

Magnat®



CAR HIFI 2014



LOUDSPEAKER | SUBWOOFER | AMPLIFIER



GOOSE PIMPLES FOR YOUR EAR DRUMS.

The new year has seen Magnat focus clearly on high-performance and particularly full-bodied bass products. Magnat's Destroyer JK3000 discharges unimagined power and delivers a merciless 1,200 watts of deep bass. But the new Extreme Charger 230 with two 30 cm long-throw chassis and 2,400 watts maximum load capacity can even better this. In the field of active subwoofers, the brand-new Boombox 320 with 400-watt digital amplifier, 20-cm woofer and two long-throw passive cones delivers full-bodied bass - without annoying ambient sound. The new Magnat Mono and four-channel amplifier in the „Stark“ series do their name justice as they have been held in noble black, are powerful with up to 3,000 watts and packed full of technical features such as various filters, MOSFET power supply and remote control for the subwoofer. The following pages present all the important information about our current and new products with images and technical data. Find out more...

HISTORY

Since 1983 Magnat's engineers have been hard at work in their Pulheim lab, near Cologne, on their extensive range of products - always on the lookout for an enhanced bandpass subwoofer or a more stable amplifier. The sustained level of success is just reward for their often meticulous work, which is centered around developing the perfect Car Audio product. It all began 30 years ago with the company's first car hifi speaker, namely the CAR-5, a 2-way component system with separate crossover, whose individual components graced the vehicles of the 1980s mounted in a rectangular wooden board. If you consider the significant achievements in Magnat's product development, its Aggressor 6000 has got to be one product that is held with great esteem in the car hifi community. With its ample dimensions, this built-in subwoofer is one of the most spectacular that Magnat has ever brought to market. Measuring 630 mm in diameter and weighing in at just over 25 kg this unit exhibits an extremely dominant appearance that was virtually untopped for many years, and it proved to be a real eye-catching piece for all exhibitions and events in the industry - and quite rightly so! In addition, the company also played a significant role in shaping the entire Car Audio market with its 3-way triaxial speaker, namely the Traveller 320, and its power amplifier, the Classic 360. Both products have rightly earned their „cult status“ and can still be found in use today in some vehicles.

Besides these unique product developments, the company's image has been largely influenced by its show cars, which are constructed especially for exhibitions and dealer events. From the Hummer to the Porsche GT3 and the brand new Camaro SS, the company has been wholly committed to developing this sector, particularly over the last 10 years. Because there's nothing as beautiful as a perfectly constructed Magnat Car Audio product - especially if it is constructed with so much creativity and attention to detail as it is in Pulheim.



CAR-5



TRAVELLER 320



CLASSIC 360



HUMMER H2

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Subwoofer	p. 9 - 13
Amplifiers	p. 14 - 18
Accessories/Package	p. 19

FORD PICK-UP



CAMARO SS



TECHNOLOGY

Air Flow Technology	Compression-free cone throw and perfect heat dissipation	Full Feature XO	Integrated Full-Feature crossover	Klippel Engineered	Laser-optimised by the Klippel measuring system	Protection RING	Solid rubber ring protects the magnet
Alu Basket	Loudspeaker basket made from die-cast aluminium, rigid and anti-magnetic	Gold Plated Terminal	Gold-plated connectors for perfect contact	LED Lighting	LED lighting for a cool visual appearance	Solid Steel Basket	Low-resonance, torsionally rigid steel basket
1 ohm stable	1 ohm stable mono amplifier	Bridge Tri Mode	Optional bridging and tri-mode operation	High Capacity Cooling Radiator	Effective heat dissipation via heat sink	Maximum Deflection	Flexible rubber surround for max. cone throw
2 ohm stable	2 ohm stable multi-channel amplifiers	Coated Paper Membrane	Ultra-light, coated paper cone	High Performance Voice Coil	High performance voice coil	Maximum Efficiency	Lightweight foam surround for max. efficiency
3D Logo	3D Magnet lettering as embroidered logo	Flat Speaker	Speaker with very low installation depth	High Power Magnet	Powerful drive thanks to a high-power magnet system	PP Cone	Low vibration polypropylene cone
Active	High performance active subwoofer	FlowOptimized	Flow-optimised bass reflex opening	High Performance XO	Particularly powerful crossover	Protection Circuit	High level of safety ensured by protective circuits
						Solid Steel Terminal	Solid connecting terminal
						Sub Sound Horn	Sound emission via subwoofer horn attachment
						Titanium Tweeter	Titanium tweeter for optimum resolution
						Ventilated Voice Coil	Additional voice-coil ventilation for highest resilience

REFERENCE SELECTION



LOW RESONANCE, ANODIZED PP CONE WITH EDGE REINFORCEMENT

- Solid Steel Basket
- High Power Magnet
- Protection RING
- Ventilated Voice Coil
- PP Cone
- Gold Plated Terminal

- Euro DIN basket for universal usage
- Solid steel basket with black high-gloss powder coating
- 100 mm high-power magnet with protection ring and chromed pole plate
- Additional voice coil ventilation for better power handling and less mechanical damping
- Low resonance, anodized PP cone with edge reinforcement
- Gold-plated screw terminal
- Multi-part protection grille including diamond cut logo

216:

- 1.5" two layer voice coil for maximum power handling
- 1" Teteron silk dome tweeter incl. mounting accessories
- Separate 12 dB crossover for woofer and tweeter for optimized frequency response
- 3 tweeter level settings

693:

- 0.75" Teteron silk dome tweeter and 2.5" titanium-coated midrange with aluminium diamond cut flange
- Integrated 6 dB crossover for woofer, midrange and tweeter for optimized frequency response

100 MM HIGH-POWER MAGNET WITH PROTECTION RING AND CHROMED POLE PLATE



SOLID STEEL BASKET WITH BLACK HIGH-GLOSS POWDER COATING



Reference Selection 216



Reference Selection 693

	Reference Selection 216	Reference Selection 693
System	2-way	3-way
Type	Compo	Multi-axial
Power handling RMS/max. (W)	150/600	150/600
Impedance (Ω)	4	4
Frequency response (Hz)	30 - 28 000	28 - 24 000
Crossover frequencies (Hz)	3 600	2 000/3 800
SPL (dB)	91	92
DIN-Ø (mm)	TT 165/HT 25	6" x 9"
Cutting Out (mm)	TT 142/HT 52	154 x 221
Mounting depth (mm)	TT 73/HT 24	74

