4720QP	FP4720QP-STD20	20K MID-GRADE	100.4515.22	E-2769SHD
20K	4720QP	FP4720QP-PREM20	20K PREMIUM-GRADE	100.4515.22	E-2769SHD
23K	4720QP	FP4720QP-STD23	23K MID-GRADE	100.4515.22	E-2769SHD
23K	4720QP	FP4720QP-PREM23	23K PREMIUM-GRADE	100.4515.22	E-2769SHD
23K	4720QP	FP4720QP-HDP23	23K HD PREMIUM-GRADE	100.4515.22	E-2769SHD
23K	4720QP	FP4720QP-SUP23	23K HD SUPERIOR-GRADE	100.4515.22	E-2769SHD
25K	4720QP	FP4720QP-SEV25	25K SEVERE-GRADE	100.4515.22	E-2769SHD
29K	4720QP	FP4720QP-SEV29	29K SEVERE-GRADE	100.4515.22	E-2769SHD

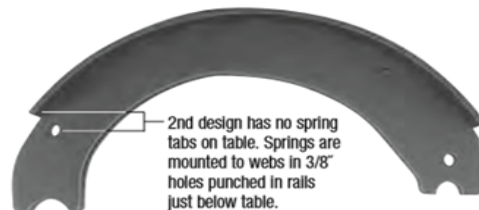
## 4725ES2QP 16.5" x 6"



Diameter	16.5"
Table Width	6"
Axle Style	Eaton Dana Spicer
Replaces Euclid#	E-10271
Hardware Kit	100.4709.11
Rivet Count	20

AXLE RATING (LBS.)	SHOE NO.	WHEEL KIT #	LINING	HARDWARE KIT	EUCLID HWK
20K	4725ES2QP	FP4725ES2QP-STD20	20K MID-GRADE	100.4709.11	E-10244
20K	4725ES2QP	FP4725ES2QP-PREM20	20K PREMIUM-GRADE	100.4709.11	E-10244
23K	4725ES2QP	FP4725ES2QP-STD23	23K MID-GRADE	100.4709.11	E-10244
23K	4725ES2QP	FP4725ES2QP-PREM23	23K PREMIUM-GRADE	100.4709.11	E-10244
23K	4725ES2QP	FP4725ES2QP-HDP23	23K HD PREMIUM-GRADE	100.4709.11	E-10244
23K	4725ES2QP	FP4725ES2QP-SUP23	23K HD SUPERIOR-GRADE	100.4709.11	E-10244
25K	4725ES2QP	FP4725ES2QP-SEV25	25K SEVERE-GRADE	100.4709.11	E-10244
29K	4725ES2QP	FP4725ES2QP-SEV29	29K SEVERE-GRADE	100.4709.11	E-10244

## 4726ES2QP 16.5" x 8.625"



Diameter	16.5"
Table Width	8.625"
Axle Style	Eaton Dana Spicer
Replaces Euclid#	E-10273
Hardware Kit	100.4709.11
Rivet Count	32

AXLE RATING (LBS.)	SHOE NO.	WHEEL KIT #	LINING	HARDWARE KIT	EUCLID HWK
20K	4726ES2QP	FP4726ES2QP-STD20	20K MID-GRADE	100.4709.11	E-10244
20K	4726ES2QP	FP4726ES2QP-PREM20	20K PREMIUM-GRADE	100.4709.11	E-10244
23K	4726ES2QP	FP4726ES2QP-STD23	23K MID-GRADE	100.4709.11	E-10244
23K	4726ES2QP	FP4726ES2QP-PREM23	23K PREMIUM-GRADE	100.4709.11	E-10244
23K	4726ES2QP	FP4726ES2QP-HDP23	23K HD PREMIUM-GRADE	100.4709.11	E-10244
23K	4726ES2QP	FP4726ES2QP-SUP23	23K HD SUPERIOR-GRADE	100.4709.11	E-10244
25K	4726ES2QP	FP4726ES2QP-SEV25	25K SEVERE-GRADE	100.4709.11	E-10244
29K	4726ES2QP	FP4726ES2QP-SEV29	29K SEVERE-GRADE	100.4709.11	E-10244

## 4228 14 1/2" x 6" Front Axle Brake



**Diameter** 14.5"  
**Table Width** 6"  
**Axle Style** Meritor  
**Hardware Kit** 100.4228.11  
**Bushing** 1 pc  
**Brass Bolts** 8

