



# MOTORSPORT



## Delivery Programme 2011

Catalysts

Exhaust-Systems

Diesel Particulate Filters

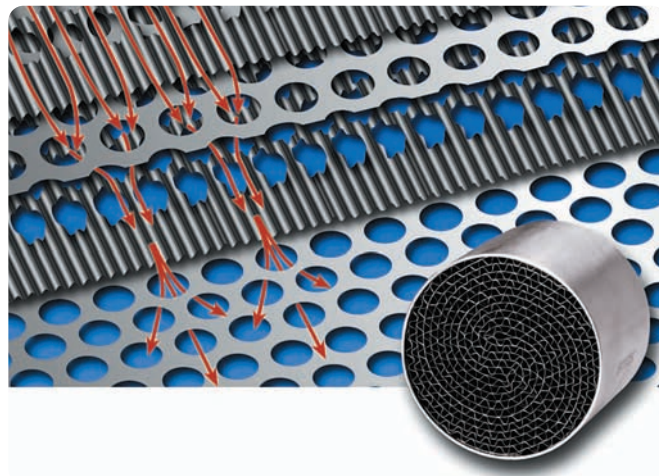
Universal Competition Exhaust Parts



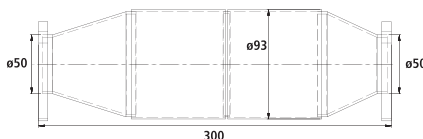
# HJS Motorsport Catalysts

**Catalytic Converter Technology:** HJS offers a universal non-regulated catalytic converter system with **100 cpsi** for motor sport applications. For the different cubic capacity classes of racing vehicles, a corresponding catalytic converter with a specifically adapted catalytic converter volume has been developed.

**New generation of HJS motorsport catalysts with FIA homologation:** The new generation of HJS high performance catalysts are characterized by 30 % less weight in relation to the so far used parts. We have reduced the backpressure about another 15%, the exhaust gas pollution reduction is optimised as well. The thickness of the foil (0.11 mm) persists unchanged. For the catalysts with the new developed foil we can guarantee the same durability in relation to our so far offered products.



PE Foil – less weight and less backpressure

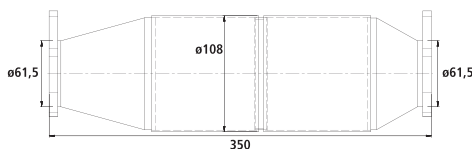


## HJS-No. 90 95 0932



0903-50

Up to 180 hp / Up to 1300 ccm  
Weight: 3.5 kg

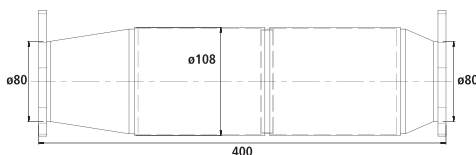


## HJS-No. 90 95 1544



1054-60/55

Up to 220 hp / Up to 2000 ccm  
Weight: 4.5 kg

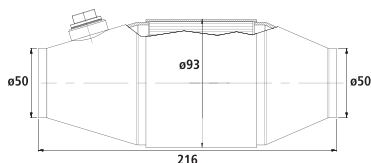


## HJS-No. 90 95 1566



1056-70

Up to 220 hp / Up to 2500 ccm  
Weight: 6.5 kg



## HJS-No. 90 95 0019



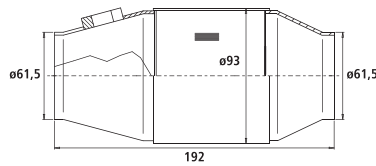
ST 9074/10 PE

WTCC, S2000, WRC

Up to 180 hp / Up to 1200 ccm,  
Up to 360 hp / Up to 2000 ccm\*  
Weight: 1.0 kg

Size in mm

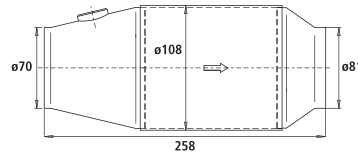
\* Two catalytic converters to be mounted parallel



## HJS-No. 90 95 0020



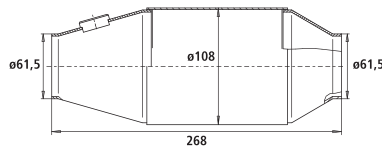
ST 9074/10 PE  
WTCC, S2000, WRC  
Up to 180 hp / Up to 1200 ccm,  
Up to 360 hp / Up to 2000 ccm\*  
Weight: 1.0 kg



## HJS-No. 90 95 0578



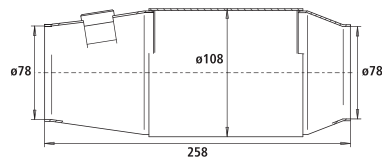
F3 1012-10 PE  
Formel 3  
Up to 240 PS / Up to 2000 ccm  
Weight: 1.6 kg