LOW MOUNTING DEPTH DUE TO INTERNAL FERRITE MAGNET SYSTEM

-  Flat Speaker
-  Ventilated Voice Coil
-  Coated Paper Membrane
-  Maximum Efficiency
-  Solid Steel Basket
-  High Performance XO

- Euro DIN basket for universal usage
- Low mounting depth due to internal ferrite magnet system
- Additional voice coil ventilation for better power handling and less mechanical damping
- Light paper cone and foam surround for maximum efficiency
- 3 tweeter level settings
- Solid steel basket with black high-gloss powder coating
- Multi-part protection grille including diamond cut logo

216/213:

- 0.75" Teteron silk dome tweeter incl. mounting accessories
- Separate 12 dB crossover for woofer and tweeter for optimized frequency response

162/132/102:

- 0.75" Teteron silk dome tweeter with acoustic equalizer and neodymium drive
- Separate 6 dB crossover



SOLID STEEL BASKET WITH BLACK HIGH-GLOSS POWDER COATING

LOW MOUNTING DEPTH 37 - 45 mm



Pro Selection 216

LIGHT PAPER CONE AND FOAM SURROUND FOR MAXIMUM EFFICIENCY



Pro Selection 132

42 mm

45 mm

					
	Pro Selection 216	Pro Selection 213	Pro Selection 162	Pro Selection 132	Pro Selection 102
System	2-way	2-way	2-way	2-way	2-way
Type	Compo	Compo	Coaxial	Coaxial	Coaxial
Power handling RMS/max. (W)	120/480	100/400	100/400	80/320	60/240
Impedance (Ω)	4	4	4	4	4
Frequency response (Hz)	36 - 28 000	38 - 28 000	38 - 28 000	40 - 28 000	43 - 28 000
Crossover frequencies (Hz)	3 800	3 800	3 800	3 800	3 800
SPL (dB)	90	90	90	90	89
DIN-Ø (mm)	TT 165/HT 19	TT 130/HT 19	165	130	100
Cutting Out (mm)	TT 143/HT 46	TT 118/HT 46	143	118	94
Mounting depth (mm)	TT 45/HT 20	TT 42/HT 20	45	42	37

MAGNET PROTECTION COVER FOR THE MAGNET



- Solid Steel Basket
- Coated Paper Membrane
- Ventilated Voice Coil
- Titanium Tweeter
- Protection RING

- Warp resistant, low-resonance steel basket
- Coated paper cone for maximum efficiency
- Additional voice-coil ventilation for better power handling and less mechanical damping
- Titanium coated midrange (203/693)
- Titanium coated tweeter
- Magnet protection cover for the magnet
- Designer loudspeaker cover (216/213)
- Separate crossover (216/213)



Pro Power 216



Pro Power 693



DESIGNER LOUDSPEAKER COVER



Pro Power 162



	PP 216	PP 213	PP 203	PP 693	PP 162	PP 132	PP 102
System	2-way	2-way	3-way	3-way	2-way	2-way	2-way
Type	Compo	Compo	Triaxial	Triaxial	Coaxial	Coaxial	Coaxial
Power handling RMS/max. (W)	80/320	60/240	80/320	80/320	60/240	50/200	45/180
Impedance (Ω)	4	4	4	4	4	4	4
Frequency response (Hz)	35 - 24 000	45 - 24 000	30 - 22 000	30 - 22 000	35 - 22 000	45 - 22 000	55 - 22 000
Crossover frequencies (Hz)	4 000	4 000	3 500/5 800	3 500/5 800	3 800	3 800	3 800
SPL (dB)	91	90	91	91	91	90	89
DIN-Ø (mm)	TT 165/HT 13	TT 130/HT 13	200	6" x 9"	165	130	100
Cutting Out (mm)	TT 140	TT 115	184	142 x 212	140	115	92
Mounting depth (mm)	TT 54	TT 50	70	65	54	50	47



- Multi-layer coated cellulose cone
- Light foam surround for high efficiency
- Titanium coated tweeter
- Suspension and magnetic field optimised with KLIPPEL® measurement system
- Perfect for rear deck and door panel installation
- Solid protection cover with aluminium hairline finish
- Tweeter assembly cabinet (213/216)

SOLID PROTECTION COVER WITH ALUMINIUM HAIRLINE FINISH



Edition 216



Edition 693



Edition 162

RACER 320



- 3 way triax system with integrated crossover
- Warp resistant, low-resonance steel basket
- PTC-protected midrange and tweeter
- SPL-optimized coated paper cone
- Silver plated screw terminal
- High power magnet incl. magnet cover



Racer 320

HIGH POWER MAGNET INCL. MAGNET COVER



	Edition 216	Edition 213	Edition 693	Edition 162	Edition 132	Edition 102	Racer 320
System	2-way	2-way	3-way	2-way	2-way	2-way	3-way
Type	Compo	Compo	Triaxial	Coaxial	Coaxial	Coaxial	Triaxial
Power handling RMS/max. (W)	60/240	55/220	65/260	50/200	45/180	40/160	100/400
Impedance (Ω)	4	4	4	4	4	4	4
Frequency response (Hz)	45 - 20 000	50 - 20 000	40 - 20 000	45 - 20 000	50 - 20 000	55 - 20 000	22 - 34 000
Crossover frequencies (Hz)	4 500	4 500	2 500/4 500	4 500	4 500	4 500	1 200/3 700
SPL (dB)	90	90	91	90	90	89	92
DIN-Ø (mm)	TT 165/HT 13	TT 130/HT 13	6" x 9"	165	130	100	200
Cutting Out (mm)	TT 144,5	TT 114	222 x 152	144,5	114	92	185
Mounting depth (mm)	TT 58	TT 53	76	58	53	46	72

MULTI-LAYER COATED CELLULOSE CONE

-  Solid Steel Basket
-  Ventilated Voice Coil
-  Coated Paper Membrane
-  Maximum Efficiency
-  Titanium Tweeter
-  Klippel® Engineered

