



TSA 74

Zubehör
Accessories
Accessoires

Nur für den Fachhandel



Service

**Tonabnehmersysteme
Abtastnadeln
Zubehör**

**Pick-ups
Phonograph needles
Accessories**

**Cartouches pick-up
Aiguilles phono
Accessoires**

Mit dem Erscheinen dieser Liste werden die Angaben und Preise der bisherigen Listen ungültig.

This catalogue replaces TSA 12.

Cette nomenclature annule celle portant le TSA 12.

Konstruktionsänderungen sowie Liefermöglichkeiten vorbehalten.

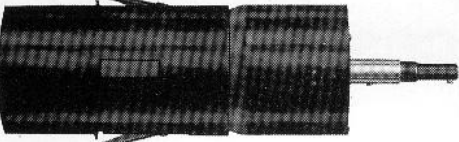
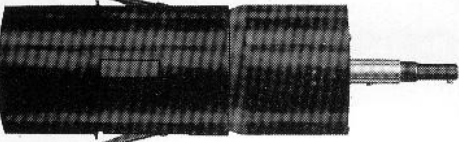
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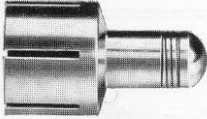
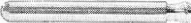
Modifications réservées.

Die Buchstaben in den Preisspalten dienen zur Kennzeichnung der Warengruppen.

The merchandise groups are specified by capital letters.

Les familles d'articles sont spécifiées par lettres majuscules.

Geräte-Typ Model Appareil		Abbildung und Typ Illustration and type Figure et type	No.	
3060 3048 3046 3044 3042 3040 3015 3012 3010		 Wechselachse AW 3 Changing Spindle AW 3 Axe changeur AW 3	224 034 E	
		 Abwurfsäule AS 12 Automatic Changer Spindle AS 12 Tige d'éjection AS 12	224 037 E	
2020 2018 2016 2015 2014	2012 2010 2001 720 72	 Wechselachse 7 mm Changing Spindle 7 mm Axe changeur 7 mm	252 038 E	
2018 2016 2015 2014 2012	2010 2001 720 72	Abwurfsäule 45/72 Automatic Changer Spindle 45/72 Tige d'éjection 45/72 	252 072 E	
2020		 Abwurfsäule 45/2020 Automatic Changer Spindle 45/2020 Tige d'éjection 45/2020	252 104 E	
PE 66 PE 66 deluxe PE 66 Sonderklasse		 Wechselachse 7 mm Changing Spindle 7 mm Axe changeur 7 mm	251 439 E	

Geräte-Typ Model Appareil		Abbildung und Typ Illustration and type Figure et type	No.	
3048 3046 — 3015 3012 3010		 Mitlaufstift · Single play spindle · Tige centrale	201 101 E — 253 717 E	
3044 3042 3040		 Plattenstift · Spindle · Axe	200 709 E	
2018 2016 2015 2014 2012	2010 2001 720 72	 Spielerachse Single play spindle Tige courte	252 289 E	
2020		 Mitlaufstift · Single play spindle · Tige centrale	252 157 E	
Rex A Rex Deluxe PE 66		 Plattenstift · Spindle · Axe	259 201 E	
nach Bedarf when required suivant les besoins		 Zentrierstück · Adapter · Centreur	256 764 E	

Geräte-Typ	Model	Appareil				
Tonabnehmerkopf komplett	Pick-up Head Complete	Tête de lecture complète	3048	TK 157	223 035	E
Kopf ohne System	Head without Cartridge	Tête sans cellule		TK 15	223 036	E
Tonabnehmersystem mit Abtastnadel	Pick-up Cartridge	avec point de lecture	3046	M 91 MG-D Shure	217 703	E
	with Stylus			M 75 Typ D Shure	225 721	E
Stereo-Magnetsystem	Magnetic stereo cartridge	Cellule magnétique stéréo	3044	TK 123	228 659	E
				DMS 200	228 656	E
Stereo-Magnetsystem	Magnetic stereo cartridge	Cellule magnétique stéréo	3042	TK 14	215 430	E
				CDS 650/6	218 865	E
Stereo-Keramiksistem	Ceramic stereo cartridge	Cellule céramique stéréo	3040	TK 181	218 855	E
				TK 14	215 430	E