## HJS-No. 90 95 0058



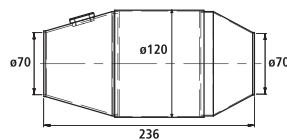
WRC 1112/10 PE  
WRC, Kit Car, Gr. N/A  
Up to 240 hp / Up to 2000 ccm,  
Up to 480 hp / Up to 4000 ccm\*  
Weight: 1.8 kg



## HJS-No. 90 95 0054



WRC 1112/10 PE  
WRC, Kit Car, Gr. N/A  
Up to 240 hp / Up to 2000 ccm,  
Up to 480 hp / Up to 4000 ccm\*  
Weight: 1.6 kg

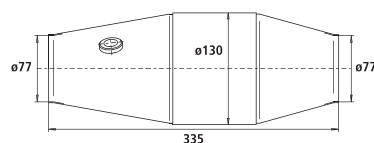


## HJS-No. 90 95 0053



S2 1210/10 PE  
S2000, WRC  
Up to 280 hp / Up to 2000 ccm,  
Up to 560 hp / Up to 4000 ccm\*  
Weight: 1.5 kg

**NEW**



## HJS-No. 90 95 0060

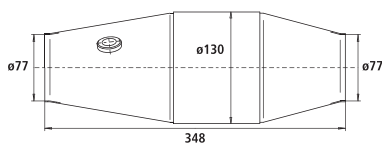


T 1.6 1277-10 PE  
WRC, WTCC  
Up to 350 hp / Up to 1600 ccm  
Weight: 1.4 kg

Size in mm

\* Two catalytic converters to be mounted parallel

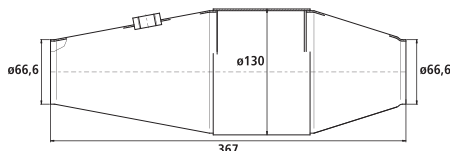
# HJS Motorsport Catalysts



## HJS-No. 90 95 0046



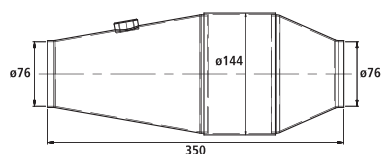
2/2790-10 PE  
WRC, Kit Car, Gr. N/A  
Up to 350 hp / Up to 2000 ccm,  
Up to 700 hp / Up to 5000 ccm\*  
Weight: 2.0 kg



## HJS-No. 90 95 0045



WRC 1279/10 PE  
WRC, Kit Car, Gr. N/A  
Up to 350 hp / Up to 2000 ccm,  
Up to 700 hp / 5000 ccm\*  
Weight: 2.0 kg



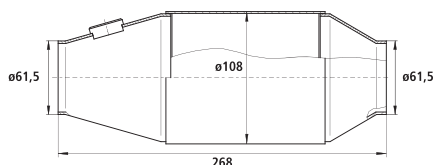
## HJS-No. 90 95 0050



GT 1407/10 PE  
GT, WRC, Kit Car, Gr. N/A  
Up to 400 hp / Up to 3150 ccm,  
Up to 800 hp / Up to 6300 ccm\*  
Weight: 3.1 kg

# HJS Motorsport Cup series Catalysts

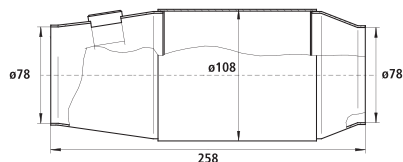
For all Cup series and standard motorsport cars with exhaust temperature not over 950 degrees centigrade, HJS offers a special **100 cpsi** catalyst which combines the high quality of HJS products with a best price calculation. The catalyst WRC 1112-10 Cup is the right choice for all cars up to 2000 ccm/ 240 hp, the catalyst WRC 1279-10 Cup for all cars up to 2000 ccm/300 hp. The Cup catalyst is based on the well known HJS product line of motor sport catalysts that guarantees best quality and durability for years.



## HJS-No. 90 95 0057 Cup



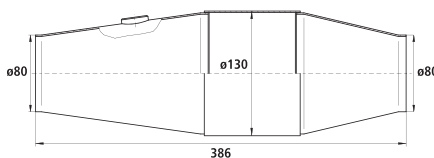
WRC 1112-10  
Up to 240 hp / Up to 2000 ccm  
Weight: 2.2 kg



## HJS-No. 90 95 0055 Cup



WRC 1112-10  
Up to 240 hp / Up to 2000 ccm  
Weight: 2.1 kg



## HJS-No. 90 95 0044 Cup



WRC 1279-10  
Up to 300 hp / Up to 2000 ccm,  
Up to 600 hp / Up to 4000 ccm\*  
Weight: 2.9 kg

Size in mm

\* Two catalytic converters to be mounted parallel

# HJS Motorsport Exhaust Systems



HJS has developed an exhaust system for Mitsubishi EVO VII up to X and Subaru WRX STI including FIA homologated WRC catalytic converters.