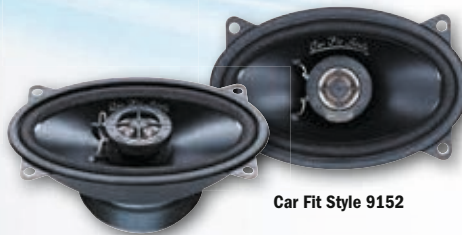
- Warp resistant, low-resonance steel basket
- Additional voice-coil ventilation for optimised power handling and less mechanical damping
- Multi-layer coated cellulose cone
- Light foam surround for high efficiency
- Titanium coated tweeter with acoustic equalizer and neodymium drive
- Suspension and magnetic field optimised with KLIPPEL® measurement system

Car Specific speakers

- T15**
- Titanium coated tweeter with acoustic EQ and neodymium drive
 - Universal mounting accessories included



Car Fit Style 216



Car Fit Style 9152











Car Fit Style 872



Car Fit Style T15



Car Fit Style 162

								
	CFS 216	CFS 213	CFS 9152	CFS 162	CFS 132	CFS 102	CFS 872	CFS T15
System	2-way	2-way	2-way	2-way	2-way	2-way	2-way	13 mm
Type	Compo	Compo	Coaxial	Coaxial	Coaxial	Coaxial	Coaxial	T-System
Power handling RMS/max. (W)	60/240	50/200	40/160	50/200	45/180	40/160	35/140	30/120
Impedance (Ω)	4	4	4	4	4	4	4	4
Frequency response (Hz)	37 - 22 000	44 - 22 000	45 - 20 000	37 - 20 000	44 - 20 000	45 - 20 000	51 - 20 000	3600 - 22000
Crossover frequencies (Hz)	4 400	4 400	4 400	4 400	4 400	4 400	4 400	3 600
SPL (dB)	91	90	89	91	90	89	88	90
DIN-Ø (mm)	TT 165/HT 13	TT 130/HT 13	4" x 6"	165	130	100	87	13
Cutting Out (mm)	TT 142	TT 119	87 x 144	142	119	93	79	-
Mounting depth (mm)	TT 55	TT 46	46	55	46	42	35	-
Available for	Alfa Romeo, Audi, BMW, Chevrolet, Chrysler, Citroen, Daewoo, Dodge, Fiat, Ford, Honda, Hyundai, Jaguar, Kia, Lancia, Mazda, Mercedes, Mini, Mitsubishi, Nissan, Opel, Peugeot, Renault, Rover, Saab, Seat, Skoda, Subaru, Suzuki, Toyota, Volvo, VW	Alfa Romeo, Audi, BMW, Citroen, Dacia, Daihatsu, Fiat, Ford, Honda, Hyundai, Kia, Lada, Mazda, Mercedes, Opel, Peugeot, Renault, Volvo, VW	Daewoo, Fiat, Ford, Honda, Lancia, Mercedes, Nissan, Seat, Toyota, VW	Alfa Romeo, Audi, BMW, Chevrolet, Chrysler, Citroen, Daewoo, Daihatsu, Dodge, Fiat, Ford, Honda, Hyundai, Jaguar, Kia, Lada, Lancia, Mazda, Mercedes, Mitsubishi, Nissan, Peugeot, Renault, Rover, Subaru, Suzuki, Toyota, Volvo, VW	Alfa Romeo, Audi, BMW, Citroen, Dacia, Daihatsu, Fiat, Ford, Honda, Hyundai, Kia, Lada, Mazda, Mercedes, Mitsubishi, Nissan, Opel, Peugeot, Rover, Skoda, Subaru, Suzuki, Toyota, Volvo, VW	Alfa Romeo, Audi, BMW, Chevrolet, Citroen, Daewoo, Daihatsu, Fiat, Ford, Honda, Hyundai, Kia, Lada, Lancia, Mazda, Mercedes, Mitsubishi, Opel, Peugeot, Renault, Rover, Saab, Seat, Subaru, Suzuki, Toyota, VW	Fiat, Peugeot, Saab, Seat, Volvo, VW	Universal



- PUR Cone
- 2" kapton high power voice coil
- Silver plated terminal
- 40oz high power magnet system
- Highly flexible rubber surround and reinforced spider for optimized efficiency
- Low-resonant steel basket with "wrinkle" covering

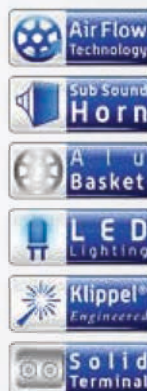


SILVER PLATED TERMINAL



AD 130 BP

	Xpress 12
System	12" Subwoofer
Power handling RMS/max. (W)	200/400
Impedance (Ω)	4
SPL (dB)	93
DIN Ø	300
Cutting Out (TT/HT/mm)	279
Mounting depth (TT/HT/mm)	127
TSP	
Fs/Qes/Qms/Qts (Hz)	27/0.66/6.1/0.6
VAS (l)/Xmax (mm)/ RDC (Ω)	106/10/3.3
Enclosure	
Sealed (l)	30
Reflex (l)	60
Port (Ø/l/mm)	100/300

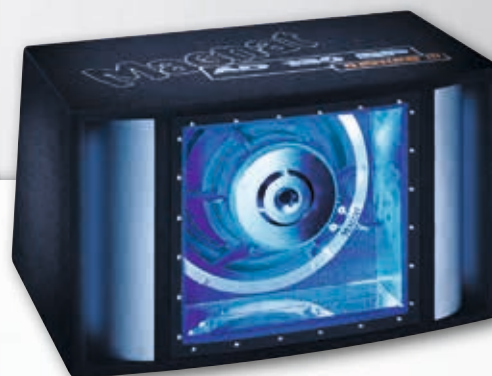


- AF TECH Woofer
- Bandpass technology for maximum efficiency
- Double aluminium horn attachment to reduce ventilation noise
- Optimum pressure distribution in the individual chambers through laser-supported case development
- Slanting baffle to reduce standing waves
- MDF case with multiple struts
- Loudspeaker fastenings with metric screws
- Blue LED illumination
- Design inner chamber with aluminium panel and mirror
- Anti-slip covering with logo stick in 3 colours with sophisticated design
- Nickel-plated screw terminal with LED power-on electronics