TK 15 mit Umschalt-Einrichtung zur Einhaltung des vertikalen Spurwinkels
TK 15 with Tracking Selector for maintaining correct vertical tracking
TK 15 avec «Tracking Selector», commutant l'angle de piste vertical

Mikrorillen- und
Stereo-Schallplatten
Auflegekraft 3,5-4,5 p

Micro-
groove and
stereo records
Tracking
weight 3,5-4,5 p

Disques micro
et stéréo. Force
d'appui 3,5-4,5 p

Mikrorillen- und
Stereo-Schallplatten
Auflegekraft 2-3 p

Micro-
groove and
stereo records
Tracking
weight 2-3 p

Disques micro
et stéréo. Force
d'appui 2-3 p

Mikrorillen- und
Stereo-Schallplatten
Auflegekraft 2-3 p

Micro-
groove and
stereo records
Tracking
weight 2-3 p

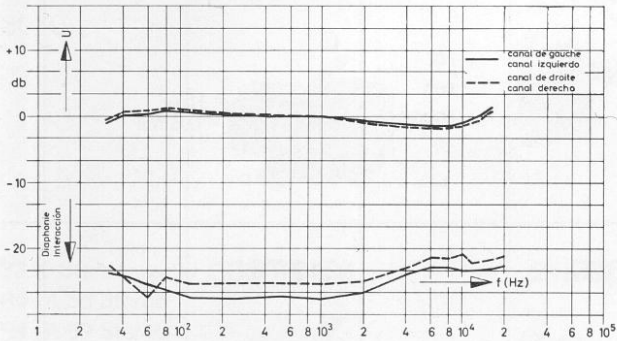
Disques micro
et stéréo. Force
d'appui 2-3 p

Mikrorillen- und
Stereo-Schallplatten
Auflegekraft 1-1,5 p

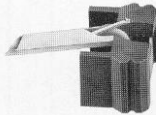
Micro-
groove and
stereo records
Tracking
weight 1-1,5 p

Disques micro
et stéréo. Force
d'appui 1-1,5 p

Verwendungszweck
Kenndaten
Application
Data
Utilisation
Données
caractéristiques



DN 330



grau
grey
gris

M-Diamant = 15 μ
M-Diamond = 0.6 mil

212 804

G

DN 321

N-Diamant = 65 μ
N-Diamond = 2.7 mil
für **Normal**riillen-Schallplatten
Auflagekraft 3 p

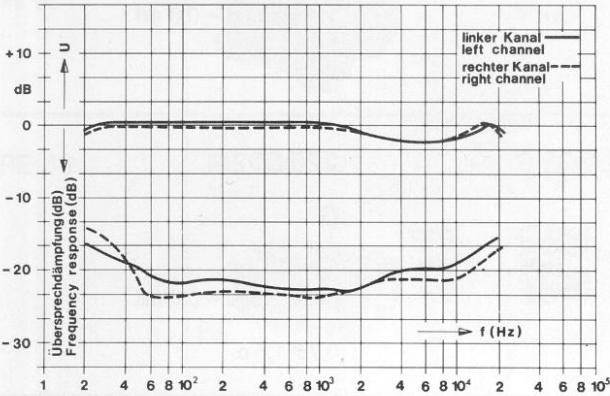
grün
green
vert

for **normal** groove (78 rpm) records. Tracking weight 3 p

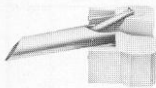
pour disques **normaux**. Force d'appui 3 p

202 440

G



DN 325



beige

M-Diamant = 15 μ
M-Diamond = 0.6 mil

212 791

G

DN 321

N-Diamant = 65 μ
N-Diamond = 2.7 mil
für **Normal**riillen-Schallplatten
Auflagekraft 3 p