The exhaust systems are made of stainless steel. We also offer an optimised front pipe for the Mitsubishi EVO VII Up to X.

## Mitsubishi



Motorsport Exhaust System Mitsubishi EVO X

### Exhaust Systems

HJS-No.	Car	Exhaust-System	Catalytic-Converter
90 60 0308	Mitsubishi EVO VII / VIII / IX	Front Pipe Gr. N	-
90 60 0310	Mitsubishi EVO X	Front Pipe Gr. N	-
90 60 0318	Mitsubishi EVO VII / VIII / IX	Front Pipe Gr. A	-
90 60 0320	Mitsubishi EVO X	Front Pipe Gr. A	-
90 95 0308	Mitsubishi EVO VII / VIII / IX	Exhaust System Gr.N	WRC 1279/10 PE
90 95 0310	Mitsubishi EVO X	Exhaust System Gr. N	WRC 1279/10 PE
90 95 0320	Mitsubishi EVO X	Exhaust System Gr. A	WRC 1279/10 PE

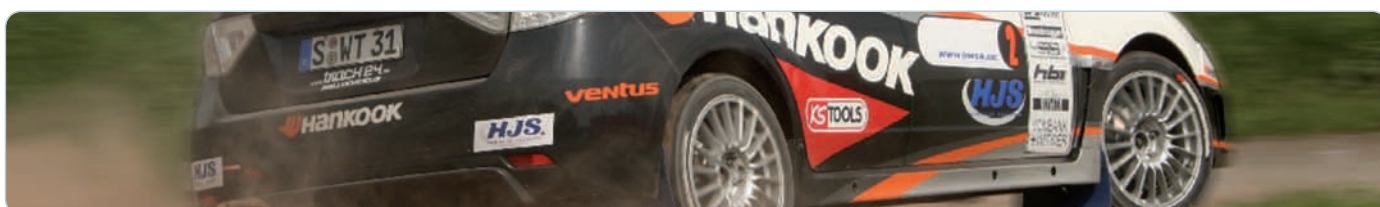
## Subaru



Motorsport Exhaust System Subaru WRX STI

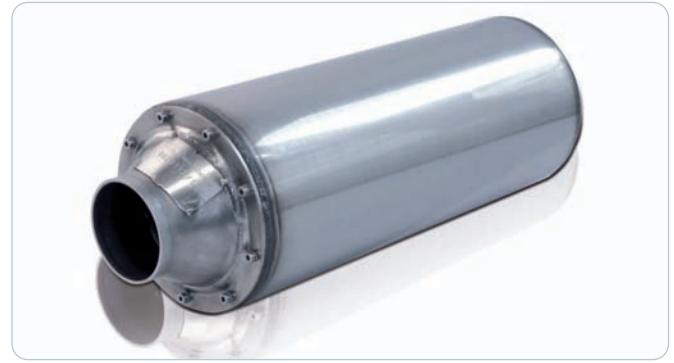
### Exhaust Systems

HJS-No.	Car	Exhaust-System	Catalytic-Converter
90 95 0400	Subaru WRX STI	Exhaust-System Gr. N	WRC 1279/10 PE left
90 95 0410	Subaru WRX STI	Exhaust-System Gr. N	WRC 1279/10 PE right



# HJS Motorsport Catalyst Muffler Systems

The developed Motorsport **catalyst muffler system** from HJS provides many advantages. The compact construction permits the installation also in vehicles with little ground clearance. The combination of muffler and catalyst effects a clear weight reduction. The exchangeable catalyst unit guarantees a cost-effective replacement. The system is certified for all vehicles up to 2000 ccm capacity.



## Catalyst Muffler Systems

HJS-No.	Diameter x Length	Pipe Diameter	FIA Homologation
90 95 0600	142 x 425 mm	60 / 63,5 mm	WRC 1112/10 PE
90 95 0601	spare part catalyst	60 / 63,5 mm	WRC 1112/10 PE
90 95 0610	142 x 425 mm	70 / 76 mm	WRC 1112/10 PE
<b>NEW</b> 90 95 0611	spare part catalyst	70 / 76 mm	WRC 1112/10 PE

# HJS Diesel Particulate Filters for Motorsport

The German Motorsportbund (DMSB) regulates for diesel powered vehicles the usage of a particulate filter. HJS developed a **high-performance particulate filter** for diesel powered vehicles in the context of the Alfa 147 Cup. This particulate filter meets all essential Motorsport requirements. HJS also offers diesel particulate filters for up to date Race-Trucks of the FIA European Truck Racing Championship.