AXLE RATING (LBS.)	SHOE NO.	WHEEL KIT #	LINING	HARDWARE KIT	STOCKING
23K	4228	FP4228-HDP23T	23K HD PREMIUM-GRADE	100.4228.11	NO
23K	4228	FP4228-SEV23T	23K SEVERE-GRADE	100.4228.11	NO
23K	4228	FP4228-SEV23TX	23K SEVERE-GRADE	100.4228.11	NO
23K	4228	FP4228-SEV23TXX	23K SEVERE-GRADE	100.4228.11	NO
23K	4228	FP4228-SUP23	23K HD SUPERIOR-GRADE	100.4228.11	NO
23K	4228	FP4228-SUP23X	23K HD SUPERIOR-GRADE	100.4228.11	NO
23K	4228	FP4228-SUP23XX	23K HD SUPERIOR-GRADE	100.4228.11	NO
23K	4228	FP4228-SUP23XXX	23K HD SUPERIOR-GRADE	100.4228.11	NO

## 4592SB 14 1/2" x 10" Rear Axle Brake



**Diameter** 14.5"  
**Table Width** 10"  
**Axle Style** Meritor  
**Hardware Kit** 100.4592A.10  
**Bushing** 2 pc  
**Brass Bolts** 12

AXLE RATING (LBS.)	SHOE NO.	WHEEL KIT #	LINING	HARDWARE KIT	STOCKING
23K	4592	FP4592-HDP23T	23K HD PREMIUM-GRADE	100.4592A.10	NO
23K	4592	FP4592-HDP23TX	23K HD PREMIUM-GRADE	100.4592A.10	NO
23K	4592	FP4592-HDP23TXXX	23K HD PREMIUM-GRADE	100.4592A.10	NO
23K	4592	FP4592-SEV23T	23K SEVERE-GRADE	100.4592A.10	NO
23K	4592	FP4592-SEV23TX	23K SEVERE-GRADE	100.4592A.10	NO
23K	4592	FP4592-SEV23TXX	23K SEVERE-GRADE	100.4592A.10	NO
23K	4592	FP4592-SUP23	23K HD SUPERIOR-GRADE	100.4592A.10	NO
23K	4592	FP4592-SUP23X	23K HD SUPERIOR-GRADE	100.4592A.10	NO
23K	4592	FP4592-SUP23XX	23K HD SUPERIOR-GRADE	100.4592A.10	NO
23K	4592	FP4592-SUP23XXX	23K HD SUPERIOR-GRADE	100.4592A.10	NO

## 4656 16.14" x 6.3" MAN Cast Brake



**Diameter** 16.14"  
**Table Width** 6.3"  
**Axle Style** MAN  
**Hardware Kit** CQ69019  
**Bushing** 1 pc  
**Rivets** 16/20

AXLE RATING (LBS.)	SHOE NO.	WHEEL KIT #	LINING	HARDWARE KIT	STOCKING
23K	4656	FP4656-SEV23T	23K SEVERE-GRADE	CQ69019	NO
23K	4656	FP4656-SEV23TU	23K SEVERE-GRADE	CQ69019	NO
23K	4656	FP4656-SEV23TX	23K SEVERE-GRADE	CQ69019	NO
23K	4656	FP4656-SUP23D	23K HD SUPERIOR-GRADE	CQ69019	YES
23K	4656	FP4656-SUP23DU	23K HD SUPERIOR-GRADE	CQ69019	NO
23K	4656	FP4656-SUP23DX	23K HD SUPERIOR-GRADE	CQ69019	NO
23K	4656	FP4656-SUP23DXX	23K HD SUPERIOR-GRADE	CQ69019	NO

## 4657 16.14" x 8.66" MAN Cast Brake



Diameter	16.14"
Table Width	8.66"
Axle Style	MAN
Hardware Kit	CQ69019
Bushing	1 pc
Rivets	16/20

AXLE RATING (LBS.)	SHOE NO.	WHEEL KIT #	LINING	HARDWARE KIT	STOCKING
23K	4657	FP4657-SEV23T	23K SEVERE-GRADE	CQ69019	NO
23K	4657	FP4657-SEV23TU	23K SEVERE-GRADE	CQ69019	NO
23K	4657	FP4657-SEV23TX	23K SEVERE-GRADE	CQ69019	NO
23K	4657	FP4657-SUP23D	23K HD SUPERIOR-GRADE	CQ69019	YES
23K	4657	FP4657-SUP23DU	23K HD SUPERIOR-GRADE	CQ69019	NO
23K	4657	FP4657-SUP23DX	23K HD SUPERIOR-GRADE	CQ69019	NO
23K	4657	FP4657-SUP23DXX	23K HD SUPERIOR-GRADE	CQ69019	NO