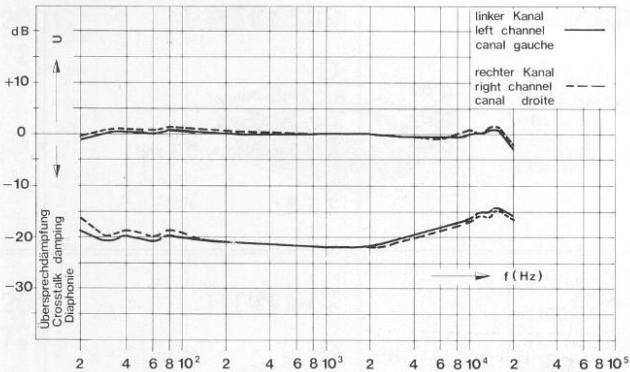
grün
green
vert

for **normal** groove (78 rpm) records. Tracking weight 3 p

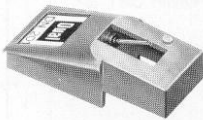
pour disques **normaux**. Force d'appui 3 p

202 440

G



DN 201



rot
red
rouge

M-Diamant = 15 μ
M-Diamond = 0.6 mil

228 657

G

DN 202

N-Diamant = 65 μ
N-Diamond = 2.7 mil
für **Normal**riillen-Schallplatten
Auflagekraft 3 p

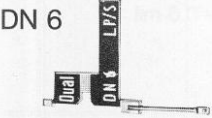
grün
green
vert

for **normal** groove (78 rpm) records. Tracking weight 3 p

pour disques **normaux**. Force d'appui 3 p

228 658

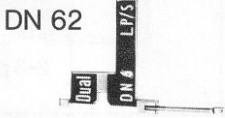
G



M-Saphir = 15 μ
M-Saphir = 15 μ
M-Sapphire = 0.6 mil
M-Sapphire = 0.6 mil

224 558

G

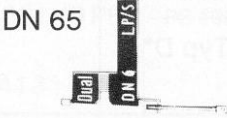


M-Saphir = 15 μ
M-Saphir = 23 μ
M-Sapphire = 0.6 mil
M-Sapphire = 1 mil

für **Mikrorillen-** und **Stereo**-Schallplatten

224 561

G

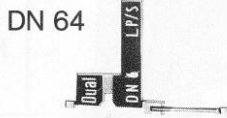


M-Diamant = 15 μ
M-Diamond = 0.6 mil

for **micro**-groove and **stereo** records

224 569

G



M-Diamant = 15 μ
M-Saphir = 23 μ
M-Diamond = 0.6 mil
M-Sapphire = 1 mil

pour disques **micro** et **stéréo**

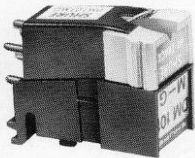
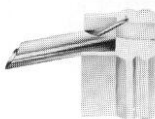
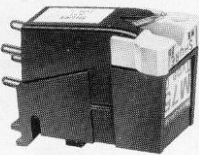
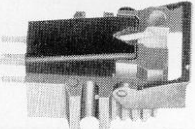
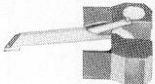
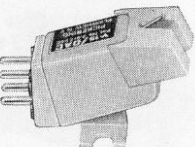
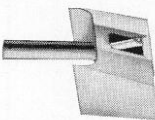
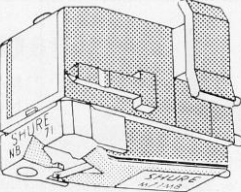
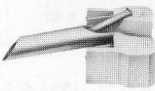
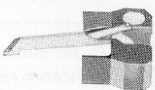
224 565

G

DN 63
M-Saphir = 15 μ
N-Saphir = 60 μ
M-Sapphire = 0.6 mil
N-Sapphire = 2.4 mil
für **Normal**-, **Mikrorillen**- und **Stereo**-Schallplatten
for **normal** (78 rpm)-, **micro**-groove and **stereo** records
pour disques **normaux**, **micro** et **stéréo**