DESIGN INNER CHAMBER WITH ALUMINIUM PANEL AND MIRROR

DOUBLE ALUMINIUM HORN ATTACHMENT TO REDUCE VENTILATION NOISE



	AD 130 BP
System (inch)	12
Type	Bandpass
Power handling RMS/max. (W)	500/1 500
Impedance (Ω)	3
Frequency response (Hz)	19 - 250
SPL (dB)	94
Dimensions WxHxD (mm)	610 x 390 x 370/470

DESTROYER JK 3000



DESIGN SUBWOOFER RING

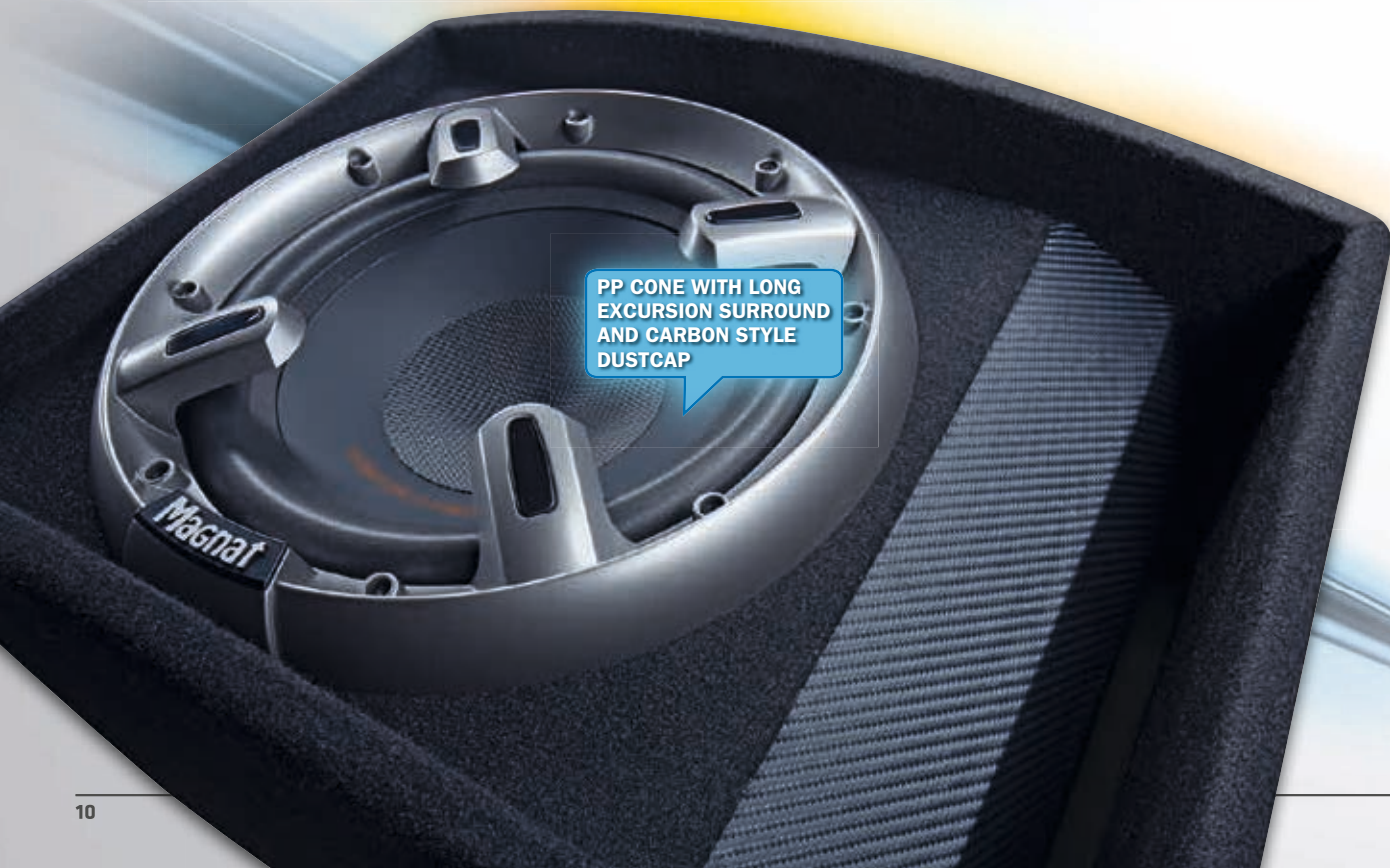
AIR-FLOW OPTIMIZED BASS REFLEX PORT IN CARBON STYLE

- FlowOptimized
- Maximum Deflection
- High Performance Voice Coil
- PP Cone
- Solid Steel Basket
- Solid Terminal

- High power bass reflex subwoofer
- Design subwoofer ring
- Air-flow optimized bass reflex port in carbon style
- 12" high power driver with pole core ventilation and 2" voice coil
- PP cone with long excursion surround and carbon style dustcap
- Solid steel basket with additional voice coil ventilation
- High-end screw terminal
- Anti-skid carpet with logo stitch



	Destroyer JK 3000
System (inch)	12
Type	bass reflex
Power handling RMS/max. (W)	400/1 200
Impedance (Ω)	4
Frequency response (Hz)	22 - 500
SPL (dB)	91
Dimensions WxHxD/D (mm)	535 x 405 x 295/360



PP CONE WITH LONG EXCURSION SURROUND AND CARBON STYLE DUSTCAP

EXTREME CHARGER 230

DESIGN SUBWOOFER RING WITH BLUE LED ILLUMINATION

DOUBLE BANDPASS SUBWOOFER WITH SOLID PLEXIGLAS WINDOW

-  LED Lighting
-  FlowOptimized
-  High Power Magnet
-  High Performance Voice Coil
-  Solid Steel Basket
-  Ventilated Voice Coil

- Double bandpass subwoofer with solid plexiglas window
- Design subwoofer ring with blue LED illumination
- Air-flow optimized bass reflex ports
- Screw terminal including LED remote function
- 12" high power driver with pole core ventilation and long excursion surround
- 44oz high-power magnet
- 2" 4-layer voice coil
- Solid steel basket with additional voice coil ventilation
- Anti-slip carpet with logo stitch



