



## AFA *TS* GmbH

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### Exhaust Extraction Systems

A Comprehensive Look Into AFA *TS*

100% Source Capture Systems

Built & Designed to Fit Your Specific Exhaust Extraction Needs



#### **Disclaimer**

Because of our on going commitment to product quality and innovation, we reserve the right, at any time, to discontinue or change specifications, prices, designs, features, models or equipment without incurring obligation.



## TABLE OF CONTENTS

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<i>Section 1</i>	<i>Hose Reels</i>	3
	Stationary Spring Hose Reels	4
	Stationary Motorized Hose Reels	6
	Mobile Spring Hose Reels	9
	Mobile Motorized Hose Reels	11
<i>Section 2</i>	<i>Aluminium Slotted Channel</i>	14
	Slotted Suction Channel	15
	Hose Trolleys	18
<i>Section 3</i>	<i>SafeConnect System</i>	21
<i>Section 4</i>	<i>System Type "Boom Arm"</i>	23
<i>Section 5</i>	<i>Dyno Exhaust System</i>	27
	For Cars	28
	For Construction Machines, Trucks and Buses	29
<i>Section 6</i>	<i>Welding Smoke Extraction System</i>	31
	ATS AK	32
	ATS AK-V	33
	ATS AMAX	34
	ATS AMAX-V	35
	Mobile Welding Extraction System	36
<i>Section 7</i>	<i>Components</i>	37
	Nozzle	28
	Hoses	48
<i>Section 8</i>	<i>Fans</i>	50
	Cast Aluminium Pressure Fans	51
	Sound Absorbing Cabinet	55
	Direct Drive Fans	56
<i>Section 9</i>	<i>Automatic Systems for Cars and Trucks</i>	57
<i>Section 10</i>	<i>Systems for Trains</i>	67

## *Section 1*

### *Hose Reels*

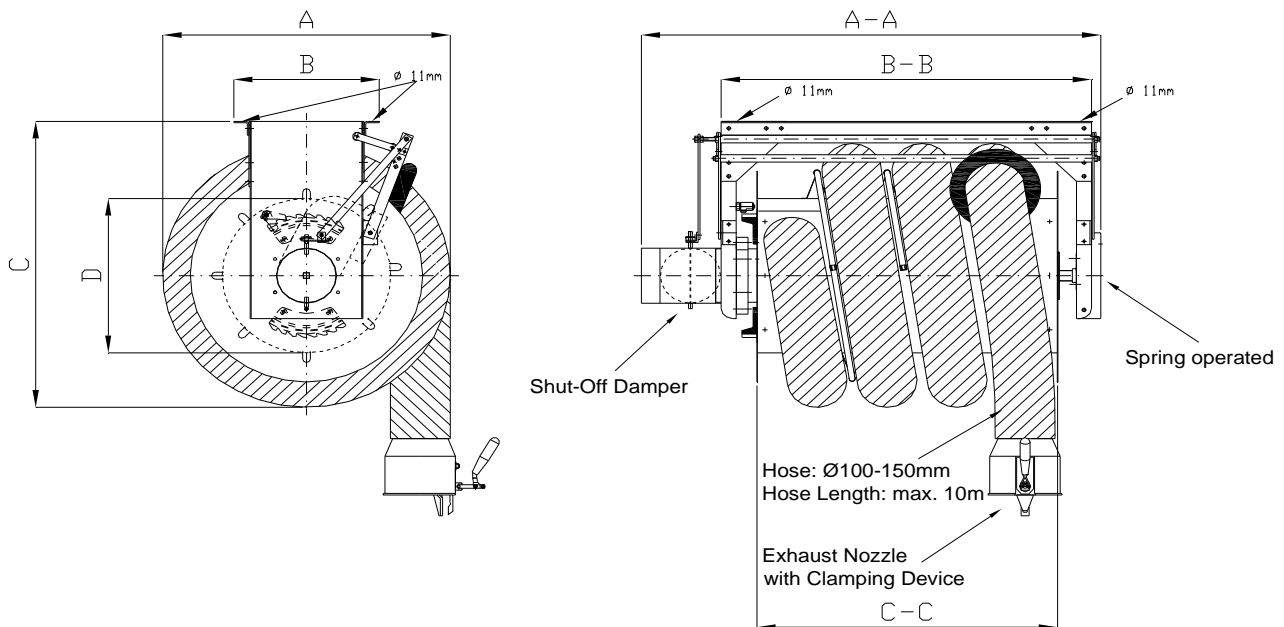
- Stationary Spring Hose Reels
- Stationary Motorized Hose Reels
- Mobile Spring Hose Reels
- Mobile Motorized Hose Reels



## Section 1: Hose Reels

For Cars, Trucks & Buses

### Stationary Spring Hose Reel



\*Shown with optional Shut-Off Damper Ø160mm

\* Drawing above feature Ø150mm / 7,5m of hose. Dimensions will change with additional hose.

#### Hose Reel

The standard hose reel is capable of holding 7,5m of exhaust gas hose. The hose reel employs a concentric drive-spring to recoil the exhaust gas hose. It further features a holding mechanism that prevents the hose from recoiling at least two times per revolution of the hose reel. Once the hose is uncoiled passed the initial holding mechanism, there are two sections in each revolution of the hose reel where the hose reel will recoil.

#### Hose Reel Frame

The hose reel frame is composed of zinc-plated steel. Each member of the frame features a thickness of no less than 4mm. All hardware is zinc-plated. The hose reel drum is constructed from 1mm zinc-plated steel. Drum ends are made of 2mm aluminium sheet with a non-abrasive rubber edge strip.

#### Hose Reels in Chart Above Include:

- Ø150mm / 7,5m of hose that is temperature rated to +200°C
- Nozzle with clamping device (See Section 6)

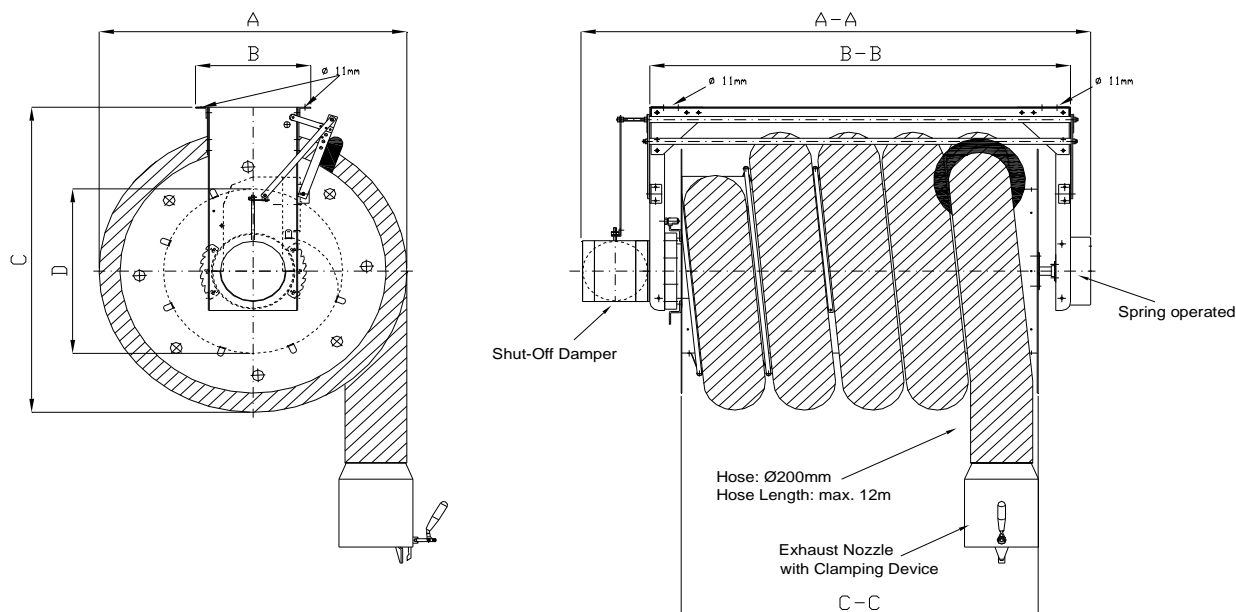
#### Available Accessories

- Shut-Off Damper Ø160mm
- Hose in length of 7,5m up to 10m (temperature resistant up to +650°C)
- Flange-Mount Fan Type ATS 12 or ATS 16 (See Section 7)

## Section 1: Hose Reels

For Construction Machine, Trucks & Buses

### Stationary Spring Hose Reel Ø200mm



\*Shown with optional Shut-Off Damper Ø224mm

\* Drawing above feature Ø200mm / 12,0m of hose. Dimensions will change with additional hose.

#### Hose Reel

The standard hose reel is capable of holding 10m of exhaust gas hose. The hose reel employs a concentric drive-spring to recoil the exhaust gas hose. It further features a holding mechanism that prevents the hose from recoiling at least two times per revolution of the hose reel. Once the hose is uncoiled passed the initial holding mechanism, there are two sections in each revolution of the hose reel where the hose reel will recoil.

#### Hose Reel Frame

The hose reel frame is composed of zinc-plated steel. Each member of the frame features a thickness of no less than 4mm. All hardware is zinc-plated. The hose reel drum is constructed from 1mm zinc-plated steel. Drum ends are made of 2,5mm aluminium sheet with a non-abrasive rubber edge strip.

#### Hose Reels in Chart Above Include:

- Ø200mm / 10m of hose that is temperature rated to +200°C
- Nozzle with clamping device (See Section 6)

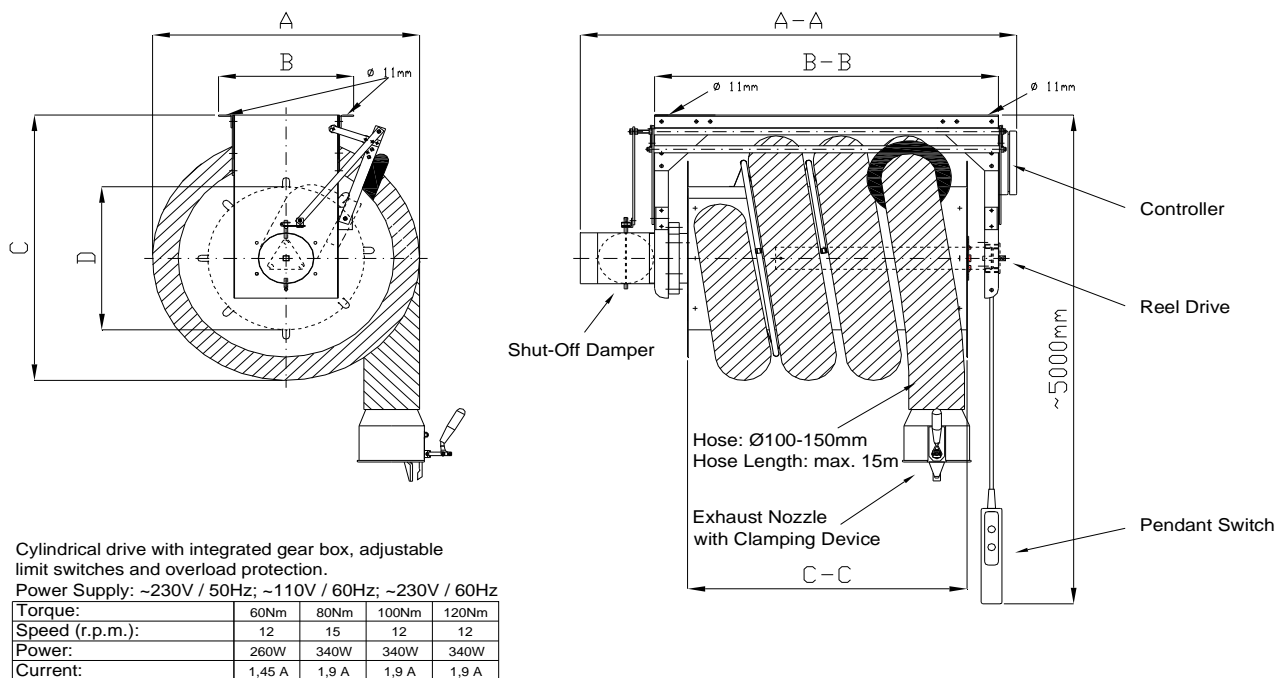
#### Available Accessories

- Shut-Off Damper Ø224mm
- Hose in length of 7,5m up to 12,0m (temperature resistant up to +650°C)

## Section 1: Hose Reels

For Cars, Trucks & Buses

### Stationary Motorized Hose Reel



\* Shown with optional Shut-Off Damper Ø160mm

\* Drawings above feature Ø150mm / 7,5m of hose. Dimensions will change with additional hose.

#### Hose Reel

The standard hose reel is capable of holding 7,5m of exhaust gas hose. The reel rotates via two maintenance-free bushings. Bushings are made of low-friction material.

#### Hose Reel Frame

The hose reel frame is composed of zinc-plated steel. Each member of the frame features a thickness of no less than 4mm. All hardware is zinc-plated. The hose reel drum is constructed from 1mm zinc-plated steel. Drum ends are made of 2mm aluminium sheet with a non-abrasive rubber edge strip.

#### Hose Reel Motor

AFA **TS** motorized hose reels feature a compact cylindrical control motor with thermal overload protection.

#### Hose Reels in Chart Above Include:

- Ø150mm / 7,5m of hose that is temperature rated to +200°C
- Nozzle with clamping device (See Components Section)

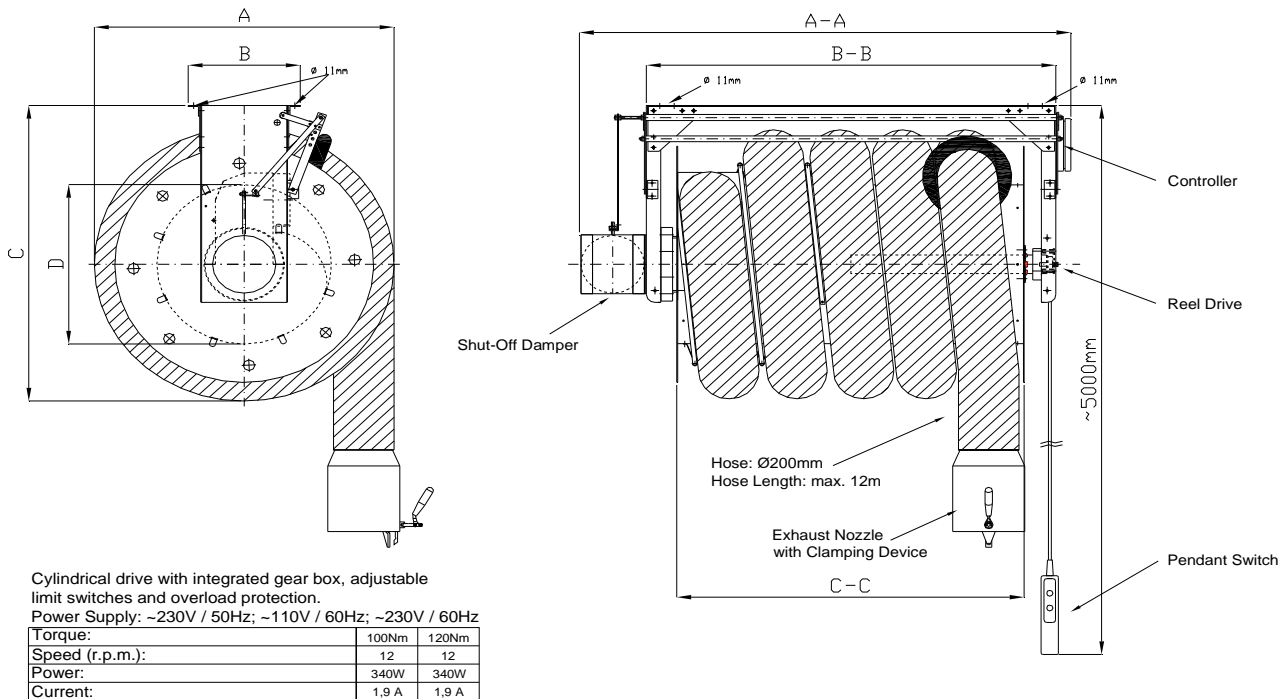
#### Available Accessories

- Pendant Remote (Only Motorized)
- Radio Remote (Only Motorized)
- Hose in length of 7,5m up to 15m (temperature resistant up to +650°C)
- Flange-Mount Fan Type ATS 12 or ATS 16 (See Section 7)
- Shut-Off Damper Ø160mm

## Section 1: Hose Reels

For Construction Machines, Trucks & Buses

### Stationary Motorized Hose Reel Ø200mm



\* Shown with optional Shut-Off Damper Ø224mm

\* Drawings above feature Ø200mm / 12,0m of hose. Dimensions will change with additional hose.

#### Hose Reel

The standard hose reel is capable of holding 7,5m of exhaust gas hose. The reel rotates via two maintenance-free bushings. Bushings are made of low-friction material.

#### Hose Reel Frame

The hose reel frame is composed of zinc-plated steel. Each member of the frame features a thickness of no less than 4mm. All hardware is zinc-plated. The hose reel drum is constructed from 1mm zinc-plated steel. Drum ends are made of 2,5mm aluminium sheet with a non-abrasive rubber edge strip.

#### Hose Reel Motor

AFA **TS** motorized hose reels feature a compact cylindrical control motor with thermal overload protection.

#### Hose Reels in Chart Above Include:

- Ø200mm / 10m of hose that is temperature rated to +200°C
- Nozzle with clamping device (See Section 6)

#### Available Accessories

- Pendant Remote (Only Motorized)
- Radio Remote (Only Motorized)
- Shut-Off Damper Ø224mm
- Hose in length of 7,5m up to 12,0m (temperature resistant up to +650°C)



## Section 1: Hose Reels

### Pressure Drop and Specification

Type ( Hose diameter )	Hose Length				AirFlow m <sup>3</sup> /h - by 18m/s
	7,5m	10m	12m	15m	
ARF-100	970 Pa	1200 Pa	X	X	550
ARF-125	805 Pa	940 Pa	X	X	900
ARF-150	815 Pa	950 Pa	X	X	1300
ARF-200	560 Pa	640 Pa	720 Pa	X	2100

Type ( Hose diameter )	Hose Length				AirFlow m <sup>3</sup> /h - by 18m/s
	7,5m	10m	12m	15m	
ARE-100	970 Pa	1200 Pa	X	X	550
ARE-125	805 Pa	940 Pa	X	X	900
ARE-150	815 Pa	950 Pa	1060 Pa	1190 Pa	1300
ARE-200	560 Pa	640 Pa	745 Pa	X	2100

with nozzle and standard hose up to +200°C

### Stationary Spring Hose Reel

Type	Weight	A	B	C	D	A-A	B-B	C-C
ARF 100 / 7,5	44kg	670mm	388mm	785mm	Ø450mm	1225mm	988mm	800mm
ARF 100 / 10,0	44kg	670mm	388mm	785mm	Ø450mm	1225mm	988mm	800mm
ARF 125 / 7,5	44kg	720mm	388mm	810mm	Ø450mm	1225mm	988mm	800mm
ARF 125 / 10,0	47kg	720mm	388mm	810mm	Ø450mm	1425mm	1188mm	1000mm
ARF 150 / 7,5	44kg	770mm	388mm	835mm	Ø450mm	1225mm	988mm	800mm
ARF 150 / 10,0	47kg	770mm	388mm	835mm	Ø450mm	1425mm	1188mm	1000mm
ARF 200 / 7,5	71kg	827mm	390mm	1110mm	Ø605mm	1725mm	1405mm	1200mm

without hose and nozzle

### Stationary Motorized Hose Reel

Type	Weight	A	B	C	D	A-A	B-B	C-C
ARE 100 / 7,5	47kg	670mm	388mm	785mm	Ø450mm	1255mm	988mm	800mm
ARE 100 / 10,0	47kg	670mm	388mm	785mm	Ø450mm	1255mm	988mm	800mm
ARE 125 / 7,5	47kg	720mm	388mm	810mm	Ø450mm	1255mm	988mm	800mm
ARE 125 / 10,0	50kg	720mm	388mm	810mm	Ø450mm	1455mm	1188mm	1000mm
ARE 150 / 7,5	47kg	770mm	388mm	835mm	Ø450mm	1255mm	988mm	800mm
ARE 150 / 10,0	50kg	770mm	388mm	835mm	Ø450mm	1455mm	1188mm	1000mm
ARE 150 / 12,5	53kg	770mm	388mm	835mm	Ø450mm	1655mm	1388mm	1200mm
ARE 150 / 15,0	56kg	770mm	388mm	835mm	Ø450mm	1955mm	1688mm	1500mm
ARE 200 / 12,0	74kg	827mm	390mm	1110mm	Ø605mm	1725mm	1388mm	1200mm

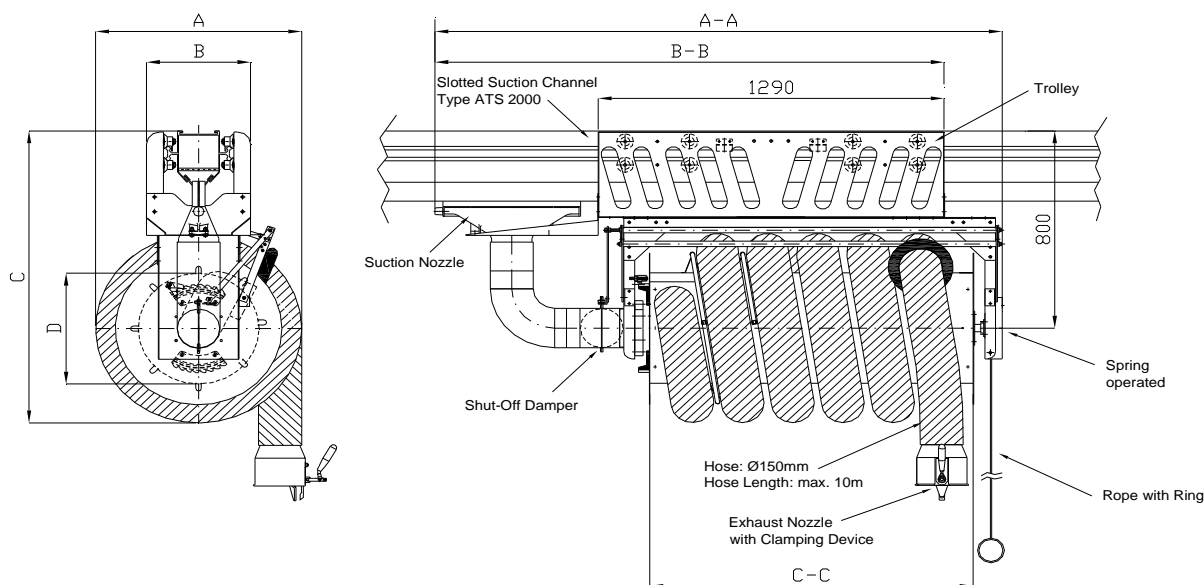
without hose and nozzle



## Section 1: Hose Reels

For Cars, Trucks & Buses

### Mobile Spring Hose Reel



\* Shown with optional Shut-Off Damper Ø160mm

\* Drawing above feature Ø150mm / 10m of hose. Dimensions will change with additional hose.