## 4715CAST 16 1/2" x 6" Front Axle Brake



Diameter	16.5"
Table Width	6"
Axle Style	Meritor
Hardware Kit	100.4715A.11
Bushing	2 pc
Rivets	24

AXLE RATING (LBS.)	SHOE NO.	WHEEL KIT #	LINING	HARDWARE KIT	STOCKING
23K	4715CAST	FP4715CAST-HDP23T	23K HD PREMIUM-GRADE	100.4715A.11	YES
23K	4715CAST	FP4715CAST-SEV23T	23K SEVERE-GRADE	100.4715A.11	YES
23K	4715CAST	FP4715CAST-SEV23TX	23K SEVERE-GRADE	100.4715A.11	YES
23K	4715CAST	FP4715CAST-SEV23TXX	23K SEVERE-GRADE	100.4715A.11	YES
23K	4715CAST	FP4715CAST-SUP23	23K HD SUPERIOR-GRADE	100.4715A.11	YES
23K	4715CAST	FP4715CAST-SUP23X	23K HD SUPERIOR-GRADE	100.4715A.11	YES
23K	4715CAST	FP4715CAST-SUP23XX	23K HD SUPERIOR-GRADE	100.4715A.11	YES
23K	4715CAST	FP4715CAST-SUP23XXX	23K HD SUPERIOR-GRADE	100.4715A.11	YES

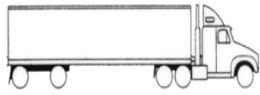
## 4728CAST 16 1/2" x 8-5/8" Rear Axle Brake



Diameter	16.5"
Table Width	8-5/8"
Axle Style	MAN
Hardware Kit	100.4715A.11
Bushing	2 pc
Rivets	32

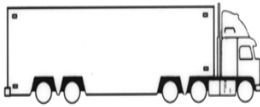
AXLE RATING (LBS.)	SHOE NO.	WHEEL KIT #	LINING	HARDWARE KIT	STOCKING
23K	4728CAST	FP4728CAST-HDP23T	23K HD PREMIUM-GRADE	100.4728A.11	NO
23K	4728CAST	FP4728CAST-SEV23T	23K SEVERE-GRADE	100.4728A.11	NO
23K	4728CAST	FP4728CAST-SEV23TX	23K SEVERE-GRADE	100.4728A.11	NO
23K	4728CAST	FP4728CAST-SEV23TXX	23K SEVERE-GRADE	100.4728A.11	NO
23K	4728CAST	FP4728CAST-SUP23	23K HD SUPERIOR-GRADE	100.4728A.11	YES
23K	4728CAST	FP4728CAST-SUP23X	23K HD SUPERIOR-GRADE	100.4728A.11	YES
23K	4728CAST	FP4728CAST-SUP23XX	23K HD SUPERIOR-GRADE	100.4728A.11	YES
23K	4728CAST	FP4728CAST-SUP23XXX	23K HD SUPERIOR-GRADE	100.4728A.11	YES

Tractor Trailer (Tandem Axle)



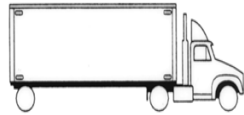
	Severe Duty	Medium Duty	Light Duty
BEST		FP-HDP23	FP-HDP20
BETTER		FP-PREM23	FP-PREM20
GOOD		FP-STD23	FP-STD20

Van Trailer



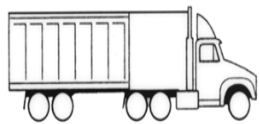
	Severe Duty	Medium Duty	Light Duty
BEST		FP-HDP23	FP-HDP20
BETTER		FP-PREM23	FP-PREM20
GOOD		FP-STD23	FP-STD20

Tractor Trailer (Single Axle)



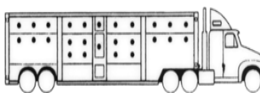
	Severe Duty	Medium Duty	Light Duty
BEST		FP-HDP23	FP-HDP20
BETTER		FP-PREM23	FP-PREM20
GOOD		FP-STD23	FP-STD20

Container Chassis



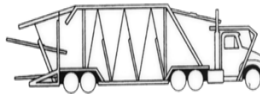
	Severe Duty	Medium Duty	Light Duty
BEST		FP-HDP23	FP-HDP20
BETTER		FP-PREM23	FP-PREM20
GOOD		FP-STD23	FP-STD20

