



Headquarters

Ruili Group China

No.2666, KaiFaqu Avenue, Rui'an Economic Development Zone, Zhejaing Province, 325200, China

Tel: 0086-577-6500 8000, 6560 9583

Fax: 0086-577-6592 2008

E-mail: info@sorl.com.cn

Local distributor



Oversea branches

Global SORL Auto & Truck Parts Inc.(USA)

1200 E. Gene Autry Way

Anaheim CA 92805

Tel: 001-714-634 1888

Fax: 001-714-634 1886

E-mail: mike@globalsorl.com

SORL Bulgaria Ltd.(Bulgaria)

West Industrial zone

Ex brewery factory

9000 Varna, Bulgaria

Tel: 0035-9899 193801

E-mail: g.petrov@sorl-europe.bg

Golden Dragon Auto Spare Parts(Dubai)

P.O.Box 56306, Dubai, U.A.E

Tel: 00971-4-2278556

Fax: 00971-4-2278552

E-mail: sorl@emirate.net.ae

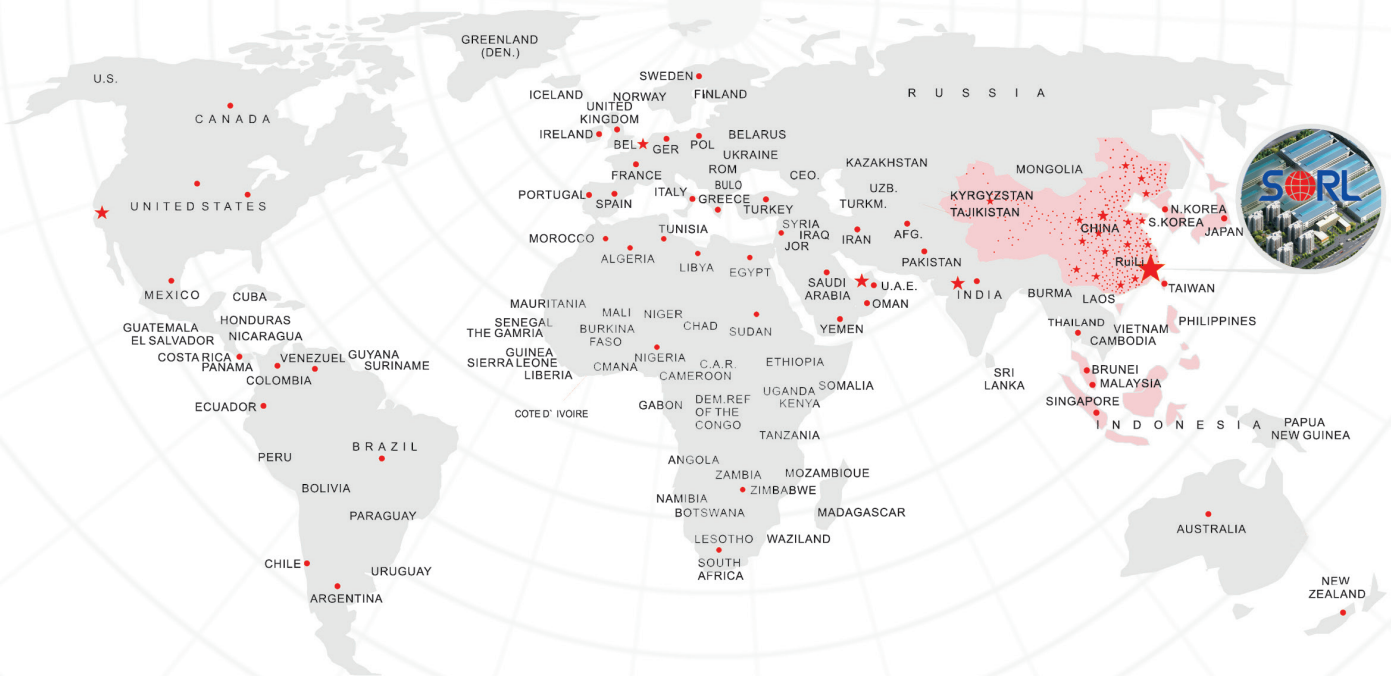


For Commercial Vehicle & Passenger Car





SALES NETWORK





Headquarters Company Profile

Founded in 1987, Ruili Group is mainly specialized in researching & developing, manufacturing and distributing of auto parts and railway vehicle parts, while also runs diversified business including education, hotels and real estate.

Its product lines cover brake system, clutch system, suspension system, steering system, cabin parts, body parts, maintenance parts, etc. The big range of products, manufactured strictly according to national and international standards at plants with a total construction area of 1,000,000 m^2 , as well as from its strategic partners of chain platform, are widely applied in Chinese, European, American, Japanese, Korean, Russian and Indian trucks, buses, trailers and passenger cars.

With over 12,000 employees working at the headquarters, 22 subsidiaries and more than 300 sales branches at home and abroad, Ruili offers excellent service to over 100 OEM and numerous aftermarket customers all around the world. Ruili is the leading manufacturer in its field and is dedicated to continuously satisfy customers and partners worldwide.





HFMC(Factory of Friction Material) Company Profile

Hangzhou Hangcheng Frictional Material Co., Ltd. (HFMC) was established in 1948 with the name of Hangzhou Brake Material Factory. As the first friction glorious history, which shows its great contribution to the development of domestic friction material industry.

In 2017, HFMC was wholly acquired by Ruili Group and new energy was added into this time-honored national brand enterprise. Production capacity of brake linings and brake pads has a further growth thanks to the new investment of production facilities. Meanwhile, automatic production lines enhances product consistency and quality, which is highly appreciated by its OE and aftermarket customers.

HFMC participates in national and industrial standard

drafting, such as GB5763, GB/T5764 and GB/T11834. The company is keeping on developing new formulas to meet various kinds of market demands and to contribute to the technology of friction material.



Quality Guarantee



The quality of HFMC products is guaranteed by its international standard management system. Brake linings and brake pads are available with LEAF certificates and E-Mark certificates, including E1 and E9.

认证证书

标准: IATF 16949:2016
(第1版:2016-04-01)

证书登记号码: 01111 038906
IATF 证书号码: 0331069

证书持有者: 杭州杭城摩擦材料有限公司
中国浙江省杭州市经济技术开发区 M18-1-4
邮编: 310018

认证范围: 盘式摩擦片、鼓式摩擦片、制动蹄总成和摩擦材料的设计和制造

证明完成了审核并满足了 IATF 16949:2016 标准的要求。

至发日/有效期至: 证书有效期从 2018-09-12 至 2021-09-11。

发行日: 2018-09-12

www.hv.com

TÜV Rheinland
Precision Right.

管理体系认证注册证书

Intertek
Total Quality Assured

注册号: 9133010140419500

证书编号: 0531390508

颁发日期: 2019年09月19日

有效期至: 2019年09月19日

到期日期: 2021年03月11日

认证标准: OHSAS 18001:2007

认证范围: 盘式摩擦片、鼓式摩擦片、制动蹄总成和摩擦材料的设计和制造。

Hangzhou Hangcheng Friction Material Co., Ltd.
中国浙江省杭州市经济技术开发区 M18-1-4
的管理体系, 符合以下标准/标准予以注册:

Intertek
Calin Moldoveanu
President, Business Assurance
Intertek Certification Limited, 10A Victory Park, Victory Road, Derby DE24 8BZ, United Kingdom

Kraftfahrt-Bundesamt

DE-24932 Flensburg

MITTEILUNG
ausgestellt: 02C
Kraftfahrt-Bundesamt

E1

über die Genehmigung für eine Ersatz-Bremsbelag-Einheit oder einen Ersatz-Trommelmilieu nach der Regelung Nr. 90 einschließlich der Änderungsreihe 02.

COMMUNICATION
issued by: Kraftfahrt-Bundesamt

concerning approval granted of a replacement brake lining assembly or replacement drum brake lining pursuant to Regulation No. 90 including series of amendment 02.

Numer der Genehmigung: E1*90R0 2066A*074000 04*00
Approval No.: 0246740004

Genehmigungscode: 0246740004
Approval Code:

- Name und Anschrift des Antragstellers:
Applicant's name and address:
Hangzhou Hangcheng Friction Material Co., Ltd
Hangzhou, Zhejiang 310018, / P.R. China
- Name und Anschrift des Herstellers:
Manufacturer's name and address:
Hangzhou Hangcheng Friction Material Co., Ltd
Hangzhou, Zhejiang 310018, / P.R. China
- Marke und Typ der Bremsbelag-Einheit/ des Trommelmilieu:
Make and type of brake lining assembly/drum brake lining:
Handelsmarken: - make: SORL, Miracle, TABOC, SOVIA, RULLI, HF MC, hangmo
Typ: - type: HBS4507

Certificate

Standard: IATF 16949:2016
(1st edition, 2016-04-01)

Certificate Registr. No.: 01111 038906
IATF Certificate No.: 0331069

Certificate Holder: Hangzhou Hangcheng Friction Material Co., Ltd.
M18-1-4, Economic and Technological Zone
Hangzhou City, Zhejiang Province 310018, P. R. China

Scope: Design and Manufacturing of Disc Brake Pads, Drum Brake Linings, Brake Shoe Assembly and Friction Material

Proof has been furnished by means of an audit that the requirements of IATF 16949:2016 are met.

Issue date/Expiry date: The certificate is valid from 2018-09-12 until 2021-09-11.

Release date: 2018-09-12

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Precision Right.

CERTIFICATE OF REGISTRATION

Intertek
Total Quality Assured

Unified Social Credit Identifier: 9133010140419500

Certificate Number: 0531390508

Initial Certification Date: 19 September 2019

Date of Certification Decision: 19 September 2019

Issuing Date: 19 September 2019

Valid Until: 23 March 2021

认证标准: OHSAS 18001:2007

认证范围: 盘式摩擦片、鼓式摩擦片、制动蹄总成和摩擦材料的设计和制造。

Hangzhou Hangcheng Friction Material Co., Ltd.
Main Site: M18-1-4, Hangzhou Economic and Development Zone, Zhejiang Province, P.R. China
has been registered by Intertek as conforming to the requirements of:

OHSAS 18001:2007

The management system is applicable to:
Design and Manufacture of Plate Friction Disk/Drum type friction Disk, Brake Assembly and Friction Material.

Intertek
Calin Moldoveanu
President, Business Assurance
Intertek Certification Limited, 10A Victory Park, Victory Road, Derby DE24 8BZ, United Kingdom

ИНТЕРТЕК

СИСТЕМА УПРАВЛЕНИЯ КАЧЕСТВОМ

ТУРЦИЯ

E9

СЕРТИФИКАТ

№ 0531390508

1. Названия и адреса заявителей / Applicant's name and address: HANGZHOU HANGCHENG REACTION 10A VICTORY PARK, VICTORY ROAD, DERBY DE24 8BZ, UNITED KINGDOM

2. Названия и адреса производителей / Manufacturer's name and address: HANGZHOU HANGCHENG REACTION 10A VICTORY PARK, VICTORY ROAD, DERBY DE24 8BZ, UNITED KINGDOM

3. Марки и типы тормозных колодок / Make and type of brake pads: HANGZHOU HANGCHENG REACTION 10A VICTORY PARK, VICTORY ROAD, DERBY DE24 8BZ, UNITED KINGDOM

4. Марки и типы тормозных дисков / Make and type of brake lining: HANGZHOU HANGCHENG REACTION 10A VICTORY PARK, VICTORY ROAD, DERBY DE24 8BZ, UNITED KINGDOM

5. Марки и типы тормозных барабанов / Make and type of drum brake lining: HANGZHOU HANGCHENG REACTION 10A VICTORY PARK, VICTORY ROAD, DERBY DE24 8BZ, UNITED KINGDOM

Advanced Equipment



△ Drilling Workshop



△ Heat Pressing Workshop



△ Heat Pressing Workshop



△ Brake Shoes Shaping Workshop



△ Riveting Workshop



△ Packaging Workshop

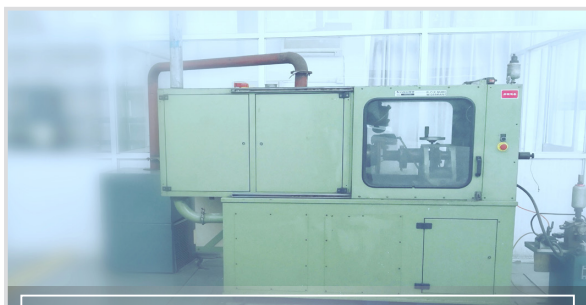
HFMC's laboratory has a perfect team with professional skills. The laboratory equips professional testing equipments, such as Dynamometers test machine, Krauss test machine, Chase test machine, and has various of equipments of metallographic phase, compression, expansion, impact, shear, hardness, density. Under technical assistance from SORL, HFMC is building validation grounds in Wenzhou.



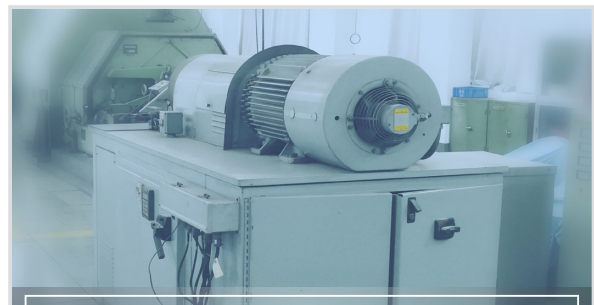
SCHENCK Bench(Commercial Vehicle)



SCHENCK Bench(Passenger Car)



KRAUSS Testing Machine



Chase Testing Machine

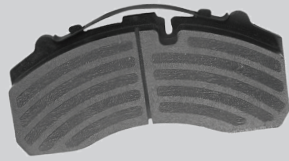


Physical Analysis



Chemical Analysis

CONTENT



Brake Pads
For Commercial Vehicle

Application Index

1-7

Sketches

8-12



Brake Pads
For Passenger Car

Application Index

13-18

Sketches

19-30



Brake Pad Accessories

31



Brake Linings

32-50



Brake Shoes

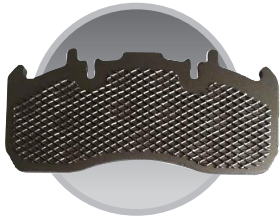
51-52



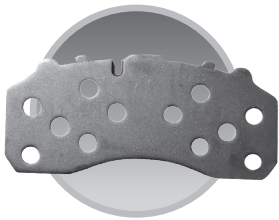
Brake Shoes Accessories

53

PRODUCT STRUCTURE



Weld-mesh backing plate



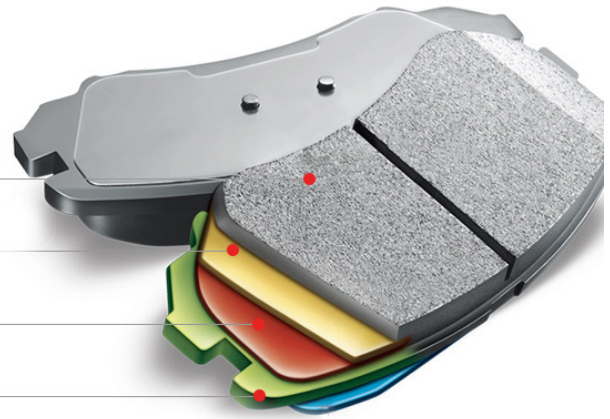
Punching backing plate

Friction material

Underlayer

Adhesive

Back plate



BRAKE PAD

PACKAGE INFORMATION



OE No.	SORL No.	Page
011-1004-0830	HM4708	2
011-1004-0830/0840	HM4709	2
117007	HM4535	7
12022-37581	HM5647-1	34
17276	HM5409	39
17276	HM5409-1	39
17276	HM5409-2	39
19030	HM5635B	43
19032	HM5603	32
19033	HM5635A	43
19036	HM5609B	43
19037	HM5609A	43
19075	HM5624	41
19090	HM5638	43
19094	HM5703	32
19109	HM5636A	36
19110	HM5636B	36
19116	HM5736A	36
19119	HM5736B	36
19160	HM5634	40
19187	HM5820	43
19245FF	HM5519B	35
19245FR	HM5519A	35
19246	HM5619	35
19246	HM5619-1	47
19247	HM5819	35
19283	HM5621B	44
19283	HM5621B-1	44
19283	HM5621B-2	44
19284	HM5621A	44
19284	HM5621A-1	44
19284	HM5621A-2	44
19366	HM5709B	33
19367	HM5709A	33
19369	HM5809B	45
19369	HM5809B-1	45
19369	HM5809B-2	45
19370	HM5809A	45
19370	HM5809A	50
19370	HM5809A-1	45
19370	HM5809A-2	45
19384	HM5625A	35

OE No.	SORL No.	Page
19385	HM5625B	36
19477	HM5726B	45
19478	HM5726A	45
19486	HM5516	38
19486	HM5516-1	38
19486	HM5516-2	38
19487	HM5616	38
19488	HM5816	38
19494	HM5515	37
19495	HM5615	38
19496	HM5815	38
19515	HM5724B	44
19516	HM5724A	44
19553	HM5717A	36
19554	HM5717B	36
19555	HM5617B	35
19556	HM5617A	35
19574	HM5721	32
19574	HM5721-1	32
19574	HM5721-2	32
19579	HM5502A	37
19579	HM5503A	37
19580	HM5502B	37
19581	HM5802A	38
19581	HM5803A	38
19582	HM5802B	38
19591	HM5822	33
19706	HM5503B	37
19707	HM5803B	38
19931	HM5601	45
19932	HM5701	46
19933	HM5901	46
19933	HM5901-1	46
19933	HM5901-2	46
19934	HM5523	43
19935	HM5623	43
19938	HM5602	48
19938	HM5602-1	48
19939	HM5702	49
19940	HM5801	49
19940	HM5801-1	49
19940	HM5801-2	49