#### Hose Reel

The standard hose reel is capable of holding 7,5m of exhaust gas hose. The hose reel employs a concentric drive-spring to recoil the exhaust gas hose. It further features a holding mechanism that prevents the hose from recoiling at least two times per revolution of the hose reel. Once the hose is uncoiled passed the initial holding mechanism, there are two sections in each revolution of the hose reel where the hose reel will recoil.

#### Hose Reel Frame

The hose reel frame is composed of zinc-plated steel. Each member of the frame features a thickness of no less than 4mm. All hardware is zinc-plated. The hose reel drum is constructed from 1mm zinc-plated steel. Drum ends are made of 2mm aluminium sheet with a non-abrasive rubber edge strip.

#### Hose Reel Trolley

- Made of galvanized steel

#### Material

##### Suction Nozzle:

- Sand-casted aluminium bolted to the frame
- Low-friction, equipped with stainless steel sliding plates, thickness 1mm

##### Support Wheel with flange:

- Made from nylon with axle bolt
- Double Ball-Bearing
- Running Diameter Ø40mm

##### Hose Reel in chart above include:

- Ø150mm / 7,5m of hose that is temperature rated to +200°C
- Nozzle with clamping device (See Section 6)

##### Running Wheels with flange:

- Made from nylon with axle bolt
- Double Ball-Bearing
- Running Diameter Ø40mm

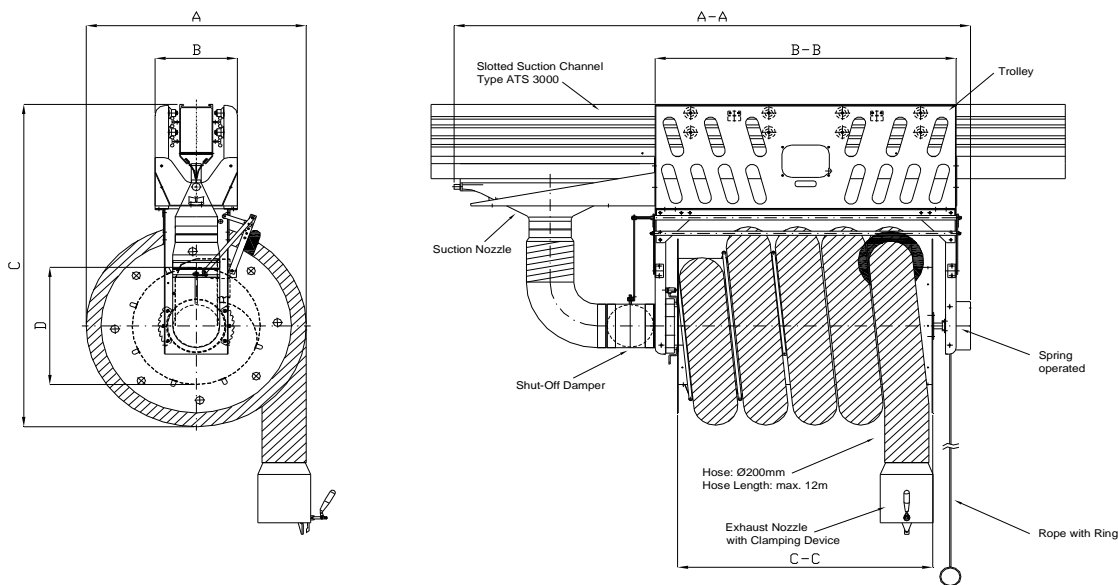
##### Available Accessories

- Shut-Off Damper Ø160mm
- Hose in length of 7,5m up to 10m (temperature resistant up to +650°C)

## Section 1: Hose Reels

For Construction Machines, Trucks & Buses

### Mobile Spring Hose Reel Ø200mm



\* Shown with optional Shut-Off Damper Ø160mm

\* Drawing above feature Ø200mm / 12m of hose. Dimensions will change with additional hose.

#### Hose Reel

The standard hose reel is capable of holding 7,5m of exhaust gas hose. The hose reel employs a concentric drive-spring to recoil the exhaust gas hose. It further features a holding mechanism that prevents the hose from recoiling at least two times per revolution of the hose reel. Once the hose is uncoiled passed the initial holding mechanism, there are two sections in each revolution of the hose reel where the hose will recoil.

#### Hose Reel Frame

The hose reel frame is composed of zinc-plated steel. Each member of the frame features a thickness of no less than 4mm. All hardware is zinc-plated. The hose reel drum is constructed from 1mm zinc-plated steel. Drum ends are made of 2,5mm aluminium sheet with a non-abrasive rubber edge strip.

#### Hose Reel Trolley

- Made of galvanized steel

#### Material

##### Suction Nozzle:

- Sand-casted aluminium bolted to the frame
- Low-friction, equipped with stainless steel sliding plates, thickness 1mm

##### Support Wheel with flange:

- Made from nylon with axle bolt
- Double Ball-Bearing
- Running Diameter Ø40mm

##### Hose Reel in chart above include:

- Ø200mm / 10m of hose that is temperature rated to +200°C
- Nozzle with clamping device (See Section 6)

##### Running Wheels with flange:

- Made from nylon with axle bolt
- Double Ball-Bearing
- Running Diameter Ø40mm

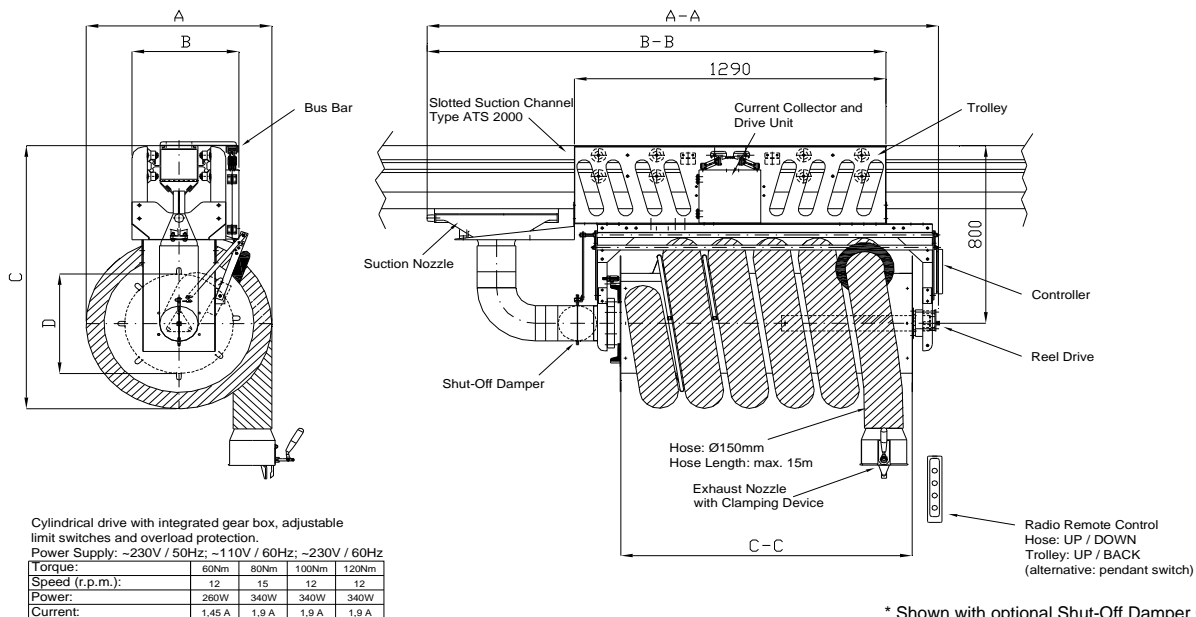
##### Available Accessories

- Shut-Off Damper Ø224mm
- Hose in length of 7,5m up to 12m (temperature resistant up to +650°C)

## Section 1: Hose Reels

For Cars, Trucks & Buses

### Mobile Motorized Hose Reel



#### Hose Reel

The standard hose reel is capable of holding 7,5m of exhaust gas hose. The reel rotates via two maintenance-free bushings. Bushings are made of low-friction material.

#### Hose Reel Frame

The hose reel frame is composed of zinc-plated steel. Each member of the frame features a thickness of no less than 4mm. All hardware is zinc-plated. The hose reel drum is constructed from 1mm zinc-plated steel. Drum ends are made of 2mm aluminium sheet with a non-abrasive rubber edge strip.

#### Hose Reel Motor

AFA TS motorized hose reels feature a compact cylindrical control motor with thermal overload protection.

#### Material

##### Suction Nozzle:

- Sand-casted aluminium bolted to the frame
- Low-friction, equipped with stainless steel sliding plates, thickness 1mm

##### Support Wheel with flange:

- Made from nylon with axle bolt
- Double Ball-Bearing
- Running Diameter Ø40mm

##### Hose Reel in chart above include:

- Ø150mm / 10m of hose that is temperature rated to +200°C
- Nozzle with clamping device (See Section 6)

##### Running Wheels with flange:

- Made from nylon with axle bolt
- Double Ball-Bearing
- Running Diameter Ø40mm

##### Available Accessories

- Shut-Off Damper Ø160mm
- Hose in length of 7,5m up to 15m (temperature resistant up to +650°C)
- Pendant Remote (Only Motorized)
- Radio Remote (Only Motorized)

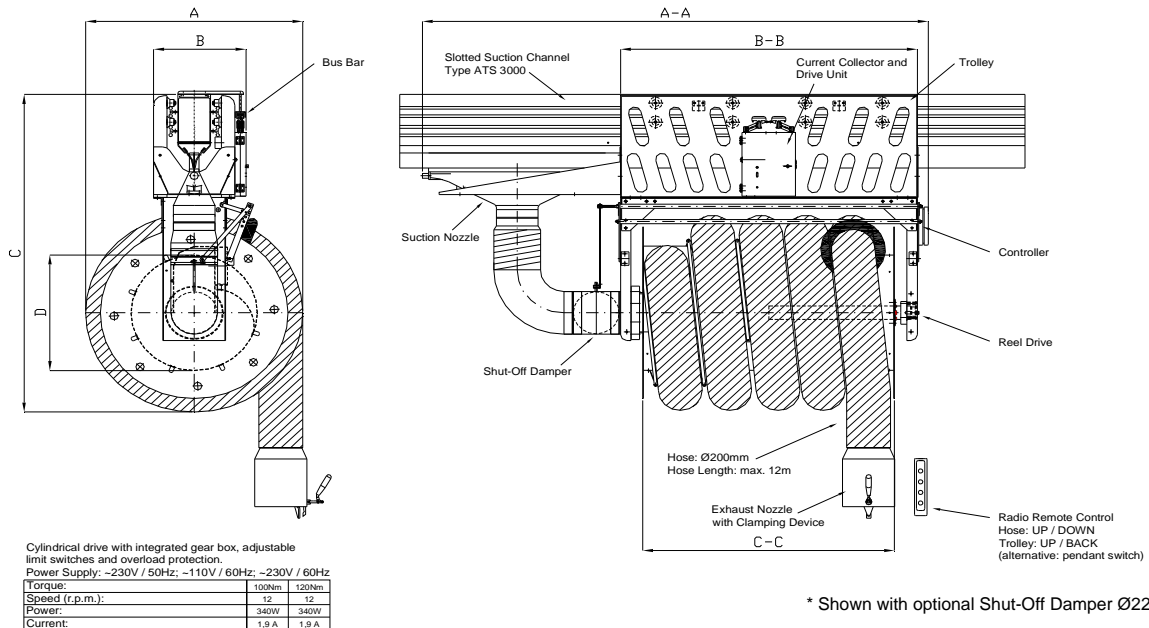
##### Bus Bar:

- Copper made, protection class IP 23

## Section 1: Hose Reels

For Construction Machines, Trucks & Buses

### Mobile Motorized Hose Reel Ø200mm



#### Hose Reel

The standard hose reel is capable of holding 7,5m of exhaust gas hose. The reel rotates via two maintenance-free bushings. Bushings are made of low-friction material.

#### Hose Reel Frame

The hose reel frame is composed of zinc-plated steel. Each member of the frame features a thickness of no less than 4mm. All hardware is zinc-plated. The hose reel drum is constructed from 1mm zinc-plated steel. Drum ends are made of 2,5mm aluminium sheet with a non-abrasive rubber edge strip.

#### Hose Reel Motor

AFA TS motorized hose reels feature a compact cylindrical control motor with thermal overload protection.

#### Material

##### Suction Nozzle:

- Sand-casted aluminium bolted to the frame
- Low-friction, equipped with stainless steel sliding plates, thickness 1mm

##### Support Wheel with flange:

- Made from nylon with axle bolt
- Double Ball-Bearing
- Running Diameter Ø40mm

##### Hose Reel in chart above include:

- Ø200mm / 10m of hose that is temperature rated to +200°C
- Nozzle with clamping device (See Section 6)

##### Running Wheels with flange:

- Made from nylon with axle bolt
- Double Ball-Bearing
- Running Diameter Ø40mm

##### Available Accessories

- Shut-Off Damper Ø224mm
- Hose in length of 7,5m up to 12m (temperature resistant up to +650°C)
- Pendant Remote (Only Motorized)
- Radio Remote (Only Motorized)

##### Bus Bar:

- Copper made, protection class IP 23



## Section 1: Hose Reels

### Pressure Drop and Specification

Type ( Hose diameter )	Hose Length				AirFlow m <sup>3</sup> /h - by 18m/s
	7,5m	10m	12m	15m	
M-ARF-100	1070 Pa	1300 Pa	X	X	<b>550</b>
M-ARF-125	1005 Pa	1190 Pa	X	X	<b>900</b>
M-ARF-150	1265 Pa	1400 Pa	X	X	<b>1300</b>
M-ARF-200	790 Pa	870 Pa	950 Pa	X	<b>2100</b>

Type ( Hose diameter )	Hose Length				AirFlow m <sup>3</sup> /h - by 18m/s
	7,5m	10m	12m	15m	
M-ARE-100	1070 Pa	1300 Pa	X	X	<b>550</b>
M-ARE-125	1005 Pa	1190 Pa	X	X	<b>900</b>
M-ARE-150	1265 Pa	1400 Pa	1510 Pa	1540 Pa	<b>1300</b>
M-ARE-200	790 Pa	870 Pa	950 Pa	X	<b>2100</b>

\*with nozzle and standard hose up to +200°C

### Mobile Spring Hose Reel

Type	Weight	A	B	C	D	A-A	B-B	C-C
M-ARF 100 / 7,5	78kg	670mm	388mm	1100mm	Ø450mm	1900mm	1900mm	800mm
M-ARF 100 / 10,0	78kg	670mm	388mm	1100mm	Ø450mm	1900mm	1900mm	800mm
M-ARF 125 / 7,5	78kg	720mm	388mm	1150mm	Ø450mm	1900mm	1900mm	800mm
M-ARF 125 / 10,0	82kg	720mm	388mm	1150mm	Ø450mm	1900mm	1900mm	1000mm
M-ARF 150 / 7,5	78kg	770mm	388mm	1200mm	Ø450mm	1900mm	1900mm	800mm
M-ARF 150 / 10,0	82kg	770mm	388mm	1200mm	Ø450mm	1900mm	1900mm	1000mm
M-ARF 200 / 7,5	121kg	827mm	390mm	1670mm	Ø605mm	2440mm	1425mm	1200mm

\*without hose and nozzle

### Mobile Motorized Hose Reel

Type	Weight	A	B	C	D	A-A	B-B	C-C
M-ARE 100 / 7,5	82kg	670mm	388mm	1100mm	Ø450mm	1900mm	1900mm	800mm
M-ARE 100 / 10,0	82kg	670mm	388mm	1100mm	Ø450mm	1900mm	1900mm	800mm
M-ARE 125 / 7,5	82kg	720mm	388mm	1150mm	Ø450mm	1900mm	1900mm	800mm
M-ARE 125 / 10,0	85kg	720mm	388mm	1150mm	Ø450mm	1900mm	1900mm	1000mm
M-ARE 150 / 7,5	82kg	770mm	388mm	1200mm	Ø450mm	1900mm	1900mm	800mm
M-ARE 150 / 10,0	85kg	770mm	388mm	1200mm	Ø450mm	1900mm	1900mm	1000mm
M-ARE 150 / 12,5	88kg	770mm	388mm	1200mm	Ø450mm	2120mm	1900mm	1200mm
M-ARE 150 / 15,0	91kg	770mm	388mm	1200mm	Ø450mm	2320mm	1900mm	1500mm
M-ARE 200 / 12,0	124kg	827mm	390mm	1670mm	Ø605mm	2430mm	1425mm	1200mm

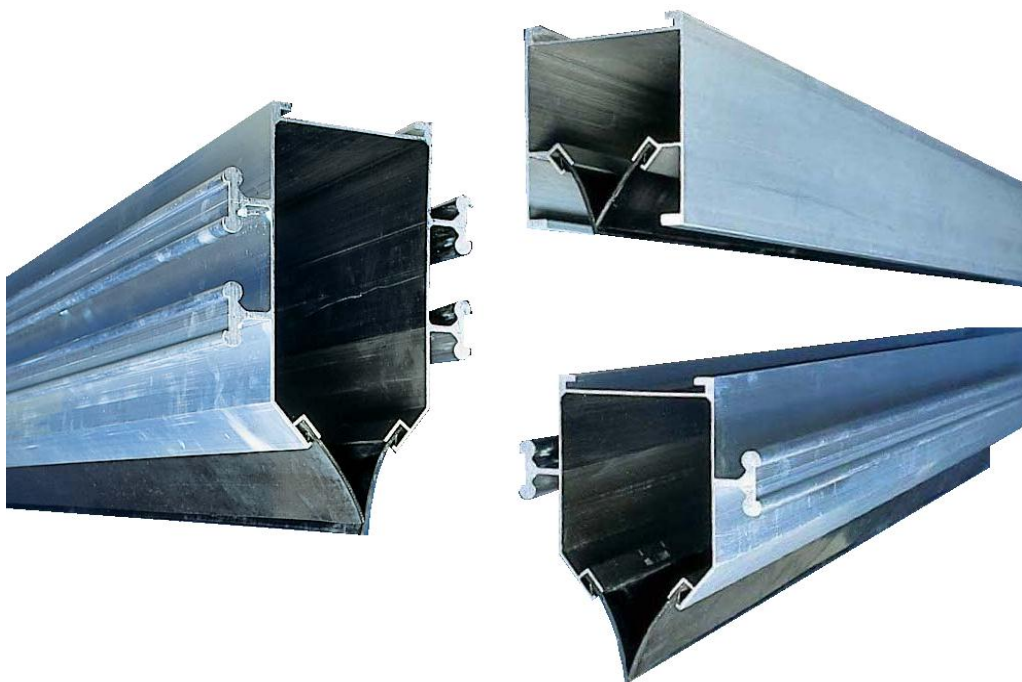
\*without hose and nozzle

## *Section 2*

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### *Aluminium Slotted Channel*

Slotted Suction Channel  
Standard Hose Trolley



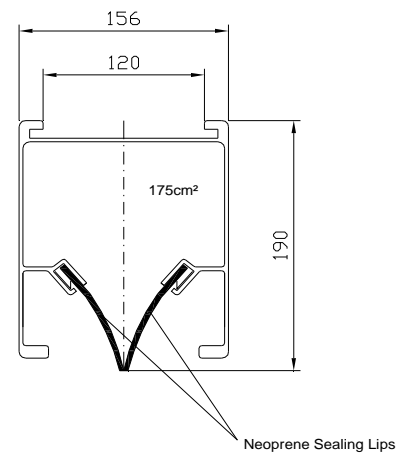
## Section 2: Aluminium Slotted Channel

For Cars

### Slotted Suction Channel Type ATS 1000

Single Piece Extruded Aluminium  
AlMgSi0.5 Hardened

<b>Typical Wall Thickness:</b>	min. 3mm
<b>Channel Section:</b>	175cm <sup>2</sup>
<b>Standard Length:</b>	6000mm
<b>Weight:</b>	10kg/m
<b>Pressure:</b>	max. -2000Pa
<b>Temperature Resistant Up To:</b>	+200°C (Neoprene) +300°C (Viton)



#### Channel

Solid Single Extruded Aluminium Channel. Guide rails for hose trolley and slots for sealing lips are integrated into a single piece design. The side flanges form a double support rail and guide the hose trolley.