## Diesel Particulate Filter

HJS-No.	Homologation	Vehicle Classification
90 95 2501	MS DPF 1.8/0.87	Up to 2000 ccm / 210 hp front-wheel drive
90 95 2502	MS DPF 2.4/1.3	Up to 2000 ccm / 280 hp front-wheel drive
90 95 2503	MS DPF 2.5/1.3	Up to 3000 ccm / 300 hp rear-wheel drive
90 95 2504	MS DPF 1.7/0.87	BMW 120 D exhaust-system Gr. N
90 95 2505	MS DPF 1.7/0.87	Up to 2000 ccm / 210 hp rear-wheel drive
90 95 0420	MS DPF 1.7/0.87	Subaru Impreza Boxer Diesel
94 64 0006	Race-Trucks	Up to 12.000 ccm / Version 2010
94 60 0253	Additive F 51	1 liter



# HJS Universal Competition Exhaust Parts

**Universal competition exhaust parts:** A complete program of universal parts for the self-construction of exhaust systems is offered by the company HJS. With this delivery program, each passionate motor sport fan has now the opportunity of designing his exhaust system individually. It is also extremely helpful for the reconstruction or replacement of original parts which are no longer available. All parts are manufactured in stainless steel. The

HJS silencers reduce the noise by absorption through centre perforated tubes and high temperature proof fibreglass. Accordingly, there is less gas flow restriction and hence back pressure is reduced and engine performance is optimised.



Outside-Ø 45 mm - Universal Competition Pipes and Bends			
HJS-No.	Description	Length	Wall Thickness
90 60 4900	straight pipe	1000 mm	1.5 mm
90 60 4930	30° degree bend	125 mm	1.5 mm
90 60 4945	45° degree bend	135 mm	1.5 mm
90 60 4960	60° degree bend	160 mm	1.5 mm
90 60 4990	90° degree bend	220 mm	1.5 mm

Outside-Ø 48 mm - Universal Competition Pipes and Bends			
HJS-No.	Description	Length	Wall Thickness
90 60 5000	straight pipe	1000 mm	1.5 mm
90 60 5030	30° degree bend	125 mm	1.5 mm
90 60 5045	45° degree bend	135 mm	1.5 mm
90 60 5060	60° degree bend	160 mm	1.5 mm
90 60 5090	90° degree bend	220 mm	1.5 mm

Outside-Ø 50 mm - Universal Competition Pipes and Bends			
HJS-No.	Description	Length	Wall Thickness
90 60 5100	straight pipe	1000 mm	1.5 mm
90 60 5130	30° degree bend	120 mm	1.5 mm
90 60 5145	45° degree bend	140 mm	1.5 mm
90 60 5160	60° degree bend	140 mm	1.5 mm
90 60 5190	90° degree bend	220 mm	1.5 mm

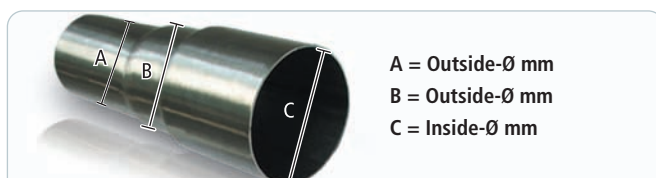
Outside-Ø 55 mm - Universal Competition Pipes and Bends			
HJS-No.	Description	Length	Wall Thickness
90 60 5200	straight pipe	1000 mm	1.5 mm
90 60 5230	30° degree bend	120 mm	1.5 mm
90 60 5245	45° degree bend	160 mm	1.5 mm
90 60 5260	60° degree bend	165 mm	1.5 mm
90 60 5290	90° degree bend	220 mm	1.5 mm

Outside-Ø 60 mm - Universal Competition Pipes and Bends			
HJS-No.	Description	Length	Wall Thickness
90 60 5300	straight pipe	1000 mm	1.5 mm
90 60 5330	30° degree bend	120 mm	1.5 mm
90 60 5345	45° degree bend	145 mm	1.5 mm
90 60 5360	60° degree bend	160 mm	1.5 mm
90 60 5390	90° degree bend	220 mm	1.5 mm

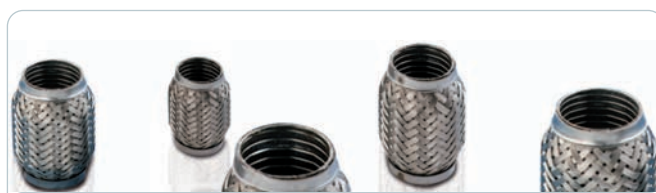
Outside-Ø 65 mm - Universal Competition Pipes and Bends			
HJS-No.	Description	Length	Wall Thickness
90 60 5400	straight pipe	1000 mm	1.2 mm
90 60 5430	30° degree bend	120 mm	1.2 mm
90 60 5445	45° degree bend	145 mm	1.2 mm
90 60 5460	60° degree bend	190 mm	1.2 mm
90 60 5490	90° degree bend	220 mm	1.2 mm