OE No.	SORL No.	Page
1-47115-174-0	HM5650	36
1-47115-406-0	HM5420	36
1-47126669-0	HM5836	36
20011	HM4103	18
20031	HM4221	16
20168	HM4308	15
20168	HM4308-1	15
20547	HM4429	15
20635	HM4211	14
20640	HM4502	13
20780	HM4104	18
20887	HM4420	15
20904	HM4317	18
20905	HM4212	13
20926	HM4508	13
20961	HM4108	15
21158	HM4433	17
21160	HM4213	14
21193	HM4503	15
21202	HM4432	13
21207	HM4406	13
21209	HM4203	14
21229	HM4402	17
21363	HM4451	14
21469	HM4424	13
21497	HM4421	17
21543	HM4331	13
21553	HM4107	16
21561	HM4419	13
21576	HM4514	13
21590	HM4513	13
21601	HM4449	14
21672	HM4321	14
21694	HM4450	17
21697	HM4452	17
21719	HM4110	17
21754	HM4410	13
21833	HM4219	14
21875	HM4301	15
21899	HM4101	13
21919	HM4102	13
21933	HM4313	18

INDEX BY OE PART NUMBERS

OE No.	SORL No.	Page
21945	HM4308-2	15
21947	HM4328	14
21980	HM4404	13
23003	HM4427	14
23086	HM4501	17
23099	HM4437	13
23106	HM4507	16
23112	HM4505	18
23120	HM4510	15
23130	HM4438-1	14
23137	HM4311	13
23150	HM4405	14
23241	HM4322	16
23290	HM4415	17
23302	HM4422	13
23325	HM4411	16
23346	HM4319	14
23396	HM4403	14
23408	HM4318	14
23417	HM4204	15
23428	HM4414	13
23440	HM4509	13
23482	HM4312	13
23510	HM4306	17
23526	HM4330	17
23543	HM4207	18
23557	HM4303	13
23569	HM4447	18
23582	HM4329	14
23585	HM4316	17
23587	HM4511	14
23592	HM4106	14
23658	HM4105	17
23669	HM4302	17
23736	HM4111	17
23801	HM4506	13
23806	HM4409	14
23814	HM4216	13
23859	HM4428	14
23891	HM4407	18
23914	HM4215	14
23954	HM4418	14

OE No.	SORL No.	Page
23973	HM4304	13
23979	HM4315	14
23980	HM4202	13
23994	HM4309	16
24071	HM4210	16
24123	HM4512	13
24246	HM4453	16
24260	HM4208	13
24317	HM4320	18
24320	HM4201	18
24336	HM4423	14
24337	HM4439	17
24338	HM4205	14
24342	HM4504	17
24350	HM4515	14
24393	HM4314	13
24415	HM4408	15
24421	HM4217	15
24435	HM4227	17
24483	HM4214	14
24486	HM4310	13
24544	HM4425	13
24902	HM4109	13
25008	HM4327	14
25031	HM4417	15
25031	HM4441	15
25096	HM4305	15
25232	HM4209	16
25683	HM4533	7
29011	HM4901	3
29024	HM4701	1
29030	HM4909	6
29032	HM4707	3
29037	HM4223	14
29043	HM4702	6
29067	HM4603	3
29074	HM4609	3
29076	HM4521	5
29077	HM4703	1
29087	HM4903	1
29087	HM4903-1	1
29088	HM4605	1

OE No.	SORL No.	Page
29090	HM4907	3
29093	HM4811	3
29100	HM4813	6
29121	HM4522	3
29122	HM4602	3
29123	HM4224	14
29124	HM4706	1
29125	HM4906	7
29126	HM4805	1
29131	HM4908	2
29136	HM4607	7
29137	HM4802	7
29141	HM4705	1
29142	HM4704	1
29143	HM4904	6
29148	HM4611	4
29151	HM4814	7
29158	HM4812	5
29159	HM4806	1
29160	HM4520	3
29162	HM4809	1
29165	HM4810	1
29167	HM4902	1
29171	HM4807	1
29173	HM4815	6
29174	HM4905	6
29175	HM4823	6
29177	HM4808	6
29181	HM4803	4
29190	HM4416	13
29200	HM4530	5
29228	HM4817	1
29229	HM4518	3
29231	HM4610	3
29232	HM4430	14
29244	HM4710	5
29254	HM4911	2
29256	HM4604	3
29278	HM4917	1
29278	HM4917-1	7
29279	HM4822	2
29280	HM4916	1

OE NO.	SORL No.	Page
29302	HM4608	2
29385	HM4916-1	2
29835	HM4601	2
29840	HM4220	17
29937	HM5518	42
29938	HM5818	42
240909	HM4443	17
380HP-R	HM5834-1	35
41039-90113	HM5423	42
41039-90566	HM5302	42
41039-90870	HM5531	42
41039-93128	HM5646-1	42
4311J	HM5629	32
44066-90229 BM	HM5843	42
44066-90314	HM5640	42
44066-90326	HM5825-1	42
44066-90379	HM5542	42
44066-90564	HM5842	42
440669Z01B	HM5743	42
440669Z01D	HM5653	42
44066-NA213C	HM5837-1	42
4515C ANC	HM5611A	32
4515C CAM	HM5611B	32
4515E ANC	HM5613A	32
4515E CAM	HM5613B	32
4515G ANC	HM5612A	32
4515G CAM	HM5612B	32
4516 ANC	HM5711A	34
4516 CAM	HM5711B	34
4551 ANC	HM5811A	33
4551 CAM	HM5811B	33
4644 ANC	HM5712A	40
4644 CAM	HM5712B	40
4702 ANC	HM5209A	33
4702 CAM	HM5209B	33
4705 ANC	HM5618A	35
4705 CAM	HM5618B	35
4707 ANC	HM5614A	33
4707 CAM	HM5614B	33
4709	HM5630	32
4710 ANC	HM5821A	46
4710 CAM	HM5821B	46

OE NO.	SORL No.	Page
4711 ANC	HM5812B	43
4711 CAM	HM5812A	43
4715 ANC	HM5510A	32
4715 CAM	HM5510B	32
47441-4240	HM5739-1	34
47441-6670	HM5532	34
47441-7650A	HM5543	34
47441-9640	HM5541	34
47441-9650	HM5833-1	35
53212-3501105	HM5418A	36
53212-3501105	HM5418B	37
53229-3501105	HM5419A	37
53229-3501105	HM5419B	37
6520-3501105	HM5642A	37
6520-3501105	HM5642B	37
6520-3501105-01	HM5643A	37
6520-3501105-01	HM5643B	37
8R-0821	HM4914	2
9C-0566	HM4915	1
D1000	HM4440	18
D1035	HM4435	16
D1397	HM4401	18
D1423	HM4206	14
D1644	HM4431	16
D1883	HM4226	18
D1888	HM4222	16
D1941	HM4448	18
D768	HM4438	14
DZ9160340068	HM5824	35
K6C-3501140	HM4824	2
MC 824934	HM5421	34
MC 824946	HM5742	34
VIE20K-3501113	HM4816	1
YF3501DA05-040	HM4820	1
YF3501DA06-040	HM4818	1

OE NO.	SORL No.	Page
YF3501DA20-040	HM4819	1
	AK001	31
	AK002	31
	AK003	31
	AK004	31
	AK005	31
	AK006	31
	AK007	31
	AK008	31
	AK009	31
	AK010	31
	AK011	31
	AK015	31
	AK016	31
	AK018	31
	AK019	31
	AK021	31
	AK022	31
	AK023	31
	AK026	53
	AK027	53
	AK028	53
	AK031	53
	AK032	53
	AK033	53
	AK035	53
	AK036	53
	AK037	53
	AK038	53
	AK039	53
	AK040	53
	AK041	53
	AK042	53
	AK043	53
	AK044	53



INDEX BY VEHICLE APPLICATIONS

BOVA

No.	SORL No.	WVA No.	FMSI No.	TRW No.	Cross Ref.	Length	Width	Thickness
1	HM4903	29061				247.6	109.5	30
		29087						
		29108						
		29179						
2	HM4903-1	29061				247.6	109.5	29.5
		29087						
		29108						
3	HM4917	29179				248	109.6	29.5
		29278						

BPW

No.	SORL No.	WVA No.	FMSI No.	TRW No.	Cross Ref.	Length	Width	Thickness
1	HM4706	29124				205.5	102.3	27
2	HM4807	29171		GDB5093		210.5	108	30
3	HM4809	29162	D1777			210.5	109.5	32
4	HM4810	29165		GDB5092		210.7	92.5	30
5	HM4816				VIE20K-3501113	219	93	30
6	HM4817	29228				210.4	114.5	29.5
		29355						
7	HM4818				YF3501DA06-040	223.6	103.2	30
8	HM4819				YF3501DA20-040	224.7	100.3	30
9	HM4820				YF3501DA05-040	219.7	91	29.6
10	HM4902	29167				247.5	109.5	30

CAT

No.	SORL No.	WVA No.	FMSI No.	TRW No.	Cross Ref.	Length	Width	Thickness
1	HM4915				9C0566/9C0567	322.37	100.5	22

DAF

No.	SORL No.	WVA No.	FMSI No.	TRW No.	Cross Ref	Length	Width	Thickness
1	HM4605	29088	D1518	GDB5069	YF3501AD01-040	175.5	85.5	26
		29285						
2	HM4701	29024	D494			191	86.5	22.8
3	HM4703	29077		GDB5070		204.2	106	26.5
4	HM4704	29142	D1517	GDB5084		204.5	96.7	29.8
		29141						
5	HM4705	29119				204.5	99.5	29.8
		29142						
6	HM4805	29126	D1438-8556			210.45	92.3	29.8
7	HM4806	29159	D1438			210.45	92.3	29.85
8	HM4816				VIE20K-3501113	219	93	30
9	HM4903	29061				247.6	109.5	30
		29087						
		29108						
		29179						
10	HM4903-1	29061				247.6	109.5	30
		29087						
		29108						
11	HM4916	29179				247.5	104.5	30
		29280			AZ9100444050			
12	HM4917	29278				248	109.6	29.5

ERF

No.	SORL No.	WVA No.	FMSI No.	TRW No.	Cross Ref.	Length	Width	Thickness
1	HM4908	29131				249.7	118.2	32

FORD

No.	SORL No.	WVA No.	FMSI No.	TRW No.	Cross Ref.	Length	Width	Thickness
1	HM4608	29302	D442	GDB5056		175.7	78	22

FUWA

No.	SORL No.	WVA No.	FMSI No.	TRW No.	Cross Ref.	Length	Width	Thickness
1	HM4809	29162	D1777		GDB5094	210.6	109.6	32
2	HM4820				DZ9100440047	219.7	91	29.6
3	HM4822	29223 29279 29337				217.1	102.3	29.5

HINO

No.	SORL No.	WVA No.	FMSI No.	TRW No.	Cross Ref.	Length	Width	Thickness
1	HM4601	29835	D1062			174.5	85.5	21.6
2	HM4708				011-1004-0830	209.1	70.6	18.3
3	HM4709				011-1004-0830/0840	209.5	68.4	18.3
4	HM4824				K6C-3501140	221	79.5	21.5
5	HM4914				CAT 8R-0821	277.5	84.5	22.7

HOWO

No.	SORL No.	WVA No.	FMSI No.	TRW No.	Cross Ref.	Length	Width	Thickness
1	HM4911	29254			WG9100443050	250	100	30
2	HM4916	29280			AZ9100444050	247.5	104.5	30
3	HM4916-1	29385			WG9100444150	247.5	104.5	30

INDEX BY VEHICLE APPLICATIONS

IRISBUS

No.	SORL No.	WVA No.	FMSI No.	TRW No.	Cross Ref.	Length	Width	Thickness
1	HM4907	29090				249.6	114.5	28
2	HM4908	29131				249.7	118.2	32

ISUZU

No.	SORL No.	WVA No.	FMSI No.	TRW No.	Cross Ref.	Length	Width	Thickness
1	HM4708				011-1004-0830	209.1	70.6	18.3
2	HM4709				011-1004-0830/0840	209.5	68.4	18.3
3	HM4824				K6C-3501140	221	79.5	21.5
4	HM4914				CAT 8R-0821	277.5	84.5	22.7

IVECO

No.	SORL No.	WVA No.	FMSI No.	TRW No.	Cross Ref.	Length	Width	Thickness
1	HM4518	29229				163.1	66.9	20.3
2	HM4520	29160				164.5	67.5	19.5
3	HM4522	29121	D1487			164.5	66.5	20
4	HM4601	29835	D1062			174.5	85.5	21.6
5	HM4602	29122		GDB5068		174.6	85.4	22
6	HM4603	29067	D1027			175.3	78	22
7	HM4604	29256		GDB5113		175.4	95.1	27
8	HM4609	29074				179.8	106.3	19.5
9	HM4610	29231				184	64.5	22
10	HM4701	29024	D494			191	86.5	22.8
11	HM4707	29032		GDB5022	011-1004-1220	205.9	110	25
12	HM4811	29093	D442			210.7	92.5	30
		29094						
		29095						
		29096						
		29145						
13	HM4901	29184				241	125.3	25
		29197						
		29011						
14	HM4903	29061				247.6	109.5	30
		29087						
		29108						
		29179						
15	HM4903-1	29061				247.6	109.5	30
		29087						
		29108						
16	HM4917	29179				248	109.6	29.5
		29278						

KAMAZ

No.	SORL No.	WVA No.	FMSI No.	TRW No.	Cross Ref.	Length	Width	Thickness
1	HM4803	29181		GDB5100		210	93.4	30

MACK

No.	SORL No.	WVA No.	FMSI No.	TRW No.	Cross Ref.	Length	Width	Thickness
1	HM4704	29142	D1517	GDB5084		204.5	96.7	29.8
2	HM4705	29141 29119 29142				204.5	99.5	29.8

MAN

No.	SORL No.	WVA No.	FMSI No.	TRW No.	Cross Ref.	Length	Width	Thickness
1	HM4605	29088 29285	D1518	GDB5069	YF3501AD01-040	175.5	85.5	26
2	HM4611	29148 29115 29116 29183 29093 29094 29095	D1995	GDB5073		185/174	84/85	27/34
3	HM4811	29096 29145 29184 29197	D442			210.7	92.5	30
4	HM4816				VIE20K-3501113	219	93	30
5	HM4822	29223 29279 29337 29061			GDB5114	217.1	102.3	29.5
6	HM4903	29087 29108 29179 29061				247.6	109.5	30
7	HM4903-1	29087 29108 29179				247.6	109.5	30
8	HM4908	29131				249.7	118.2	32
9	HM4916	29280			AZ9100444050	247.5	104.5	30
10	HM4917	29278				248	109.6	29.5

INDEX BY VEHICLE APPLICATIONS

MERCEDES

No.	SORL No.	WVA No.	FMSI No.	TRW No.	Cross Ref.	Length	Width	Thickness
1	HM4520	29160				164.5	67.5	19.5
2	HM4521	29076	D1136			164.5	73.5	20
3	HM4530	29200	D1268			169	73.5	20
4	HM4611	29148 29115 29116 29183	D1995	GDB5073		185/174	84/85	27/34
5	HM4706	29124				205.5	102.3	27
6	HM4710	29244 29245				207.5	114.5	29
7	HM4811	29093 29094 29095 29096 29145 29184 29197	D442			210.7	92.5	30
8	HM4812	29158 29061	D1369			210.8	108	30
9	HM4903	29087 29108 29179 29061				247.6	109.5	30
10	HM4903-1	29087 29108 29179				247.6	109.5	30
11	HM4917	29278				248	109.6	29.5
12	HM4601	29835	D1062			174.5	85.5	21.6
13	HM4816				VIE20K-3501113	219	93	30

NEOPLAN

No.	SORL No.	WVA No.	FMSI No.	TRW No.	Cross Ref.	Length	Width	Thickness
1	HM4903	29061 29087 29108 29179				247.6	109.5	30
2	HM4903-1	29061 29087 29108 29179				247.6	109.5	30
3	HM4917	29278				248	109.6	29.5

NISSAN

No.	SORL No.	WVA No.	FMSI No.	TRW No.	Cross Ref.	Length	Width	Thickness
1	HM4518	29229				163.1	66.9	20.3
2	HM4522	29121	D1487			164.5	66.5	20
3	HM4610	29231				184	64.5	22

RENAULT

No.	SORL No.	WVA No.	FMSI No.	TRW No.	Cross Ref.	Length	Width	Thickness
1	HM4518	29229				163.1	66.9	20.3
2	HM4520	29160				164.5	67.5	19.5
3	HM4522	29121	D1487			164.5	66.5	20
4	HM4605	29088 29258	D1518	YUTONG	YF3501AD01-040	175.5	85.5	26
5	HM4610	29231				184	64.5	22
6	HM4702	29043		GDB5008		203.5	95.3	24
7	HM4704	29142	D1517	GDB5084		204.5	96.7	29.8
8	HM4705	29141 29119 29142				204.5	99.5	29.8
9	HM4803	29181		GDB5100		210	93.4	30
10	HM4805	29126	D1438-8556			210.45	92.3	29.8
11	HM4806	29159	D1438			210.45	92.3	29.85
12	HM4808	29177 29169		GDB5098		210.5	102.7	29
13	HM4813	29100		5071		214	112	24.5
14	HM4815	29173		GDB5102		216	96.5	29
15	HM4905	29174				249.5	109	29
16	HM4907	29090				249.6	114.5	28
17	HM4908	29131				249.7	118.2	32
18	HM4909	29030 29053 29083 29113 29210				249.7	118.2	28.2

SAF

No.	SORL No.	WVA No.	FMSI No.	TRW No.	Cross Ref.	Length	Width	Thickness
1	HM4809	29162	D1777			210.5	109.5	32
2	HM4812	29158	D1369			210.8	108	30
3	HM4816				VIE20K-3501113	219	93	30
4	HM4823	29175 29195 29198 29274 29294				210.1	93.8	29.5
5	HM4904	29143				247.6	105	30

SCANIA

No.	SORL No.	WVA No.	FMSI No.	TRW No.	Cross Ref.	Length	Width	Thickness
1	HM4816				VIE20K-3501113	219	93	30
2	HM4903	29061 29087 29108 29179				247.6	109.5	30
3	HM4903-1	29061 29087 29108 29179				247.6	109.5	30
4	HM4904	29143				247.6	105	30
5	HM4917	29278				248	109.6	29.5