#### Channel

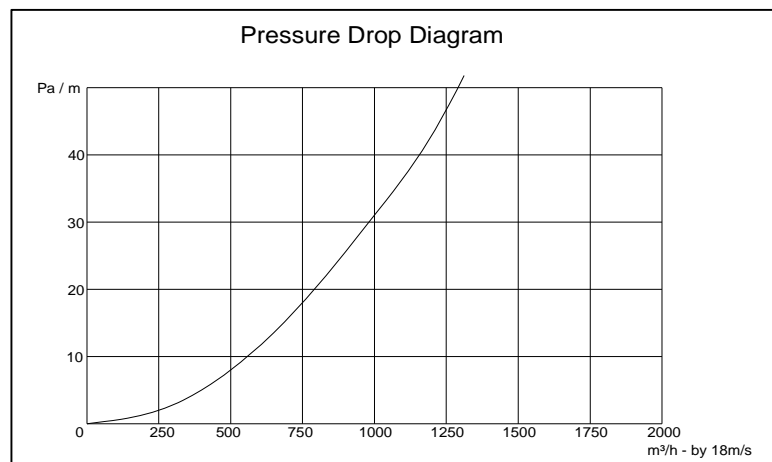
Sealing Lips are made of neoprene with textile reinforcement. These neoprene sealing lips are resistant to exhaust gas, chemicals, fuel and high temperatures and provide an air-tight exhaust extraction channel.

#### Slotted Channel in Chart Above Include:

- Extruded Aluminium Channel
- Stainless Steel Spring Clamps
- Neoprene Sealing Lips

#### Available Accessories

- +300°C Viton Sealing Lips



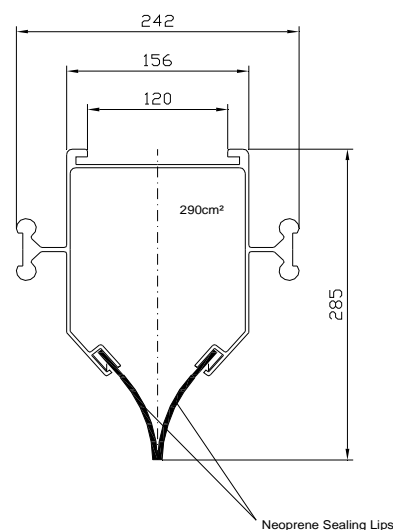
## Section 2: Aluminium Slotted Channel

For Cars, Trucks & Buses

### Slotted Suction Channel Type ATS 2000

Single Piece Extruded Aluminium  
AlMgSi0.5 Hardened

<b>Typical Wall Thickness:</b>	min. 3mm
<b>Channel Section:</b>	290cm <sup>2</sup>
<b>Standard Length:</b>	6000mm
<b>Weight:</b>	13kg/m
<b>Pressure:</b>	max. -2000Pa
<b>Temperature Resistant Up To:</b>	+200°C (Neoprene) +300°C (Viton)



#### Channel

Solid Single Extruded Aluminium Channel. Guide rails for hose trolley and slots for sealing lips are integrated into a single piece design. The side flanges form a double support rail and guide the hose trolley.

#### Channel

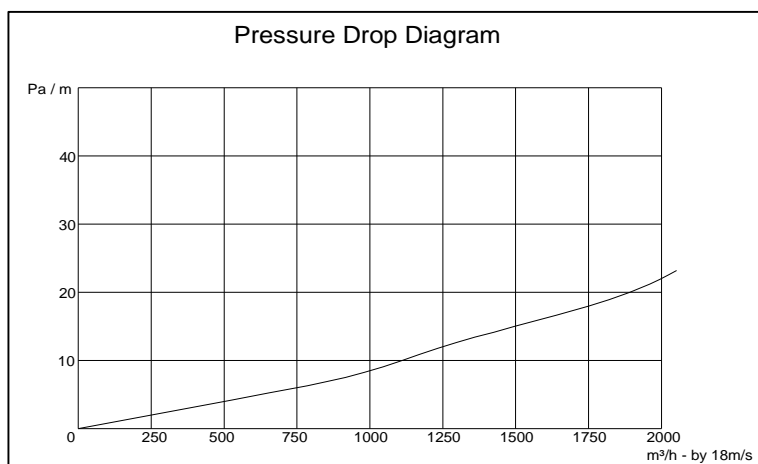
Sealing Lips are made of neoprene with textile reinforcement. These neoprene sealing lips are resistant to exhaust gas, chemicals, fuel and high temperatures and provide an air-tight exhaust extraction channel.

#### Slotted Channel in Chart Above Include:

- Extruded Aluminium Channel
- Stainless Steel Spring Clamps
- Neoprene Sealing Lips

#### Available Accessories

- +300°C Viton Sealing Lips





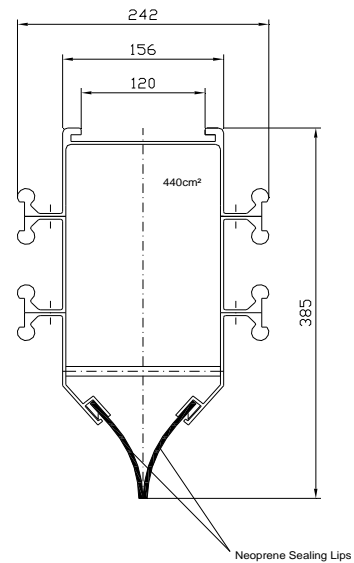
## Section 2: Aluminium Slotted Channel

For Construction Machines, Trucks & Buses

### Slotted Suction Channel Type ATS 3000

Multipart Extruded Aluminium Profile  
AlMgSi0.5 Hardened

<b>Typical Wall Thickness:</b>	min. 3mm
<b>Channel Section:</b>	440cm <sup>2</sup>
<b>Standard Length:</b>	6000mm
<b>Weight:</b>	20kg/m
<b>Pressure:</b>	max. -2000Pa
<b>Temperature Resistant Up To:</b>	+200°C (Neoprene) +300°C (Viton)



#### Channel

Solid Multipart Extruded Aluminium Channel. Guide rails for hose trolley and slots for sealing lips are integrated into a single piece design. The side flanges form a double support rail and guide the hose trolley.

#### Channel

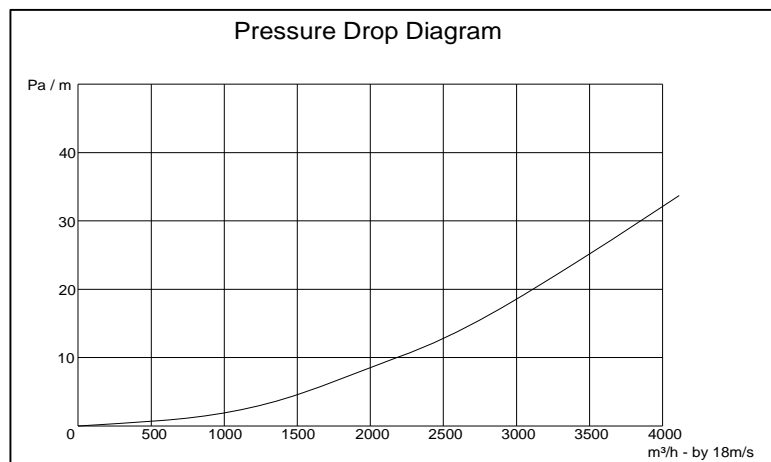
Sealing Lips are made of neoprene with textile reinforcement. These neoprene sealing lips are resistant to exhaust gas, chemicals, fuel and high temperatures and provide an air-tight exhaust extraction channel.

#### Slotted Channel in Chart Above Include:

- Extruded Aluminium Channel
- Stainless Steel Spring Clamps
- Neoprene Sealing Lips

#### Available Accessories

- +300°C Viton Sealing Lips



## Section 2: Aluminium Slotted Channel

For Cars

### Hose Trolley Type ATS 1000

Suction Trolley is composed of aluminium suction nozzle with stainless steel sliding plates equipped with nylon running wheels and support wheels, exhaust hose, nozzle and rope with holding ring.

#### Material

##### Suction Nozzle:

- Sand-casted aluminium equipped with low-friction stainless steel sliding plates, thickness 1mm

##### Running Wheels:

- Made from nylon with axle bolt
- Ball-Bearing
- Running Diameter  $\varnothing 40\text{mm}$

##### Support Wheels:

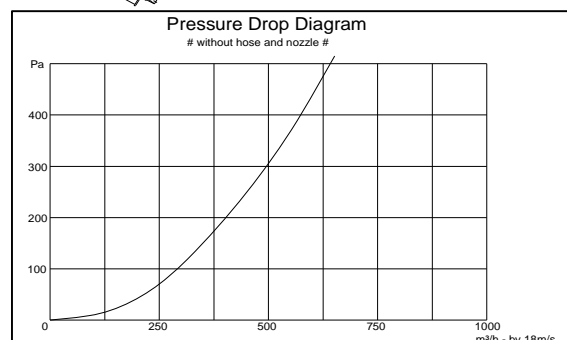
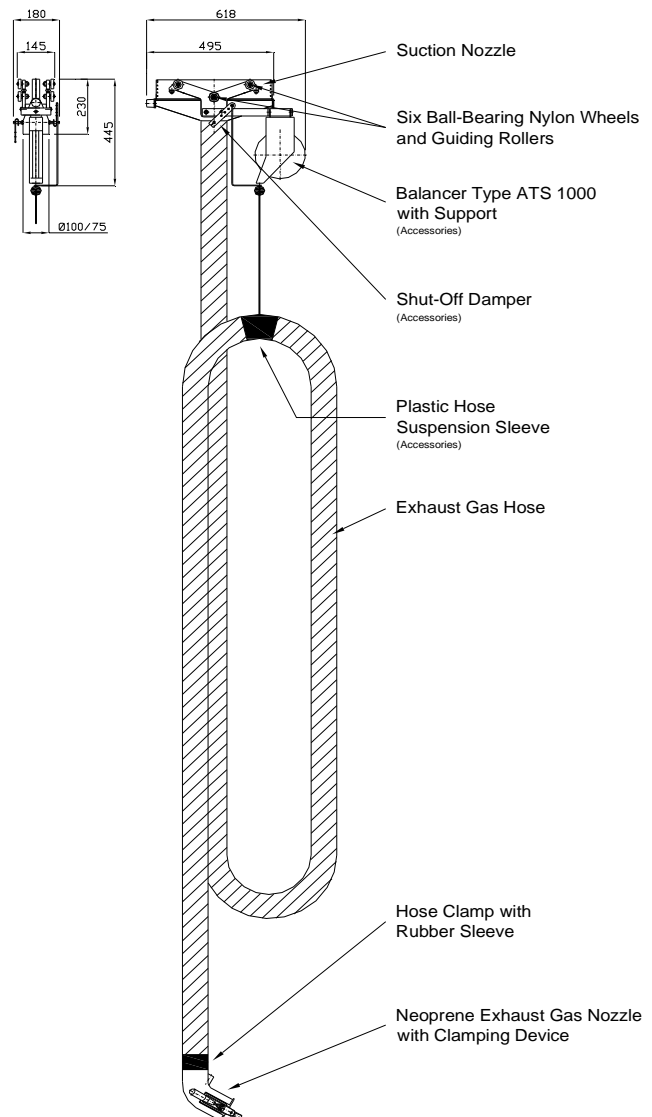
- Ball-Bearing

##### Hose:

- Variable upon height requirements, made to suit
- Neoprene exhaust gas nozzle  
(See Section 6)

##### Available Accessories

- Shut-Off Damper  $\varnothing 75\text{mm}$
- Shut-Off Damper  $\varnothing 100\text{mm}$
- Rope with Ring
- Spring Balancer Type ATS 1000



## Section 2: Aluminium Slotted Channel

For Cars, Trucks & Buses

### Hose Trolley Type ATS 2000

Suction Trolley is composed of aluminium suction nozzle with stainless steel sliding plates equipped with nylon running wheels and support wheels, exhaust hose, nozzle and rope with holding ring.

#### Material

##### Suction Nozzle:

- Sand-casted aluminium equipped with low-friction stainless steel sliding plates, thickness 1mm

##### Running and Support Wheels with flange:

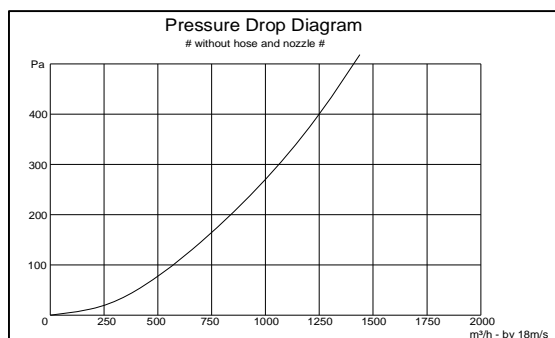
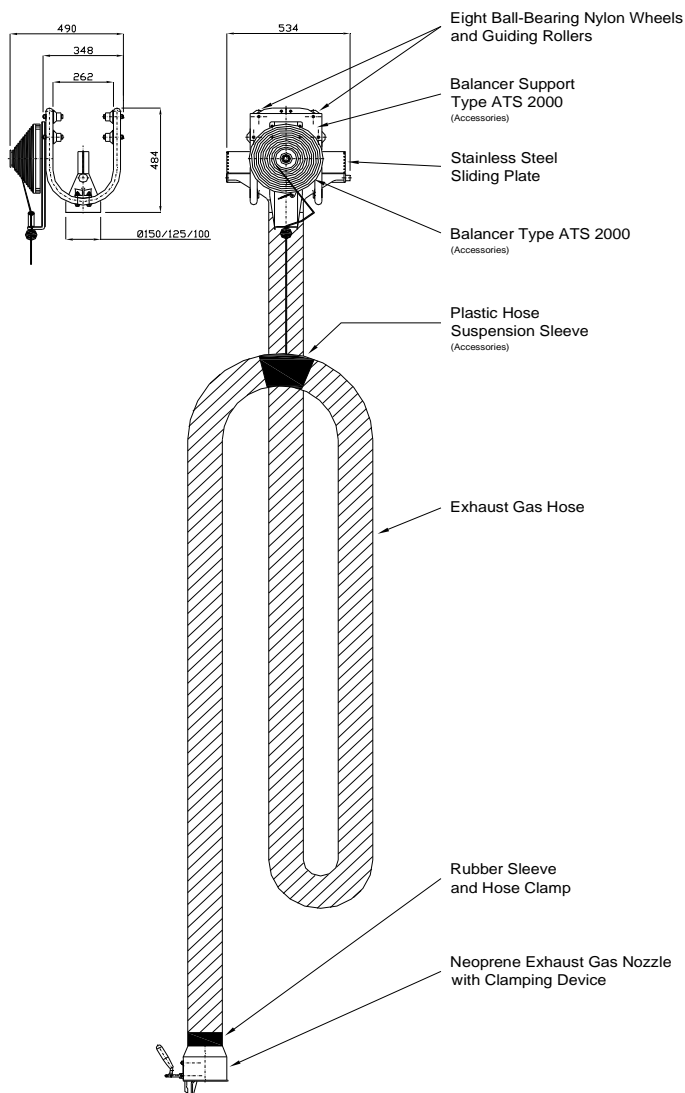
- Made from nylon with axle bolt
- Ball-Bearing
- Running Diameter  $\varnothing 40\text{mm}$

##### Hose:

- Variable upon height requirements, made to suit
- Neoprene exhaust gas nozzle (See Section 6)

##### Available Accessories

- Shut-Off Damper  $\varnothing 100\text{mm}$
- Shut-Off Damper  $\varnothing 125\text{mm}$
- Shut-Off Damper  $\varnothing 150\text{mm}$
- Automatic Disconnect Lever for Bowden Cable Operation
- Rope with Ring
- Spring Balancer Type ATS 2000



## Section 2: Aluminium Slotted Channel

For Construction Machines, Trucks & Buses

### Hose Trolley Type ATS 3000

Suction Trolley is composed of aluminium suction nozzle with stainless steel sliding plates equipped with nylon running wheels and support wheels, exhaust hose, nozzle and rope with holding ring.