Livestock Trailer



	Severe Duty	Medium Duty	Light Duty
BEST	FP-SEV29	FP-HDP23	FP-HDP20
BETTER	FP-SEV25	FP-PREM23	FP-PREM20
GOOD	FP-SUP23		

Car Trailer



	Severe Duty	Medium Duty	Light Duty
BEST	FP-SEV29	FP-HDP23	FP-HDP20
BETTER	FP-SEV25	FP-PREM23	FP-PREM20
GOOD			

Mixer (Tandem Axle)



	Severe Duty	Medium Duty	Light Duty
BEST	FP-SEV29	FP-HDP23	
BETTER	FP-SEV25	FP-PREM23	
GOOD	FP-SUP23		

Dump Truck (Single Axle)



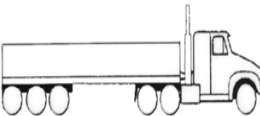
	Severe Duty	Medium Duty	Light Duty
BEST	FP-SEV29	FP-HDP23	
BETTER	FP-SEV25	FP-PREM23	
GOOD	FP-SUP23		

Dump Truck (Tandem Axle)



	Severe Duty	Medium Duty	Light Duty
BEST	FP-SEV29	FP-HDP23	
BETTER	FP-SEV25	FP-PREM23	
GOOD	FP-SUP23		

Dump Trailer (Tri-Axle)



	Severe Duty	Medium Duty	Light Duty
BEST	FP-SEV29	FP-HDP23	
BETTER	FP-SEV25	FP-PREM23	
GOOD	FP-SUP23		

Logging Trailer



	Severe Duty	Medium Duty	Light Duty
BEST	FP-SEV29	FP-HDP23	
BETTER	FP-SEV25	FP-PREM23	
GOOD	FP-SUP23		

Flatbed Trailer



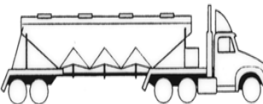
	Severe Duty	Medium Duty	Light Duty
BEST		FP-HDP23	FP-HDP20
BETTER		FP-PREM23	FP-PREM20
GOOD	FP-SUP23	FP-STD23	FP-STD20

Tanker



	Severe Duty	Medium Duty	Light Duty
BEST	FP-SEV29	FP-HDP23	FP-HDP20
BETTER	FP-SEV25	FP-PREM23	FP-PREM20
GOOD	FP-SUP23		

Dry Bulk



	Severe Duty	Medium Duty	Light Duty
BEST	FP-SEV29	FP-HDP23	FP-HDP20
BETTER	FP-SEV25	FP-PREM23	FP-PREM20
GOOD	FP-SUP23		

Straight Truck



	Severe Duty	Medium Duty	Light Duty
BEST		FP-HDP23	FP-HDP20
BETTER		FP-PREM23	FP-PREM20
GOOD	FP-SUP23	FP-STD23	FP-STD20

Refuse Truck (Single Axle)



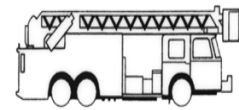
	Severe Duty	Medium Duty	Light Duty
BEST	FP-SEV29	FP-HDP23	
BETTER	FP-SEV25	FP-PREM23	
GOOD	FP-SUP23		

Refuse Truck (Tandem Axle)



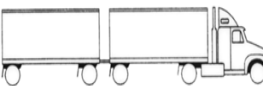
	Severe Duty	Medium Duty	Light Duty
BEST	FP-SEV29	FP-HDP23	
BETTER	FP-SEV25	FP-PREM23	
GOOD	FP-SUP23		

Fire Truck



	Severe Duty	Medium Duty	Light Duty
BEST	FP-SEV29	FP-HDP23	FP-HDP20
BETTER	FP-SEV25	FP-PREM23	FP-PREM20
GOOD	FP-SUP23		

Double Trailer



	Severe Duty	Medium Duty	Light Duty
BEST		FP-HDP23	FP-HDP20
BETTER		FP-PREM23	FP-PREM20
GOOD	FP-SUP23	FP-STD23	FP-STD20

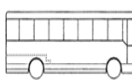
High Floor Bus



Rear Axle	Front Axle
Meritor 'W'	Meritor 'W'
Fabricated Steel	Fabricated Steel
14.5" x 10"	14.5" x 6"
4592A	4228F