INDEX BY VEHICLE APPLICATIONS

SHACMAN

No.	SORL No.	WVA No.	FMSI No.	TRW No.	Cross Ref.	Length	Width	Thickness
1	HM4820				DZ9100440047	219.7	91	29.6

VOLKAWAGEN

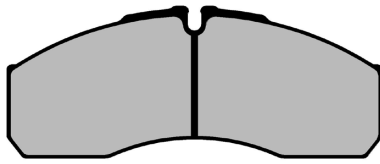
No.	SORL No.	WVA No.	FMSI No.	TRW No.	Cross Ref.	Length	Width	Thickness
1	HM4521	29076	D1136			164.5	73.5	20
2	HM4530	29200	D1268			169	73.5	20
3	HM4533	25683	D1760			160.2	64.75	18.9
4	HM4535				117007	152	60.7	17

VOLVO

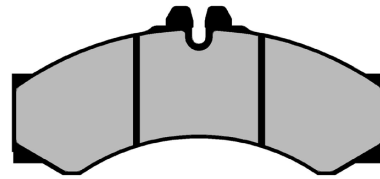
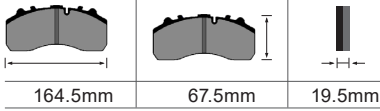
No.	SORL No.	WVA No.	FMSI No.	TRW No.	Cross Ref.	Length	Width	Thickness
1	HM4605	29088 29285	D1518		YF3501AD01-040	175.5	85.5	26
2	HM4607	29136	D442	GDB5088		175.7	89	29
3	HM4608	29302		GDB5056		175.7	78	22
4	HM4802	29137		GDB5089		210	102.5	29
5	HM4803	29181		GDB5100		210	93.4	30
6	HM4808	29177 29169		GDB5098		210.5	102.7	29
7	HM4814	29151				216	97	29
8	HM4815	29173		GDB5102		216	96.5	29
9	HM4905	29174				249.5	109	29
10	HM4906	29125				249.5	111	29
11	HM4907	29090				249.6	114.5	28

YUTONG

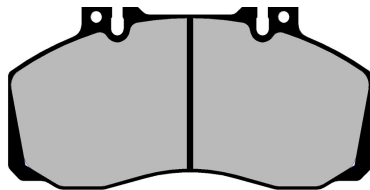
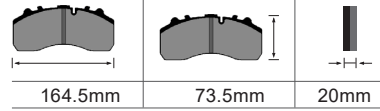
No.	SORL No.	WVA No.	FMSI No.	TRW No.	Cross Ref.	Length	Width	Thickness
1	HM4605	29088 29258	D1518		YF3501AD01-040	175.5	85.5	26
2	HM4819				YF3501DA20-040	224.7	100.3	30
3	HM4820				DZ9100440047	219.7	91	29.6
4	HM4903	29061 29087 29108 29179			3552-00429	247.6	109.5	30
5	HM4905	29174			3552-00741	249.5	109	29
6	HM4917	29278			3552-01127	248	109.6	29.5
7	HM4917-1	29278			3501-02424	248	109.6	29.5



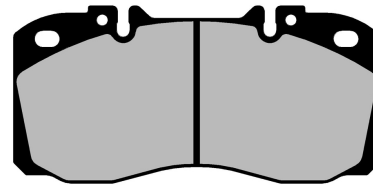
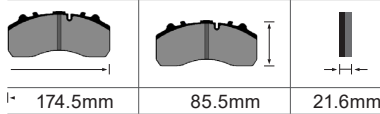
HM4520 **29160**



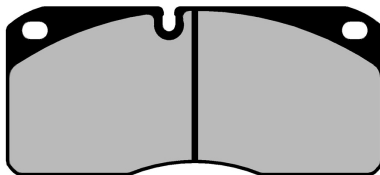
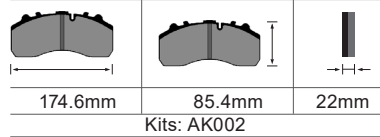
HM4521 **29076/D1136**



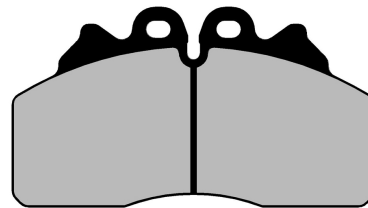
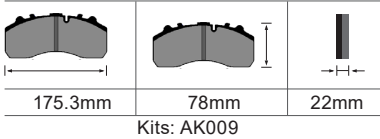
HM4601 **29835/29065**



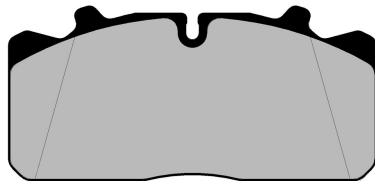
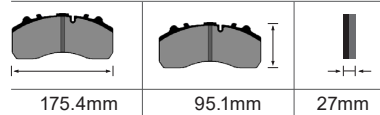
HM4602 **29122**



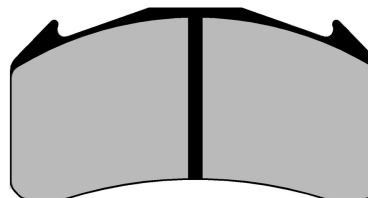
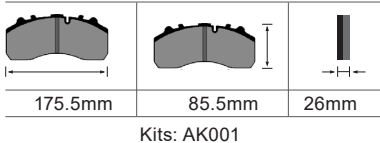
HM4603 **29067**



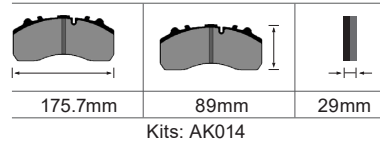
HM4604 **29256**

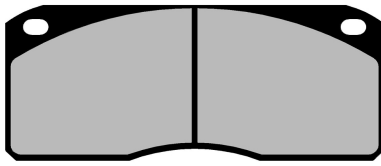


HM4605 **29088**

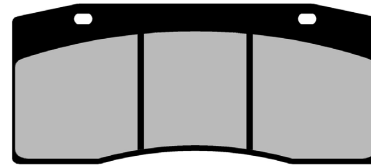


HM4607 **29136**

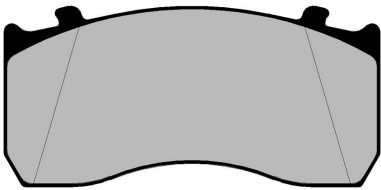




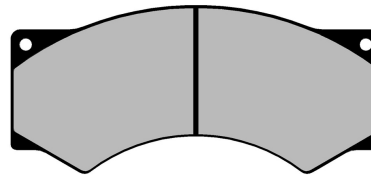
HM4608		29302	
175.7mm	78mm	22mm	



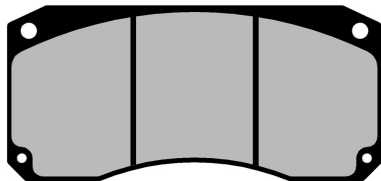
HM4609		29074	
179.8mm	106.3mm	19.5mm	



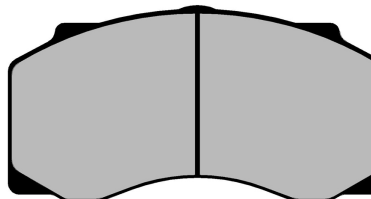
HM4611		29148/29115	
185/174mm	84/85mm	27/34mm	
Kits: AK016			



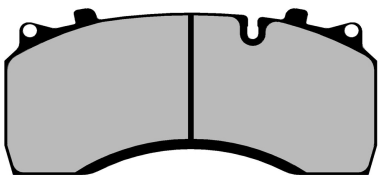
HM4701		29024/29017	
191mm	86.5mm	22.8mm	



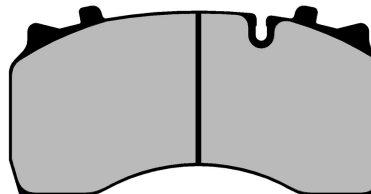
HM4702		29043	
203.5mm	95.3mm	24mm	



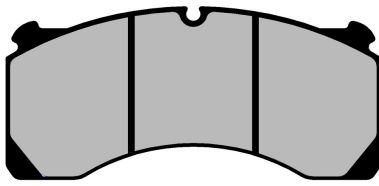
HM4703		29077	
204.2mm	106mm	26.5mm	



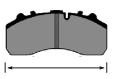


HM4704		29142	
204.5mm	96.7mm	29.8mm	
Kits: AK013			

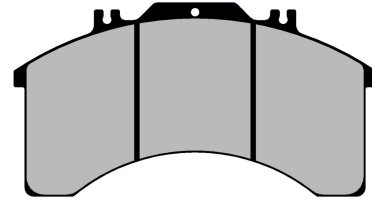


HM4705		29141	
204.5mm	99.5mm	29.8mm	
Kits: AK013			

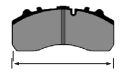




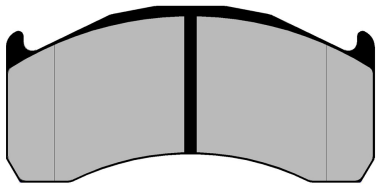
HM4706 **29124**

		
205.5mm	102.3mm	27mm
Kits: AK003		






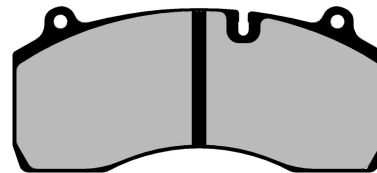
HM4707 **29032**

		
205.9mm	110mm	25mm
Kits: AK006		






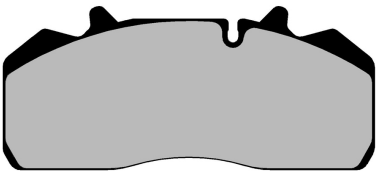
HM4802 **29137**

		
210mm	102.5mm	29mm
Kits: AK015		

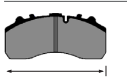




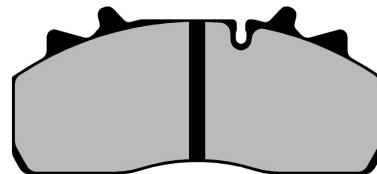
HM4803 **29181**

		
210mm	93.4mm	30mm
Kits: AK004		


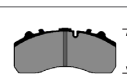



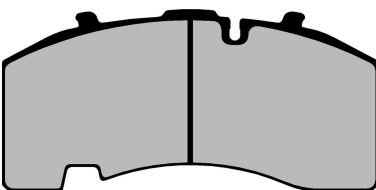
HM4805 **29159/29126**

		
210.45mm	92.3mm	29.8mm
Kits: AK005		

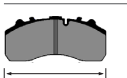




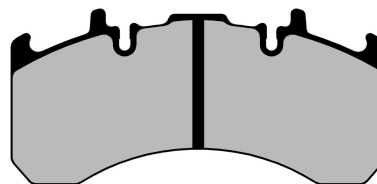
HM4806 **29159/29126**

		
210.45mm	92.3mm	29.85mm






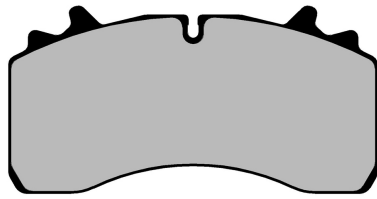
HM4807 **29171**

		
210.5mm	108mm	30mm
Kits: AK007		

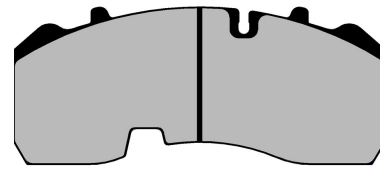


HM4808 **29177/29169**

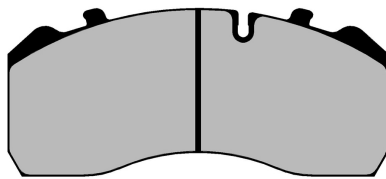
		
210.5mm	102.7mm	29mm
Kits: AK008		



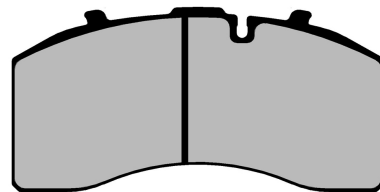
HM4809		29162
210.5mm	109.5mm	32mm
Kits: AK010		



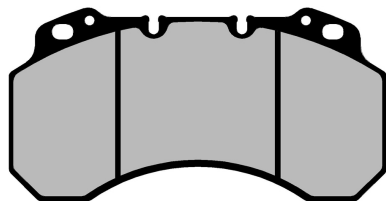
HM4810		29165
210.7mm	92.5mm	30mm
Kits: AK007		



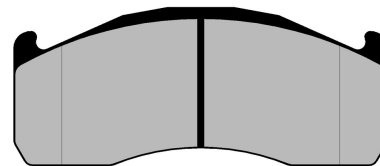
HM4811		29093/29095
210.7mm	92.5mm	30mm



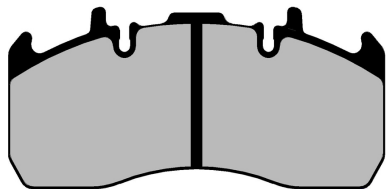
HM4812		29158/D1369
210.8mm	108mm	30mm
Kits: AK007		



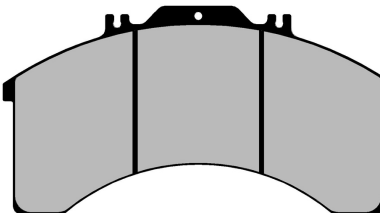
HM4813		29100
214mm	112mm	24.5mm
Kits: AK011		



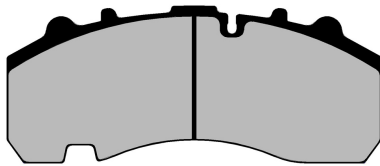
HM4814		29151
216mm	97mm	29mm
Kits: AK015		






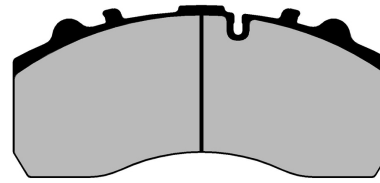
HM4815		29173/29203
216mm	96.5mm	29mm

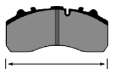




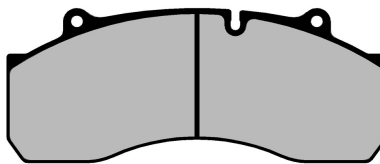
HM4901		29011
241mm	125.3mm	25mm






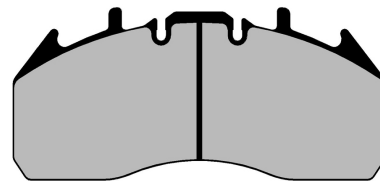
HM4902		29167	
			
247.5mm	109.5mm	30mm	
Kits: AK007			






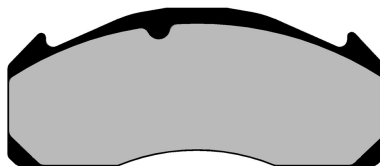
HM4903		29087/29042	
			
247.6mm	109.5mm	30mm	
Kits: AK016			

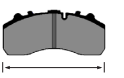




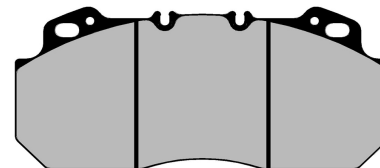
HM4904		29143/29145	
			
247.6mm	105mm	30mm	






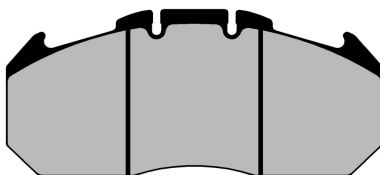
HM4905		29174/29204	
			
249.5mm	109mm	29mm	
Kits: AK008			

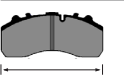




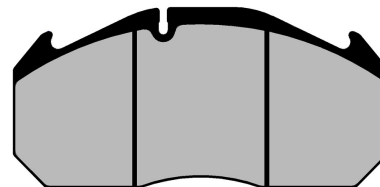
HM4906		29125	
			
249.5mm	111mm	29mm	
Kits: AK018			






HM4907		29090	
			
249.6mm	114.5mm	28mm	
Kits: AK019			



HM4908		29131	
			
249.7mm	118.2mm	32mm	
Kits: AK021			



HM4909		29030/29113	
			
249.7mm	118.2mm	28.2mm	
Kits: AK021			

INDEX BY VEHICLE APPLICATIONS

AUDI

S/N	SORL No.	WVA No.	FMSI No.	TRW No.	OE No.	Length	Width	Thickness
1	HM4214	24483	D1348			105.3	56.4	16
2	HM4215	23914	D1108			105.3	56.4	16
3	HM4327	25008	D1761			123	55.78	15.2
4	HM4438	23130	D768			146	54.7	19.8
5	HM4438-1	23130	D768			146	54.7	19.8
6	HM4506	23801/23912	D915			155.2	72.4	19.5

CHEVROLET

S/N	SORL No.	WVA No.	FMSI No.	TRW No.	OE No.	Length	Width	Thickness
1	HM4209	25232	D1315			103.8	38.9	13.6
2	HM4210	24071	D1036			104.5	37	13.5
3	HM4217	24421/24422	D1430			106.3	46.7	16.5
4	HM4222		D1888			108.7	42.4	15.3
5	HM4305	25096	D1468	GDB1844		116.5	42.7	16
6	HM4309	23994	D1466			120.9	37.2	13.6
7	HM4322	23241	D1321			127	48.3	16
8	HM4408	24415	D1421			131.4	59.3	17.6
9	HM4411	23325				131.7	77.3	16
10	HM4417	25031	D941			137	63.4	17
11	HM4429	20547	D1139			140.1	58.1	15.5
12	HM4431		D1644			141.3	48.2	16.6
13	HM4435		D1035			143.1	51.5	17.6
14	HM4441	25031				148	60.3	17.7