#### Material

##### Suction Nozzle:

- Sand-casted aluminium equipped with low-friction stainless steel sliding plates, thickness 1mm

##### Running and Support Wheels with flange:

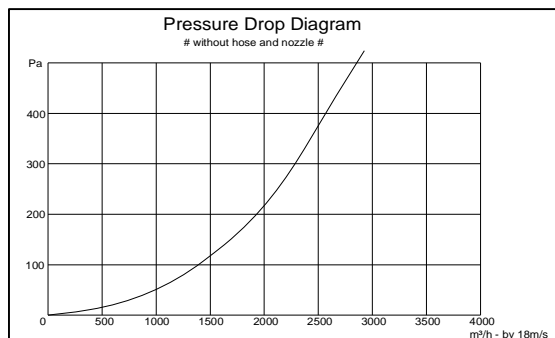
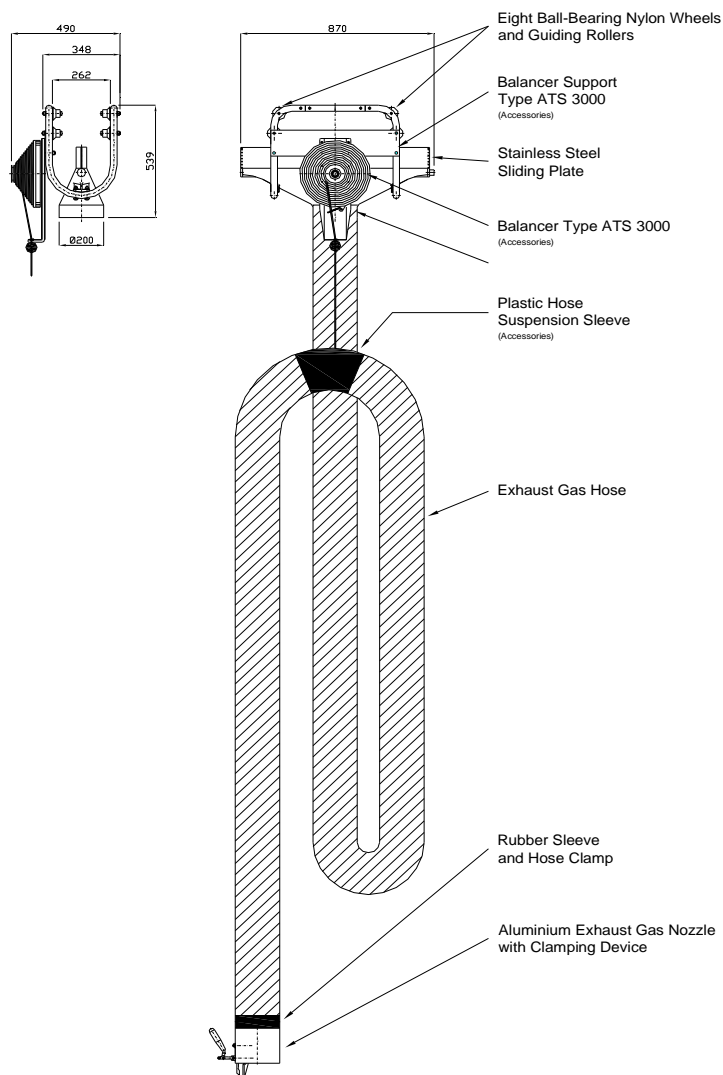
- Made from nylon with axle bolt
- Ball-Bearing
- Running Diameter  $\varnothing 40\text{mm}$

##### Hose:

- Variable upon height requirements, made to suit
- Aluminium exhaust gas nozzle
- (See Section 6)

##### Available Accessories

- Shut-Off Damper  $\varnothing 200\text{mm}$
- Rope with Ring
- Spring Balancer Type ATS 3000



## *Section 3*

---

### *SafeConnect System*

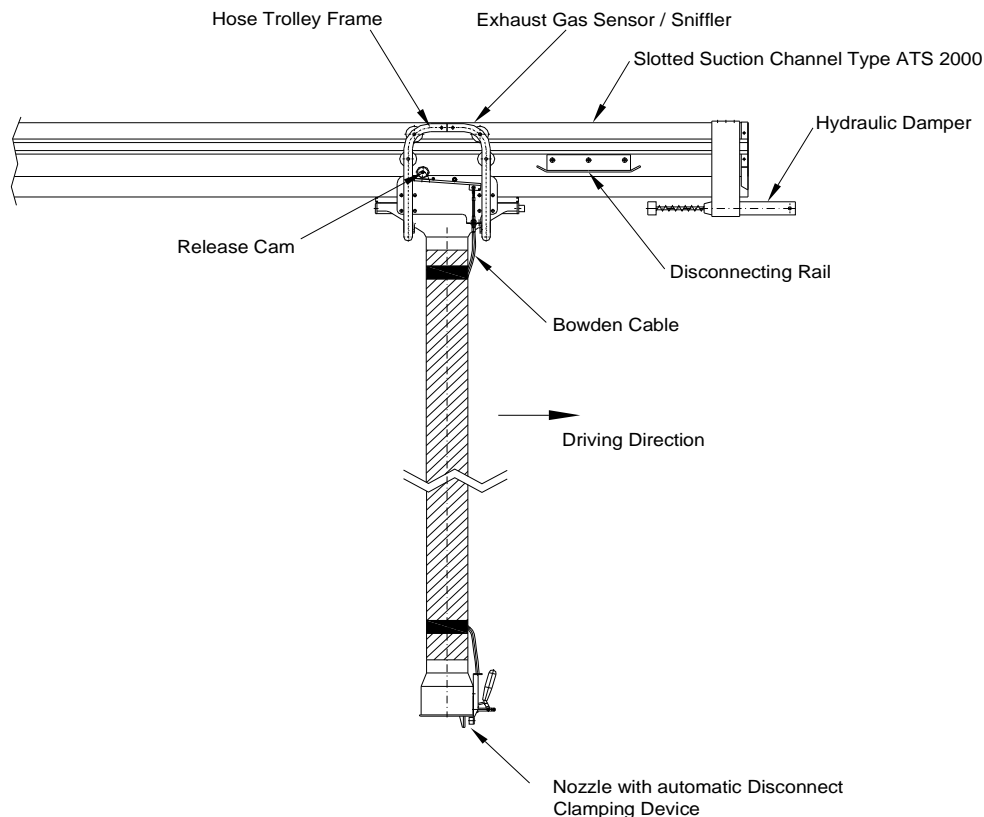
#### | SafeConnect System



## Section 3: SafeConnect System

For Trucks, Pumpers and other Response Vehicles

### SafeConnect System



Suction Trolley is composed of a steel frame, aluminium suction nozzle with stainless steel sliding plates, equipped with nylon running wheels and support wheels with automatic disconnect device. There is an optional exhaust gas sensor / sniffer mounted inside the channel that will activate the fan once an apparatus is started up.

#### Material

##### Frame:

- Shaped cylindrical steel frame

##### Suction Nozzle:

- Sand-casted aluminium bolted to the frame. Low friction, equipped with stainless steel sliding plates, thickness 1mm.

##### Running and Support Wheels with Flange:

- Made from nylon with axle bolt
- Double Ball-Bearing
- Running diameter Ø40mm

##### Hose:

- Hose Type TRS, temperature resistant up to 200°C

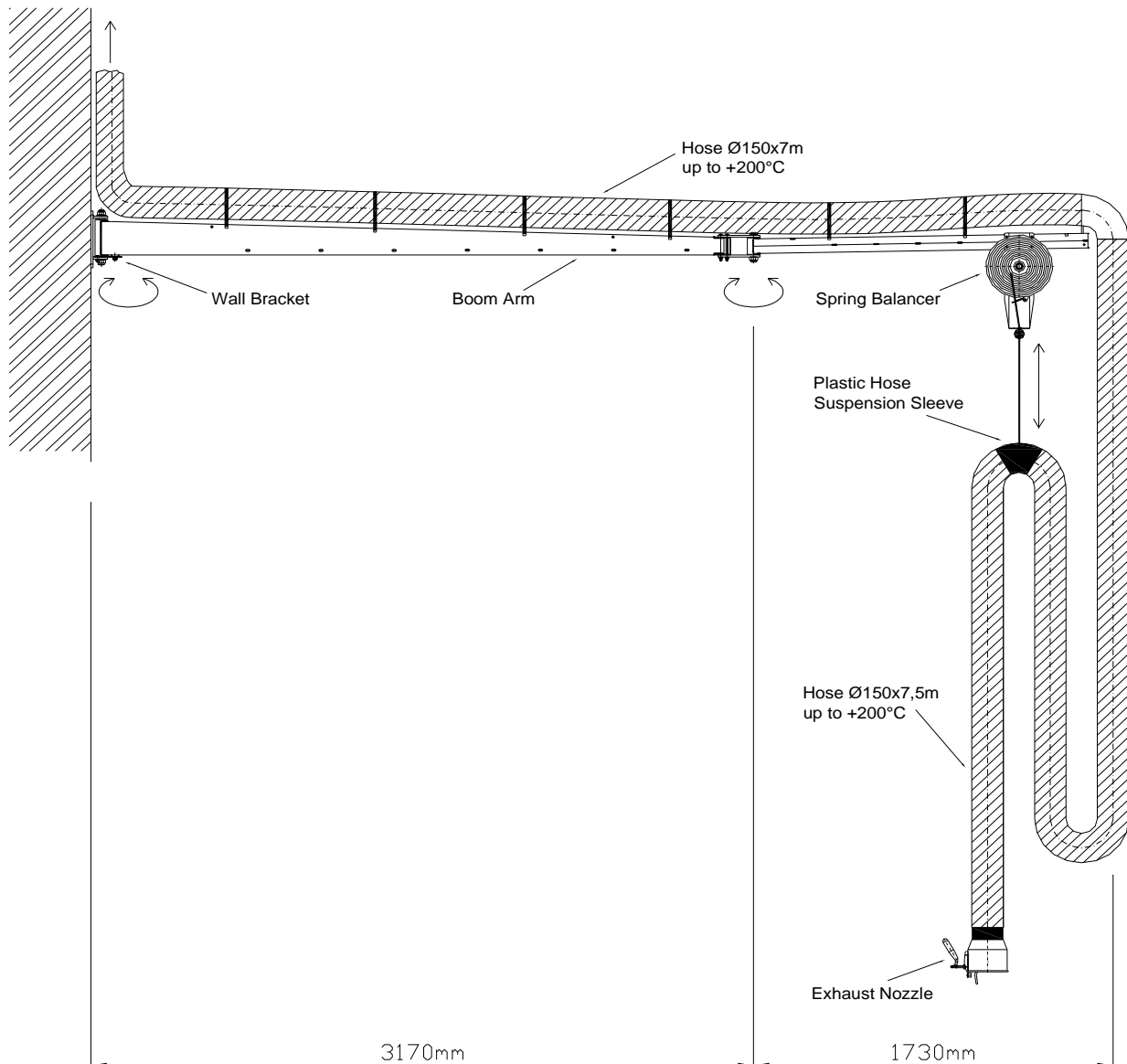
##### Exhaust Nozzle:

- Neoprene made equipped with automatic disconnect clamping device operated via bowden cable

## Section 4

### System Type "Boom Arm"

#### Type ATS 45-150-7



Boom Arm L=5000mm consist of:

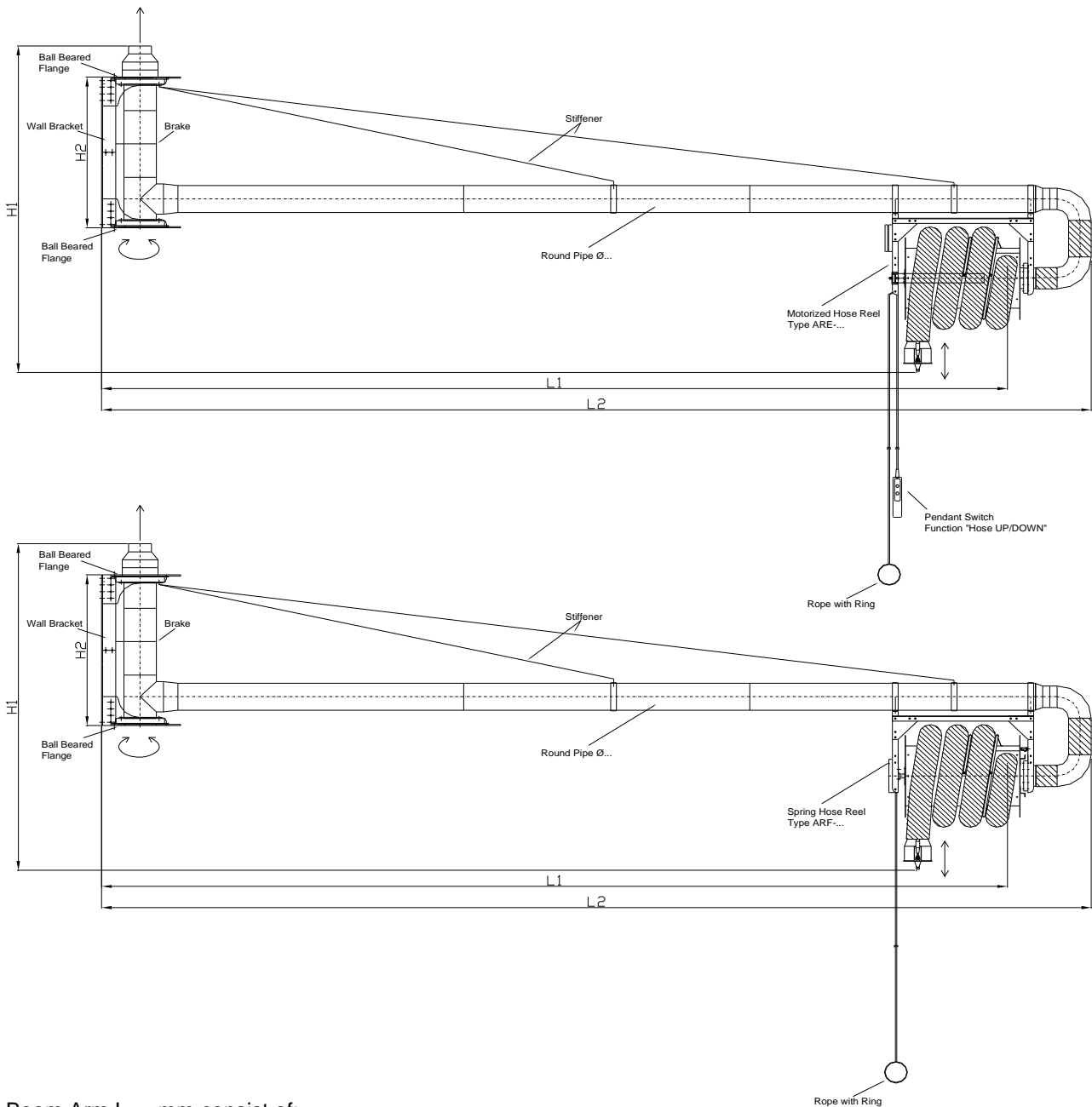
Wall Bracket, Boom Arm with Hose, Nozzle, Balancer, Plastic Hose Suspension Sleeve,  
Exhaust Hose Type TR  $\varnothing 150/7,5\text{m}$  up to  $+200^\circ\text{C}$

## Section 4

### System Type "Boom Arm"

**Type ATS - ASE... (with Motorized Reel)**

**Type ATS - ASF... (with Spring Reel)**



Boom Arm  $L=...$ mm consist of:

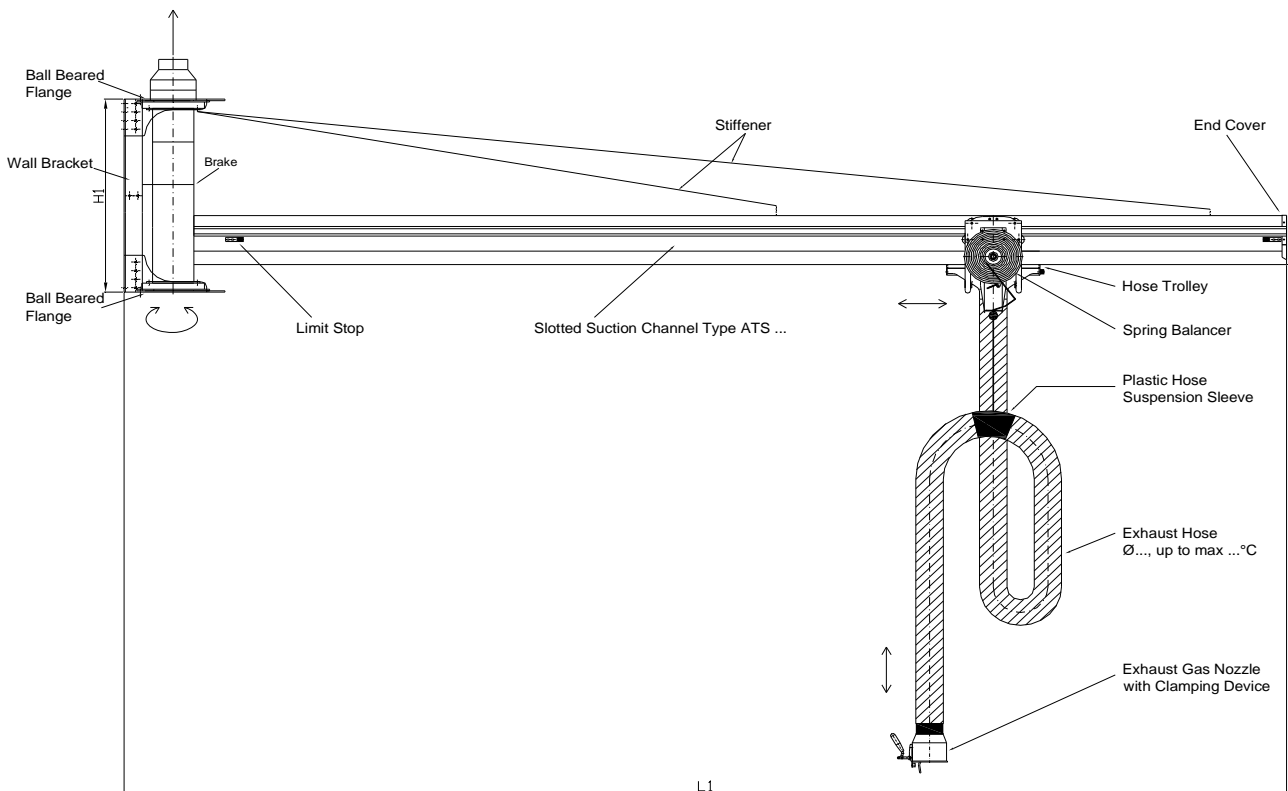
Wall Bracket, Boom Arm made of Round Pipe, 2 Ball Beared Flange, Brake, Rope with Ring, Hose Reel Type ATS-ARE... (Motorized) with Pendant Switch, Function Hose UP/DOWN or Hose Reel Type ATS-ARF... (Spring)



*Section 4*

*System Type "Boom Arm"*

**Type ATS - AKW...**



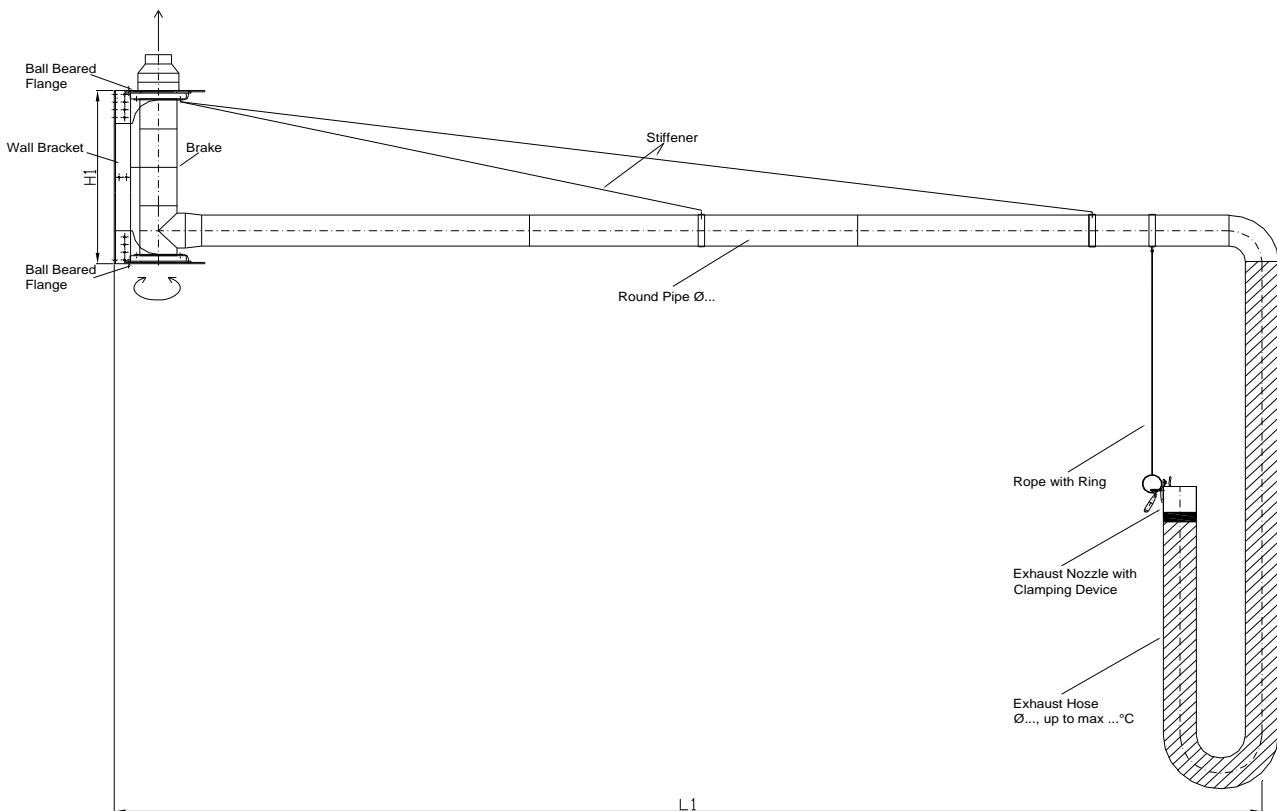
Boom Arm L=...mm included:

Wall Bracket, Boom Arm made of Round Pipe, 2 Ball Beared Flange, Brake, Limit Stop, Slotted Suction Channel Type ATS-... with Hose trolley Type ATS-..., with Balancer, Exhaust Hose L=..., Ø..., max. +...°C and Nozzle

## Section 4

### System Type "Boom Arm"

#### Type ATS - ARS...



Boom Arm L=...mm included:

Wall Bracket, Boom Arm made of Round Pipe, 2 Ball Beared Flange, Brake,  
Exhaust Hose L=..., Ø..., max. +...°C, Nozzle and Rope and Ring