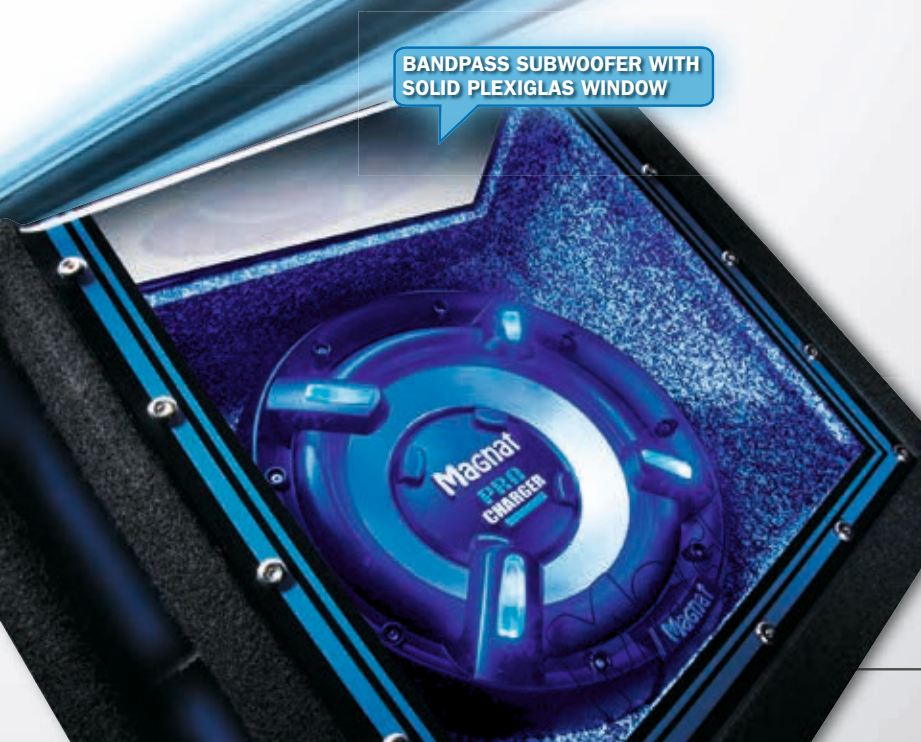
	Extreme Charger 230
System (Inch)	2 x 12
Type	Bandpass
Power handling RMS/max. (W)	1 x 800/2 400
Impedance (Ω)	2
Frequency response (Hz)	20 - 500
SPL (dB)	94
Dimensions WxHxD (mm)	705 x 395 x 405/465

PRO CHARGER 130

-  LED Lighting
-  FlowOptimized
-  High Power Magnet
-  High Performance Voice Coil
-  Solid Steel Basket
-  Solid Terminal

- Bandpass subwoofer with solid plexiglas window
- Design subwoofer ring with blue LED illumination
- Air-flow optimized bass reflex port
- Screw terminal incl LED remote function
- 12" high power driver with pole core ventilation and long excursion surround
- 44oz high power magnet
- 2" 4-layer voice coil
- Solid steel basket with additional voice coil ventilation
- Anti-slip carpet with logo stitch

BANDPASS SUBWOOFER WITH SOLID PLEXIGLAS WINDOW



AutoZvuk 12/09
Russia
Editor's choice



	Pro Charger 130
System (Inch)	12
Type	Bandpass
Power handling RMS/max. (W)	400/1 200
Impedance (Ω)	4
Frequency response (Hz)	20 - 500
SPL (dB)	91
Dimensions WxHxD (mm)	435 x 405 x 340/400

BOOMBOX 320



DIGITAL ACTIVE AMPLIFIER MODULE WITH HIGH/LOW LEVEL INPUT

LONG EXCURSION PASSIVE RADIATORS TO ELIMINATE DISTORTION NOISE

- Active
- Solid Steel Basket
- High Performance Voice Coil
- High Power Magnet
- Full Feature XO
- M 3D Logo

- Powered cabinet subwoofer with 8" driver and 2 long-excursion passive radiators
- Compact enclosure dimensions
- Long excursion passive radiators to eliminate distortion noise
- Loudspeaker fixed with metrical screws in MDF baffle
- Subwoofer with solid steel basket, high performance voice coil with additional ventilation and 30oz high power magnet
- Digital active amplifier module with high/low level input, auto turn-on function, full feature XO and Bass boost
- Solid protection grille
- Anti-slip carpet with logo stitch



CAR FIT STYLE

ACTIVE SUBWOOFER WITH DIGITAL AMP

- Active
- High Power Magnet
- High Performance Voice Coil
- High Performance XO
- FlowOptimized

- High efficiency class-D amplifier module with a power output of 200 watts max
- 8" woofer with 22oz high-power magnet system and 1.5" double voice-coil
- Volume continuously variable
- Variable phase control 0 – 180 degrees
- Low pass continuously variable 90 – 190 Hz
- High level and low level inputs
- High level input with auto turn-on function
- Bandpass cabinet with MDF baffle
- Airflow-optimised reflex port
- Loudspeaker fixed with metrical screws
- Anti-slip carpet

	Boombox 320
System (inch)	8
Type	powered subwoofer
Max. power output (W)	400
RMS power output (W)	150
Frequency response (Hz)	26 - 150
Input sensitivity (mV)	low level 100 /high level 200
Input impedance (kΩ)/(Ω)	low level 10/high level 25
Fuse size (A)	25
Supply voltage (V)	12
Dimensions WxHxD/D (mm)	740 x 260 x 200/235