DAEWOO

S/N	SORL No.	WVA No.	FMSI No.	TRW No.	OE No.	Length	Width	Thickness
1	HM4210	24071	D1036			104.5	37	13.5
2	HM4309	23994	D1466			120.9	37.2	13.6
3	HM4322	23241	D1321			127	48.3	16
4	HM4429	20547	D1139			140.1	58.1	15.5
5	HM4435		D1035			143.1	51.5	17.6
6	HM4447	23569	D864			148.9	58.1	17

FIAT

S/N	SORL No.	WVA No.	FMSI No.	TRW No.	OE No.	Length	Width	Thickness
1	HM4314	24393				123	49	16.8
2	HM4315	23979	D1616			123	53.3	17
3	HM4427	23003				140	69	17.2
4	HM4428	23859	D1198			140	65.8	18
5	HM4437	23099	D1500			145	62.5	17
6	HM4503	21193				151.5	49.2	17

FORD

S/N	SORL No.	WVA No.	FMSI No.	TRW No.	OE No.	Length	Width	Thickness
1	HM4109	24902				87.8	54.8	15.3
2	HM4208	24260	D1071			101.7	50.4	16.3
3	HM4303	23557	D911			116.2	49.5	15.5
4	HM4310	24486				122.5	53.3	17
5	HM4311	23137	D1095			123	51.8	15.8
6	HM4312	23482	D973			123	51	15
7	HM4331	21543	D363			127	50.8	16.5
8	HM4410	21754				131.6	51.4	15.5
9	HM4424	21469				139	72	18
10	HM4425	24544	D867			139.2	58.7	15.6
11	HM4432	21202	D1196			141.5	44.6	17.2
12	HM4502	20640				151.3	46.2	17.5
13	HM4506	23801/23912	D915			155.2	72.4	19.5
14	HM4509	23440	D970			156.2	67.2/62.7	16.5
15	HM4512	24123/24124	D1306			155.4	72.1/66.9	19.5

HONDA

S/N	SORL No.	WVA No.	FMSI No.	TRW No.	OE No.	Length	Width	Thickness
1	HM4110	21719	D536			88.5	47.5	15
2	HM4111	23736	D1086			88.5	47.8	14.5
3	HM4227	24435	D1336			93.2	46.5	13.8
4	HM4301	21875	D580			110.7	43	16
5	HM4421	21497	D1956			137.8	52.5	18
6	HM4443	240909	D787	D1506		148.6	58.7	17
7	HM4450	21694	D621			136.5	57.8	17
8	HM4452	21697	D1643			131.4	54.5	16
9	HM4504	24342	D1089	GDB3581		155	58.2	17.8

ISUZU

S/N	SORL No.	WVA No.	FMSI No.	TRW No.	OE No.	Length	Width	Thickness
1	HM4107	21553/21554	D464			85.3	46.5	14
2	HM4301	21875	D580			110.7	43	16
3	HM4331	21543	D363			127	50.8	16.5

IVECO

S/N	SORL No.	WVA No.	FMSI No.	TRW No.	OE No.	Length	Width	Thickness
1	HM4213	21160				105	75	17.5
2	HM4223	29037				109.2	73	17.3
3	HM4224	29123				109.5	63.6	19.5
4	HM4430	29232				141.1	72.7	21

INDEX BY VEHICLE APPLICATIONS

KIA

S/N	SORL No.	WVA No.	FMSI No.	TRW No.	OE No.	Length	Width	Thickness
1	HM4107	21553/21554	D464			85.3	46.5	14
2	HM4201	24320	D1157	GDB3421		93.1	41.2	15.3
3	HM4207	23543/23454	D813			98.6	41	15
4	HM4320	24317	D1156			129.8	56	16.8
5	HM4401		D1397			130	57.3	15.6
6	HM4407	23891	D924	GDB3386		131.3	59.7	17
7	HM4447	23569	D864			148.9	58.1	17

LEXUS

S/N	SORL No.	WVA No.	FMSI No.	TRW No.	OE No.	Length	Width	Thickness
1	HM4106	23592	D835			82.5	38.3	14.5
2	HM4205	24338	D1212	GDB3426		96.6	49.7	15.2
3	HM4206		D1423			98.3	42.4	14.5
4	HM4219	21833	D685			107.5	42.7	14.6
5	HM4328	21947	D606			116	44	15.5
6	HM4409	23806	D908			131.5	58.9	17.3
7	HM4423	24336	D1210	GDB3425		139	56	17.2
8	HM4449	21601	D562			133	53	16.7
9	HM4515	24350	D1222			157.7	56.2	17.2

MAZDA

S/N	SORL No.	WVA No.	FMSI No.	TRW No.	OE No.	Length	Width	Thickness
1	HM4221	20031	D283	D482		108	39.5	13
2	HM4410	21754				131.6	51.4	15.5
3	HM4425	24544	D867			139.2	58.7	15.6
4	HM4432	21202	D1196			141.5	44.6	17.2
5	HM4453	24246	D1642			131.3	56.2	16
6	HM4502	20640				151.3	46.2	17.5
7	HM4506	23801/23912	D915			155.2	72.4	19.5

MERCEDES

S/N	SORL No.	WVA No.	FMSI No.	TRW No.	OE No.	Length	Width	Thickness
1	HM4101	21899	D876			62	78	14
2	HM4102	21919	D779			62.2	72.9	14
3	HM4414	23428	D987			135	67.6	19
4	HM4416	29190				136.9	63.1	19.8
5	HM4513	21590/21591	D1006			156.5	54.8	18
6	HM4514	21576/21577	D950			156.5	64.5	20

MITSUBISHI

S/N	SORL No.	WVA No.	FMSI No.	TRW No.	OE No.	Length	Width	Thickness
1	HM4220	29840	D567			107.7	41	15
2	HM4328	21947	D606			116	44	15.5
3	HM4329	23582	D868			111.5/91	45	15.3
4	HM4411	23325				131.7	77.3	16
5	HM4415	23290				137.7	54.9	15.5
6	HM4451	21363	D530			149.8	58.5	16
7	HM4501	23086				151	51	15.5

NISSAN

S/N	SORL No.	WVA No.	FMSI No.	TRW No.	OE No.	Length	Width	Thickness
1	HM4402	21229	D266			130	49	16
2	HM4419	21561/21562	D815			137.2	54.2	16.5
3	HM4421	21497	D1956			137.8	52.5	18
4	HM4501	23086				151	51	15.5
5	HM4202	23980	D808			94.8	57.2	16
6	HM4216		D905			105.6	37.8	14
7	HM4302		D1205			115.7	51.3	16
8	HM4304		D1435	GDB2017		116.4	53.2	16

OPEL

S/N	SORL No.	WVA No.	FMSI No.	TRW No.	OE No.	Length	Width	Thickness
1	HM4202	23980	D808			94.8	57.2	16
2	HM4204	23417				95.5	42.8	14
3	HM4217	24421/24422	D1430			106.3	46.7	16.5
4	HM4301	21875	D580			110.7	43	16
5	HM4305	25096	D1468	GDB1844		116.5	42.7	16
6	HM4311	23137	D1095			123	51.8	15.8
7	HM4312	23482	D973			123	51	15
8	HM4331	21543	D363			127	50.8	16.5
9	HM4408	24415	D1421			131.4	59.3	17.6
10	HM4417	25031	D941			137	63.4	17
11	HM4422	23302				138.8	66.5	17.6
12	HM4429	20547	D1139			140.1	58.1	15.5
13	HM4437	23099	D1500			145	62.5	17
14	HM4441	25031				148	60.3	17.7
15	HM4508	20926	D1902			155.7	56.6	18.5

INDEX BY VEHICLE APPLICATIONS

PEUGEOT

S/N	SORL No.	WVA No.	FMSI No.	TRW No.	OE No.	Length	Width	Thickness
1	HM4211	20635	D1220			105	54.6	11
2	HM4212	20905	D371			105	54.3	17.6
3	HM4315	23979	D1616			123	53.3	17
4	HM4318	23408				129	56	18
5	HM4319	23346				129.7	56.3	18.5
6	HM4321	21672	D1221			129.9	56.5	18
7	HM4329	23582	D868			111.5/91	45	15.3
8	HM4403	23396	D2016			130.5	52.5	16.5
9	HM4404	21980				130.7	47	17
10	HM4405	23150				130.9	57.2	15.5
11	HM4418	23954				137	52	18
12	HM4427	23003				140	69	17.2
13	HM4428	23859	D1198			140	65.8	18
14	HM4451	21363	D530			149.8	58.5	16
15	HM4511	23587/23588	D1107			156.3	71.7/66	19.6
16	HM4108	20961	D340			87	53	15
17	HM4203	21209	D454			95	49	18
18	HM4212	20905	D371			105	54.3	17.6
19	HM4315	23979	D1616			123	53.3	17
20	HM4406	21207				131	65.5	16

RENAULT

S/N	SORL No.	WVA No.	FMSI No.	TRW No.	OE No.	Length	Width	Thickness
1	HM4202	23980	D808			94.8	57.2	16
2	HM4212	20905	D371			105	54.3	17.6
3	HM4216	23814/23871	D905			105.6	37.8	14
4	HM4303	23557	D911			116.2	49.5	15.5
5	HM4304	23973	D1435	GDB2017		116.4	53.2	16
6	HM4314	24393				123	49	16.8
7	HM4404	21980				130.7	47	17
8	HM4406	21207				131	65.5	16
9	HM4419	21561/21562	D815			137.2	54.2	16.5
10	HM4422	23302				138.8	66.5	17.6
11	HM4437	23099	D1500			145	62.5	17
12	HM4508	20926	D1902			155.7	56.6	18.5

TOYOTA

S/N	SORL No.	WVA No.	FMSI No.	TRW No.	OE No.	Length	Width	Thickness
1	HM4105	23658	D1051			78.2	54	14
2	HM4106	23592	D835			82.5	38.3	14.5
3	HM4205	24338	D1212	GDB3426		96.6	49.7	15.2
4	HM4206		D1423			98.3	42.4	14.5
5	HM4219	21833	D685			107.5	42.7	14.6
6	HM4221	20031	D283	D482		108	39.5	13
7	HM4306	23510	D822	GDB3242		116.5	51.3	16.5
8	HM4316	23585	D862			123	60.4	17
9	HM4328	21947	D606			116	44	15.5
10	HM4330	23526	D817			116.5	58.5	17
11	HM4409	23806	D908			131.5	58.9	17.3
12	HM4423	24336	D1210	GDB3425		139	56	17.2
13	HM4433	21158	D303			143	56	14
14	HM4439	24337	D1211			146.5	57	17.5
15	HM4449	21601	D562			133	53	16.7
16	HM4515	24350	D1222			157.7	56.2	17.2

VOLKSWAGEN

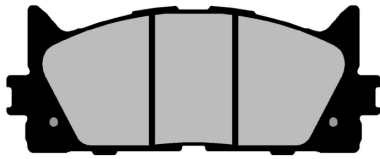
S/N	SORL No.	WVA No.	FMSI No.	TRW No.	OE No.	Length	Width	Thickness
1	HM4108	20961	D340			87	53	15
2	HM4214	24483	D1348			105.3	56.4	16
3	HM4215	23914	D1108			105.3	56.4	16
4	HM4308	20168	D684			119.3	69.6	19.4
5	HM4308-1	20168	D684			119.3	69.6	19.4
6	HM4308-2	21945	D704			119.3	69.6	16.3
7	HM4327	25008	D1761			123	55.78	15.2
8	HM4416	29190				136.9	63.1	19.8
9	HM4420	20887/20888	D307			137.6	51.3	17.3
10	HM4438		D768			146	54.7	19.8
11	HM4438-1	23130	D768			146	54.7	19.8
12	HM4506	23801/23912	D915			155.2	72.4	19.5
13	HM4510	23120	D1660			156.3	54.3	17.5
14	HM4511	23587/23588	D1107			156.3	71.7	19.6
15	HM4513	21590/21591	D1006			156.5	54.8	18
16	HM4514	21576/21577	D950			156.5	64.5	20

VOLVO

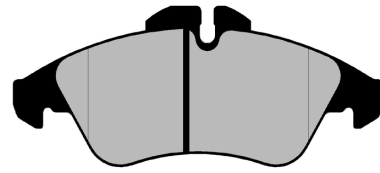
S/N	SORL No.	WVA No.	FMSI No.	TRW No.	OE No.	Length	Width	Thickness
1	HM4311	23137	D1095			123	51.8	15.8
2	HM4312	23482	D973			123	51	15
3	HM4506	23801/23912	D915			155.2	72.4	19.5
4	HM4507	23106	D840			155.3	74	19.5
5	HM4512	24123/24124	D1306			155.4	72.1	19.5

OTHER BRANDS

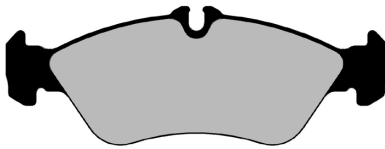
S/N	SORL No.	WVA No.	FMSI No.	TRW No.	OE No.	Length	Width	Thickness
1	HM4103	20011	D45			76.6	70	14.8
2	HM4104	20780				77.5	63.5	13.5
3	HM4226		D1883			103.6	42.9	14.5
4	HM4313	21933/21934	D763		SFP9005A	123	45	16.5
5	HM4317	20904				126.8	71	17.5
6	HM4440		D1000			147.7	56.6	16.6
7	HM4448		D1941			130	60.7	16.9
8	HM4505	23112	D1462		SFP9004A	155	69.85	19



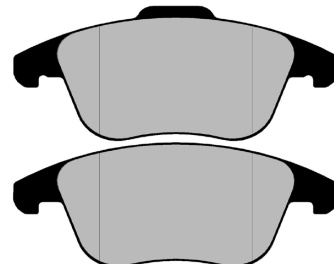
HM4515		D1222
157.7mm	56.2mm	17.2mm



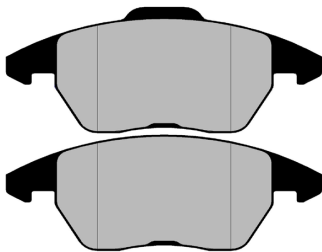
HM4514		21576/D950
156.5mm	64.5mm	20mm



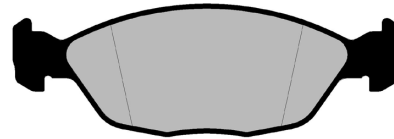
HM4513		21592/D1006
156.5mm	54.8mm	18mm



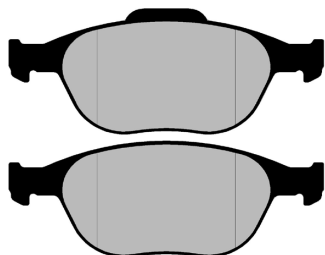
HM4512		D1306
155.4mm	72.1/66.9mm	19.5mm



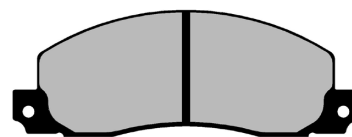
HM4511		D1107
156.3mm	71.7/66mm	19.6mm



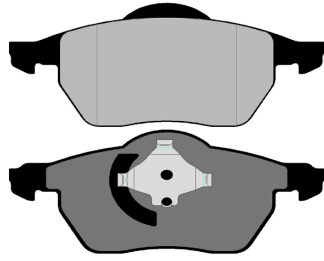
HM4510		D1660
156.3mm	54.3mm	17.5mm



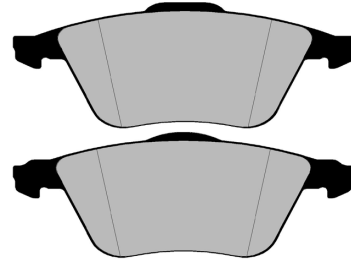
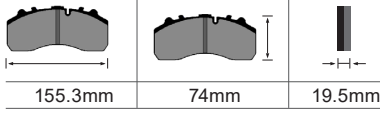
HM4509		23440/D970
156.2mm	67.2/62.7mm	16.5mm



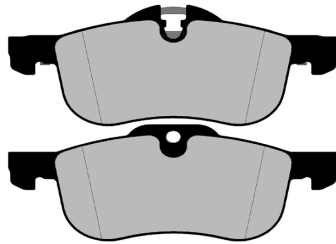
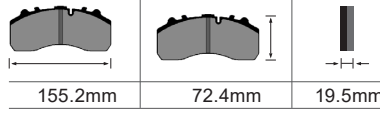
HM4508		20926
155.7mm	56.6mm	18.5mm



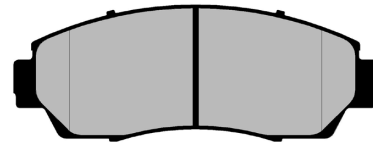
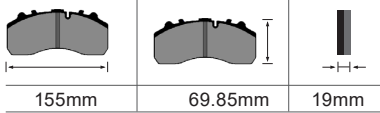
HM4507 **D840**



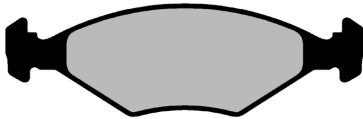
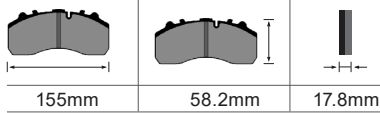
HM4506 **D915**



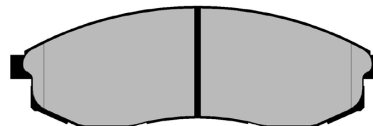
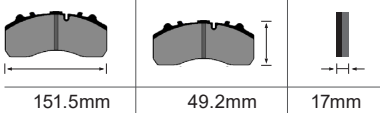
HM4505 **D1462**



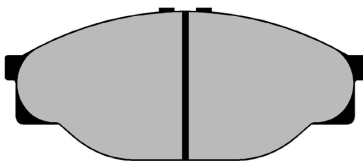
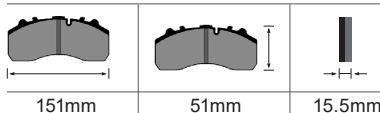
HM4504 **24342/D1089**