Outside-Ø 70 mm - Universal Competition Pipes and Bends			
HJS-No.	Description	Length	Wall Thickness
90 60 5500	straight pipe	1000 mm	1.5 mm
90 60 5530	30° degree bend	120 mm	1.5 mm
90 60 5545	45° degree bend	145 mm	1.5 mm
90 60 5560	60° degree bend	190 mm	1.5 mm
90 60 5590	90° degree bend	240 mm	1.5 mm

Outside-Ø 76 mm - Universal Competition Pipes and Bends			
HJS-No.	Description	Length	Wall Thickness
90 60 5700	straight pipe	1000 mm	1.5 mm
90 60 5730	30° degree bend	130 mm	1.5 mm
90 60 5745	45° degree bend	150 mm	1.5 mm
90 60 5760	60° degree bend	190 mm	1.5 mm
90 60 5790	90° degree bend	250 mm	1.5 mm

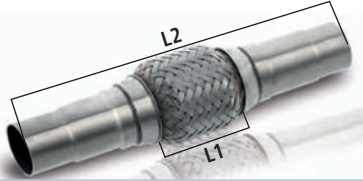


Stepped Sleeves					
HJS-No.	Description	A	B	C	Length
90 60 5020	Stepped Sleeves	45	48	50 mm	170 mm
90 60 5120	Stepped Sleeves	48	50	55 mm	170 mm
90 60 5220	Stepped Sleeves	50	55	60 mm	170 mm
90 60 5320	Stepped Sleeves	55	60	70 mm	170 mm
90 60 5520	Stepped Sleeves	60	70	76 mm	170 mm



Flexible-pipe coupling, 3-thick walled, Heavy Duty, gas-tight					
HJS-No.	Description	Inside-Ø	Outside-Ø	Length	
90 60 4910	flexible tube	45 mm	70 mm	94 mm	
90 60 5110	flexible tube	50 mm	75 mm	100 mm	
90 60 5210	flexible tube	55 mm	80 mm	105 mm	
90 60 5310	flexible tube	60 mm	90 mm	120 mm	
90 60 5410	flexible tube (2-thick walled)	64 mm	86 mm	200 mm	<b>NEW</b>
90 60 5510	flexible tube	70 mm	95 mm	150 mm	
90 60 5710	flexible tube	76 mm	101 mm	150 mm	

**NEW**



**Stepped flexible-tube, gas-tight**

HJS-No.	Description	Inside-Ø	Outside-Ø	L1	L2
83 00 8560	Stepped flexible-tube	45/48/50 mm	76 mm	100 mm	400 mm
83 00 8561	Stepped flexible-tube	48/50/55 mm	85 mm	105 mm	400 mm
83 00 8562	Stepped flexible-tube	50/55/60 mm	90 mm	120 mm	400 mm
83 00 8563	Stepped flexible-tube	55/60/70 mm	95 mm	150 mm	400 mm
83 00 8564	Stepped flexible-tube	60/70/76 mm	101 mm	150 mm	400 mm



**Three-hole flanges**

HJS-No.	Description	Ø	bolt circle	bore
90 60 3107	Three-hole flange	50 mm	76 mm	9 mm
90 60 3109	Three-hole flange	60 mm	91 mm	9 mm
90 60 3110	Three-hole flange	80 mm	116 mm	11 mm



**Y-Pipes**

HJS-No.	Description, Outside-Ø	Pipe Distance	Total Length
90 60 5150	Y-pipe, 1 x 50 mm / 2 x 50 mm	70 mm	200 mm
90 60 5251	Y-pipe, 1 x 55 mm / 2 x 50 mm	70 mm	200 mm
90 60 5352	Y-pipe, 1 x 60 mm / 2 x 55 mm	75 mm	200 mm
90 60 5354	Y-pipe, 1 x 60 mm / 2 x 60 mm	80 mm	200 mm
90 60 5553	Y-pipe, 1 x 70 mm / 2 x 60 mm	80 mm	200 mm
90 60 5755	Y-pipe, 1 x 76 mm / 2 x 60 mm	80 mm	200 mm



**Packing ring / Packing ring for Connection adaptors**

HJS-No.	Description	Ø
83 11 2088	packing ring	45/50 mm
83 11 1392	packing ring	55/60 mm
90 60 3138	packing ring	70/76 mm



**Compensators / Connection adaptors**

HJS-No.	Description	Inside-Ø	Total Length
90 60 4915	compensator / Connection adaptor	45 mm	155 mm
90 60 5015	compensator / Connection adaptor	48 mm	155 mm
90 60 5115	compensator / Connection adaptor	50 mm	155 mm
90 60 5215	compensator / Connection adaptor	55 mm	155 mm
90 60 5315	compensator / Connection adaptor	60 mm	155 mm
90 60 5515	compensator / Connection adaptor	70 mm	155 mm
90 60 5715	compensator / Connection adaptor	76 mm	155 mm

A 0.5 mm thick aluminum blank is used as support material and guarantees the necessary stability for the mounting on the vehicle floor.