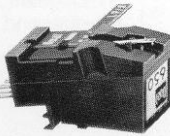
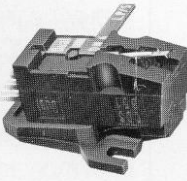
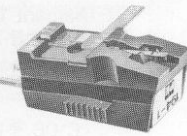
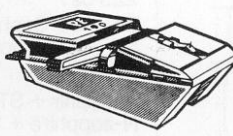
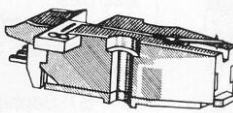
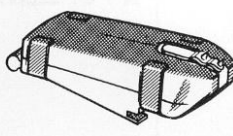
224 563

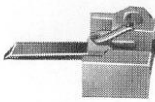
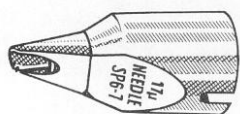
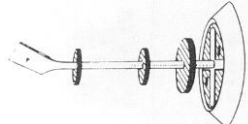
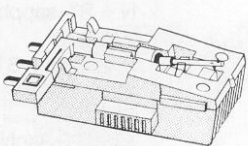
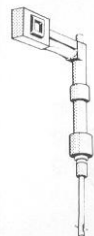
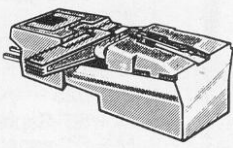
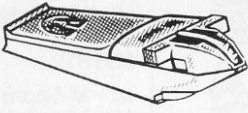
G

Geräte-Typ Model Appareil	Tonabnehmersystem mit Abtastnadel Pick-up Cartridge with Stylus Cellule de pick-up avec pointe de lecture	No.	Abtastnadel Stylus Pointe de lecture	No. Kenndaten Data Données caractéristiques
3060	DM 101 M-G Shure 	225 724 E	DN 340  rot red rouge	223 030 G M-Diamant = 15 μ M-Diamond = 0.6 mil 0,5-1,25 p
3060 3015 3012	M 75 Typ D Shure 	225 721 E	DN 325  beige	212 791 G M-Diamant = 15 μ M-Diamond = 0.6 mil 2-3 p
2020 2018	M 75 MG/T 2 Shure 	225 716 E	N 75 MGT 2  grau grey gris	225 302 G M-Diamant = 15 μ M-Diamond = 0.6 mil 0,75-1,5 p
2020 2018 2016 2014 2010 720	V 15/AC2 Pickering 	225 733 E	DN 311  grau grey gris	202 437 G M-Diamant = 17 μ M-Diamond = 0.7 mil 2.5-3 p
2018 2016 2014 2010 2015 2012	M 71 MB Shure 	Ersatz : Replace : Remplacement : V 15/AC 2 M 75 Typ D*	DN 325  beige	212 791 G M-Diamant = 15 μ M-Diamond = 0.6 mil 2-3 p
2018 2016 2014 2010 2015 2012	M 73 M-G Shure	Ersatz : Replace : Remplacement : V 15/AC 2 M 91 MG-D*	DN 320  grau grey gris	207 570 G M-Diamant = 15 μ M-Diamond = 0.6 mil 1,25-1,75 p

* zusätzlich erforderlich 1 Halteplatte
supplementary required 1 mounting plate
en outre une plaque intermédiaire est nécessaire

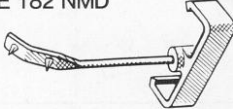
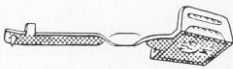
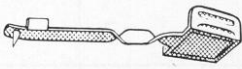
No. 256 791