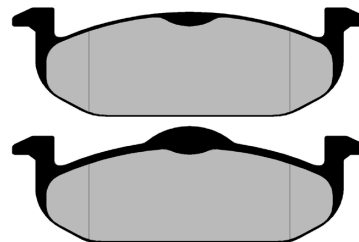
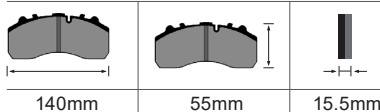
HM4503 **21193**



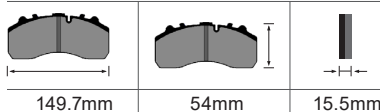
HM4501 **23086**

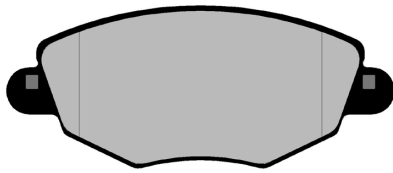


HM4446

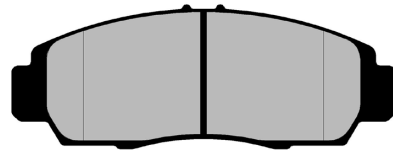


HM4445 **D910**

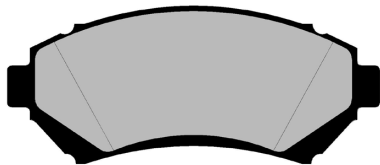




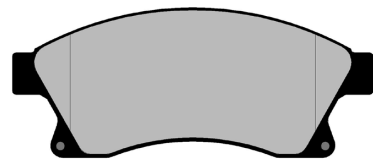
HM4444		GDB7832	
148.7mm	60.5mm		18.5mm



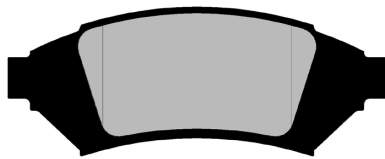
HM4443		D787/D1506	
148.6mm	58.7mm		17mm



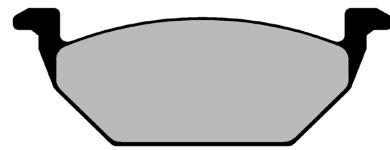
HM4442	
148mm	60.6mm



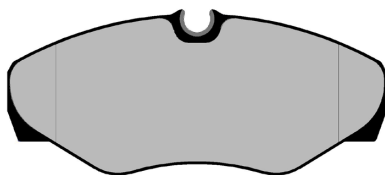
HM4441		25031/D1522	
148mm	60.3mm		17.7mm



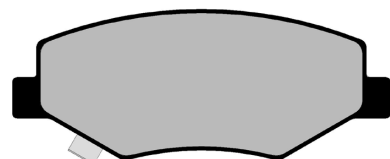
HM4440		D1000	
147.7mm	56.6mm		16.6mm



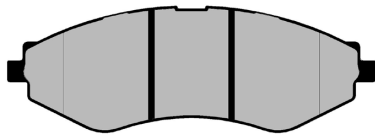
HM4438		D768	
146mm	54.7mm		19.8mm






HM4437		23099/D1500	
145mm	62.5mm		17mm

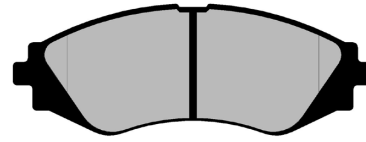


HM4436	
144.4mm	56.7mm






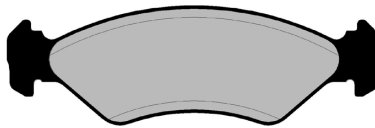
HM4435 **D1035**

		
143.1mm	51.5mm	17.6mm

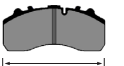




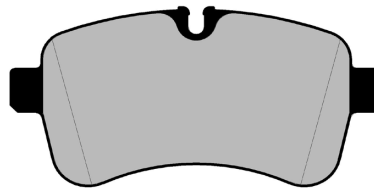
HM4434 **GDB7583**

		
143mm	51.2mm	16.5mm






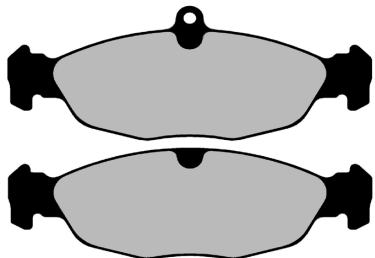
HM4432 **21202/D1196**

		
141.5mm	44.6mm	17.2mm






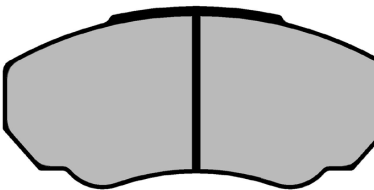
HM4430 **29232**

		
141.1mm	72.7mm	21mm






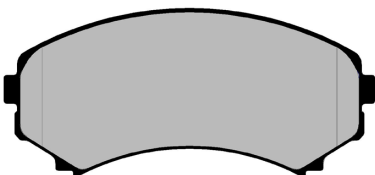
HM4429 **20547/D1139**

		
140.1mm	58.1mm	15.5mm






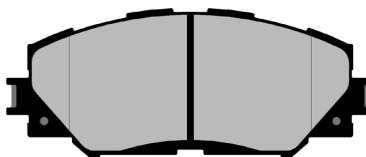
HM4428 **23859/D1198**

		
140mm	65.8mm	18mm






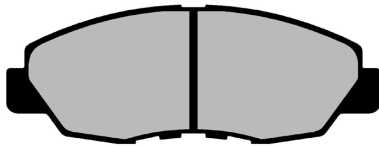
HM4425 **24544/D867**

		
139.2mm	58.7mm	15.6mm

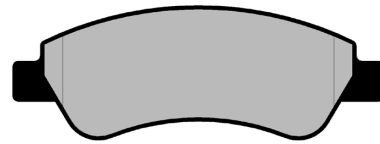
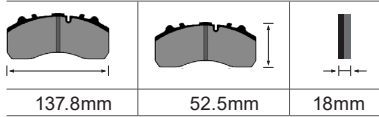


HM4423 **24336/D1210**

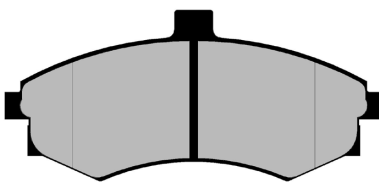
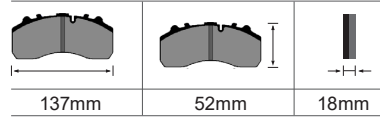
		
139mm	56mm	17.2mm



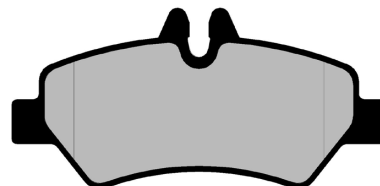
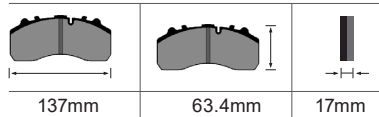
HM4421 21497/D1956



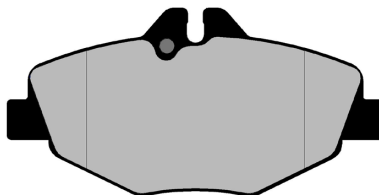
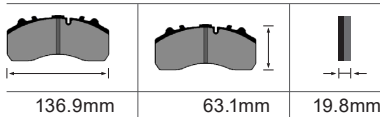
HM4418 23954



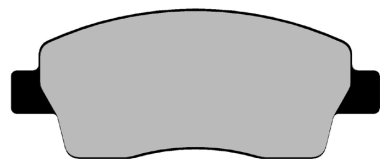
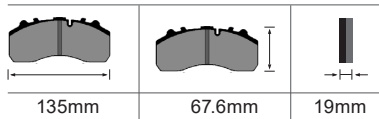
HM4417 25031/D941



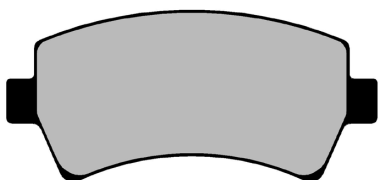
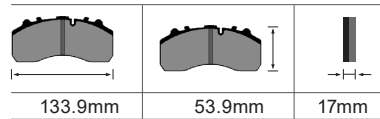
HM4416 29190



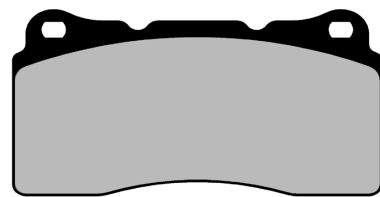
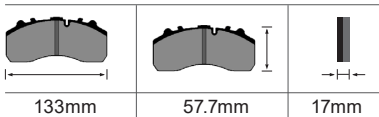
HM4414 23428/D987



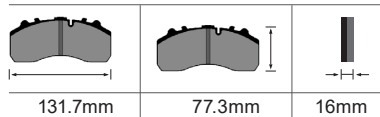
HM4413

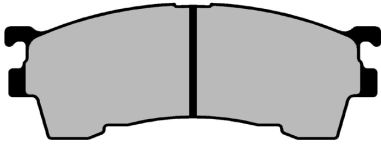





HM4412

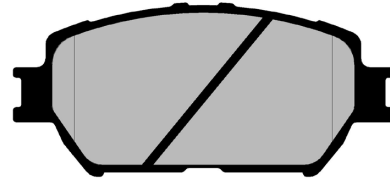





HM4411 23325

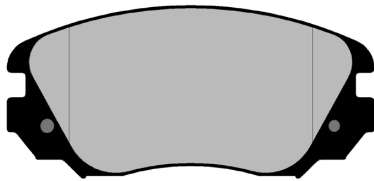







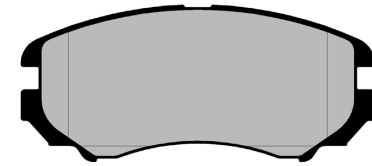
HM4410		21754	
			
131.6mm	51.4mm	15.5mm	






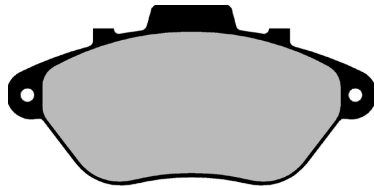
HM4409		D908	
			
131.5mm	58.9mm	17.3mm	

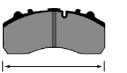




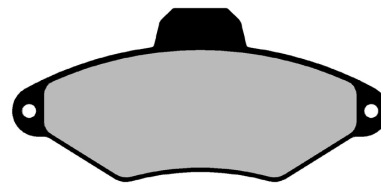
HM4408		D1421	
			
131.4mm	59.3mm	17.6mm	






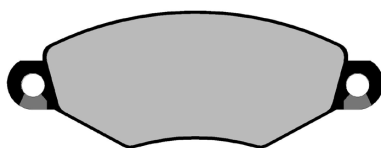
HM4407		23891/D924	
			
131.3mm	59.7mm	17mm	






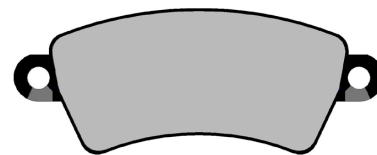
HM4406		21207	
			
131mm	65.5mm	16mm	






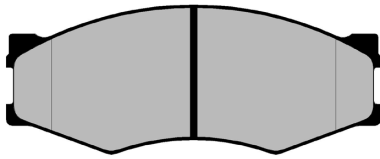
HM4405		23150	
			
130.9mm	57.2mm	15.5mm	



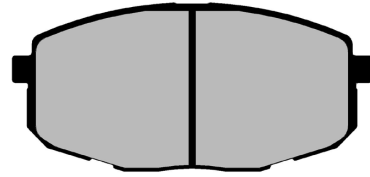
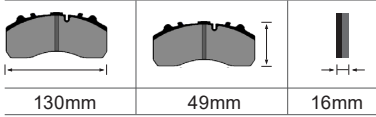
HM4404		21980	
			
130.7mm	47mm	17mm	



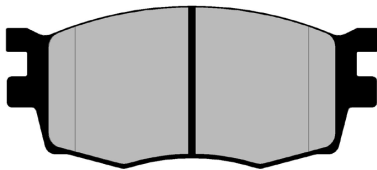
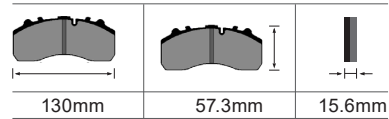
HM4403		23396/D2016	
			
130.5mm	52.5mm	16.5mm	



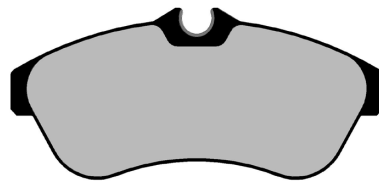
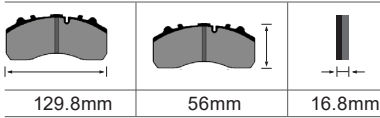
HM4402 **21229/D266**



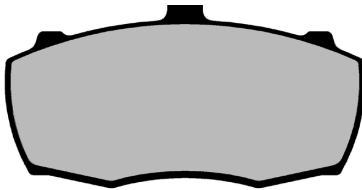
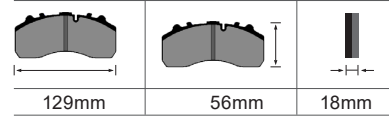
HM4401 **D1397**



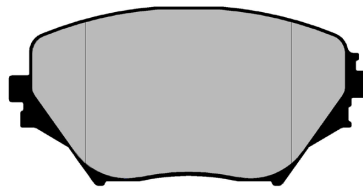
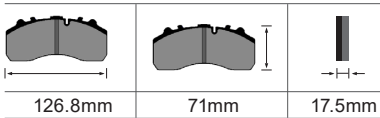
HM4320 **D1156**



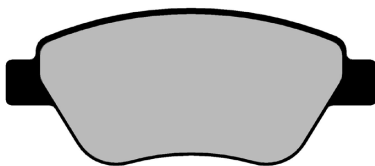
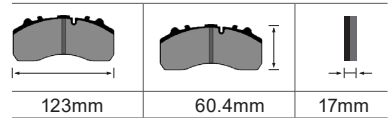
HM4318 **23408**



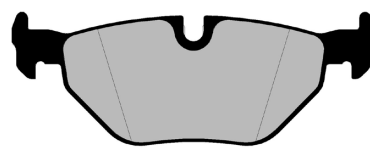
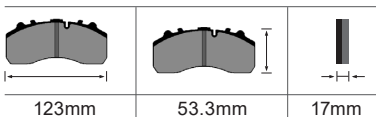
HM4317 **20904**



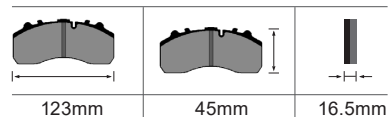
HM4316 **23585/D862**

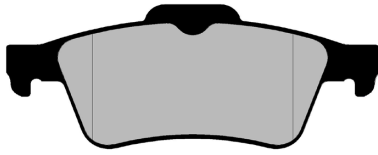





HM4315 **23979/D1616**

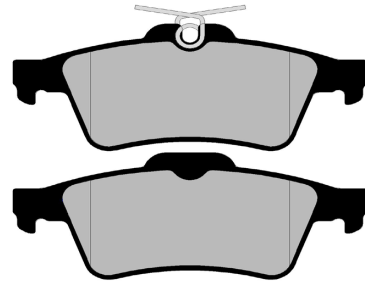





HM4313 **D763**

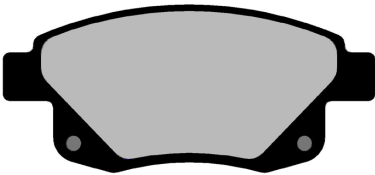


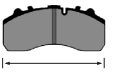




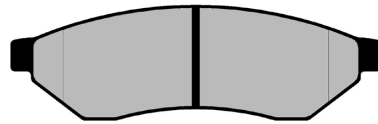
HM4312		D973
		
123mm	51mm	15mm






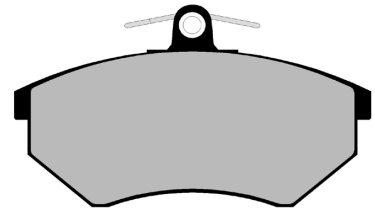
HM4311		23137/D1095
		
123mm	51.8mm	15.8mm






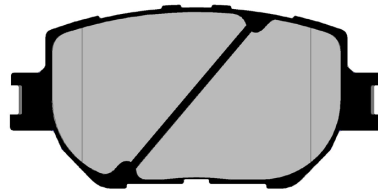
HM4310		24486
		
122.5mm	53.3mm	17mm






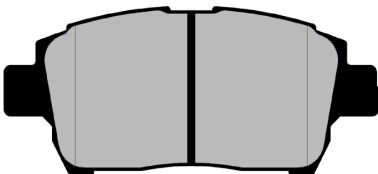
HM4309		D1466
		
120.9mm	37.2mm	13.6mm






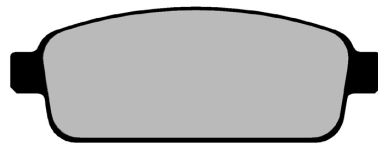
HM4308		D704
		
119.3mm	69.6mm	16.3mm






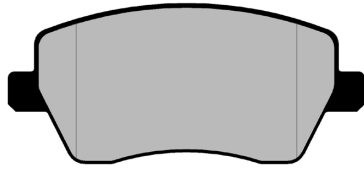
HM4307		
		
116.7mm	58.3mm	17mm



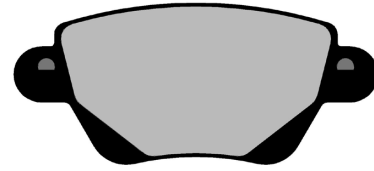
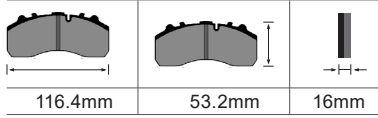
HM4306		23510/D822
		