## *Section 5*

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### *Dyno Exhaust Systems*

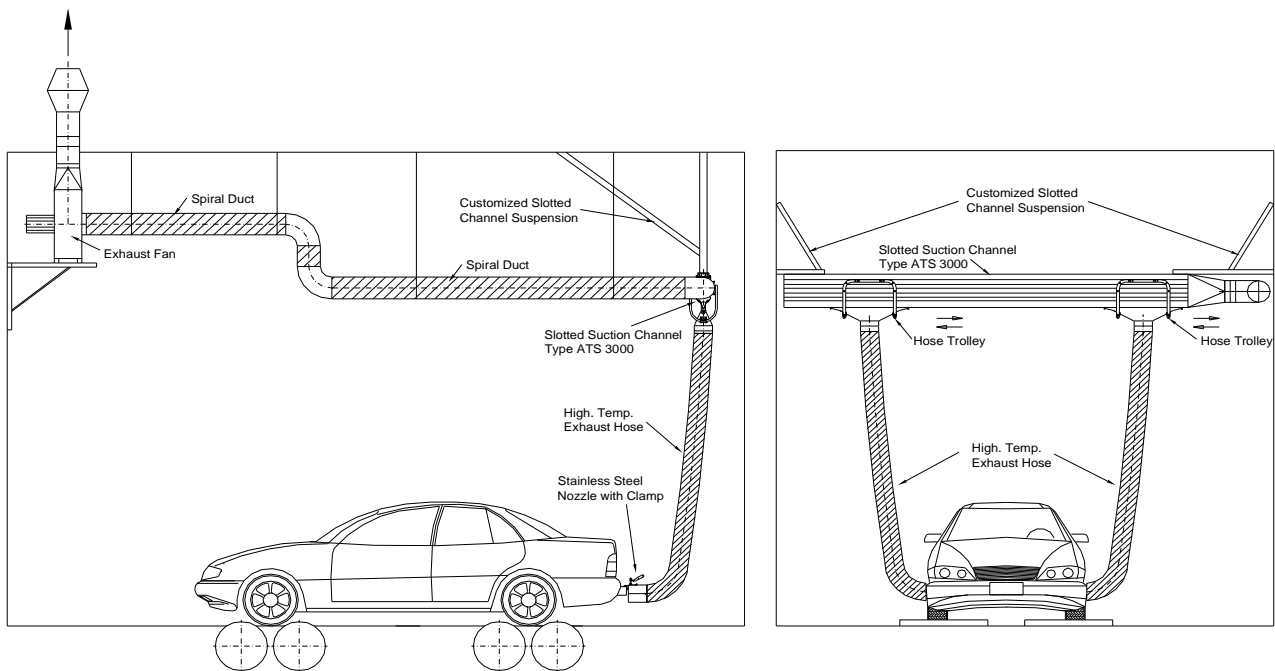
#### | Dyno Exhaust Systems



## Section 5: Dyno Exhaust System

For Cars

### Dyno Exhaust System



#### Trolley:

- Uses ATS 3000 Hose Trolley

Information can be found in Section 2 of this Tech-Spec Binder

#### Channel:

- Uses ATS 3000 Slotted Suction Channel

Information can be found in Section 2 of this Tech-Spec Binder

#### Hose:

- High-temperature flexible hose, diameter  $\varnothing 200\text{mm}$  temperature resistant up to  $+650^\circ\text{C}$

Information can be found in Section 6 of this Tech-Spec Binder

#### Fan:

- High-output exhaust fan

Information can be found in Section 7 of this Tech-Spec Binder

#### Nozzle / Clamp

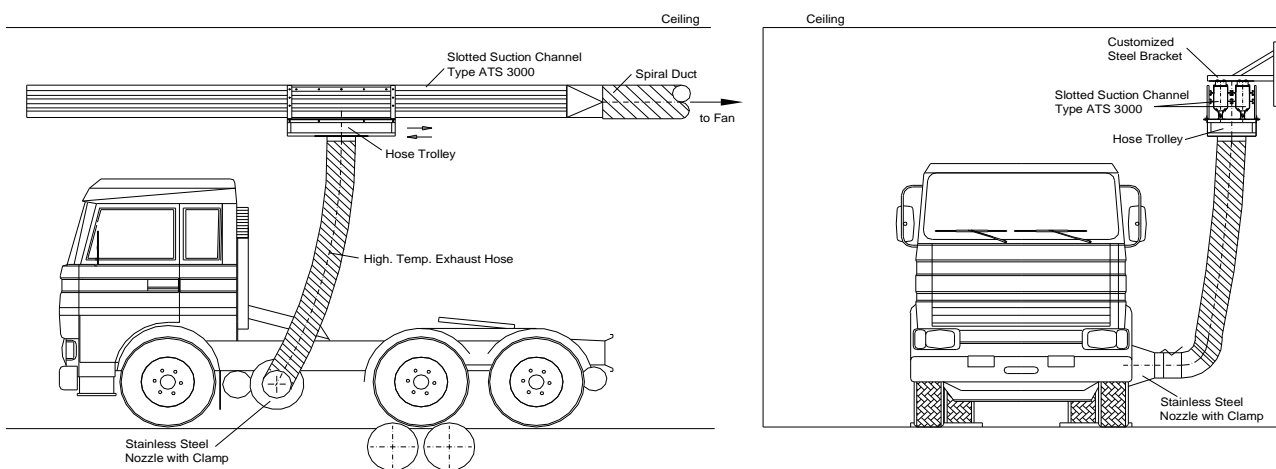
- Aluminium or stainless steel nozzle with clamping device

Information can be found in Section 6 of this Tech-Spec Binder

## Section 5: Dyno Exhaust System

For Construction Machines, Trucks & Buses with Side Exhaust

### Dyno Exhaust System



#### Trolley:

- Uses ATS 3000D Max Hose Trolley

#### Channel:

- Uses two rails of the ATS 3000 Slotted Suction Channel
- Information can be found in Section 2 of this Tech-Spec Binder

#### Hose:

- High-temperature flexible hose, diameter  $\varnothing 300\text{mm}$  temperature resistant up to  $+800^{\circ}\text{C}$
- Information can be found in Section 6 of this Tech-Spec Binder

#### Fan:

- High-output exhaust fan with stands up to  $+300^{\circ}\text{C}$  exhaust gas temperature
- Information can be found in Section 7 of this Tech-Spec Binder

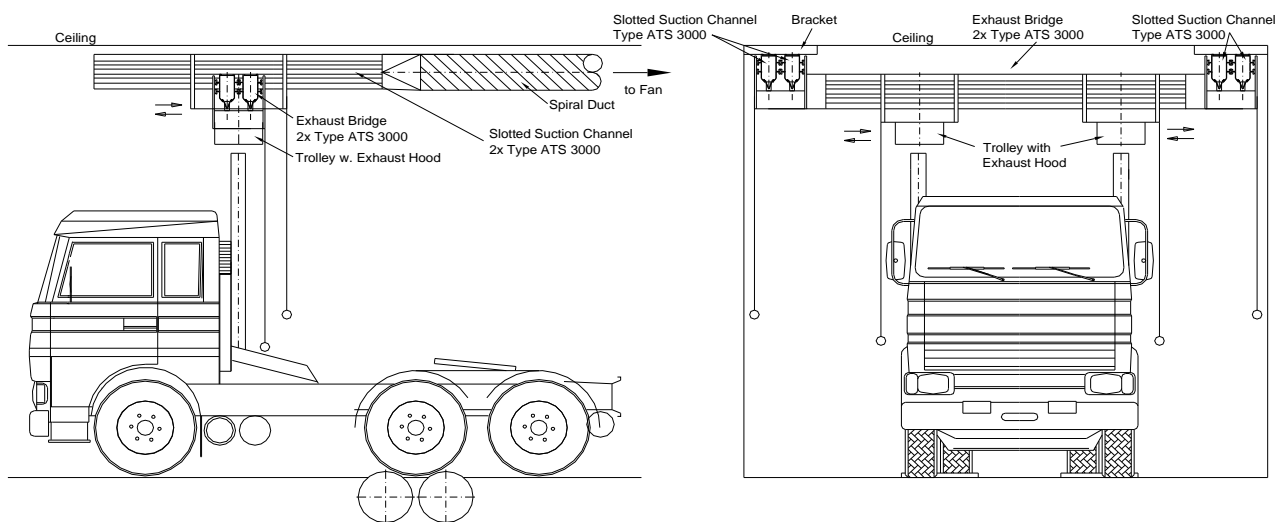
#### Nozzle / Clamp

- Stainless steel nozzle on stand or with clamping device
- Information can be found in Section 6 of this Tech-Spec Binder

## Section 5: Dyno Exhaust System

For Construction Machines, Trucks & Buses with Top Exhaust

### Dyno Exhaust System



#### Trolley:

- Uses ATS 3000 Max Hose Trolley in connection with a custom designed, suction bridge

#### Channel:

- Uses two rails of the ATS 3000 Slotted Suction Channel
- Information can be found in Section 2 of this Tech-Spec Binder

#### Hood:

- Made of stainless steel, customized design

#### Fan:

- High-output exhaust fan with stands up to +300°C exhaust gas temperature
- Information can be found in Section 7 of this Tech-Spec Binder

## *Section 6*

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### *Welding Smoke Extraction Systems*

Type ATS AK-...-

Type ATS AK-...V-

Type ATS AMAX-...-

Type ATS AMAX-...V-

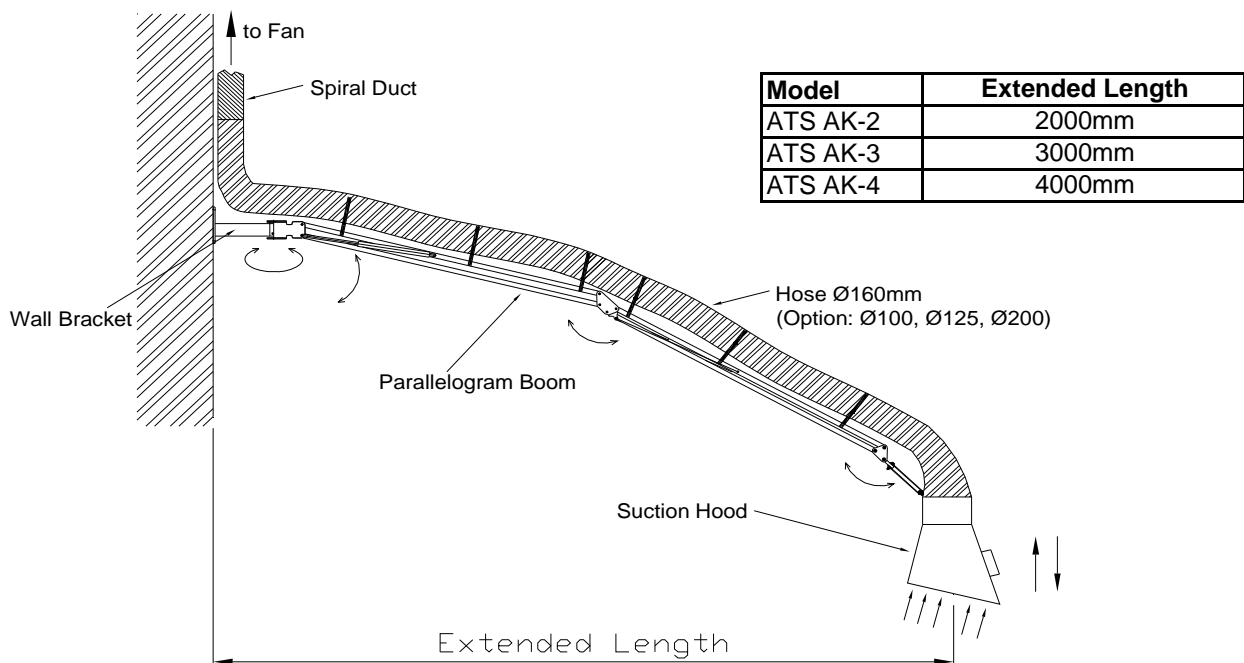
Mobile Welding Extraction System



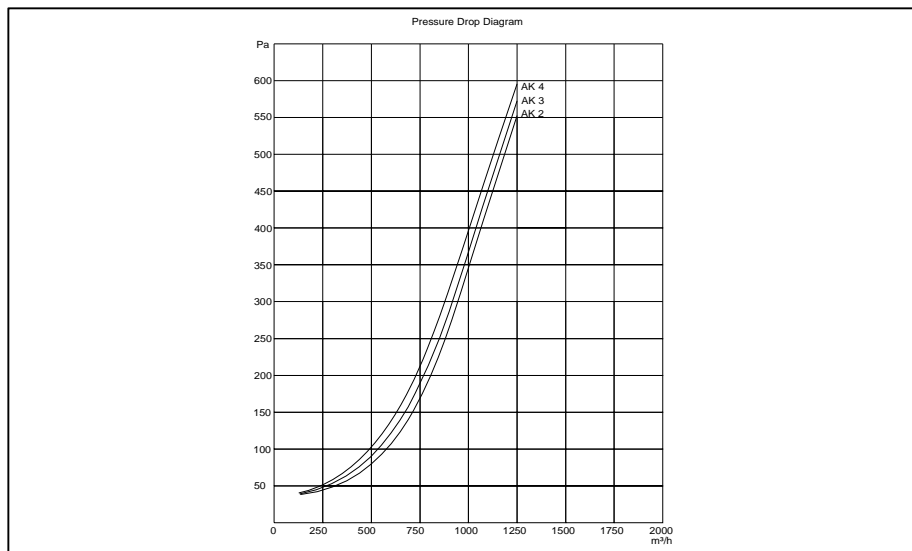
## Section 6: Welding Smoke Extraction Systems

For Welding Fumes, Grinding Dust and Other Shop Pollutants

### Type ATS AK-...-



- Airflow optimized suction hood with shut-off damper
- Ø160mm hose made of flame resistant PVC
- Self-balanced
- Wall bracket included
- Mobile when used with a slotted suction channel (see Page 32)
- To be used in connection with a central suction system

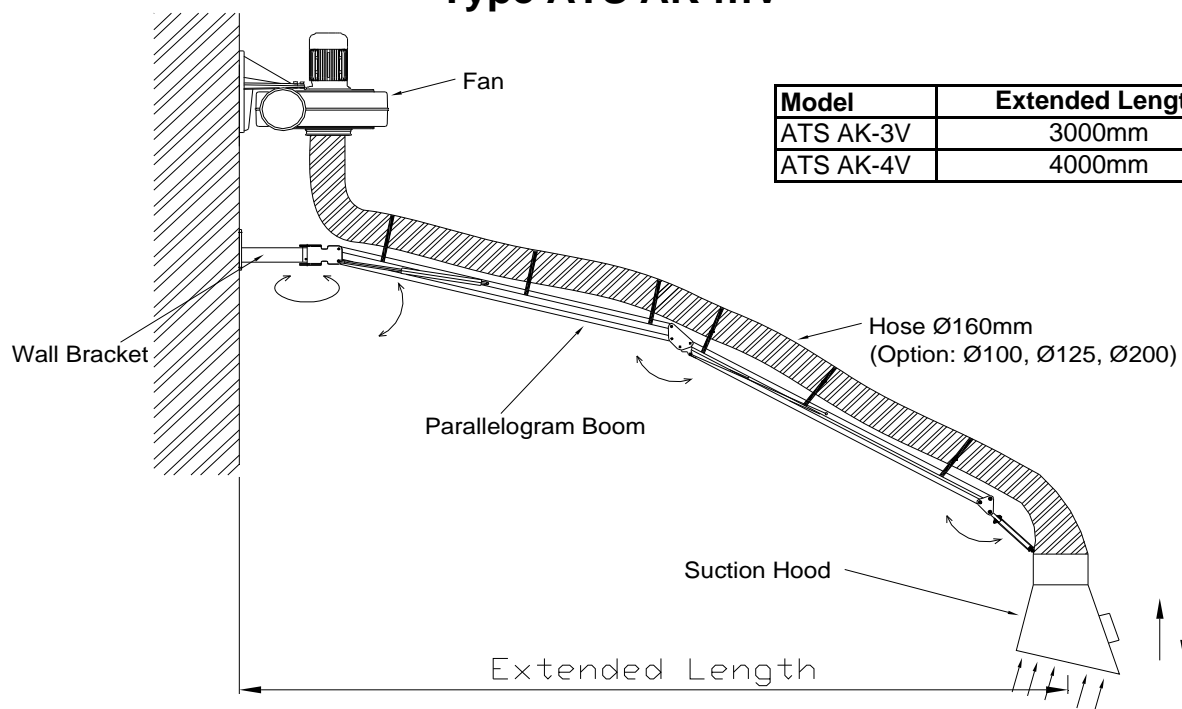




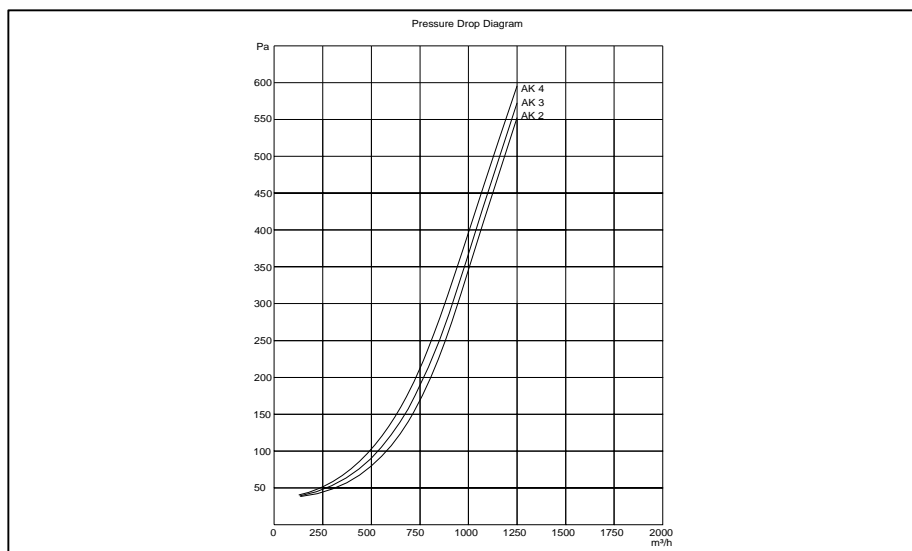
## Section 6: Welding Smoke Extraction Systems

For Welding Fumes, Grinding Dust and Other Shop Pollutants

### Type ATS AK-...V-



- Airflow optimized suction hood with shut-off damper
- Ø160mm hose made of flame resistant PVC
- Self-balanced
- Wall bracket included
- Fan with 0,85kW - 1,9A - 3~ - 400V - 50Hz - max. 1740m³/h

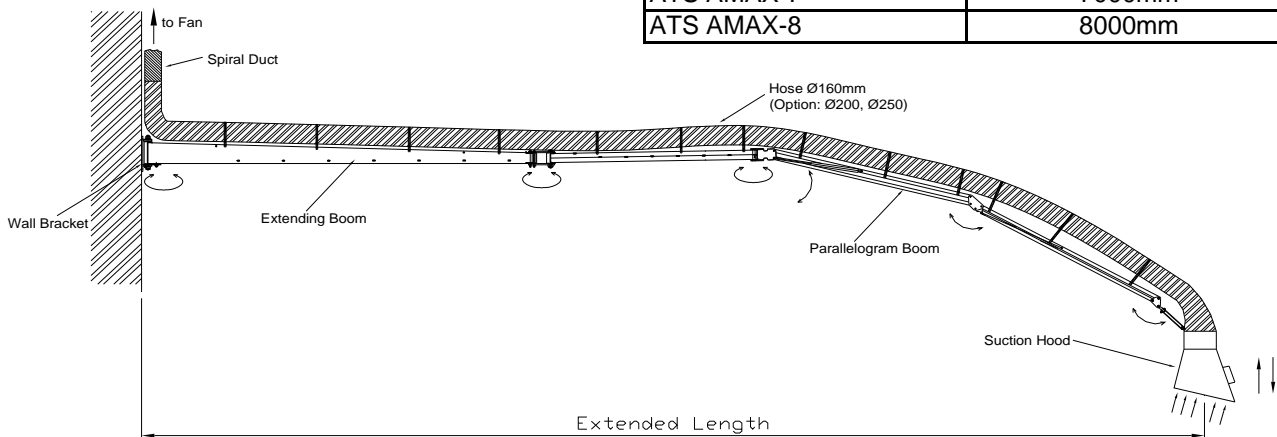


## Section 6: Welding Smoke Extraction Systems

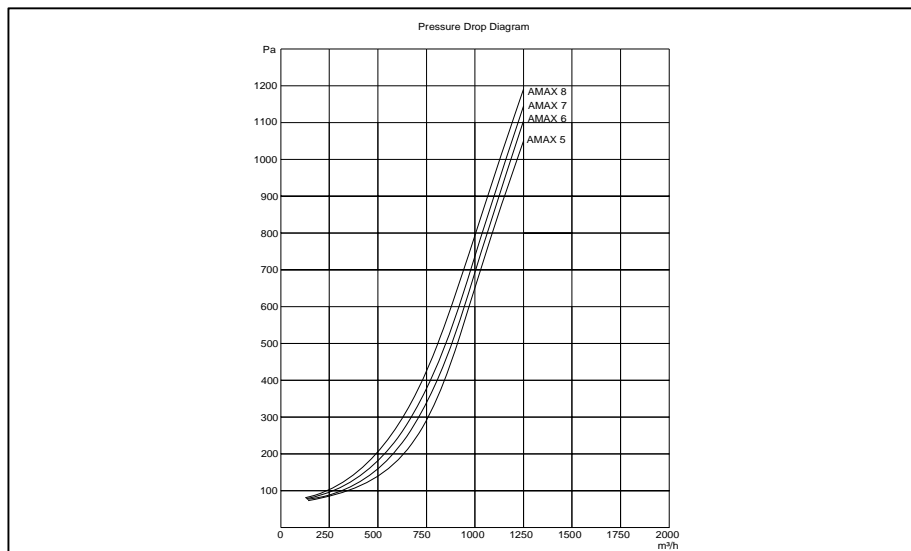
For Welding Fumes, Grinding Dust and Other Shop Pollutants