Geräte-Typ Model Appareil	Tonabnehmersystem mit Abtastnadel Pick-up Cartridge with Stylus Cellule de pick-up avec pointe de lecture	No.	Abtastnadel Stylus Pointe de lecture	No. Kenndaten Data Données caractéristiques
3012 3010	CDS 650/6 	218 865 E	DN 6 DN 62	224 558 M + M-Saphir 15 μ , 15 μ M + M-sapphire 224 561 M + M-Saphir 15 μ , 23 μ M + M-sapphire
3310 Stereo Rex A 58 Stereo Rex A 59 Stereo Rex Deluxe Stereo PE 66	CDS 651/6 	218 885 E	DN 63  DN 64	224 563 M + N-Saphir 15 μ , 60 μ M + N-sapphire 224 565
PE 38	PE 194/1 	229 351 E	DN 65	M-Saphir + ST-Diamant 23 μ , 15 μ M-sapphire + ST-diamond 224 569 ST-Diamant 15 μ ST-diamond 3,5-4,5 p
2001 72	PE 190 	259 557 E	PE 190 NM  PE 190 NMD PE 190 MST	225 022 N + ST-Saphir 65 μ , 15 μ N + ST-sapphire 225 030 N-Saphir + ST-Diamant 65 μ , 15 μ N-sapphire + ST-diamond 225 023 M + ST-Saphir 15 μ , 15 μ M + ST-sapphire 5-7 p
2001 72	PE 192 	Ersatz : Replace : Remplacement : CDS 661/10 PE 230 413	PE 192 NM  PE 192 NMD PE 192 MST	225 024 N + ST-Saphir 65 μ , 15 μ N + ST-sapphire 225 031 N-Saphir + ST-Diamant 65 μ , 15 μ N-sapphire + ST-diamond 225 025 M + ST-Saphir 15 μ , 15 μ M + ST-sapphire 5-6 p
Piccolo 3 3210/3310 PE 3420/25 PE Rex Standard Rex A, Rex Deluxe	PE 10 	259 146 E	PE 10 NM  PE 10 MM	256 811 N + M-Saphir 65 μ , 25 μ N + M-sapphire 256 812 M + M-Saphir 25 μ , 25 μ M + M-sapphire 8 p

Geräte-Typ Model Appareil	Tonabnehmersystem mit Abtastnadel Pick-up Cartridge with Stylus Cellule de pick-up avec pointe de lecture	No. Ersatz Replace Remplacement	Abtastnadel Stylus Pointe de lecture	No. Kenndaten Data Données caractéristiques
PE 33 studio PE 34 HiFi PE 720	Shure M 44 MB	V-15/AC 2	Shure N 44  grau grey gris	225 310 ST-Diamant 15 μ ST-diamond 1,5 p
PE 33 studio PE 34 HiFi	B & O SP 6	V-15/AC 2	B & O SP 6 	259 561 ST-Diamant 15 μ ST-diamond 2-3 p
Rex Deluxe Stereo Sonderklasse PE 66 Sonderklasse PE 33 studio PE 33 special PE 34 HiFi PE 34 special	PE 9000/2	V-15/AC 2	PE 9000 D 	259 188 ST-Diamant 15 μ ST-diamond 2-5 p
PE 38	PE 194 	Ersatz : Replace : Remplacement : PE 194/1	PE 194 NM  PE 194 ST ST PE 194 NMD	225 026 N + ST-Saphir 65 μ , 15 μ N + ST-sapphire 225 027 ST + ST-Saphir 15 μ , 15 μ ST + ST-sapphire 225 032 N-Saphir + ST-Diamant 65 μ , 15 μ N-sapphire + ST-diamond 5-6 p
PE 66 PE 66 deluxe PE 31, PE 32 PE 33 special PE 34 PE 34 special PE 35, PE 36	PE 188 	CDS 651/6 CDS 650/6**	PE 188 NM  PE 188 NMD PE 188 MST	225 020 N + ST-Saphir 65 μ , 15 μ N + ST-sapphire 225 029 N-Saphir + ST-Diamant 65 μ , 15 μ N-sapphire + ST-diamond 225 021 M + ST-Saphir 25 μ , 15 μ M + ST-sapphire 5-7 p
PE 66	PE 184 	CDS 651/6	PE 184 NM 	256 814 N + ST-Saphir 65 μ , 15 μ N + ST-sapphire 5-7 p