116.5mm	51.3mm	16.5mm



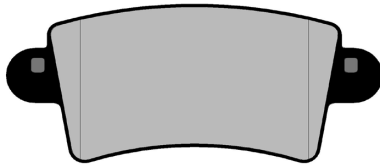
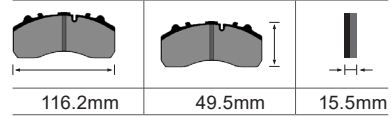
HM4305		25096/D1468
		
116.5mm	42.7mm	16mm



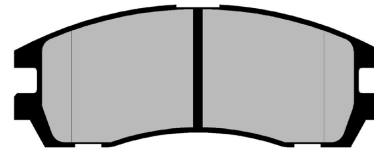
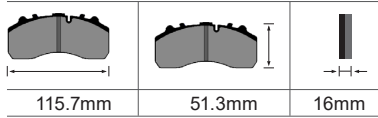
HM4304 23973/D1435



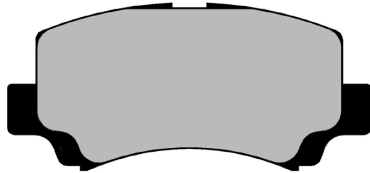
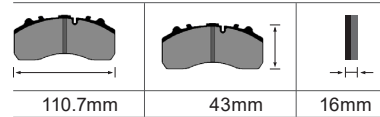
HM4303 D911



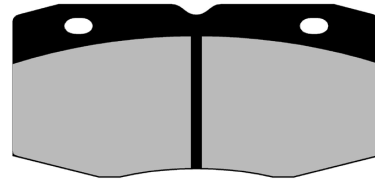
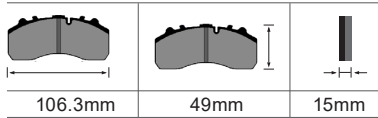
HM4302 23669/D1205



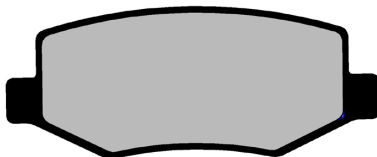
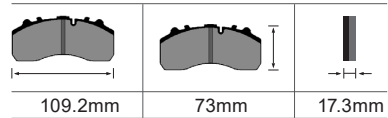
HM4301 D580



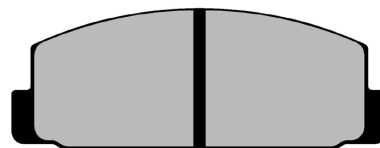
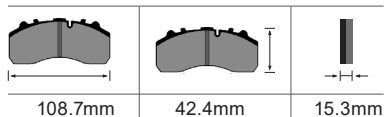
HM4225



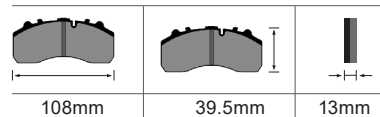
HM4223 29037

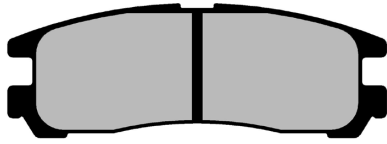


HM4222 D1888

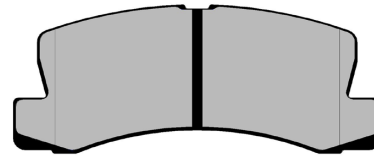
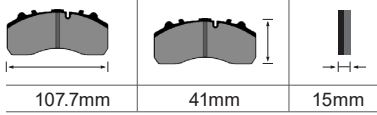


HM4221 20031/D283

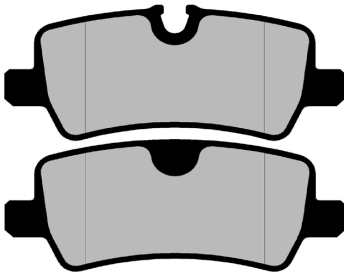
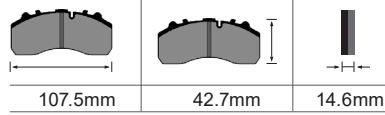




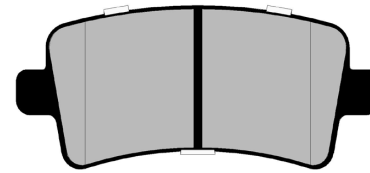
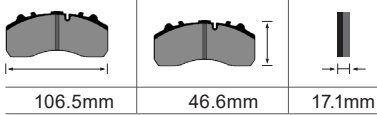
HM4220 29840/D567



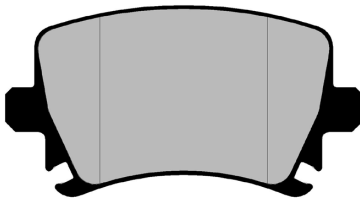
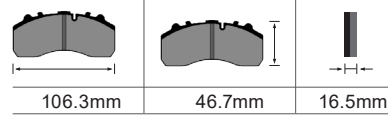
HM4219 21833/D685



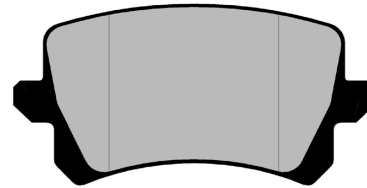
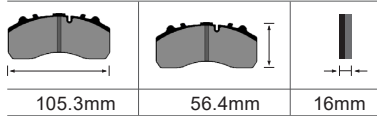
HM4218 32349252



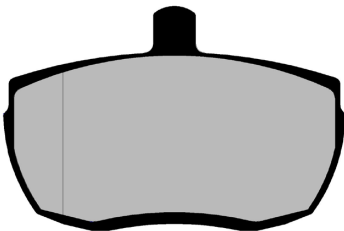
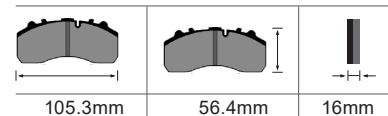
HM4217 D1430



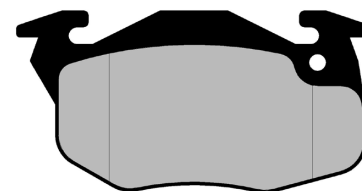
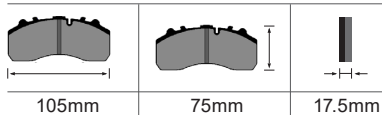
HM4215 D1108



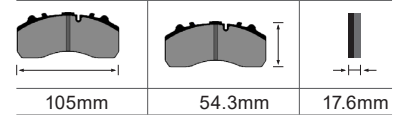
HM4214 D1348

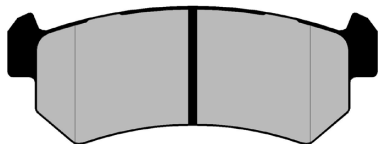


HM4213 21160

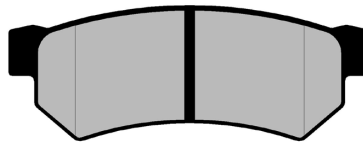


HM4212 20905/D371

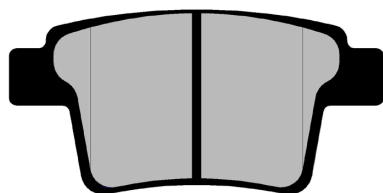




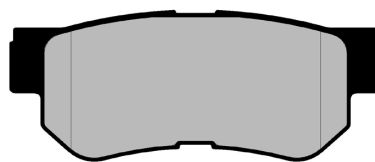
HM4210		D1036	
104.5mm	37mm		13.5mm



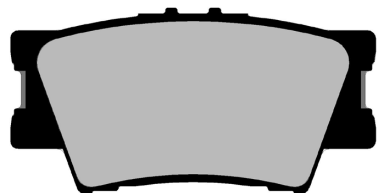
HM4209		D1315	
103.8mm	38.9mm		13.6mm



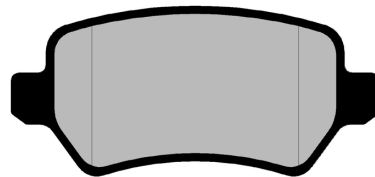
HM4208		D1071	
101.7mm	50.4mm		16.3mm



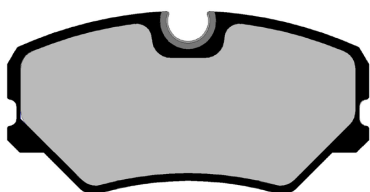
HM4207		D813	
98.6mm	41mm		15mm



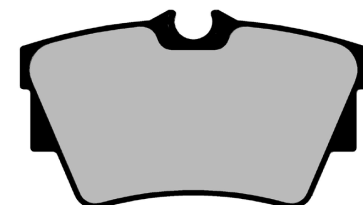
HM4205		24338/D1212	
96.6mm	49.7mm		15.2mm



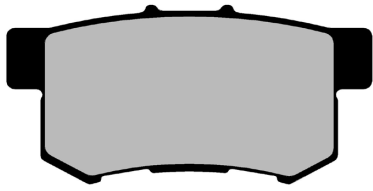
HM4204		23417	
95.5mm	42.8mm		14mm



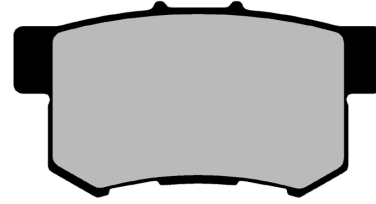
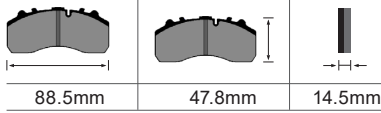
HM4203		21209/D454	
95mm	49mm		18mm



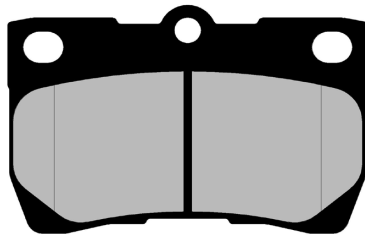
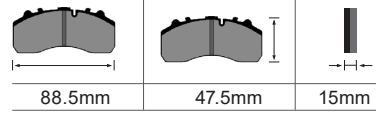
HM4202		D808	
94.8mm	57.2mm		16mm



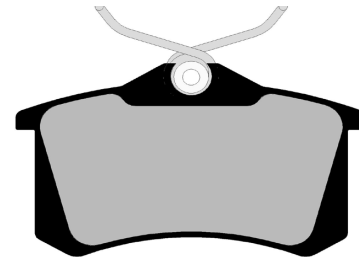
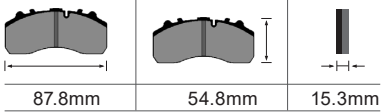
HM4111 **D1086**



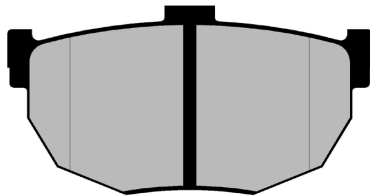
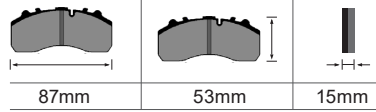
HM4110 **D536**



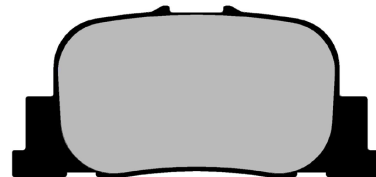
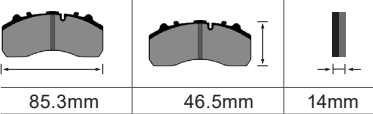
HM4109 **24902**



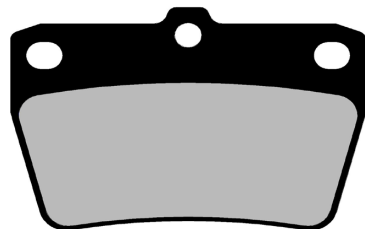
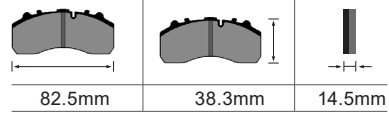
HM4108 **D340**



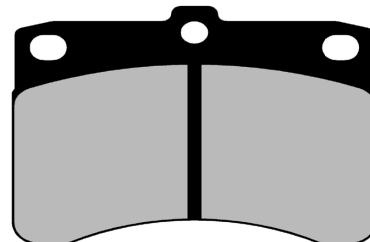
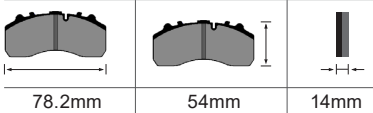
HM4107 **D464**



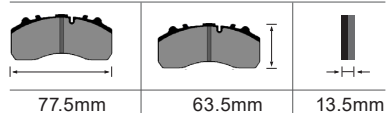
HM4106 **D835**



HM4105 **D1051**

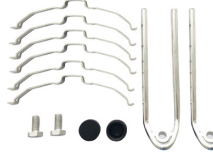



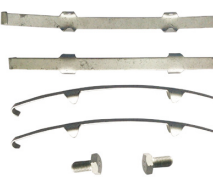
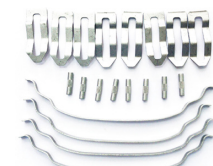





HM4104 **20780**




















Accessory Kits	Kits P/N	Kits For
	AK001	HM4605
	AK002	HM4602
	AK003	HM4706
	AK004	HM4803
	AK005	HM4805 HM4806
	AK006	HM4707 HM4901
	AK007	HM4807 HM4810 HM4811 HM4812 HM4902
	AK008	HM4815 HM4905
	AK009	HM4603


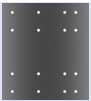

Accessory Kits	Kits P/N	Kits For
	AK010	HM4809
	AK011	HM4813
	AK015	HM4802 HM4814
	AK016	HM4611 HM4903
	AK018	HM4906
	AK019	HM4907
	AK021	HM4908 HM4909
	AK022	HM4710 HM4912
	AK023	HM4817

BPW









Pictures	SORL No.	WVA No.	Cross Ref	FMSI No.	Internal Arc	Width	Thickness 1	Thickness 2	Hub Diameter	Hole
	HM5510A			4715 ANC	194.6	152.4	20.3	12.2	203	12
	HM5510B			4715 CAM	189.1	152.4	21.4	17.9	203	12
	HM5603	19032	BC/36/1		203.9	180	16.9	11.6	205	10
	HM5611A	19037		4515C ANC	194.6	177.8	17.6	11.6	203	12
	HM5611B	19036		4515C CAM	189.1	177.8	18.5	15.8	203	12
	HM5612A			4515G ANC	194.6	177.8	17.6	11.6	203	14
	HM5612B			4515G CAM	189.1	177.8	18.5	15.8	203	14
	HM5613A			4515E ANC	194.6	177.8	17.6	11.6	203	16
	HM5613B			4515E CAM	189.1	177.8	18.5	15.8	203	16
	HM5629	19896		4311J	198.9	177.8	18.6		190	14
	HM5630			4709	196.1	177.8	21.5	14.6	203	14
	HM5703	19094	BC/37/1		203.9	200	16.9	11.6	205	10
	HM5721	19574	BC/80/1		144	200	16.5	11.9	146	8
	HM5721-1	19574	BC/80/1		144	200	17.5	12.9	146	8
	HM5721-2	19574	BC/80/1		144	200	18.5	13.9	146	8

INDEX BY VEHICLE APPLICATIONS




BPW

Pictures	SORL No.	WVA No.	Cross Ref	FMSI No.	Internal Arc	Width	Thickness 1	Thickness 2	Hub Diameter	Hole
	HM5811A			4551 ANC	194.6	219.1	17.4	11.4	203	16
	HM5811B			4551 CAM	189.1	219.1	18.3	15.6	203	16
	HM5822	19591			203	220	16.9	11.6	205	10







DAF

Pictures	SORL No.	WVA No.	Cross Ref	FMSI No.	Internal Arc	Width	Thickness 1	Thickness 2	Hub Diameter	Hole
	HM5209A			4702 ANC	177.1	101	18	11.2	184.7	8
	HM5209B			4702 CAM	171.2	101	18.7	15.5	184.7	8
	HM5614A			4707 ANC	194.6	177.8	20	11.6	203	14
	HM5614B			4707 CAM	189.1	177.8	21.2	17.5	203	14
	HM5703	19094	BC/37/1		203.9	200	16.9	11.6	205	10
	HM5709A	19366			194	203	18	10	203	12
	HM5709B	19365	FT/17/1		189	203	18	15	203	12
	HM5822	19591			203	220	16.9	11.6	205	10





FUSO

Pictures	SORL No.	WVA No.	Cross Ref	FMSI No.	Internal Arc	Width	Thickness 1	Thickness 2	Hub Diameter	Hole
	HM5421		MC 824934		191	140	16		189	10
	HM5647-1		12022-37581		192	189	16		194.5	12
	HM5742		MC 824946 MC 824943		191	200	16		189	14

FUWA



Pictures	SORL No.	WVA No.	Cross Ref	FMSI No.	Internal Arc	Width	Thickness 1	Thickness 2	Hub Diameter	Hole
	HM5613A			4515E ANC	194.6	177.8	17.6	11.6	203	12
	HM5613B			4515E CAM	189.1	177.8	18.5	15.5	203	12
	HM5811A			4551 ANC	194.6	219.1	17.4	11.4	203	16
	HM5811B			4551 CAM	189.1	219.1	18.3	15.6	203	16
	HM5711A		CA32	4516 ANC	194.6	203.2	17.6	11.1	203.2	16
	HM5711B		CA32	4516 CAM	189.1	203.2	18.2	15.2	203.2	16

HINO






Pictures	SORL No.	WVA No.	Cross Ref	Internal Arc	Width	Thickness 1	Thickness 2	Hub Diameter	Hole
	HM5532		47441-6670	194	150	15		187	12
	HM5541		47441-9640	192	150	15		189	10
	HM5543		47441-7650A	193	160	15		187	12
	HM5739-1		2308-355610 47441-4240	196	200	15.5		187	12

INDEX BY VEHICLE APPLICATIONS






HINO

Pictures	SORL No.	WVA No.	Cross Ref	Internal Arc	Width	Thickness 1	Thickness 2	Hub Diameter	Hole
	HM5833-1		47441-9650	192	220	16		190	16
	HM5834-1		380HP-R	192	220	15.5		190	16