ACTIVE SUBWOOFER WITH DIGITAL AMP



Inner construction



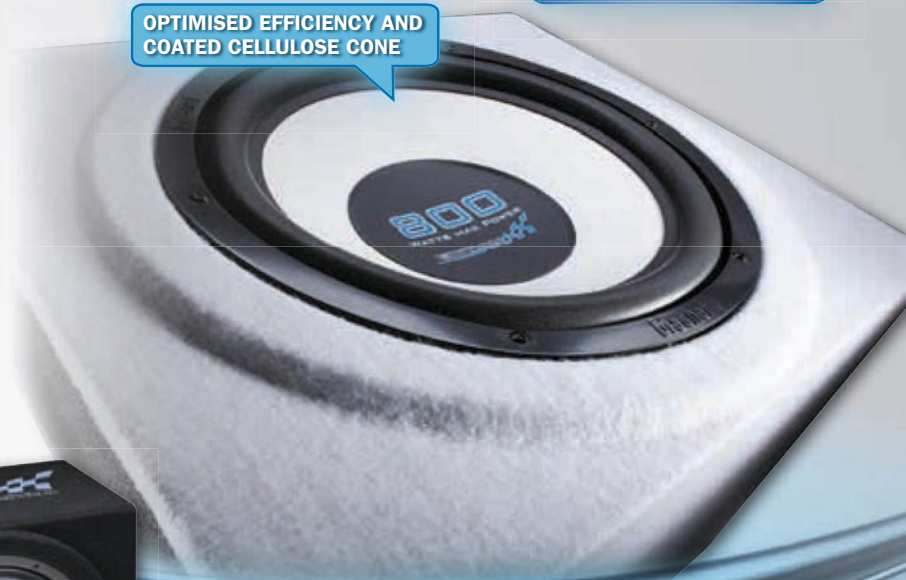
	Car Fit Style Sub 200 A
System (inch)	8
Type	powerd Bandpass
Max. power output (W)	200
RMS power output (W)	80
Frequency response (Hz)	26 - 190
Input sensitivity (mV)	line in 200 /high level 600
Input impedance (kΩ)/(Ω)	line in 10/high level 500
Fuse size (A)	7,5
Supply voltage (V)	12
Dimensions WxHxD/D (mm)	360 x 275 x 215/250

EDITION BS 30



- Sealed cabinet subwoofer
- 12" high-performance driver with 2" high-power voice-coil and pole core ventilation
- Optimised efficiency and coated cellulose cone
- High-quality screw terminal
- Anti-slip covering with design logo stick in two colours

OPTIMISED EFFICIENCY AND COATED CELLULOSE CONE



	Edition BS 30
System (inch)	12
Type	closed
Power handling RMS/max. (W)	250/800
Impedance (Ω)	4
Frequency response (Hz)	25 - 500
SPL (dB)	91
Dimensions WxHxD (mm)	430 x 395 x 240/335
Colour	Black, White

EDITION BR 230



- Bass reflex cabinet subwoofer
- 2 x 12" high-performance drivers with 2" high-power voice-coil and pole core ventilation
- Optimised efficiency and coated cellulose cone
- High-quality screw terminal
- Solid protection bars
- Airflow-optimised bass reflex port
- Anti-slip covering with design logo stick in two colours

ANTI-SLIP COVERING WITH DESIGN LOGO STICK IN TWO COLOURS



	Edition BR 230
System (inch)	2 x 12
Type	bass reflex
Power handling RMS/max. (W)	2 x 250/800 - 1600 max.
Impedance (Ω)	2 x 4
Frequency response (Hz)	25 - 250
SPL (dB)	94
Dimensions WxHxD (mm)	840 x 395 x 240/335



- Volume remote control (1000) (Channel 3+4, for use as subwoofer amplifier only) (4000)
- Encapsulated power and speaker connectors
- Encapsulated potentiometers with metal shaft
- Protection circuit that safeguards against short circuits, DC -offset and overheating
- Green operation and red protection indication LED
- White illuminated Magnat logo badge
- MosFet Twin Power Supply with low impedance capacitors with a high capacity (1000) (in total 40,000uF) (4000)
- High Capacity aluminium heatsink for an optimized heat carrying off with engraved model name

Stark 4000

- 2 ohm stable
- Low level RCA outputs provide summing signal of channel 1 to 4 for use with a subwoofer amplifier
- Bridge-/tri-mode capability
- Channel mode selector switch (4/2 CH mode)

Stark 1000

- High efficiency class D subwoofer amplifier
- 1 ohm stable
- Variable phase control 0 – 180 degrees
- Master/slave mode
- Circuit board with double copper coating

• Full-Feature X0/Bandpass:

4000:
Variable low pass
30 – 150 Hz (12 dB per octave)
Variable high pass
10 – 300 Hz (12 dB per octave)
Variable bass boost
0...12 dB at 45 Hz

1000:
Variable low pass
40 – 150 Hz (12 dB per octave)
Variable subsonic filter
15 – 50 Hz (12 dB per octave)
Variable bass boost
0...12 dB at 45 Hz



	STARK 1000	STARK 4000
Type	Digital Amplifier	Amplifier
Channel	1	4
Max. power output 4 Ω (W)	1 400	4 x 450/2 x 1200
RMS power output 4 Ω (W)	700	4 x 150/2 x 480
Max. power output 2 Ω (W)	2 000	4 x 600
RMS power output 2 Ω (W)	1 000	4 x 240
Max. power output 1 Ω (W)	3 000	-
RMS power output 1 Ω (W)	1 500	-
Frequency response (Hz) (- 3 dB)	5 - 150	5 – 75 000
Harmonic distortion (1 kHz)	< 0,08 %	< 0,025 %
Dimensions WxHxD (mm)	405 x 55 x 230	504 x 55 x 230

HIGH CAPACITY ALUMINIUM HEATSINK FOR AN OPTIMIZED HEAT CARRYING OFF WITH ENGRAVED MODEL NAME

4-CHANNEL-AMPLIFIER
2.400 W

BRIDGE-/TRI-MODE
CAPABILITY



DIGITAL
SUBWOOFER-
AMPLIFIER
3000 W



FRONT



BACK



POWER CORE

NOBLE HAIRLINE FINISH

MAGNAT LOGO BADGE ILLUMINATED BY LEDs

ALUMINIUM HEATSINK WITH ENGRAVED MODEL NAME



- Slimline design aluminium heatsink with engraved model name
- Noble hairline finish
- Magnat logo badge illuminated by LEDs
- Encapsulated power and speaker connectors
- Protection circuit that safeguards against short circuits, DC-offset and overheating
- Green operation and red protection indication LED
- Cooling by fan for an optimized heat carrying off (except One)