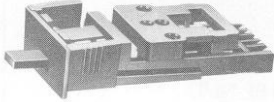
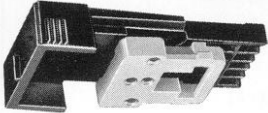
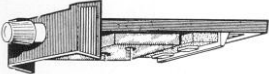
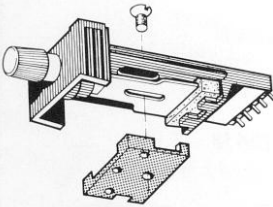
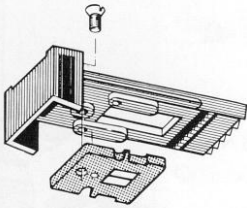
** zusätzlich erforderlich 1 Halteplatte
supplementary required 1 mounting plate
en outre une plaque intermédiaire est nécessaire

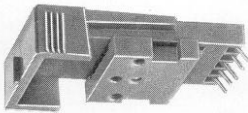
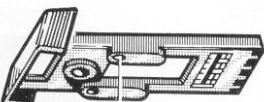
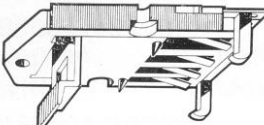
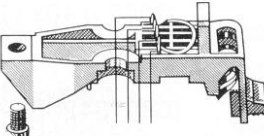
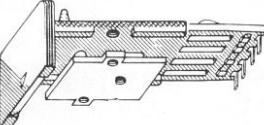
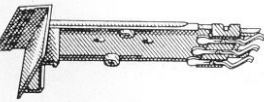
No. 259 244

Geräte-Typ Model Appareil	Tonabnehmersystem mit Abtastnadel Pick-up Cartridge with Stylus Cellule de pick-up avec pointe de lecture	No. Ersatz Replace Remplacement	Abtastnadel Stylus Pointe de lecture	No. Kenndaten Data Données caractéristiques
Rex A 58 Stereo Rex A 59 Stereo Rex Deluxe Stereo PE 66	PE 182	CDS 651/6	PE 182 NM PE 182 NMD 	256 813 G N + ST-Saphir 65 μ , 15 μ N + ST-sapphire 259 184 G N-Saphir + ST-Diamant 65 μ , 15 μ N-sapphire + ST-diamond 5-7 p
Rex A 58/59/66 3310 Stereo Rex Deluxe stereo	PE 90 PE 90 NMD	CDS 651/6	PE 90 N	225 012 G N-Saphir 65 μ N-sapphire
3430 PE, 4230 PE	PE 90/2 PE 90/2 NMD	CDS 650/6**	PE 90 M 	225 013 G ST-Saphir 15 μ ST-sapphire
PE 31, PE 32 PE 35, PE 36	PE 90/3 PE 90/3 NMD	CDS 650/6**		8 p
Rex A 58 Rex A 59 Rex Deluxe	PE 30 PE 30 NMD	CDS 651/6	PE 20/30 M	225 011 G M-Saphir 25 μ M-sapphire
3430 PE	PE 30/2 PE 30/2 NMD	CDS 650/6**	PE 20/30 MD 	225 016 G M-Diamant 25 μ M-diamond
PE 31 PE 32	PE 30/3 PE 30/3 NMD	CDS 650/6**		8 p
3430 PE Musical 2 V	TO 284	Nicht mehr lieferbar No longer available Epuisé	TO 284 N TO 284 M 	225 014 G N-Saphir N-sapphire 65 μ 225 015 G M-Saphir M-sapphire 25 μ 8 p
PE 66 PE 66 deluxe PE 31 PE 32	PE 186	Nicht mehr lieferbar No longer available Epuisé	PE 186 NM PE 186 NMD 	225 018 G N + ST-Saphir 65 μ , 15 μ N + ST-sapphire 225 028 G N-Saphir + ST-Diamant 65 μ , 15 μ N-sapphire + ST-diamond 6 p
	PE 12	PE 10	PE 12 NM 	259 171 G N + M-Saphir 65 μ , 25 μ N + M-sapphire 8 p