HOWO

Pictures	SORL No.	WVA No.	Cross Ref	Internal Arc	Width	Thickness 1	Thickness 2	Hub Diameter	Hole
	HM5519A	19245FR	WG9100440027	186	160	14.5		195	8
	HM5519B	19245FF	WG9100440029	136	160	14.5		195	6
	HM5619	19246	WG9200340068	186	185	14.5		195	8
	HM5819	19247	WG9100440028	186	220	14.5			14
	HM5824		DZ9160340068	186	220	15		195	16




IVECO

Pictures	SORL No.	WVA No.	Cross Ref	FMSI No.	Internal Arc	Width	Thickness 1	Thickness 2	Hub Diameter	Hole
	HM5617A	19556	RW/28/1		196	180	20.9	13.8	201.5	12
	HM5617B	19555	RW/28/2		196	180	20.9	13.8	201.5	12
	HM5618A			4705 ANC	177.1	177.8	17.8	11	184.7	14
	HM5618B			4705 CAM	171.2	177.8	18.7	15.5	184.7	14
	HM5625A	19384	CW/4/1		189.1	178	18	13	185	12



IVECO

Pictures	SORL No.	WVA No.	Cross Ref	FMSI No.	Internal Arc	Width	Thickness 1	Thickness 2	Hub Diameter	Hole
	HM5625B	19385	CW/4/2		189.1	178	18	13	185	12
	HM5636A	19109			195.5	180	21.8	14.8		12
	HM5636B	19110			195.5	180	21.8	14.8		12
	HM5717A	19553	RW/29/1		195	200	20.9	13.8	201.5	12
	HM5717B	19554	RW/29/2		195	200	20.9	13.8	201.5	12
	HM5736A	19116			195.5	200	21.8	14.5	201.5	12
	HM5736B	19119			195.5	200	21.8	14.5	201.5	12

ISUZU








Pictures	SORL No.	WVA No.	Cross Ref	FMSI No.	Internal Arc	Width	Thickness 1	Thickness 2	Hub Diameter	Hole
	HM5420		1-47115-406-0		192	140	15		189	10
	HM5650		1-47115-174-0		194	178	14.5		190	13
	HM5836		1-47126669-0		193	220	15		189	17

KAMAZ








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	HM5629	19896		4311J	198.9	177.8	18.6		190	14
	HM5418A		53212-3501105		186	140	18.5	11	196	8

INDEX BY VEHICLE APPLICATIONS
















KAMAZ

Pictures	SORL No.	WVA No.	Cross Ref	FMSI No.	Internal Arc	Width	Thickness 1	Thickness 2	Hub Diameter	Hole
	HM5418B		53212-3501105		186	140	18.5	13	196	8
	HM5419A		53229-3501105		186	140	18.3	12.8	196	8
	HM5419B		53229-3501105		153	140	18.3	13.8	196	8
	HM5642A		6520-3501105		186	180	18	10	206	12
	HM5642B		6520-3501105		186	180	18	15	206	12
	HM5643A		6520-3501105-01		162	180	18		206	9
	HM5643B		6520-3501105-01		162	180	18		206	9

MAN

















Pictures	SORL No.	WVA No.	Cross Ref	FMSI No.	Internal Arc	Width	Thickness 1	Thickness 2	Hub Diameter	Hole
	HM5209A			4702 ANC	177.1	101	18	11.2	184.7	8
	HM5209B			4702 CAM	171.2	101	18.7	15.5	184.7	8
	HM5502A	19579	MB/75/1		217.2	160	16.7	8.3	200	10
	HM5502B	19580	MB/74/1		173.7	160	17.4	15.3	200	8
	HM5503A	19579	MB/75/2		217.2	160	16.7	8.3	200	10
	HM5503B	19706	MB/74/2		173.7	160	17.4	15.3	200	8
	HM5515	19494	MP/31/2		178	160	16.9	12.8	200	8

MAN

















Pictures	SORL No.	WVA No.	Cross Ref	FMSI No.	Internal Arc	Width	Thickness 1	Thickness 2	Hub Diameter	Hole
	HM5516	9486	MMP/31/1		178	160	16.9	12.8	200	8
	HM5516-1	19486	MP/31/1		178	160	17.9	13.8	200	8
	HM5516-2	19486	MP/31/1		178	160	18.9	14.8	200	8
	HM5611A	19037		4515C ANC	194.6	177.8	17.6	11.6	203	12
	HM5611B	19036		4515C CAM	189.1	177.8	18.5	15.8	203	12
	HM5615	19495	MP/32/2		178	180	16.9	12.8	200	8
	HM5616	19487	MP/32/1		178	180	16.9	12.8	200	8
	HM5711A			4516 ANC	194.6	203.2	17.6	11.1	203.2	16
	HM5711B			4516 CAM	189.1	203.2	18.2	15.2	203.2	16
	HM5802A	19581	MB/77/1		217	220	16.7	8.3	199.5	10
	HM5802B	19582	MB/76/1		174	220	17.4	15.3	199.5	8
	HM5803A	19581			217	220	17.9	8	199.5	10
	HM5803B	19707			174	220	18	15.4	199.5	8
	HM5815	19496	MB/36/2		178	222	16.9	12.8	200	8
	HM5816	19488	MP/36/1		178	222	16.9	12.8	200	8

INDEX BY VEHICLE APPLICATIONS

MERCEDES BENZ





Pictures	SORL No.	WVA No.	Cross Ref	FMSI No.	Internal Arc	Width	Thickness 1	Thickness 2	Hub Diameter	Hole
	HM5209A			4702 ANC	177.1	101	18	11.2	184.7	8
	HM5209B			4702 CAM	171.2	101	18.7	15.5	184.7	8
	HM5409	17276	MB/60/1		181.5	140	15		200	8
	HM5409-1	17276	MB/60/1		181.5	140	16		200	8
	HM5409-2	17276	MB/60/1		181.5	140	17		200	8
	HM5502A	19579	MB/75/1		217.2	160	16.7	8.3	200	10
	HM5502B	19580	MB/74/1		173.7	160	17.4	15.3	200	8
	HM5503A	19579	MB/75/2		217.2	160	16.7	8.3	200	10
	HM5503B	19706	MB/74/2		173.7	160	17.4	15.3	200	8
	HM5515	19494	MP/31/2		178	160	16.9	12.8	200	8
	HM5516	19486	MP/31/1		178	160	16.9	12.8	200	8
	HM5516-1	19486	MP/31/1		178	160	17.9	13.8	200	8
	HM5516-2	19486	MP/31/1		178	160	18.9	14.8	200	8
	HM5611A	19037		4515C ANC	194.6	177.8	17.6	11.6	203	12
	HM5611B	19036		4515C CAM	189.1	177.8	18.5	15.8	203	12
	HM5612A			4515G ANC	194.6	177.8	17.6	11.6	203	14

MERCEDES BENZ


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	HM5612B			4515G CAM	189.1	177.8	18.5	15.8	203	14
	HM5613A			4515E ANC	194.6	177.8	17.6	11.6	203	16
	HM5613B			4515E CAM	189.1	177.8	18.5	15.8	203	16
	HM5614A			4707 ANC	194.6	177.8	20	11.6	203	14
	HM5614B			4707 CAM	189.1	177.8	21.2	17.5	203	14
	HM5615	19495	MP/32/2		178	180	16.9	12.8	200	8
	HM5616	19487	MP/32/1		178	180	16.9	12.8	200	8
	HM5629	19896		4311J	198.9	177.8	18.6		190	14
	HM5630			4709	196.1	177.8	21.5	14.6	203	14
	HM5634	19160	MB/51/1		188	170	15		205	8
	HM5712A	19997		4644 ANC	194.6	203.2	17.6	11.1	203	16
	HM5712B	19017		4644 CAM	189.1	203.2	18.2	15.2	203	16
	HM5802A	19581	MB/77/1		217	220	16.7	8.3	199.5	10
	HM5802B	19582	MB/76/1		174	220	17.4	15.3	199.5	8
	HM5803A	19581			217	220	17.9	8	199.5	10
	HM5803B	19707			174	220	18	15.4	199.5	8

INDEX BY VEHICLE APPLICATIONS

MERCEDES BENZ

Pictures	SORL No.	WVA No.	Cross Ref	FMSI No.	Internal Arc	Width	Thickness 1	Thickness 2	Hub Diameter	Hole
	HM5811A			4551 ANC	194.6	219.1	17.4	11.4	203	16
	HM5811B			4551 CAM	189.1	219.1	18.3	15.6	203	16
	HM5815	19496	MB/36/2		178	222	16.9	12.8	200	8
	HM5816	19488	MP/36/1		178	222	16.9	12.8	200	8

NEOPLAN





Pictures	SORL No.	WVA No.	Cross Ref	FMSI No.	Internal Arc	Width	Thickness 1	Thickness 2	Hub Diameter	Hole
	HM5502A	19579	MB/75/1		217.2	160	16.7	8.3	200	10
	HM5502B	19580	MB/74/1		173.7	160	17.4	15.3	200	8
	HM5503A	19579	MB/75/2		217.2	160	16.7	8.3	200	10
	HM5503B	19706	MB/74/2		173.7	160	17.4	15.3	200	8
	HM5624	19075	SV/8/1		193	178	19		188	12
	HM5803A	19581			217	220	17.9	8	199.5	10
	HM5803B	19707			174	220	18	15.4	199.5	8

NISSAN











Pictures	SORL No.	WVA No.	Cross Ref	FMSI No.	Internal Arc	Width	Thickness 1	Thickness 2	Hub Diameter	Hole
	HM5302		41039-90566		196	120	15		185	10
	HM5423		41039-90113		184	130	15		185	6
	HM5518		41039-90465		192	150	14.5		185	10
	HM5531		41039-90870		192	150	16		189	10
	HM5542		44066-90379 47443-1540		185	155	15		185	12
	HM5640		44066-90314		194	180	16.5		187	9
	HM5646-1		41039-93128 1883107751		192	178	16		187	17
	HM5653		440669Z01D		174	174	20	15.9	200	14
	HM5743		440669Z01B		174	200	20	16	200	14
	HM5818		44066-90278		192	220	14.5		190	15
	HM5825-1		44066-90326		195.7	220	16		190	15
	HM5837-1		44066-NA213C		196	220	16		187	17
	HM5842		44066-90564		196	220	15		187	19
	HM5843		44066-90229 BM		192	220	16		187	15

INDEX BY VEHICLE APPLICATIONS

















RENAULT

Pictures	SORL No.	WVA No.	Cross Ref	FMSI No.	Internal Arc	Width	Thickness 1	Thickness 2	Hub Diameter	Hole
	HM5523	19934	RN/100/1		185.4	150	18.5		189	8
	HM5623	19935	RN/101/1		185.4	175	18.5		189	8
	HM5638	19090			177	175	18	13.3	200	14
	HM5820	19187	RN/104/1		187	220	18.5		190	8

ROCKWELL










Pictures	SORL No.	WVA No.	Cross Ref	FMSI No.	Internal Arc	Width	Thickness 1	Thickness 2	Hub Diameter	Hole
	HM5609A	19037	DF/24/1	FMSI NO.	194.6	178	17.6	11.6	203	12
	HM5609B	19036	DF/25/1		189	178	18.5	15.8	203	12
	HM5618A				177.1	177.8	17.8	11	184.7	14
	HM5618B			4705 ANC	171.2	177.8	18.7	15.5	184.7	14
	HM5635A	19033	RW/34/1	4705 CAM	196	178	20.3	13.5	203	12
	HM5635B	19030	RW/35/1		189	178	20.8	16.7	203	12
	HM5711A				194.6	203.2	17.6	11.1	203.2	16
	HM5711B			4516 ANC	189.1	203.2	18.2	15.2	203.2	16
	HM5812A			4516 CAM	189.1	219	20	12	203	14
	HM5812B			4711 CAM	194.6	219	21.2	17.6	203	14

SAF




Pictures	SORL No.	WVA No.	Cross Ref	FMSI No.	Internal Arc	Width	Thickness 1	Thickness 2	Hub Diameter	Hole
	HM5510A			4715 ANC	194.6	152.4	20.3	12.2	203	12
	HM5510B			4715 CAM	189.1	152.4	21.4	17.9	203	12
	HM5603	19032	BC/36/1		203.9	180	16.9	11.6	205	10
	HM5609A	19037	DF/24/1		194.6	178	17.6	11.6	203	12
	HM5609B	19036	DF/25/1		189	178	18.5	15.8	203	12
	HM5621A	19284	SJ/29/1		196	178	19.3	12.3	203	8
	HM5621A-1	19284	SJ/29/1		196	178	20.3	13.3	203	8
	HM5621A-2	19284	SJ/29/1		196	178	21.3	14.3	203	8
	HM5621B	19283	SJ/28/1		189	178	19.9	16.8	203	8
	HM5621B-1	19283	SJ/28/1		189	178	20.9	17.8	203	8
	HM5621B-2	19283	SJ/28/1		189	178	21.9	18.8	203	8
	HM5703	19094	BC/37/1		203.9	200	16.9	11.6	205	10
	HM5711A			4516 ANC	194.6	203.2	17.6	11.1	203.2	16
	HM5711B			4516 CAM	189.1	203.2	18.2	15.2	203.2	16
	HM5724A	19515	SJ/23/1		132	200	15.2	9.5	148	8
	HM5724B	19516	SJ22/1		127	200	16.1	13.6	148	8

INDEX BY VEHICLE APPLICATIONS

















SAF

Pictures	SORL No.	WVA No.	Cross Ref	FMSI No.	Internal Arc	Width	Thickness 1	Thickness 2	Hub Diameter	Hole
	HM5726A	19478			194.5	203	19.4	12.3	203	8
	HM5726B		FU/4/4		188.9	203	20.3	16.7	203	8
	HM5809A		FU/4/4		195	218	17.7	11.6	203	12
	HM5809A-1		FU/4/4		195	218	18.7	12.6	203	12
	HM5809A-2		FU/5/4		195	218	19.7	13.6	203	12
	HM5809B		FU/5/4		189.5	218	18.5	15.7	203	12
	HM5809B-1		FU/5/4		189.5	218	19.5	16.7	203	12
	HM5809B-2				189.5	218	20.5	17.7	203	12
	HM5822				203	220	16.9	11.6	205	10

SCANIA






Pictures	SORL No.	WVA No.	Cross Ref	FMSI No.	Internal Arc	Width	Thickness 1	Thickness 2	Hub Diameter	Hole
	HM5601	19931	SV/40/2		235	178	19		187	16
	HM5611A	19037		4515C ANC	194.6	177.8	17.6	11.6	203	12
	HM5611B	19036		4515C CAM	189.1	177.8	18.5	15.8	203	12

SCANIA









Pictures	SORL No.	WVA No.	Cross Ref	FMSI No.	Internal Arc	Width	Thickness 1	Thickness 2	Hub Diameter	Hole
	HM5612A			4515G ANC	194.6	177.8	17.6	11.6	203	14
	HM5612B			4515G CAM	189.1	177.8	18.5	15.8	203	14
	HM5613A			4515E ANC	194.6	177.8	17.6	11.6	203	16
	HM5613B			4515E CAM	189.1	177.8	18.5	15.8	203	16
	HM5614A			4707 ANC	194.6	177.8	20	11.6	203	14
	HM5614B			4707 CAM	189.1	177.8	21.2	17.5	203	14
	HM5624	19075	SV/8/1		193	178	19		188	12
	HM5630			4709	196.1	177.8	21.5	14.6	203	14
	HM5701	19932	SV/41/2		235	200	19		187	16
	HM5811A			4551 ANC	194.6	219.1	17.4	11.4	203	16
	HM5811B			4551 CAM	189.1	219.1	18.3	15.6	203	16
	HM5821A			4710 ANC	177.1	219	17.8	11	184.7	16
	HM5821B			4710 CAM	171.2	219	18.7	15.5	184.7	16
	HM5901	19933	SV/42/2		235	254	19		187	16
	HM5901-1	19933	SV/42/2		235	254	20		187	16
	HM5901-2	19933	SV/42/2		235	254	21		187	16

INDEX BY VEHICLE APPLICATIONS





SHACMAN

Pictures	SORL No.	WVA No.	Cross Ref	Internal Arc	Width	Thickness 1	Thickness 2	Hub Diameter	Hole
	HM5502A	19579	81.50221.0540	217.2	160	16.7	8.3	200	10
	HM5502B	19580	81.50221.0535	173.7	160	17.4	15.3	200	8
	HM5802A	19581	DZ9112340063	217	220	16.7	8.3	199.5	10
	HM5802B	19582	DZ9112340062	174	220	17.4	15.3	199.5	8
	HM5815	19496	HD90149340094	178	220	17	11.8	200	8











STEYR

Pictures	SORL No.	WVA No.	Cross Ref	FMSI No.	Internal Arc	Width	Thickness 1	Thickness 2	Hub Diameter	Hole
	HM5209A			4702 ANC	177.1	101	18	11.2	184.7	8
	HM5209B			4702 CAM	171.2	101	18.7	15.5	184.7	8
	HM5519A	19245FR			186	160	14.5		195	8
	HM5519B	19245FF			136	160	14.5		195	6
	HM5609A	19037	DF/24/1		194.6	178	17.6	11.6	203	12
	HM5609B	19036	DF/25/1		189	178	18.5	15.8	203	12
	HM5619	19246			186	185	14.5		195	8
	HM5619-1	19246			186	185	15.5		195	8

VOLKSWAGEN

















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	HM5618A		4705 ANC	177.1	177.8	17.8	11	184.7	14
	HM5618B		4705 CAM	171.2	177.8	18.7	15.5	184.7	14
	HM5821A		4710 ANC	177.1	219	17.8	11	184.7	16
	HM5821B		4710 CAM	171.2	219	18.7	15.5	184.7	16