A 2.0 mm thick ceramics fleece material is used as a heat shield, which is heat resistance up to 1.000° C.



**Heat shields, heat resistance up to 1.000° C**

HJS-No.	Description	Thickness	W x L
90 60 3150	Heat shield	2.5 mm	330 x 330 mm
90 60 3151	Heat shield	2.5 mm	330 x 500 mm
90 60 3152	Heat shield	2.5 mm	330 x 660 mm



**Connection adaptors**

HJS-No.	Description	Inside-Ø	Length
90 60 3113	connection adaptor with λ plug	45 mm	75 mm
90 60 3114	connection adaptor	45 mm	75 mm
90 60 3115	connection adaptor with λ plug	50 mm	75 mm
90 60 3116	connection adaptor	50 mm	75 mm
90 60 3118	connection adaptor with λ plug	55 mm	75 mm
90 60 3119	connection adaptor	55 mm	75 mm
90 60 3120	connection adaptor with λ plug	60 mm	75 mm
90 60 3121	connection adaptor	60 mm	75 mm
90 60 3123	connection adaptor with λ plug	70 mm	75 mm
90 60 3124	connection adaptor	70 mm	75 mm
90 60 3125	connection adaptor with λ plug	76 mm	75 mm
90 60 3126	connection adaptor	76 mm	75 mm



**Competition Boxes, Absorption principle**

HJS-No.	Description	Tube Ø	Box dimensions Ø x l / h x w x l	Total Length
90 60 6135	silencer round	50 mm	100 x 400 mm	650 mm
90 60 6140	silencer round	50 mm	125 x 400 mm	650 mm
90 60 6245	silencer round	55 mm	125 x 450 mm	700 mm
90 60 6335	silencer round	60 mm	110 x 350 mm	450 mm
90 60 6345	silencer round	60 mm	125 x 550 mm	700 mm
90 60 6343	silencer round*	60 mm	150 x 430 mm	650 mm
90 60 6545	silencer round*	70 mm	125 x 550 mm	650 mm
90 60 6740	silencer round*	76 mm	125 x 400 mm	600 mm
90 60 6745	silencer round	55 mm	150 x 225 x 450 mm	700 mm
90 60 6845	silencer round	60 mm	150 x 225 x 450 mm	700 mm
90 60 6899	silencer round*	60 mm	120 x 160 x 350 mm	450 mm

\* = stainless steel

**NEW**



**λ -sensor plug and rings**

HJS-No.	Description	Screw thread
83 00 0244	λ -sensor screwed sealing plug	M 18 x 1.5
90 60 9724	λ -sensor threaded ring with bevel	M 18 x 1.5
90 60 7690	λ -sensor threaded ring, straight	M 18 x 1.5
90 60 9725	λ -sensor threaded ring, 45° angle	M 18 x 1.5



**Straight holder, stainless steel**

HJS-No.	Description	Ø	Length
90 60 0026	Straight holder	10 mm	220 mm
90 60 0027	Straight holder	10 mm	250 mm



**"Clip on" tips**

HJS-No.	Description	Ø	Length
81 01 9254	"Clip on" chrome tip	45.0 - 49.5 mm	118 mm
81 01 9261	"Clip on" chrome tip	50.0 - 54.5 mm	118 mm
81 01 9266	"Clip on" chrome tip	55.0 - 61.5 mm	118 mm

**NEW**



**Exhaust flaps**

HJS-No.	Description	Ø
90 60 5125	Exhaust flaps	50 mm
90 60 5225	Exhaust flaps	55 mm
90 60 5325	Exhaust flaps	60 mm
90 60 5425	Exhaust flaps	65 mm
90 60 5525	Exhaust flaps	70 mm



**Pipe Clamp (VW/Audi)**

HJS-No.	Description	Ø
83 11 8908	Pipe Clamp	45.5 mm
83 11 8904	Pipe Clamp	48.5 mm
83 11 8914	Pipe Clamp	50.5 mm
83 11 8909	Pipe Clamp	55.5 mm
83 11 8917	Pipe Clamp	60.5 mm
83 11 8918	Pipe Clamp	64.5 mm