** zusätzlich erforderlich 1 Halteplatte
supplementary required 1 mounting plate
en outre une plaque intermédiaire est nécessaire

No. 259 244

Geräte-Typ	Kopf ohne System	No.	
Model	Head without Cartridge		
Appareil	Tête sans cellule		
3060		257 058 E	
3015 3012 3010		253 429 E	
2020		252 118 E	
2018		252 810 E	
2018 2016 2014		252 966 E	

Geräte-Typ	Kopf ohne System	No.	
Model	Head without Cartridge		
Appareil	Tête sans cellule		
2015 2012		252 977 E	
2010 720		252 363 E	
2001 72		252 354 E	
2001 72 66 deluxe 66		252 028 E	
PE 34 HiFi PE 33 special		254 326 E	
PE 33 studio PE 33 special		253 871 E	

Werkvertretungen INLAND

Platz	Firma	Straße	Telefon	FS-Nr.	Postfach
5413 Bendorf/Rhein	Michels KG	Dr. Otto-Siedlung	(02622) 2096	869744	1346
1000 Berlin 41 (Friedenau)	H. F. Rohde	Schmargendorfer Str. 17	(0311) 8512011	0183460	
2800 Bremen 41	Rolf Kern	Sonneberger Str. 18	(0421) 469091	0244305	419180
4600 Dortmund	Hubert Kampschulte ERAK	Ernst-Mehlich-Str. 6/II	(0231) 528787-89		
4000 Düsseldorf	H. W. Kleemann	Lindenstr. 47	(0211) 684541/42	8586436	
6236 Eschborn bei Frankfurt	Werner Hopf KG	Frankfurter Str. 7	(06196) 44095	0415605	1260
7012 Fellbach bei Stuttgart	Helmut Braun KG	Schorndorfer Str. 40	(0711) 587585/86 588063/64	07254626	1203
5020 Frechen 1 bei Köln	Michels KG	Max-Planck-Str. 13	(02234) 56056	0889226	1640
7800 Freiburg	Wilhelm Michels KG	Wiesentalstr. 29	(0761) 40966/67	0772465	1048
3501 Fuldabrück 1 Kassel	Bruno Herz	Ostring 20	(0561) 55011/12/13	99802	X
4504 Georgs- marienhütte	Walter Diekhöner	Raiffeisenstr.	(05401) 40211	094713	
8034 Germering/ München	Heinz Seibt	Industriestr. 20	(089) 842051-53	0529851	
2000 Hamburg 50	Georg Himstedt	Bernstorffstr. 76	(0411) 437012	0212866	
3000 Hannover- Hainholz	Gerhard Bartel KG	Meelbaumstr. 7	(0511) 671011	0923771	X
6750 Kaiserslautern	Hans Hettergott KG	Im Reiserfeld 10	(0631) 49393		
7500 Karlsruhe	Hans Hettergott KG	Körnerstr. 33-35	(0721) 22829		
6800 Mannheim	Hans Hettergott KG	H 7/28	(0621) 25561/77	0462579	1001
8500 Nürnberg	Werner Weidner	Heideloffstr. 23	(0911) 445651/53	0622848	2747
7980 Ravensburg	Wilhelm Michels GmbH & Co.	Hindenburgstr. 36	(0751) 3944/45	732944	1850
6600 Saarbrücken	Josef Bucker	Heinrich-Böcking-Str. 7	(0681) 67071/72		