VOLVO











Pictures	SORL No.	WVA No.	Cross Ref	FMSI No.	Internal Arc	Width	Thickness 1	Thickness 2	Hub Diameter	Hole
	HM5510A			4715 ANC	194.6	152.4	20.3	12.2	203	12
	HM5510B			4715 CAM	189.1	152.4	21.4	17.9	203	12
	HM5602	19938	VL/87/1		177	175	17.9	13.9	200	12
	HM5602-1	19938	VL/87/1		177	175	18.9	14.9	200	12
	HM5611A	19037		4515C ANC	194.6	177.8	17.6	11.6	203	12
	HM5611B	19036		4515C CAM	189.1	177.8	18.5	15.8	203	12
	HM5612A			4515G ANC	194.6	177.8	17.6	11.6	203	14
	HM5612B			4515G CAM	189.1	177.8	18.5	15.8	203	14
	HM5613A			4515E ANC	194.6	177.8	17.6	11.6	203	16
	HM5613B			4515E CAM	189.1	177.8	18.5	15.8	203	16

INDEX BY VEHICLE APPLICATIONS



VOLVO

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	HM5614A			4707 ANC	194.6	177.8	18.5	11.6	203	14
	HM5614B			4707 CAM	189.1	177.8	20	17.5	203	14
	HM5625A	19384	CW/4/1		189.1	178	21.2	13	185	12
	HM5625B	19385	CW/4/2		189.1	178	18	13	185	12
	HM5629	19896		4311J	198.9	177.8	18		190	14
	HM5630			4709	196.1	177.8	18.6	14.6	203	14
	HM5638	19090			177	175	21.5	13.3	200	14
	HM5702	19939	VL/88/1		177	200	17.9	13.9	200	12
	HM5711A			4516 ANC	194.6	203.2	17.6	11.1	203.2	16
	HM5711B			4516 CAM	189.1	203.2	18.2	15.2	203.2	16
	HM5801	19940	VL/89/1		177	225	17.9	13.9	200	12
	HM5801-1	19940	VL/89/1		177	225	18.9	14.9	200	12
	HM5801-2	19940	VL/89/1		177	225	19.9	15.9	200	12
	HM5811A			4551 ANC	194.6	219.1	17.4	11.4	203	16
	HM5811B			4551 CAM	189.1	219.1	18.3	15.6	203	16
	HM5818	29938			192	220	14.5		190	15

YORK

Pictures	SORL No.	WVA No.	Cross Ref	FMSI No.	Internal Arc	Width	Thickness 1	Thickness 2	Hub Diameter	Hole
	HM5609A	19037	DF/24/1		194.6	178	17.6	11.6	203	12
	HM5609B	19036	DF/25/1		189	178	18.5	15.8	203	12
	HM5711A			4516 ANC	194.6	203.2	17.6	11.1	203.2	16
	HM5711B			4516 CAM	189.1	203.2	18.2	15.2	203.2	16
	HM5809A	19370	FU/4/4		195	218	17.7	11.6	203	12
	HM5809A-1	19370	FU/4/4		195	218	18.7	12.6	203	12
	HM5809A-2	19370	FU/4/4		195	218	19.7	13.6	203	12
	HM5809B	19369	FU/5/4		189.5	218	18.5	15.7	203	12
	HM5809B-1	19369	FU/5/4		189.5	218	19.5	16.7	203	12
	HM5809B-2	19369	FU/5/4		189.5	218	20.5	17.7	203	12

YUTONG

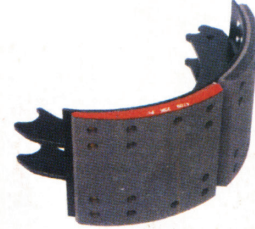
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	HM5518	29937			192	150	14.5		185	10
	HM5818	29938			192	220	14.5		190	15



4515Q



4702



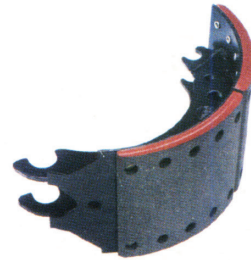
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Benz-220



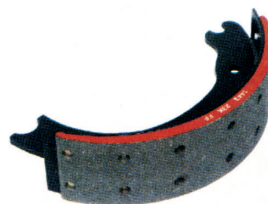
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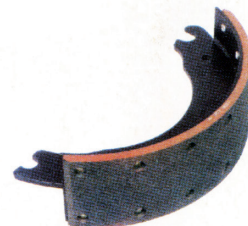
BPW-200



4311



1443E



1308Q

S/N	Cross Ref.	FMSI No.	Application	Size
1	1308E	1005840 A3222Q1837		381x101.5
2	1308Q	A3222F1982		381x101.5
3	1443E	807685		381x101.5
4	4311E			419x178
5	4514	A3222C1381	MERITOR	419x152.4
6	4515		FUWA 13T	419x178
7	4515E	AJA0508001	Fruehauf	419x178
8	4515P	15025412		419x178
9	4515Q	15205533		419x180
10	4515X3			419x178
11	4516Q	15206227		419x203
12	4524Q			419x127
13	4551		FUWA 16T	419x220
14	4551E	15200007		419x219
15	4551F	15205191		420x220
16	4551Q	15205191		420x220
17	4702Q	A3222M2223		381x101.5
18	4707Q	15224724 A3222D2006		420x178
19	4709ES-2	819707		420x178
20	4710Q			381x220
21	4711Q			419x220
22	4715Q			419x152.5
23	4718Q			419x203
24	4719E			419x178
25	4720Q			419x127
26	4725E			419x152.5
27	4726E			419x220
28	BENZ160	81502016190	MAN, Mercedes	420x160
29	BENZ180	81502016178	MAN, Mercedes	420x180
30	BENZ220	81502016218	MAN, Mercedes	410x220
31	BPW180 NEW	0509146170, 7070	BPW	420x180
32	BPW180 OLD	0509126642	BPW	420x180
33	BPW200 NEW	0509127830	BPW	420x200
34	BPW200 OLD	0509127542	BPW	420x200
35	BPW220		BPW	420x220
36	BPW220 NEW	0509128290	BPW	420x220
37	M006093	SMB203		420x203
38	SAF SK9	3054012000	SAF	420x180
39	SAF180 OLD	3054005200	SAF	420x180
40	SAF200 OLD	3054005300	SAF	420x200
41	Volvo125	3095193	Volvo	410x125
42	Volvo150		Volvo	410x150
43	Volvo175	3095195	Volvo	410x175
44	Volvo200	3095196	Volvo	410x200
45	Volvo225	3095197	Volvo	410x225

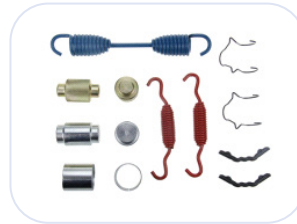


Brake Shoe Accessories

Just To Be Safe



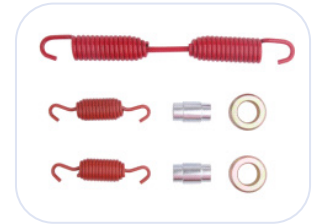
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For 4709E



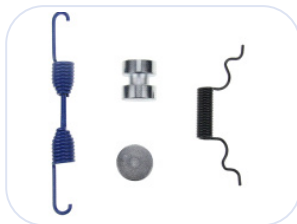
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For 4515Q



AK028
For 4702Q



AK031
For 4311E



AK032
For 1308E



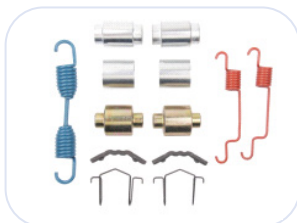
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For 1308Q



AK035
For 1308Q



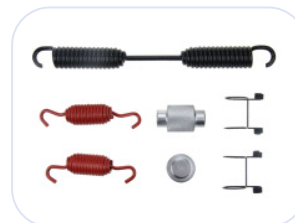
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For 1657QM



AK037
For 1225D



AK038
For 1225DX



AK039
For 4709E



AK040
For 4709E



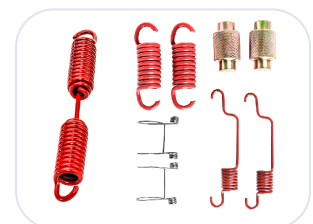
AK041
For 4515F



AK042
For 4515Q



AK043
For 4515P



AK044
For 4719E □ 4725E

SORL No.	OE NO.	Page
HM4101	21899	13
HM4102	21919	13
HM4103	20011	18
HM4104	20780	18
HM4105	23658	17
HM4106	23592	14
HM4107	21553	16
HM4108	20961	15
HM4109	24902	13
HM4110	21719	17
HM4111	23736	17
HM4201	24320	18
HM4202	23980	13
HM4203	21209	14
HM4204	23417	15
HM4205	24338	14
HM4206	D1423	14
HM4207	23543	18
HM4208	24260	13
HM4209	25232	16
HM4210	24071	16
HM4211	20635	14
HM4212	20905	13
HM4213	21160	14
HM4214	24483	14
HM4215	23914	14
HM4216	23814	13
HM4217	24421	15
HM4219	21833	14
HM4220	29840	17
HM4221	20031	16
HM4222	D1888	16
HM4223	29037	14
HM4224	29123	14
HM4226	D1883	18
HM4227	24435	17
HM4301	21875	15
HM4302	23669	17
HM4303	23557	13
HM4304	23973	13
HM4305	25096	15
HM4306	23510	17

SORL No.	OE NO.	Page
HM4308	20168	15
HM4308-1	20168	15
HM4308-2	21945	15
HM4309	23994	16
HM4310	24486	13
HM4311	23137	13
HM4312	23482	13
HM4313	21933	18
HM4314	24393	13
HM4315	23979	14
HM4316	23585	17
HM4317	20904	18
HM4318	23408	14
HM4319	23346	14
HM4320	24317	18
HM4321	21672	14
HM4322	23241	16
HM4327	25008	14
HM4328	21947	14
HM4329	23582	14
HM4330	23526	17
HM4331	21543	13
HM4401	D1397	18
HM4402	21229	17
HM4403	23396	14
HM4404	21980	13
HM4405	23150	14
HM4406	21207	13
HM4407	23891	18
HM4408	24415	15
HM4409	23806	14
HM4410	21754	13
HM4411	23325	16
HM4414	23428	13
HM4415	23290	17
HM4416	29190	13
HM4417	25031	15
HM4418	23954	14
HM4419	21561	13
HM4420	20887	15
HM4421	21497	17
HM4422	23302	13

SORL No.	OE NO.	Page
HM4423	24336	14
HM4424	21469	13
HM4425	24544	13
HM4427	23003	14
HM4428	23859	14
HM4429	20547	15
HM4430	29232	14
HM4431	D1644	16
HM4432	21202	13
HM4433	21158	17
HM4435	D1035	16
HM4437	23099	13
HM4438	D768	14
HM4438-1	23130	14
HM4439	24337	17
HM4440	D1000	18
HM4441	25031	15
HM4443	240909	17
HM4447	23569	18
HM4448	D1941	18
HM4449	21601	14
HM4450	21694	17
HM4451	21363	14
HM4452	21697	17
HM4453	24246	16
HM4501	23086	17
HM4502	20640	13
HM4503	21193	15
HM4504	24342	17
HM4505	23112	18
HM4506	23801	13
HM4507	23106	16
HM4508	20926	13
HM4509	23440	13
HM4510	23120	15
HM4511	23587	14
HM4512	24123	13
HM4513	21590	13
HM4514	21576	13
HM4515	24350	14
HM4518	29229	3
HM4520	29160	3

INDEX BY SORL PART NUMBERS

SORL No.	OE NO.	Page
HM4521	29076	5
HM4522	29121	3
HM4530	29200	5
HM4533	25683	7
HM4535	117007	7
HM4601	29835	2
HM4602	29122	3
HM4603	29067	3
HM4604	29256	3
HM4605	29088	1
HM4607	29136	7
HM4608	29302	2
HM4609	29074	3
HM4610	29231	3
HM4611	29148	4
HM4701	29024	1
HM4702	29043	6
HM4703	29077	1
HM4704	29142	1
HM4705	29141	1
HM4706	29124	1
HM4707	29032	3
HM4708	011-1004-0830	2
HM4709	011-1004-0830/0840	2
HM4710	29244	5
HM4802	29137	7
HM4803	29181	4
HM4805	29126	1
HM4806	29159	1
HM4807	29171	1
HM4808	29177	6
HM4809	29162	1
HM4810	29165	1
HM4811	29093	3
HM4812	29158	5
HM4813	29100	6
HM4814	29151	7
HM4815	29173	6
HM4816	VIE20K-3501113	1
HM4817	29228	1
HM4818	YF3501DA06-040	1
HM4819	YF3501DA20-040	1

SORL No.	OE NO.	Page
HM4820	YF3501DA05-040	1
HM4822	29279	2
HM4823	29175	6
HM4824	K6C-3501140	2
HM4901	29011	3
HM4902	29167	1
HM4903	29087	1
HM4903-1	29087	1
HM4904	29143	6
HM4905	29174	6
HM4906	29125	7
HM4907	29090	3
HM4908	29131	2
HM4909	29030	6
HM4911	29254	2
HM4914	8R-0821	2
HM4915	9C-0566	1
HM4916	29280	1
HM4916-1	29385	2
HM4917	29278	1
HM4917-1	29278	7
HM5209A	4702 ANC	33
HM5209B	4702 CAM	33
HM5302	41039-90566	42
HM5409	17276	39
HM5409-1	17276	39
HM5409-2	17276	39
HM5418A	53212-3501105	36
HM5418B	53212-3501105	37
HM5419A	53229-3501105	37
HM5419B	53229-3501105	37
HM5420	1-47115-406-0	36
HM5421	MC 824934	34
HM5423	41039-90113	42
HM5502A	19579	37
HM5502B	19580	37
HM5503A	19579	37
HM5503B	19706	37
HM5510A	4715 ANC	32
HM5510B	4715 CAM	32
HM5515	19494	37
HM5516	19486	38

SORL No.	OE NO.	Page
HM5516-1	19486	38
HM5516-2	19486	38
HM5518	29937	42
HM5519A	19245FR	35
HM5519B	19245FF	35
HM5523	19934	43
HM5531	41039-90870	42
HM5532	47441-6670	34
HM5541	47441-9640	34
HM5542	44066-90379	42
HM5543	47441-7650A	34
HM5601	19931	45
HM5602	19938	48
HM5602-1	19938	48
HM5603	19032	32
HM5609A	19037	43
HM5609B	19036	43
HM5611A	4515C ANC	32
HM5611B	4515C CAM	32
HM5612A	4515G ANC	32
HM5612B	4515G CAM	32
HM5613A	4515E ANC	32
HM5613B	4515E CAM	32
HM5614A	4707 ANC	33
HM5614B	4707 CAM	33
HM5615	19495	38
HM5616	19487	38
HM5617A	19556	35
HM5617B	19555	35
HM5618A	4705 ANC	35
HM5618B	4705 CAM	35
HM5619	19246	35
HM5619-1	19246	47
HM5621A	19284	44
HM5621A-1	19284	44
HM5621A-2	19284	44
HM5621B	19283	44
HM5621B-1	19283	44
HM5621B-2	19283	44
HM5623	19935	43
HM5624	19075	41
HM5625A	19384	35

SORL No.	OE NO.	Page
HM5625B	19385	36
HM5629	4311J	32
HM5630	4709	32
HM5634	19160	40
HM5635A	19033	43
HM5635B	19030	43
HM5636A	19109	36
HM5636B	19110	36
HM5638	19090	43
HM5640	44066-90314	42
HM5642A	6520-3501105	37
HM5642B	6520-3501105	37
HM5643A	6520-3501105-01	37
HM5643B	6520-3501105-01	37
HM5646-1	41039-93128	42
HM5647-1	12022-37581	34
HM5650	1-47115-174-0	36
HM5653	440669Z01D	42
HM5701	19932	46
HM5702	19939	49
HM5703	19094	32
HM5709A	19367	33
HM5709B	19366	33
HM5711A	4516 ANC	34
HM5711B	4516 CAM	34
HM5712A	4644 ANC	40
HM5712B	4644 CAM	40
HM5717A	19553	36
HM5717B	19554	36
HM5721	19574	32
HM5721-1	19574	32
HM5721-2	19574	32
HM5724A	19516	44
HM5724B	19515	44
HM5726A	19478	45
HM5726B	19477	45
HM5736A	19116	36
HM5736B	19119	36
HM5739-1	47441-4240	34
HM5742	MC 824946	34
HM5743	440669Z01B	42
HM5801	19940	49

SORL No.	OE NO.	Page
HM5801-1	19940	49
HM5801-2	19940	49
HM5802A	19581	38
HM5802B	19582	38
HM5803A	19581	38
HM5803B	19707	38
HM5809A	19370	45
HM5809A	19370	50
HM5809A-1	19370	45
HM5809A-2	19370	45
HM5809B	19369	45
HM5809B-1	19369	45
HM5809B-2	19369	45
HM5811A	4551 ANC	33
HM5811B	4551 CAM	33
HM5812A	4711 CAM	43
HM5812B	4711 ANC	43
HM5815	19496	38
HM5816	19488	38
HM5818	29938	42
HM5819	19247	35
HM5820	19187	43
HM5821A	4710 ANC	46
HM5821B	4710 CAM	46
HM5822	19591	33
HM5824	DZ9160340068	35
HM5825-1	44066-90326	42
HM5833-1	47441-9650	35
HM5834-1	380HP-R	35
HM5836	1-47126669-0	36
HM5837-1	44066-NA213C	42
HM5842	44066-90564	42
HM5843	44066-90229 BM	42
HM5901	19933	46
HM5901-1	19933	46
HM5901-2	19933	46
AK001		31
AK002		31
AK003		31
AK004		31
AK005		31
AK006		31

SORL No.	OE NO.	Page
AK007		31
AK008		31
AK009		31
AK010		31
AK011		31
AK015		31
AK016		31
AK018		31
AK019		31
AK021		31
AK022		31
AK023		31
AK026		53
AK027		53
AK028		53
AK031		53
AK032		53
AK033		53
AK035		53
AK036		53
AK037		53
AK038		53
AK039		53
AK040		53
AK041		53
AK042		53
AK043		53
AK044		53