Packing unit 10 pieces



**Pipe Coupling**

HJS-No.	Description	Ø	Length
83 12 2857	Pipe Coupling	45.0 mm	90 mm
83 00 4809	Pipe Coupling	48.0 mm	90 mm
83 00 5007	Pipe Coupling	50.0 mm	70 mm
83 12 2858	Pipe Coupling	50.0 mm	90 mm
83 00 5507	Pipe Coupling	55.0 mm	70 mm
83 12 2860	Pipe Coupling	55.0 mm	90 mm
83 00 6007	Pipe Coupling	60.0 mm	70 mm
83 12 2859	Pipe Coupling	60.0 mm	90 mm
83 00 6507	Pipe Coupling	65.0 mm	70 mm
83 00 6509	Pipe Coupling	65.0 mm	90 mm
83 00 7007	Pipe Coupling	70.0 mm	70 mm



**U-clamp M8**

HJS-No.	Description	Ø
83 00 8645	U-clamp	45.0 mm
83 00 8648	U-clamp	48.0 mm
83 00 8650	U-clamp	50.0 mm
83 00 8658	U-clamp	58.0 mm
83 00 8660	U-clamp	60.0 mm
83 00 8665	U-clamp	65.0 mm
83 00 8670	U-clamp	70.0 mm

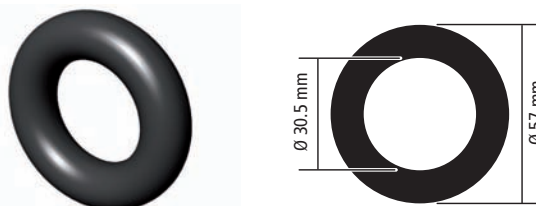
Packing unit 10 pieces



**Locking spring**

HJS-No.	Description	Ø x L
90 60 0512	Locking spring	8 x 80 mm

**NEW**

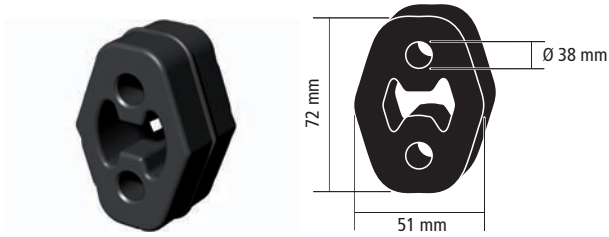


**Rubber and mounting parts**

HJS-No.	Description	Rubber thickness
90 60 1350	Rubber ring	14 mm

# HJS Universal Competition Exhaust Parts

**NEW**



Rubber and mounting parts

HJS-No.	Description	Rubber thickness
90 60 1900	Rubber pad	34 mm

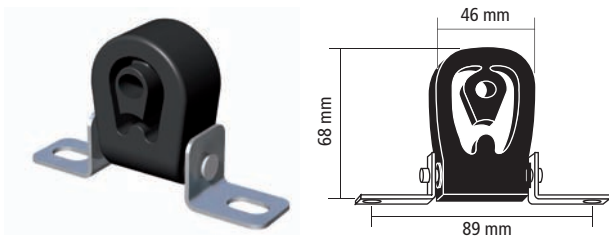
**NEW**



Rubber and mounting parts

HJS-No.	Description	Rubber thickness
90 60 1646	Rubber pad	34.8 mm

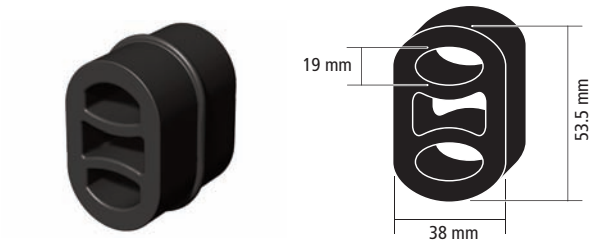
**NEW**



Rubber and mounting parts

HJS-No.	Description	Rubber thickness
90 60 1960	Rubber-metal element	34 mm

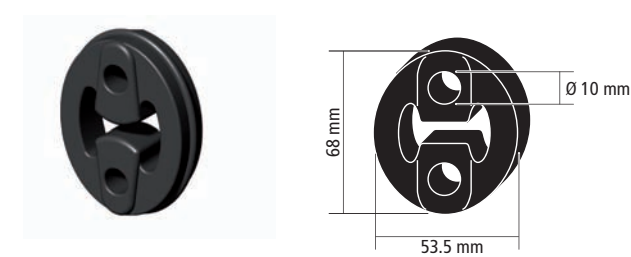
**NEW**



Rubber and mounting parts

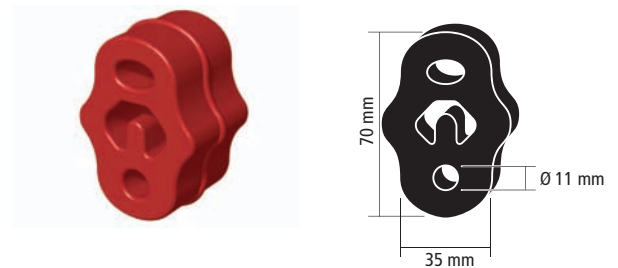
HJS-No.	Description	Rubber thickness
90 60 1964	Rubber pad	42,5 mm