Kundendienststellen INLAND

Platz	Firma	Straße	Telefon	FS-Nr.	Postfach
5100 Aachen	Heinz Marschik	Lothringer Str. 37	(0241) 37181		
8900 Augsburg	Hobi-Service G. Hoffmann, Kl. Bienek	Schillstr. 10	(0821) 75696		
5413 Bendorf/Rhein	Michels KG	Dr. Otto-Siedlung	(02622) 2096	869744	1346
1000 Berlin 41 (Friedenau)	H. F. Rohde	Schmargendorfer Str. 17	(0311) 8512011	0183460	
4800 Bielefeld	Walter Diekhöner	Hauptstr. 247	(0521) 23071/72		
3300 Braunschweig	Willi Adler	Bültenweg 93	(0531) 331405/ 331269		
2800 Bremen 41	Rolf Kern	Sonneberger Str. 18	(0421) 469091	0244305	419180
4600 Dortmund	Hubert Kampschulte ERAK	Ernst-Mehlich-Str. 6/II	(0231) 528787-89		
4000 Düsseldorf	H. W. Kleemann	Lindenstr. 47	(0211) 684541/42	8586436	
6236 Eschborn bei Frankfurt	Werner Hopf KG	Frankfurter Str. 7	(06196) 44095	0415605	1260
4300 Essen 1	Gerstner & Marquardt oHG	Münchener Str. 48	(02141) 239745/46		
7012 Fellbach bei Stuttgart	Helmut Braun KG	Schorndorfer Str. 40	(0711) 587585/86 588063/64	07254626	1203
2390 Flensburg	Radio-Jepsen	Bahnhofstr. 23	(0461) 22272		
5020 Frechen 1 bei Köln	Michels KG	Max-Planck-Str. 13	(02234) 56056	0889226	1640
7800 Freiburg	Wilhelm Michels KG	Wiesentalstr. 29	(0761) 40966/67	0772465	1048
3501 Fuldaabrück 1 Kassel	Bruno Herz	Ostring 20	(0561) 55011/12/13	99802	X
4504 Georgs- marienhütte	Walter Diekhöner	Raiffeisenstr.	(05401) 40211	094713	
8034 Germering/ München	Heinz Seibt	Industriestr. 20	(089) 842051-53	0529851	
2000 Hamburg 50	Georg Himstedt	Bernstorffstr. 76	(0411) 437012	0212866	
3000 Hannover- Hainholz	Gerhard Bartel KG	Meelbaumstr. 7	(0511) 671011	0923771	X
3000 Hannover M	Fritz Kotte	Blumenstr. 1	(0511) 321291		
6750 Kaiserslautern	Hans Hettergott KG	Im Reiserfeld 10	(0631) 49393		
6750 Kaiserslautern	Hugo Kuntz	Lutrinastr. 12	(0631) 65785		
7500 Karlsruhe	Hans Hettergott KG	Körnerstr. 33-35	(0721) 22829		
8960 Kempten	F. Gruber	Parkhaus am Rathaus	(0831) 24621		
2300 Kiel	Hans-Willy Föh	Langer Segen 8-10	(0431) 41457		
6800 Mannheim	Hans Hettergott KG	H 7/28	(0621) 25561/77	0462579	1001
6800 Mannheim 1	W. Streicher	U 6/6	(0621) 21157		
4400 Münster	Emil Neher	Hammer Str. 230	(0251) 77119/110		
7910 Neu-Ulm	Alfred Semler	Max-Eyth-Str. 2	(0731) 78139		
8500 Nürnberg	Werner Weidner	Heideloffstr. 23	(0911) 445651/53	0622848	2747
7980 Ravensburg	Wilhelm Michels GmbH & Co.	Hindenburgstr. 36	(0751) 3944/45	732944	1850
8400 Regensburg	Heinrich Lederer	Am Vitusbach 19	(0941) 90601		
6600 Saarbrücken	Josef Bucker	Heinrich-Böcking-Str. 7	(0681) 67071/72		
5900 Siegen	Prümeß Inh. G. Kill	Adolfstr. 9	(0271) 62595		
5500 Trier	Manfred Müller	Aachener Str. 53	(0651) 79976		



Dual Gebrüder Steidinger · 7742 St. Georgen/Schwarzwald