Four/Four.S/Two

- 2 ohm stable
- Encapsulated potentiometers with metal shaft
- Bridge/Tri-mode capability

- Low level pass trough RCA jacks (Two)
- Channel-mode-switch (4/2) (Four/Four.S)
- DUPE circuit forwards the preamplifier audio signal of CH1/2 to CH3/4 with the same filter settings (Four/Four.S)
- Low level RCA outputs provide summing signal of channel 1 to 4 for use with a subwoofer amplifier (Four/Four.S)

One/One Limited

- High efficiency class D subwoofer amplifier
- 1 ohm stable
- Encapsulated potentiometers
- Remote volume control
- Variable phase control 0 – 180 degrees
- Master/slave mode

- Power supply with low impedance capacitors
- Circuit board with double copper coating

Full-Feature X0:

- Four/Four.S/Two
Variable high pass 10 – 200 Hz (12 dB per octave)
Variable low pass 30 – 150 Hz (12 dB per octave, only CH1/2)
Variable bass boost 0 – 12 dB at 45 Hz (only CH1/2)

One/One Limited:

- Variable low pass 40 – 150 Hz (12 dB per octave)
Variable subsonic filter 15 – 40 Hz (12 dB per octave)
Variable bass boost 0...12 dB at 45 Hz



	Power Core One Limited	Power Core One	Power Core Two	Power Core Four	Power Core Four.S
Type	Digital Amplifier	Digital Amplifier	Amplifier	Amplifier	Amplifier
Channel	1	1	2	4	4
Max. power output 4 Ω (W)	1200	600	2 x 375/1 x 1 000	4 x 250/2 x 700	4 x 180/2 x 500
RMS power output 4 Ω (W)	600	300	2 x 125/1 x 400	4 x 100/2 x 280	4 x 80/2 x 200
Max. power output 2 Ω (W)	1 500	1 000	2 x 500	4 x 350	4 x 250
RMS power output 2 Ω (W)	750	500	2 x 200	4 x 140	4 x 100
Max. power output 1 Ω (W)	2 500	1 500	-	-	-
RMS power output 1 Ω (W)	1 250	750	-	-	-
Frequency response (Hz) (- 3 dB)	5 - 150	5 - 150	5 - 50 000	5 - 50 000	5 - 50 000
Harmonic distortion (1 kHz)	< 0.08 %	< 0.08 %	< 0.05 %	< 0.05 %	< 0.05 %
Dimensions WxHxD (mm)	382 x 41 x 198	272 x 41 x 198	322 x 41 x 198	382 x 41 x 198	322 x 41 x 198