### Type ATS AMAX-...-

Model	Extended Length
ATS AMAX-5	5000mm
ATS AMAX-6	6000mm
ATS AMAX-7	7000mm
ATS AMAX-8	8000mm



- Suction trunk type ATS AMAX for heavy-duty application
- Wall bracket with swiveling arm and suction trunk with outer parallelogram arm
- Airflow optimized suction hood with shut-off damper
- Ø160mm hose made of flame resistant PVC

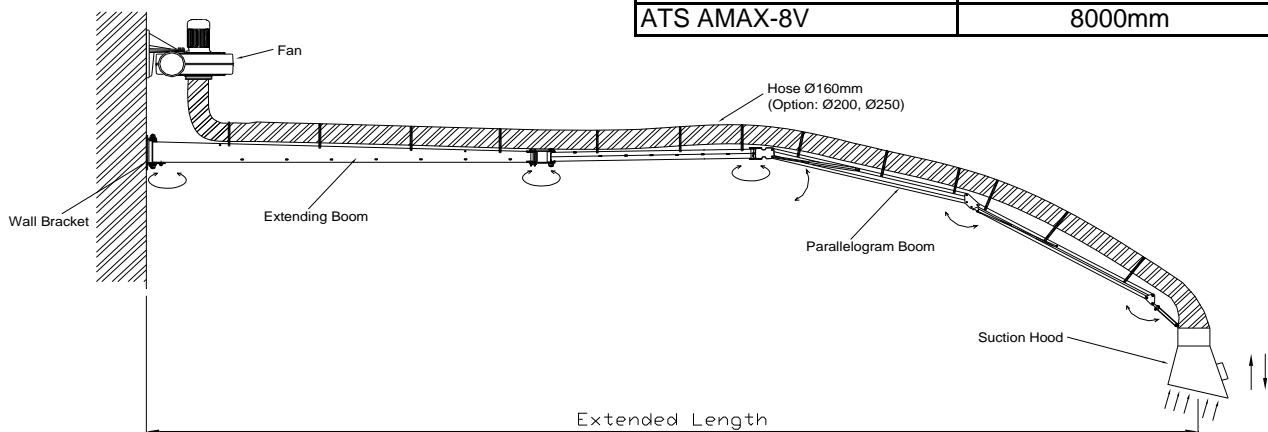


## Section 6: Welding Smoke Extraction Systems

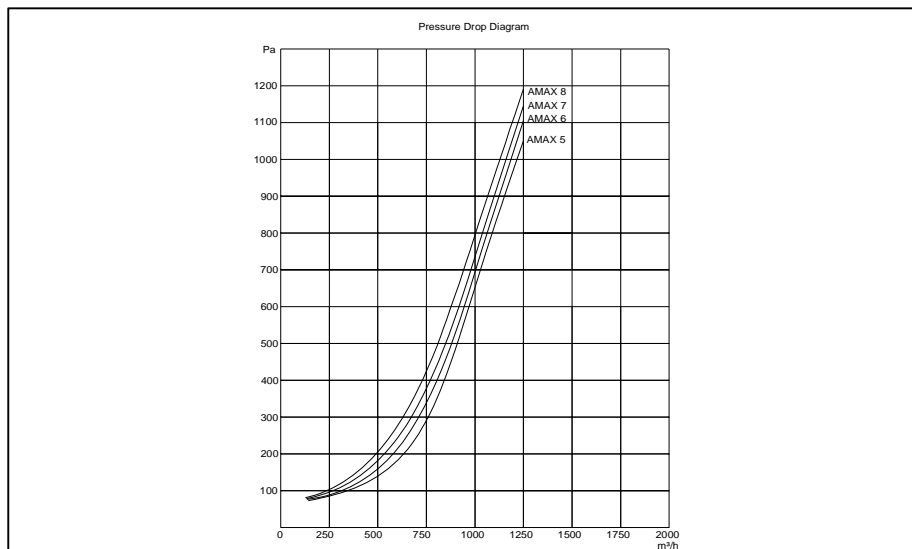
For Welding Fumes, Grinding Dust and Other Shop Pollutants

### Type ATS AMAX-...V-

Model	Extended Length
ATS AMAX-5V	5000mm
ATS AMAX-6V	6000mm
ATS AMAX-7V	7000mm
ATS AMAX-8V	8000mm



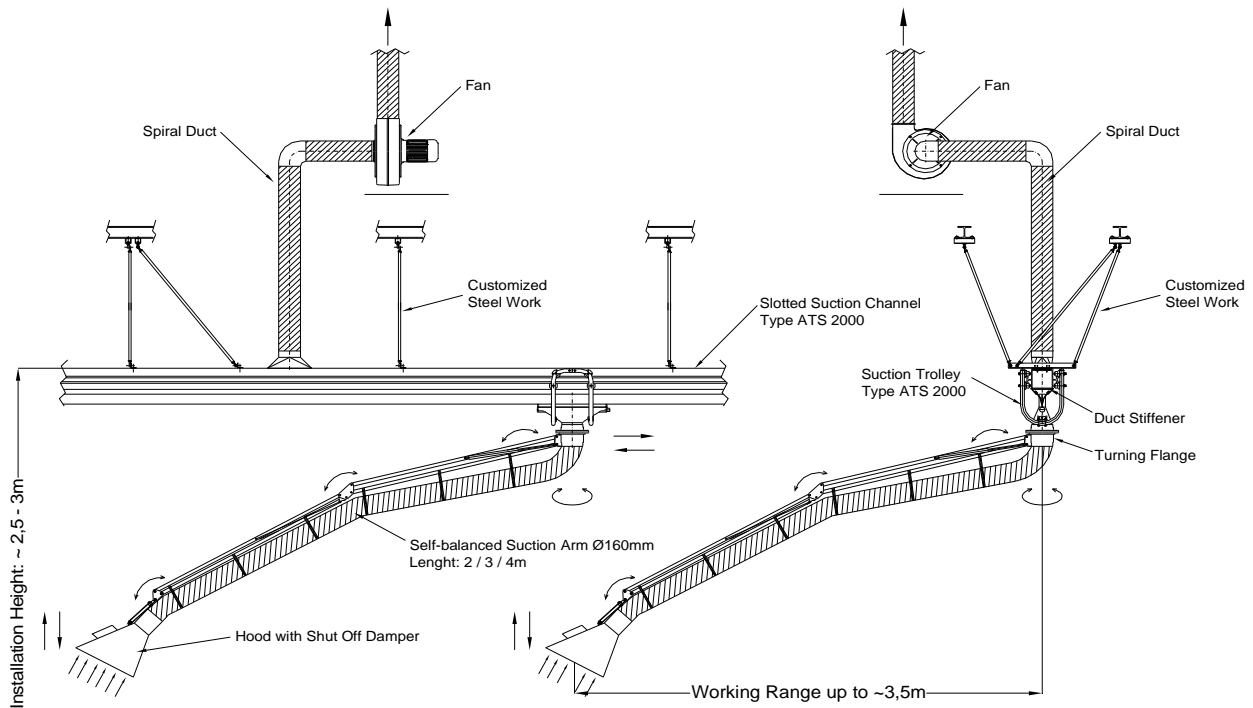
- Suction trunk type ATS AMAX for heavy-duty application
- Wall bracket with swiveling arm and suction trunk with outer parallelogram arm
- Airflow optimized suction hood with shut-off damper
- Ø160mm hose made of flame resistant PVC
- Fan with 1,2kW - 2,65A - 3~ - 400V - 50Hz - max. 2220m³/h



## Section 6: Welding Smoke Extraction Systems

For Welding Fumes, Grinding Dust and Other Shop Pollutants

### Mobile Welding Extraction - "Trolley on Channel"

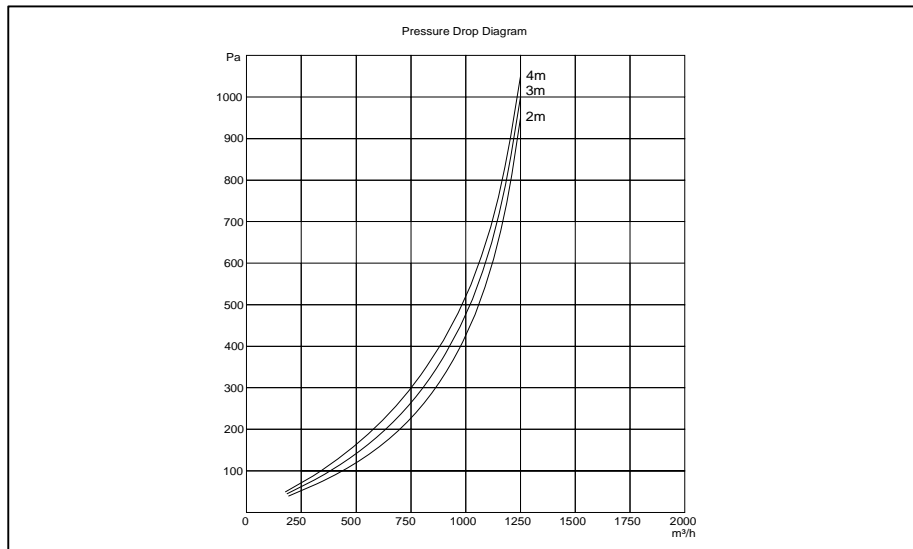


**Channel:**

- Suction channel type ATS 2000 or type ATS 3000 depending on the number of exhaust drops

**Trolley:**

- Suction trolley type ATS 2000 or type ATS 3000



## *Section 7*

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### *Components*

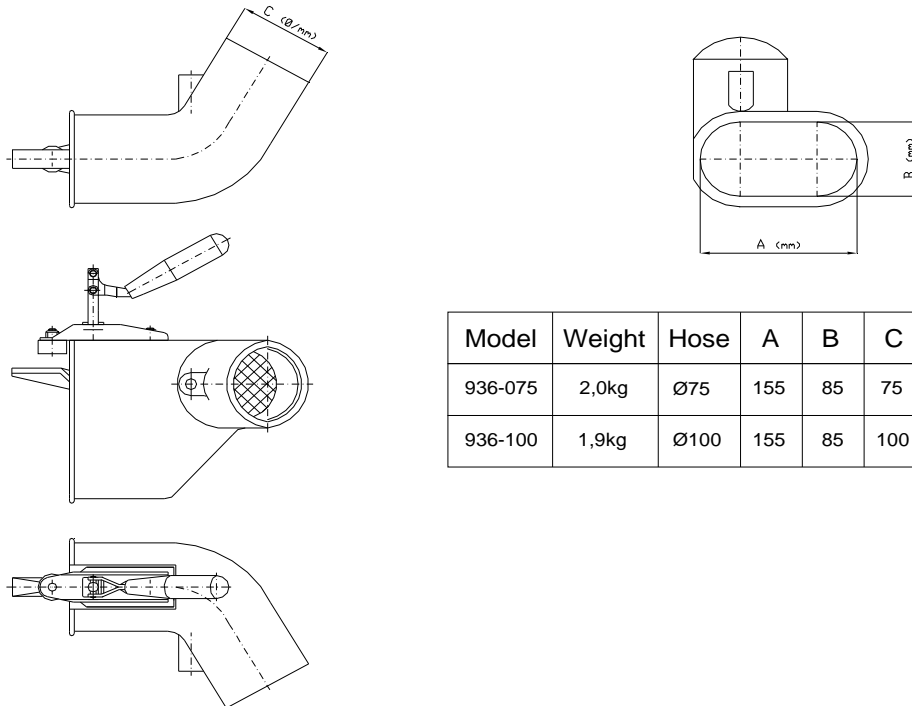
Nozzle  
Hoses



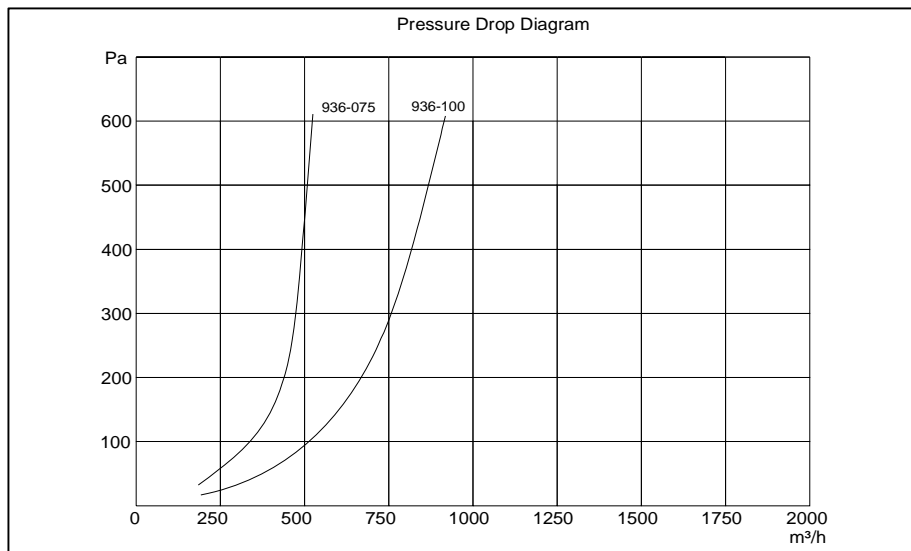
## Section 7: Components

### Exhaust Gas Nozzle with Clamping Device

#### Type 936 - ... (made of neoprene)



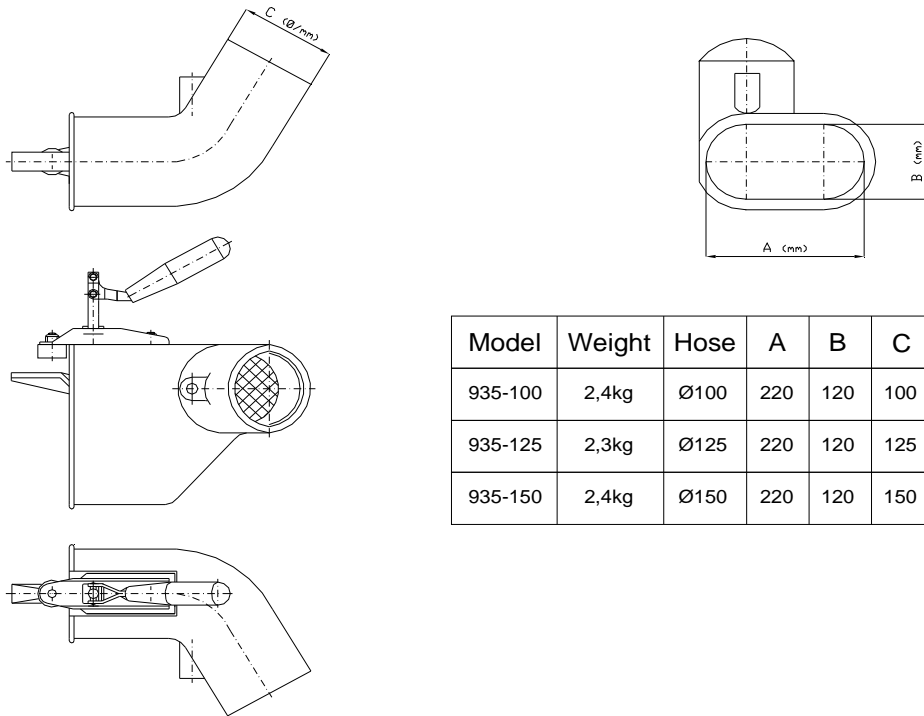
- Neoprene body with opening for testing device
- Hose connection bent upwards 60°
- Nozzle comes with protection grid



## Section 7: Components

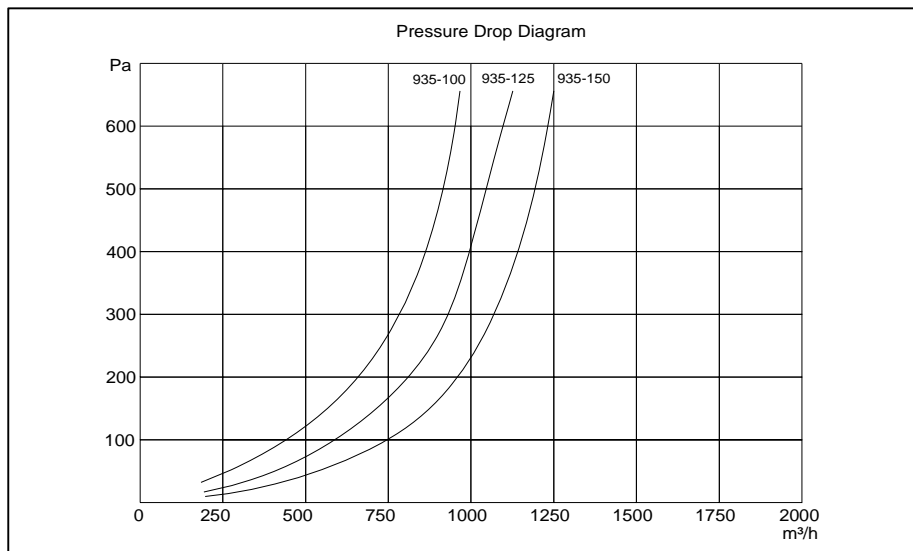
### Exhaust Gas Nozzle with Clamping Device

#### Type 935 - ... (made of neoprene)



Model	Weight	Hose	A	B	C
935-100	2,4kg	Ø100	220	120	100
935-125	2,3kg	Ø125	220	120	125
935-150	2,4kg	Ø150	220	120	150

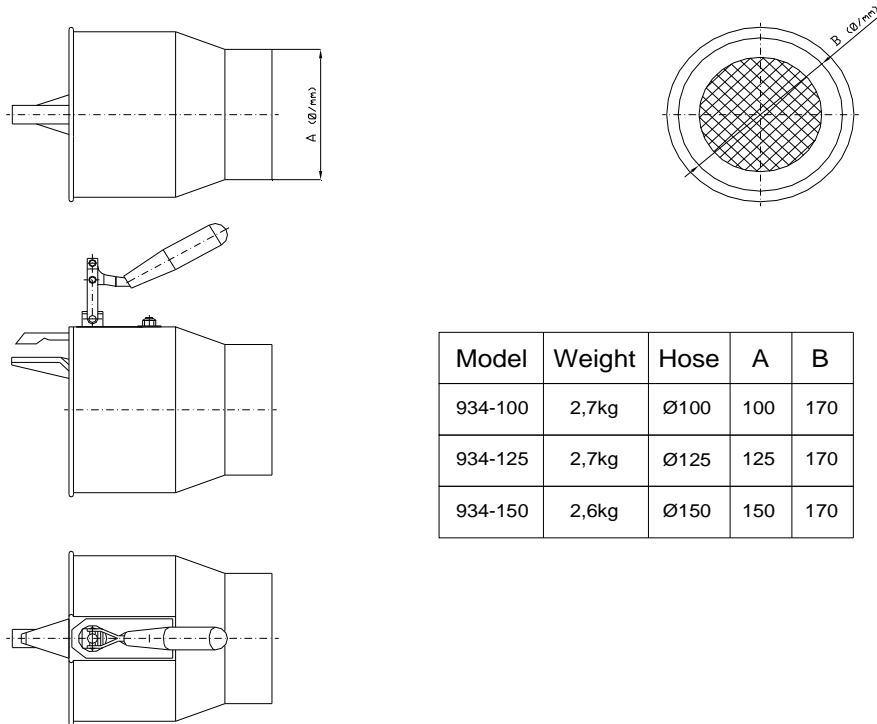
- Neoprene body with opening for testing device
- Hose connection bent upwards 60°
- Nozzle comes with protection grid