	Transit
BEST	FP-SUP23
BETTER	FP-SEV23T
GOOD	FP-HDP23T

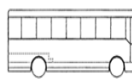
High/Low Floor Bus



Rear Axle	Front Axle
Meritor 'W'	Meritor 'Cast Plus'
Fabricated Steel	Cast Brake Shoe
14.5" x 10"	16.5" x 6"
4592A	4715A

	Transit
BEST	FP-SUP23
BETTER	FP-SEV23T
GOOD	FP-HDP23T

High/Low Floor Bus



Rear Axle	Front Axle
Meritor 'Cast Plus'	Meritor 'Cast Plus'
Cast Brake Shoe	Cast Brake Shoe
(16.5" x 8 7/8")	16.5" x 6"
4728D	4715A

	Transit
BEST	FP-SUP23
BETTER	FP-SEV23T
GOOD	FP-HDP23T

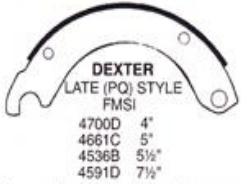
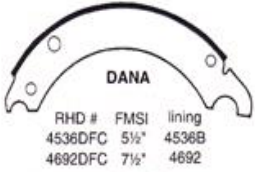
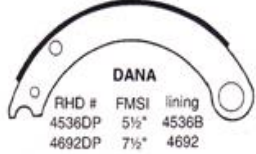
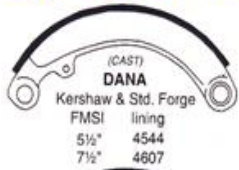
Low Floor Bus



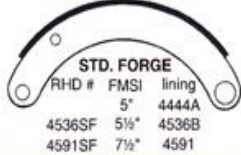
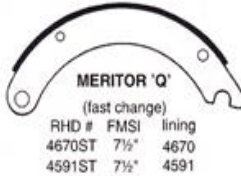
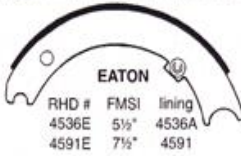
Rear Axle	Front Axle
Man Axle	Man Axle
Cast Brake Shoe	Cast Brake Shoe
410mm x 223mm	410mm x 163mm
4657D	4656D

	Transit
BEST	FP-SUP23
BETTER	
GOOD	

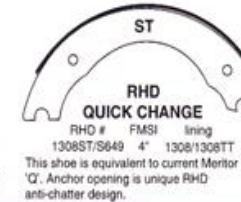
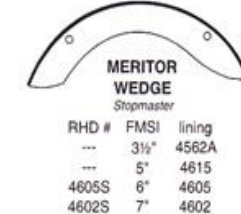
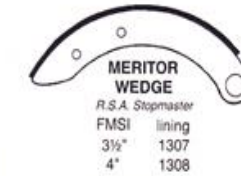
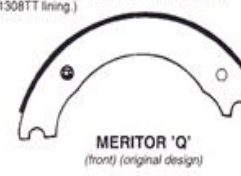
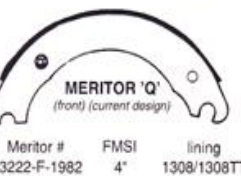
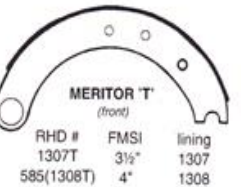
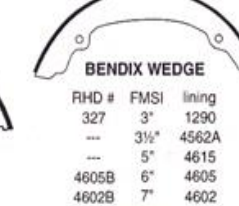
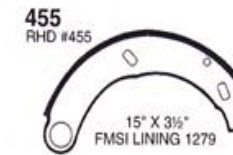
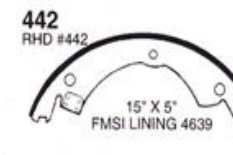
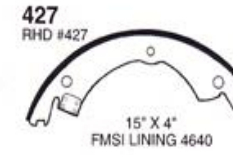
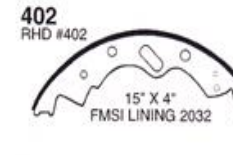
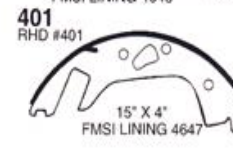
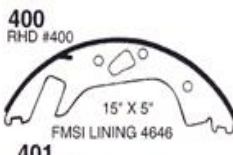
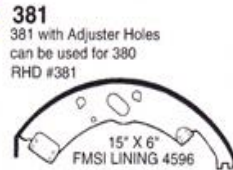
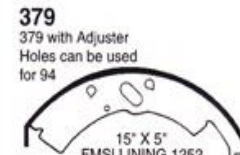
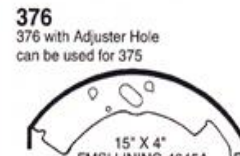
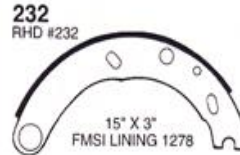
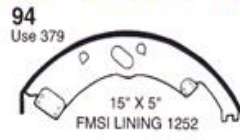
## 12 1/4" DIAMETER