**NEW**



Rubber and mounting parts

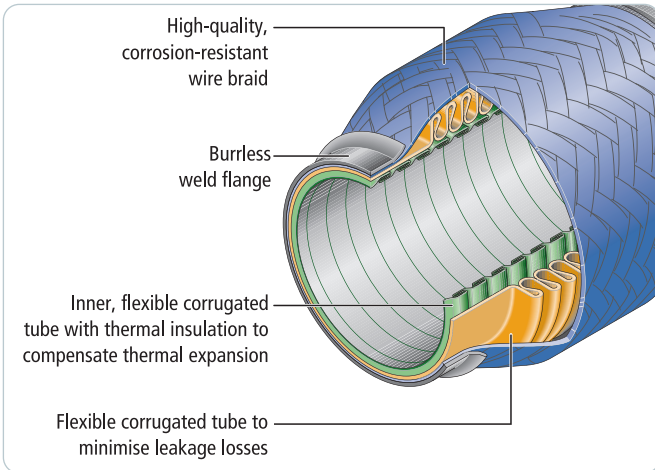
HJS-No.	Description	Rubber thickness
90 60 7111	Rubber pad	19.2 mm



Rubber and mounting parts

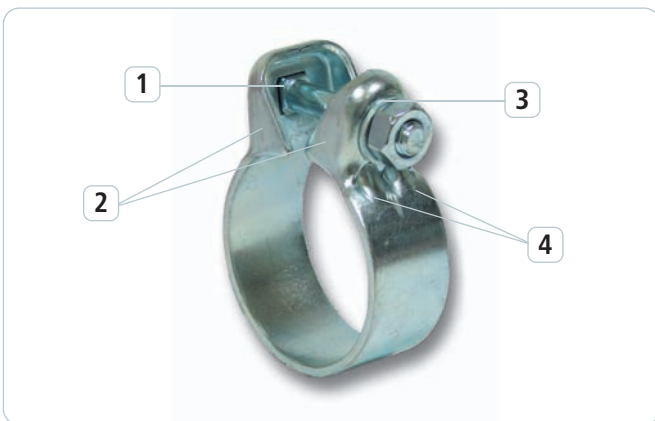
HJS-No.	Description	Rubber thickness
90 60 7112	Rubber pad heavy duty - red	38 mm





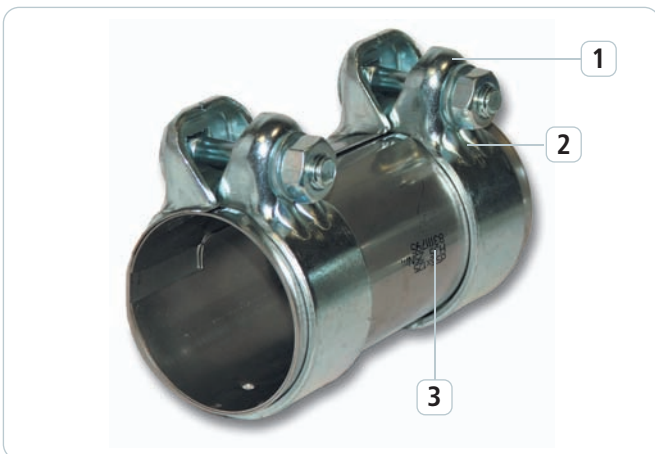
Flexible-pipe coupling

- **Mechanical decoupling function**  
Prevents stresses in the exhaust system
- **Compensation of thermal expansion**  
Can also be put to versatile use with front pipes
- **Vibration damping/noise reduction**  
Improves comfort levels in the passenger compartment
- **Excellent gas tightness**
- **Corrosion resistance**
- **Compact design**
- **Cost-efficient repair solution**



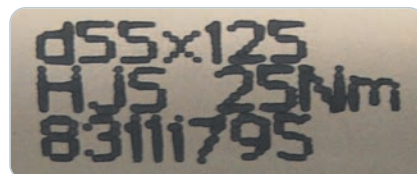
Pipe Clamp

- 1 Optimised connection fit thanks to modified screw head (carriage bolt)
- 2 Overlapping screw guides (from Ø 50 mm)
- 3 Use of washers
- 4 Dimensional stability thanks to extra beads



Pipe Coupling

- 1 Overlapping screw guides ensure excellent gas tightness.
- 2 Reinforcing beads guarantee high dimensional stability and good clamping.
- 3 Unambiguous assignment ensured by markings



- Diameter and length
- Tightening torque (Nm)
- Article number



[www.hjs-motorsport.com](http://www.hjs-motorsport.com)

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*Winners Drive Clean!*