## Section 7: Components

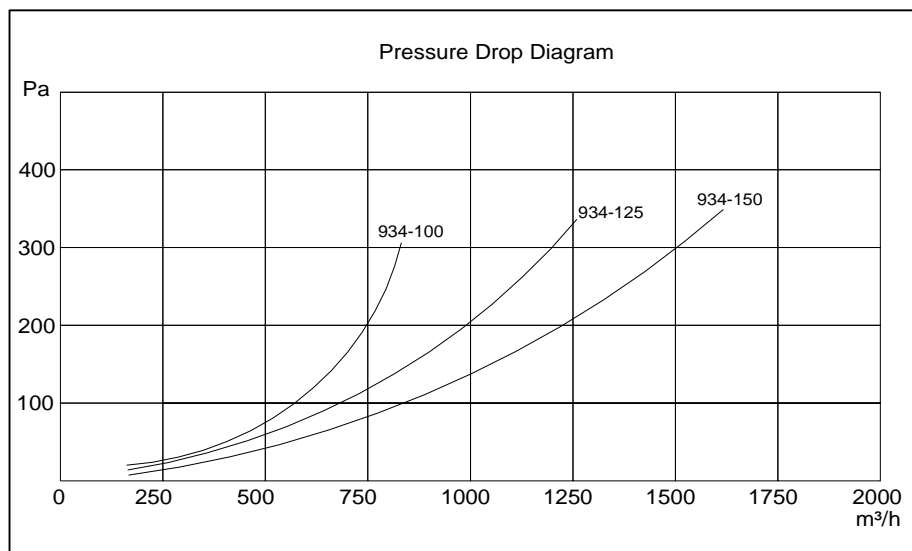
### Exhaust Gas Nozzle with Clamping Device

#### Type 934 - ... (made of neoprene)



Model	Weight	Hose	A	B
934-100	2,7kg	Ø100	100	170
934-125	2,7kg	Ø125	125	170
934-150	2,6kg	Ø150	150	170

- Neoprene body with internal protection grid for full-sized trucks

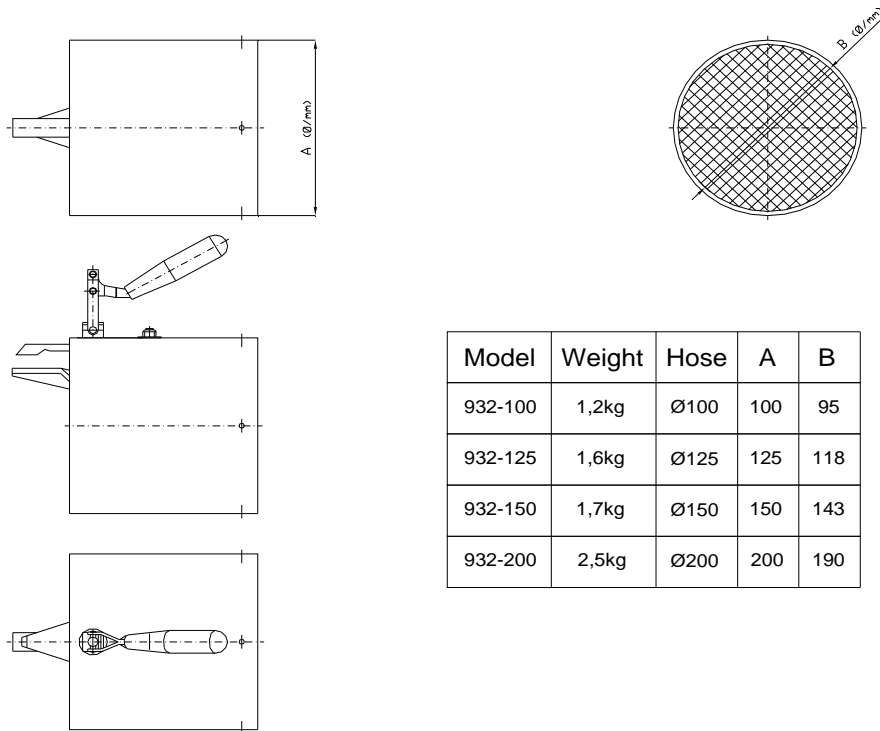




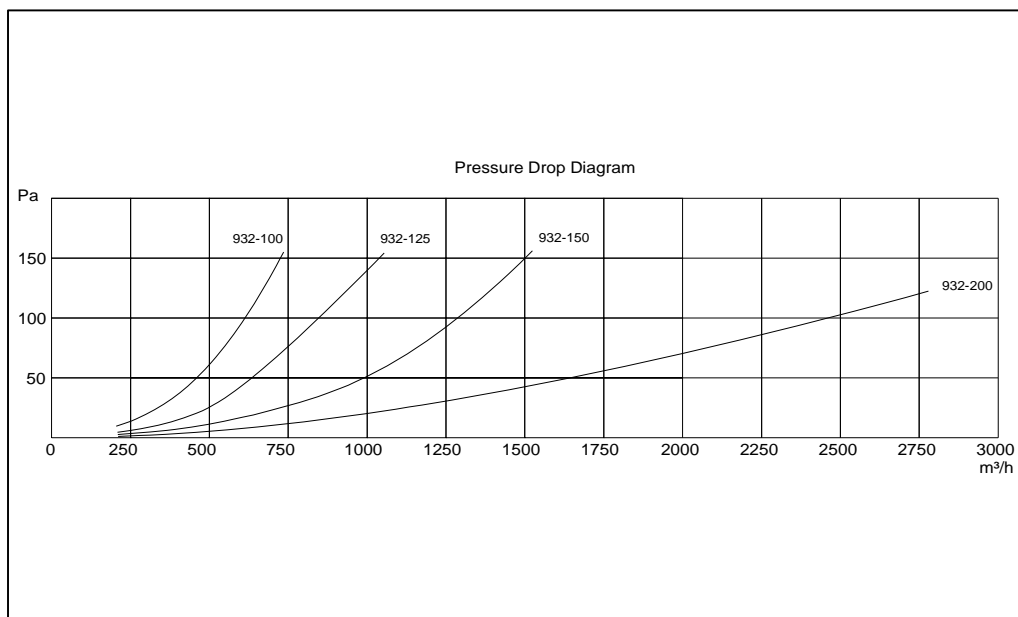
## Section 7: Components

### Exhaust Gas Nozzle with Clamping Device

#### Type 932 - ... (made of aluminium)



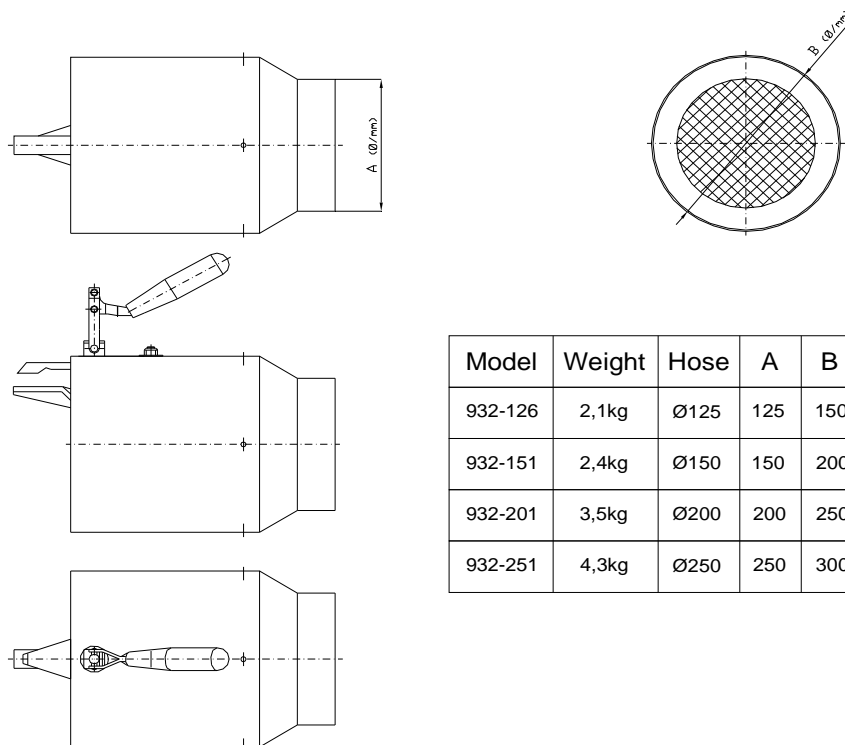
- Aluminium body with internal protection grid for full-sized trucks and constant high temperatures



## Section 7: Components

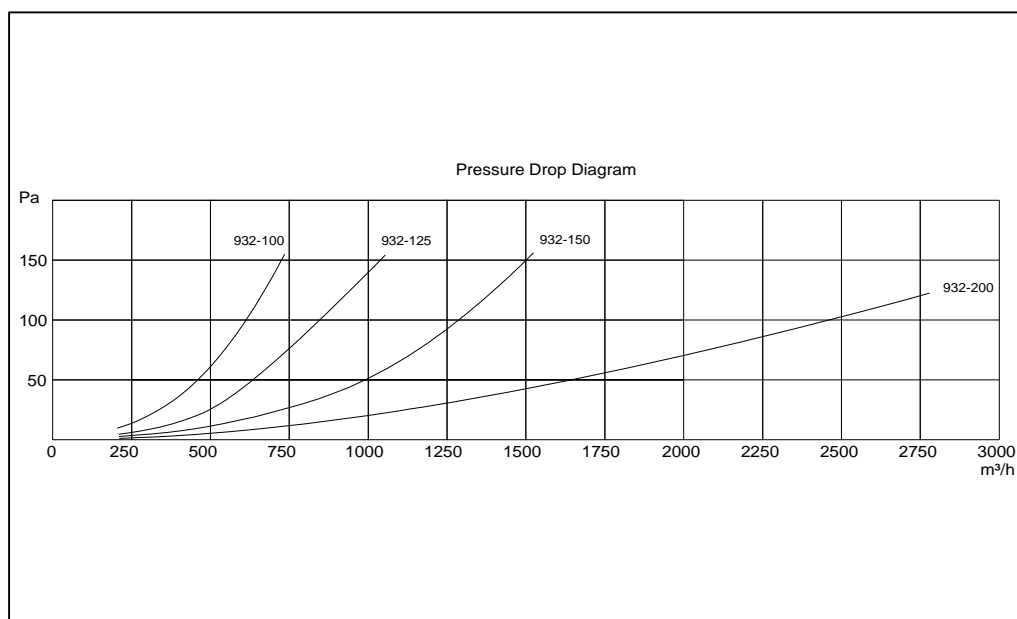
### Exhaust Gas Nozzle with Clamping Device

#### Type 932 - ... (made of stainless steel)



Model	Weight	Hose	A	B
932-126	2,1kg	Ø125	125	150
932-151	2,4kg	Ø150	150	200
932-201	3,5kg	Ø200	200	250
932-251	4,3kg	Ø250	250	300

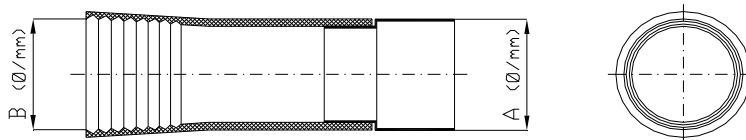
- Stainless steel body with internal protection grid for full-sized trucks and constant high temperatures



## Section 7: Components

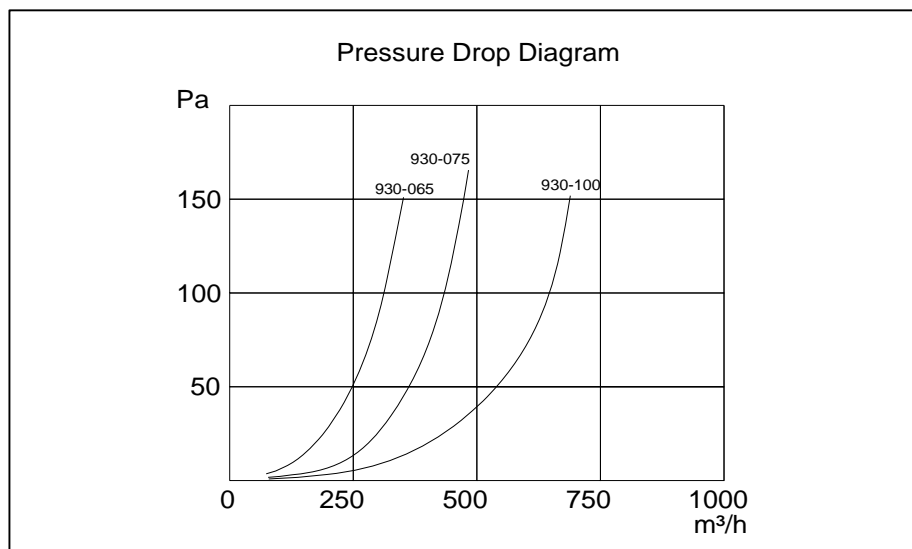
### Conical Nozzle - Tight-Fitting

#### Type 930 - ... (made of neoprene)



Model	Weight	Hose	A	B
930-065	0,6kg	Ø65	65	65
930-075	0,7kg	Ø75	75	75
930-100	0,8kg	Ø100	100	100

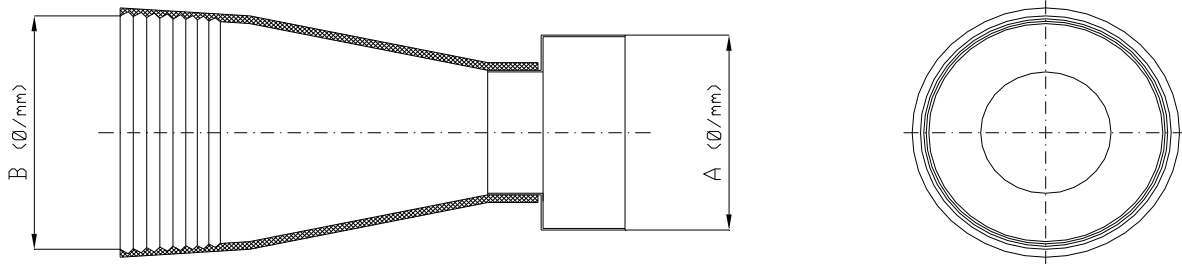
- Neoprene slip-on nozzle with opening for cars with single-exhaust pipe



## Section 7: Components

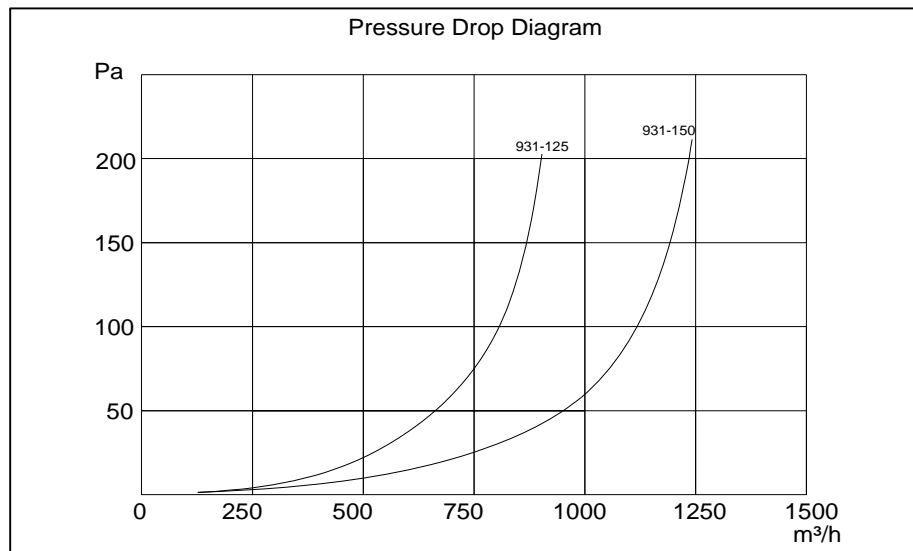
### Conical Nozzle - Tight-Fitting

#### Type 931 - ... (made of neoprene)



Model	Weight	Hose	A	B
931-125	1,1kg	Ø125	125	125
931-150	1,2kg	Ø150	150	150

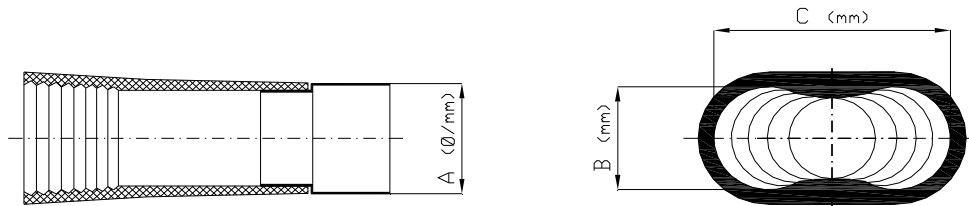
- Neoprene slip-on nozzle with opening for cars and trucks with single-exhaust pipe



## Section 7: Components

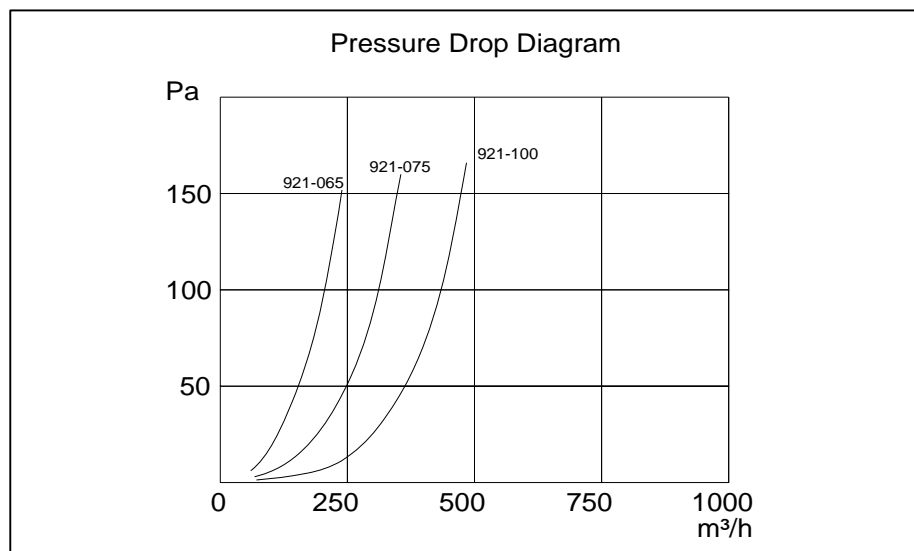
### Conical Nozzle - Tight-Fitting

#### Type 921 - ... (made of neoprene)



Model	Weight	Hose	A	B	C
921-065	0,8kg	Ø65	65	110	70
921-075	0,9kg	Ø75	75	110	70
921-100	1,0kg	Ø100	100	110	70

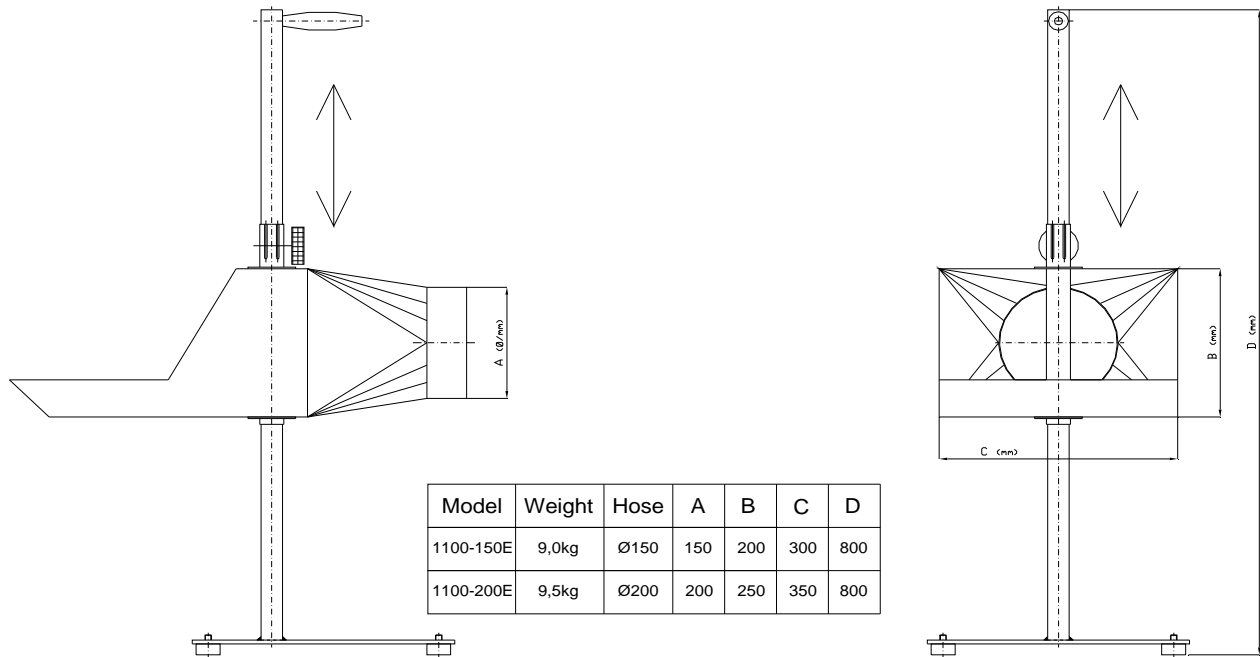
- Neoprene slip-on nozzle with opening for cars with double-exhaust pipe