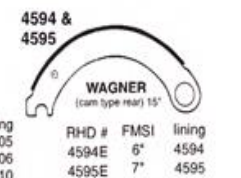
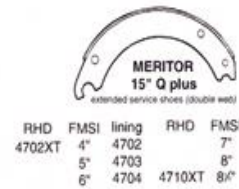
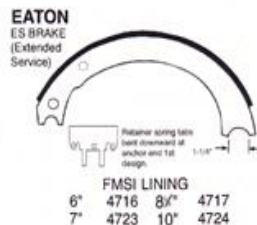
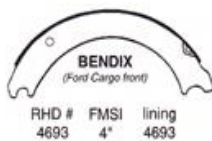
Replaces early design quick maintenance (QM) style which was open on both ends.



## 15" SINGLE WEB



## 15" DOUBLE WEB



## 16" DIAMETER

### 385

385 with Adjuster Holes can be used for 99 RHD #385

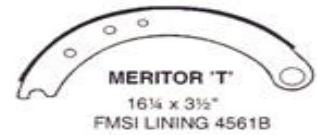


### 386

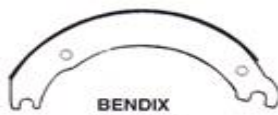
386 with Adjuster Holes can be used for 96 RHD #386



## 16 1/4" DIAMETER



## 16 1/2" DIAMETER



### BENDIX

(Ford Cargo)  
RHD # FMSI lining  
4515EFC 7" 4515E/G



### EATON

Extended Service Shoe for Fruehauf Axes.  
FMSI lining 4708



### 2nd Design

RHD #	FMSI	lining
4515EXEM2	7"	4515E/G
4551EXEM2L*	8 1/2"	4551B
4551EXEM2R*	8 1/2"	4551B

\*offset webs



### MERITOR 'P' STYLE

(Bushed anchor)  
FMSI lining  
7" 4515  
7" 4625B



### DANA

16 1/2" x 7" extended service shoe FMSI 4701

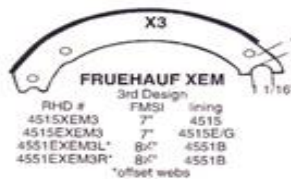
(This is a standard 4515 shoe adapted to extended service application by fitting the thicker 4701 lining. Requires a special roller pin and ext. life s-cam.)



### XT

NO HUMP  
EATON extended service shoe for Meritor axes

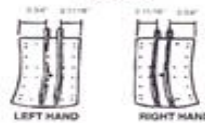
RHD # FMSI lining  
4708XT 7" 4708



### 3rd Design

RHD #	FMSI	lining
4515XEM3	7"	4515
4515XEM3	7"	4515E/G
4551XEM3L*	8 1/2"	4551B
4551XEM3R*	8 1/2"	4551B

\*offset webs



LEFT HAND RIGHT HAND



### MERITOR 'P' STYLE

RHD #	FMSI	lining
4549ET	4"	4549C
4524ET	5"	4524B
4524ETM#	5"	4524B
4514ET	6"	4514G
4514ETM#	6"	4514G
4515T	7"	4515
4515ET	7"	4515E/G
4644ET	8"	4644A
4644ETL*	8"	4644A
4644ETR*	8"	4644A
4551ET	8 1/2"	4551B
4552T	10"	4552
14/49ET	10"	4514G/4549C

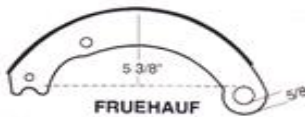
\*offset webs  
#OFFSET PIN LOCATION FOR MACK



### DANA U SHOE

FMSI LINING 4515U

Original U used 1" anchor pin. New style is alternative to MERITOR 'Q' shoe uses 1" anchor pin.



### FRUEHAUF 'P' STYLE

RHD #	FMSI	lining
4515F	7"	4515
4515EF	7"	4515E/G
4551EFL*	8 1/2"	4551B
4551EFR*	8 1/2"	4551B

\*offset webs



### ST

RHD/DANA QUICK CHANGE

(Equivalent to 'Q' style)  
Features improved anchor slot design.