POWER CORE



POWER SUPPLY WITH LOW IMPEDANCE CAPACITORS

SLIMLINE-DESIGN

SLIMLINE
H: 41 mm

HIGH EFFICIENCY
CLASS D SUB-AMPLIFIER



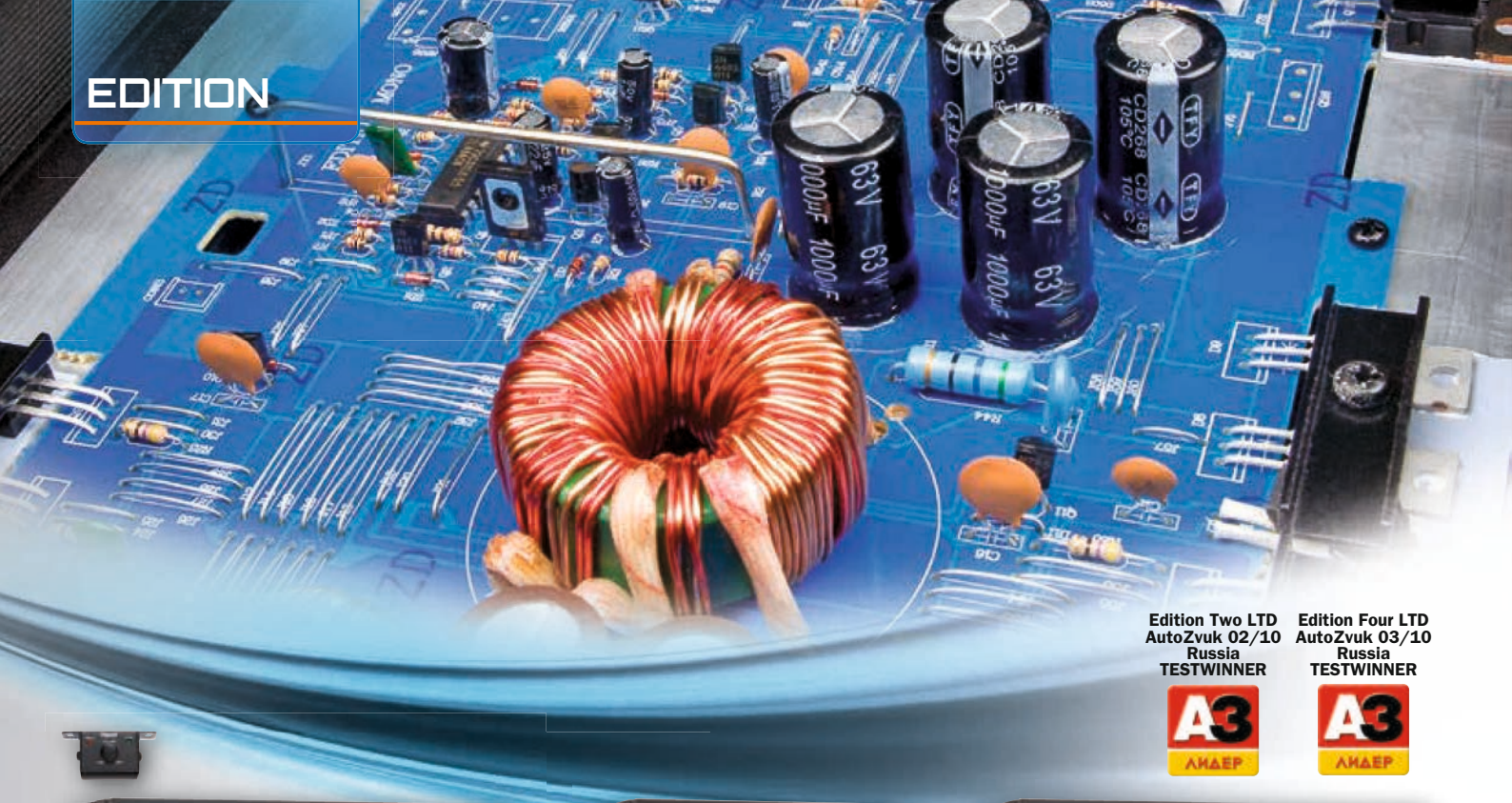
Power Core One

autohifi TESTURTEIL
UPPER CLASS 54
Price/performance
OUTSTANDING

Power Core Four

SOUND TIP
Upper Class 125 - 250 €
CAR, HI-FI 2/2013

autohifi TESTURTEIL
UPPER CLASS 59
Price/performance
OUTSTANDING



Edition Two LTD
AutoZvuk 02/10
Russia
TESTWINNER

Edition Four LTD
AutoZvuk 03/10
Russia
TESTWINNER



- 2 ohm stable
- Low level RCA outputs
- MONO/STEREO switch (Two/Two Ltd)
- Bridge-/Tri-mode capability (except Mono)
- Protection circuit that safeguards against short circuits, DC-offset and overheating
- Mosfet power supply
- Green operation and red protection indication LED
- Volume remote control (Mono)
- High quality potentiometers with metal shaft

- Power transistors fixed to the heatsink with metric screw threads to reduce heat transmission resistance
- Aluminium top plate with hairline finish
- Multi-part aluminium heatsink (5.5 g/mm) with improved surface structure for optimized heat carrying off
- Full-Feature XO:
Variable low pass
40 – 300 Hz
(12 dB per octave)

Variable high pass
40 – 300 Hz
(12 dB per octave)
Variable bass boost
0...12 dB at 45 Hz

Mono:
Variable low pass
40 – 300 Hz
(12 dB per octave)
Variable subsonic filter
10 – 40 Hz
(12 dB per octave)
Variable bass boost
0...12 dB at 45 Hz



	Edition Mono	Edition Two	Edition Two LTD	Edition Four	Edition Four LTD
Type	Amplifier	Amplifier	Amplifier	Amplifier	Amplifier
Channel	1	2	2	4	4
Max. power output 4 Ω (W)	800	2 x 150/1 x 500	2 x 200/1 x 600	4 x 140/2 x 500	4 x 200/2 x 600
RMS power output 4 Ω (W)	225	2 x 55/1 x 150	2 x 75/1 x 220	4 x 55/2 x 150	4 x 75/2 x 220
Max. power output 2 Ω (W)	1 400	2 x 250	2 x 300	4 x 250	4 x 300
RMS power output 2 Ω (W)	350	2 x 75	2 x 110	4 x 75	4 x 110
Frequency response (Hz) (- 3 dB)	5 - 300	5 - 50 000	5 - 50 000	5 - 50 000	5 - 50 000
Harmonic distortion (1 kHz)	< 0.08 %	< 0.08 %	< 0.08 %	< 0.08 %	< 0.08 %
Dimensions WxHxD (mm)	345 x 57 x 236	221 x 57 x 236	221 x 57 x 236	345 x 57 x 236	345 x 57 x 236

POWER 25

Amplifier-Installation-Kit

1.600 Watt · 25 mm² · 80 Ampère

- Power cable blue, 5 m/8AWG/25 mm²
- Ground cable brown, 1 m/8AWG/25 mm²
- Remote cable blue, 5 m/18AWG/1 mm²
- Speaker cable transparent, 8m/16AWG/1.5 mm²
- RCA cable, 5 m, double shielded, molded jacks
- Fuse holder with 80 A fuse
- Installation accessories



RCA 5

RCA cable

5 m · double shielded

- RCA cable, 5 m, double shielded, twisted design, molded jacks



POWER 16

Amplifier-Installation-Kit

1.200 Watt · 16 mm² · 60 Ampère

- Power cable blue, 5 m/8AWG/16 mm²
- Ground cable brown, 1 m/8AWG/16 mm²
- Remote cable blue, 5 m/18AWG/1 mm²
- Speaker cable transparent, 8 m/16AWG/1.5 mm²
- RCA cable, 5 m, double shielded, molded jacks
- Fuse holder with 60 A fuse



CAP 1.2F

Capacity: 1.2 Farad ±10 %

Maximum operating voltage:

12-14 V DC direct-current voltage

Operating temperature:

- 20 – 80 Celsius

E.S.R.: < 0,004 Ohm @ 100Hz/25°

Low-voltage warning:

< 10 V, with three-character display and blue LEDs

Dimensions (Ø x H): 76 x 220 mm
Weight: 1.4 kg

- 3.5-character digital voltage display with red LEDs
- Two blue LEDs to display the operating voltage
- Warning (peep sound) in the event of incorrectly connected poles and short circuit
- Aluminium cup made from brushed aluminium
- Sturdy nickel-plated hexagonal-socket screw terminals in a chrome look
- Protective cover made from transparent plastic



POWER 10

Amplifier-Installation-Kit

800 Watt · 10 mm² · 50 Ampère

- Power cable blue, 5 m/8AWG/10 mm²
- Ground cable brown, 1 m/8AWG/10 mm²
- Remote cable blue, 5 m/18AWG/1 mm²
- Speaker cable transparent, 8m/16AWG/1.5 mm²
- RCA cable, 5 m, double shielded, molded jacks
- Fuse holder with 50 A fuse
- Installation accessories



PACKAGES



Edition Set 4693

Set contents:

- 2x Edition 693
- 1x Edition BS 30
- 1x Edition Four
- Including Cable kit „Power 10“



Edition Set 4162

Set contents:

- 2x Edition 162
- 1x Edition BS 30
- 1x Edition Four
- Including Cable kit „Power 10“



Starter Two

Set contents:

- 1x Edition BS 30
- 1x Edition Two
- Including Cable kit „Power 10“

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Technical modifications and errors excepted. (03/2014)



DIN EN ISO
9001:2000