### EATON SINGLE ANCHOR PIN

RHD #	FMSI	lining
—	4 1/2"	4570
4223A	5"	4223A
4223 HM	5"	4223A
4317	6"	4317G
4317 HM	6"	4317G
4311	7"	4311J/G
4311 HM	7"	4311J/G
4674	8 1/2"	4674

Std. mount measures 4" at A. High mount is 3 9/16"



### FRUEHAUF 'Q'

Meritor design for Fruehauf application. Designated ESF or FS  
RHD # FMSI lining  
4515 ESF 7" 4515E/G  
NOT INTERCHANGEABLE WITH STANDARD 'Q'



### XT

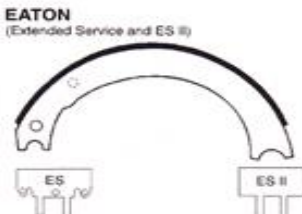
NO BLADE

MERITOR Q PLUS BRAKE

RHD #	FMSI	lining
4720SXT	5"	4720
	6"	4715
	6"	4715A
4707XT	7"	4707
4718XT	8"	4718
	8 1/2"	4711

Requires ext. life s-cam.

(Web stampings. Meritor is marked Q+ RHD is marked XT).



### EATON (Extended Service and ES II)

RHD #	FMSI	lining
4719	5"	4719
4725	6"	4725
4709	7"	4709
4709N	7"	4709
4726	8 1/2"	4726



### FRUEHAUF XEM

1st Design (no anchor spring hole)

RHD #	FMSI	lining
7"		4515
8 1/2"		4551

\*offset webs  
#OFFSET PIN LOCATION FOR MACK





# RUST BRAKER

RUST JACKING PROTECTION FOR LONGER LIFE BRAKE SHOES

693 Babin St., Dieppe, NB Canada (506) 855-2000 [www.frictionplus.ca](http://www.frictionplus.ca) [brakes@frictionplus.ca](mailto:brakes@frictionplus.ca)



## What is Rust Jacking?

When combined with the winter moisture, rust appears on the brake shoe table and as it builds it pushes against the lining and “jacks” it up until the lining cracks and eventually breaks

## How do we prevent this?

By prepping the surface of the brake shoe before painting, Friction Plus is able to remove the chlorides & eliminate rust jacking for the life of the coating (appx. 3 years)

## What does this mean for our Customers?

Once the lining cracks due to Rust Jacking, it is deemed unsafe although much of the lining still remains. Premature brake changes deny truck operators full value of their brake shoes

Atlantic Friction Inc prevents this with our new paint process featuring **RUST BRAKER™**. Here's how.....

**WASH OFF OIL & GREASE**



**INSPECTION**



**REMOVE LINING**



**SHOT BLAST**



**INSPECT & REJECT**

**PREP, PAINT, & DRY SYSTEM**



**INSTALL NEW LININGS**

Atlantic Friction Inc performs a “full dip”, complete submersion process to ensure that coating is even. Paint viscosity is checked several times daily to maintain critical consistency.

**RUST BRAKER™** Paint is a water-based, semi-gloss enamel specially formulated for truck brake shoe rebuilders. Truck brake shoe paint is the only paint we work with, so we put it to the test – again and again.

**RUST BRAKER™** Paint goes on smoother and resists rust longer. We've done the research on formulation, drying time, rust prevention and consistency because we want to provide our brake shoe customers with only the highest quality paint... and we've succeeded.



# Brake Lining Application Guide

## Heat Star 23,000#

Friction Code: FF  
Density: 2.28  
Edge Color: Red



## Heat Star 20 **HS20** 22,000#

Friction Code: FF  
Density: 2.21  
Edge Color: Blue



## FLOE *First Line Original Equipment* 23,000#

Friction Code: FF  
Density: 2.25  
Edge Color: Brown



## Universal Block **UB** 20,000#

Friction Code: FF  
Density: 2.22  
Edge Color: Green



## MV23 *Marathon Value* 23,000#

Friction Code: GF  
Density: 1.92  
Edge Color: Plain



## Marathon Value **MV20** 20,000#

Friction Code: FF  
Density: 1.90  
Edge Color: Plain



## MBC *Metallic Brass Combo* 23,000#

Friction Code: FF  
Density: 2.89/2.28  
Edge Color: Red/Stripe



## Vocational **KVT** 25,000#

Friction Code: FF  
Density: 2.13  
Edge Color: Purple



## MBS *Metallic Brass Single* 23,000#

Friction Code: FF  
Density: 2.89  
Edge Color: Stripe



## Traction Stopper **TS** 25,000#

Friction Code: GG  
Density: 2.17  
Edge Color: Stripe



# DNA - Duroline North America Formulations



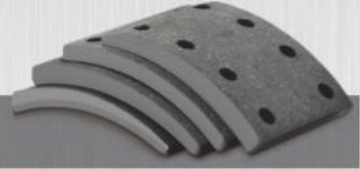
## Standard Formulations

A step above your average standard formulation. For normal-duty operations these formulations are a very cost-effective solution for your long and short haul needs.



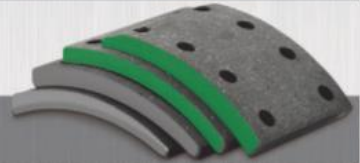
### DNA-10 (Grey) – 20.000 lb. GAWR (165 AL)

Comparison: Abex (Federal Mogul) AN6166 – Marathon UB – Frasle AF550 – Stemco Horizon SP-20



### DNA-11 (Green) – Rated for 23.000 lb. GAWR (165 AL)

Comparison: Abex (FedMog) AX6149 – Marathon FLOE – Frasle AF556 – Stemco Horizon SP-23



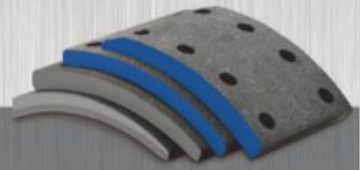
## Premium Formulations

Designed to withstand the energy generated in more demanding applications and extend the life of your brakes. These formulations will offer great benefits, including longer brake replacement cycles, low noise levels and improved drum wear.



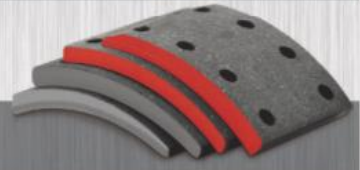
### DNA-18 (Blue) – Rated for 20.000lbs per axle (165 AL)

Comparison: Abex (Fed-Mog) EN6008/EL6011 – Marathon HS20 – Meritor MA210/MA212 – FRASLE AF55 – Stemco Crest XL



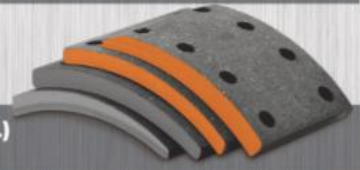
### DNA-38 (Red) – Rated for 23.000lbs per axle (165 AL)

Comparison: Abex (Fed-Mog) EX685/SDA6098 – Marathon HS – Meritor MA310/MA312 – Frasle AF557 – Stemco Vista HP



### DNA-25 (Premium Severe) (Orange) – Rated for 25.000lbs per axle (165 AL)

Comparison: Abex (Fed-Mog) ED6028/EH6040 – Marathon TS – Meritor MA403 – Frasle AF560 – Stemco Vista HP1



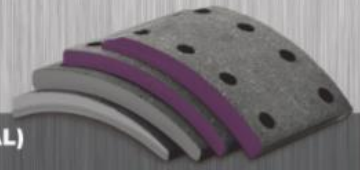
## Heavy Duty and Transit

Maximum performance for heavy loads and stop-and-go operations. Outstanding for bus and refuse vocations. DNA-68 is very similar to the old Brake Pro formula CM/CMT22A1, that provided outstanding stopping power, quiet brake applications and extended lining and drum life.



### DNA-68 (Purple) – Rated for 23.000lbs per axle (165 AL) and 26.000lbs (210 AL)

Comparison: Abex (Fed-Mog) 685/697 – Marathon KVT/MBST – Meritor R685/687 – Stemco Ultrapeak BRT



## Extra Life

Designed to maximize brake replacement cycles. These friction materials are made with the highest manufacturing and technological processes the industry offers. DNA-88 is very similar to the old Brake Pro formula CM24/29, that provided stopping power, quiet brake applications and extended lining and drum life. This is the solution to transit applications with 28,700 GAWR applications and any heavy refuse application that desires the four basics to lower operation costs. Stopping power. Quiet brake applications. Extended lining life and Extended drum life.



### DNA-88 (Gold) – Rated for 26.000lbs per axle (180 AL) and 29.000lbs (210 AL)

Comparison: Stemco Ultrapeak FT





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