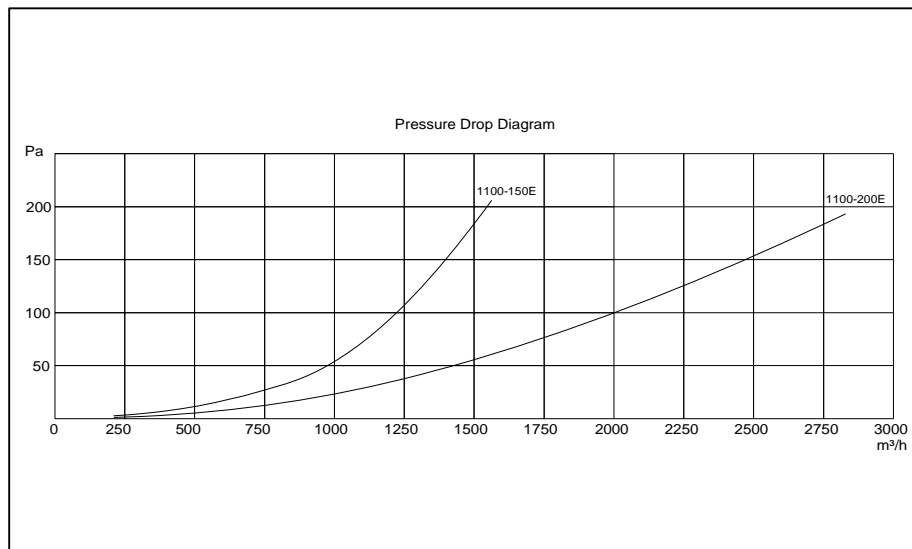
## Section 7: Components

### High-Temperature Exhaust Gas Funnel on Stand

#### Type 1100 - ...E (made of stainless steel)



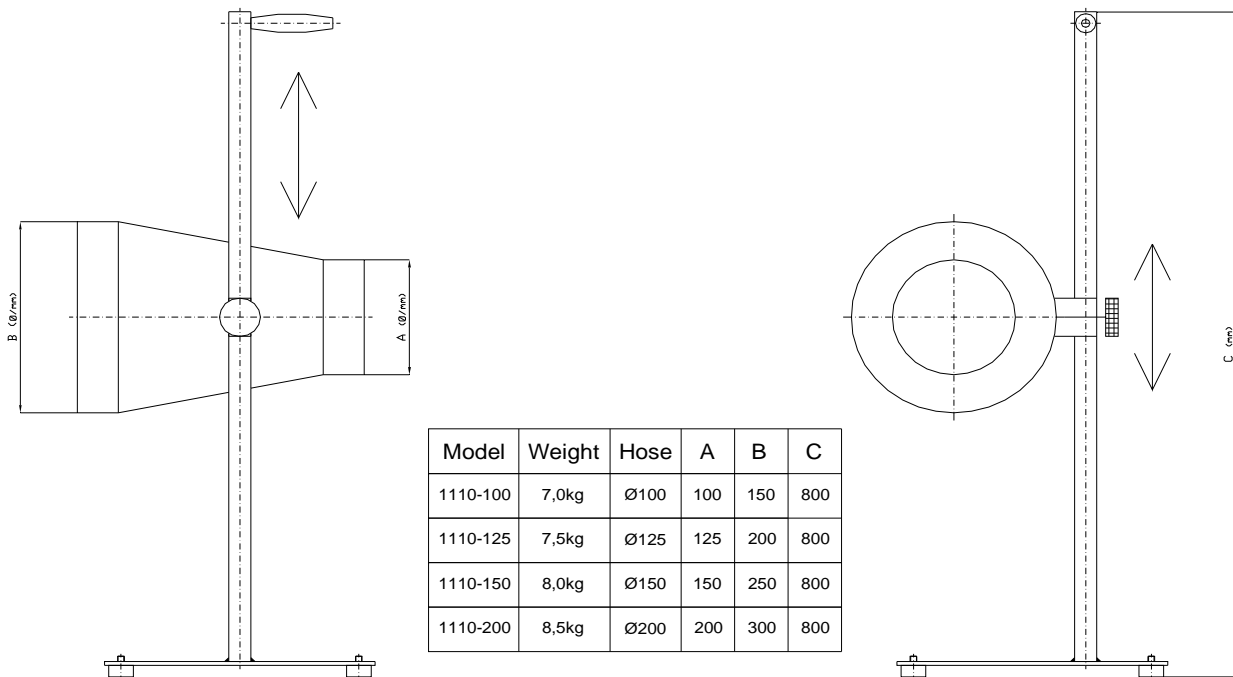
- Stainless steel construction with stand
- Adjustable height
- Use for high-temperature exhaust applications



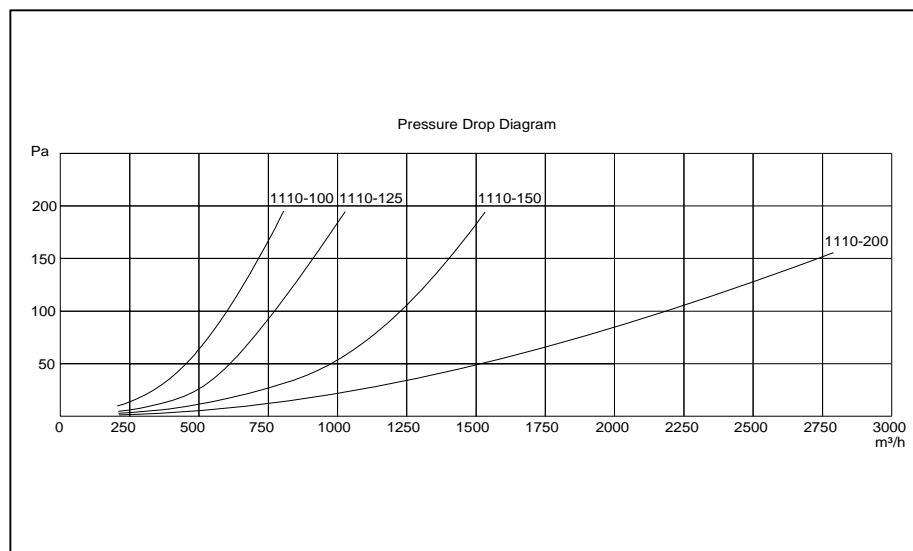
## Section 7: Components

### Exhaust Gas Funnel on Stand

#### Type 1110 - ... (made of zinc-coated steel)



- Made from zinc-coated steel sheet, with stand
- Adjustable height
- Use for high-temperature exhaust applications (up to +300°C)



## Section 7: Components

### Exhaust Gas Hoses

#### Type TR up to +200°C

High-quality exhaust gas hose made of TPE coated polyester fabric with outside nylon or steel helix covered by an extremely wear-resistant scuff strip. Temperature rated up to +200°C and resistant to all exhaust gases, fuels and oils. Super Lightweight and highly flexible.

Delivered in any desired length up to 20m

PART NO.	DIAMETER
964-075	Ø75mm
964-100	Ø100mm
964-125	Ø125mm
964-150	Ø150mm
964-200	Ø200mm



#### Type HT 300 up to +300°C

Fully crush-proof High-quality rubber exhaust gas hose with connecting end sleeve, temperature rated up to +300°C and resistant to all exhaust gases, fuels and oil. Lightweight and highly flexible. Specially designed for use in inground systems.

Delivered in any desired length up to 15m

PART NO.	DIAMETER
972-100	Ø100mm
972-125	Ø125mm
972-150	Ø150mm
972-200	Ø200mm



#### Type HT 500 up to +500°C

High-quality, double-layered construction, inner layer heat resistant impregnated glass fabric. Outer layer is a specially coated fabric designed to withstand high temperature and reinforced with stainless steel wire. The external helix is made of galvanized steel. Temperature rated up to +500°C, flame resistant to all exhaust gases, fuels and flexible, silicone free.

Delivered in any desired length up to 15m

PART NO.	DIAMETER
981-100	Ø100mm
981-125	Ø125mm
981-150	Ø150mm
981-200	Ø200mm





## Section 7: Components

### Exhaust Gas Hoses

#### Type HT 800 up to +800°C

High-quality, double-layered construction, inner layer heat resistant impregnated glass fabric. Outer layer is a specially coated fabric designed to withstand high temperature and reinforced with stainless steel wire. The external helix is made of galvanized steel. Temperature rated up to +800°C, flame resistant to all exhaust gases, fuels and flexible, silicone free.

Delivered in any desired length up to 15m

PART NO.	DIAMETER
984-100	Ø100mm
984-125	Ø125mm
984-150	Ø150mm
984-200	Ø200mm



#### Type HT 1100 up to +1100°C

High-quality, three-layer construction, inner layer stainless steel wire fabric; middle layer therm textile fabric; outer layer heat stabilized high-temperature fabric, reinforced by woven in stainless steel wire with external helix made of stainless steel. Temperature rated up to +1100°C, flame resistant and non flammable, resistant to all exhaust gases, fuels and oil, high flexible, silicone free.

Delivered in any desired length up to 15m

PART NO.	DIAMETER
987-200	Ø200mm



#### Exhaust Gas Hose for Welding Fumes up to +120°C

Specially designed extraction hose for welding fumes. Flame retardent for use with extraction arms, low pressure loss due to special steel helix, temperature rated up to +120°C continuous and resistant to all welding fumes. Extremely Lightweight and flexible.

Delivered in any desired length up to 20m

PART NO.	DIAMETER
986-160	Ø160mm



## *Section 8*

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### *Fans*

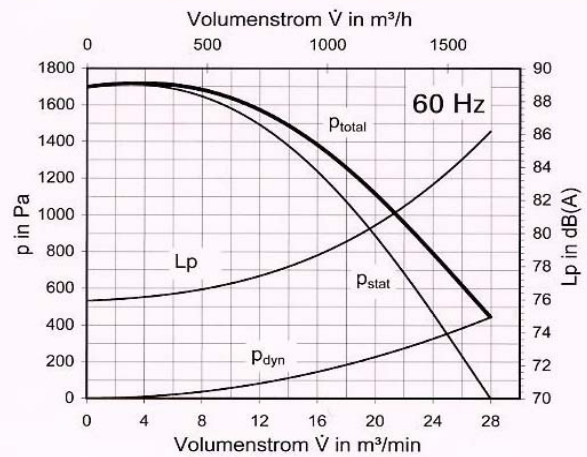
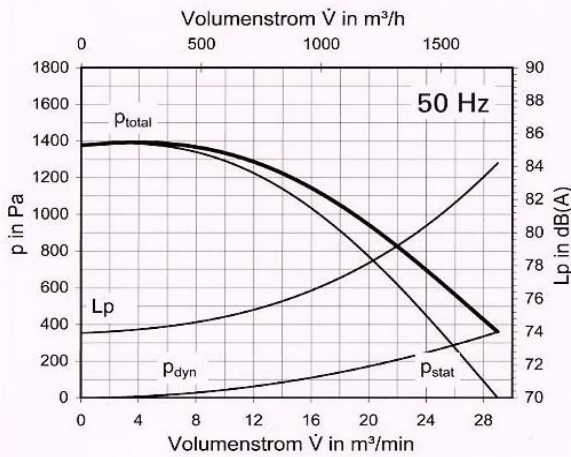
Type ATS 12 Cast Aluminium Type  
Type ATS 16 Cast Aluminium Type  
Type ATS 31 Cast Aluminium Type  
Type ATS 41 Cast Aluminium Type  
Sound Absorbing Cabinet  
Direct Drive Fans Steel Sheet Type



## Section 8: Fans

### Cast Aluminium Pressure Fans (Made in Germany)

#### Type ATS 12



#### Technische Daten

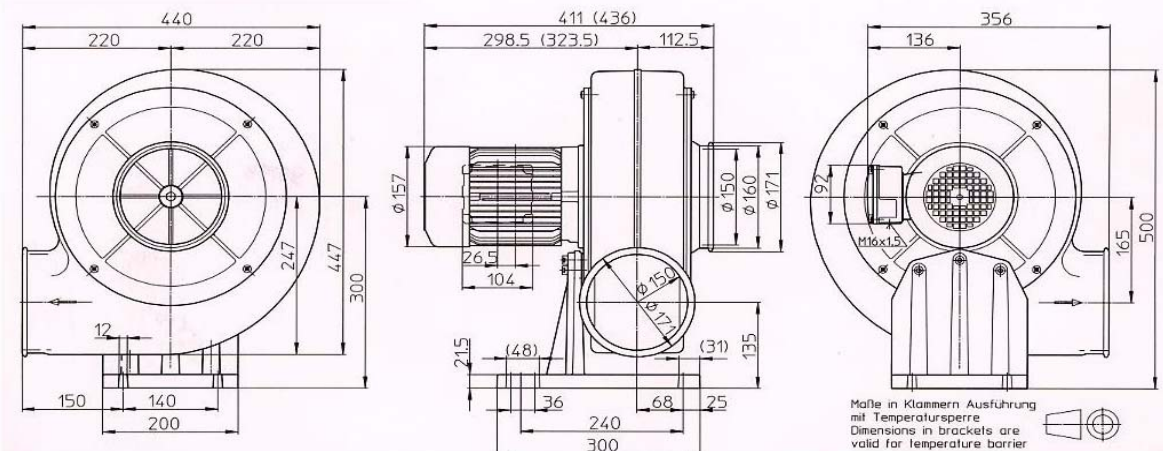
#### 50 Hz

#### 60 Hz

#### Technical Data

Typ	ATS 12	ATS 12 60Hz-Laufrad	Type
Volumenstrom, frei ausblasend	29 $\text{m}^3/\text{min}$ (1740 $\text{m}^3/\text{h}$ )	28 $\text{m}^3/\text{min}$ (1680 $\text{m}^3/\text{h}$ )	Free outlet flow rate
Druckerhöhung, voll gedrosselt	1400 Pa	1730 Pa	Pressure increase, fully throttled
Motor-Bemessungsleistung	0,85 kW	1,1 kW	Motor nominal rating
Gewicht ca.	23,5 kg	23,5 kg	Weight approx.
Ventilatorgehäusematerial	Aluminium		Ventilator housing material
Laufradmaterial	Aluminium		Material of impeller
Temperatur des Fördermediums ... auf Anfrage	max. 80 °C (176 °F) max. 230 °C (446 °F)	max. 80 °C (176 °F) max. 230 °C (446 °F)	Temperature of medium ... on request
Spannung Dreieckschaltung	3AC, 220-240 V, 50 Hz	3AC, 254-277 V, 60 Hz	Voltage delta connection
Spannung Sternschaltung	3AC, 380-420 V, 50 Hz	3AC, 440-480 V, 60 Hz	Voltage star connection
Stromaufnahme ca.	1,9 A bei 400 V St. 50 Hz	1,9 A at 480 V St. 60 Hz	Current draw approx.

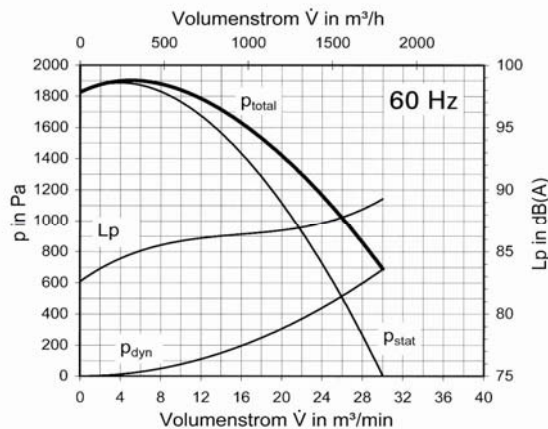
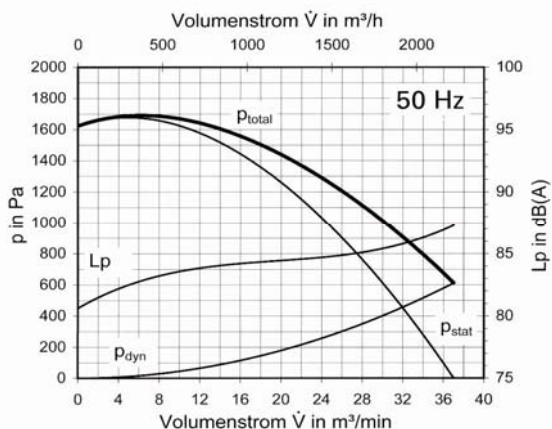
#### Abmessungen/Dimensions



## Section 8: Fans

### Cast Aluminium Pressure Fans (Made in Germany)

#### Type ATS 16



#### Technische Daten

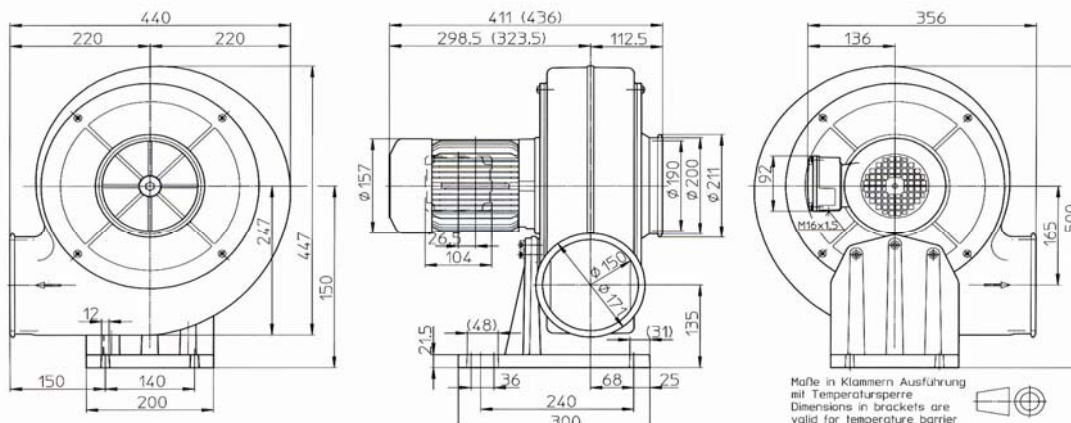
50 Hz

60 Hz

#### Technical Data

Typ	ATS 16	ATS 16	Type
Volumenstrom, frei ausblasend	37 $\text{m}^3/\text{min}$ (2220 $\text{m}^3/\text{h}$ )	30 $\text{m}^3/\text{min}$ (1800 $\text{m}^3/\text{h}$ )	Free outlet flow rate
Druckerhöhung, voll gedrosselt	1600 Pa	1800 Pa	Pressure increase, fully throttled
Motor-Bemessungsleistung	1,2 kW	1,4 kW	Motor nominal rating
Gewicht ca.	24,5 kg	24,5 kg	Weight approx.
Ventilatorgehäusematerial	Aluminium		Ventilator housing material
Laufmaterial	Aluminium		Material of impeller
Temperatur des Fördermediums	max. 80 °C (176 °F)	max. 80 °C (176 °F)	Temperature of medium
... auf Anfrage	max. 230 °C (446 °F)	max. 230 °C (446 °F)	... on request
Spannung Dreieckschaltung	3AC, 220-240 V, 50 Hz	3AC, 254-277 V, 60 Hz	Voltage delta connection
Spannung Sternschaltung	3AC, 380-420 V, 50 Hz	3AC, 440-480 V, 60 Hz	Voltage star connection
Stromaufnahme ca.	2,65 A bei 400 V St. 50 Hz	2,65 A at 480 V St. 60 Hz	Current draw. approx.

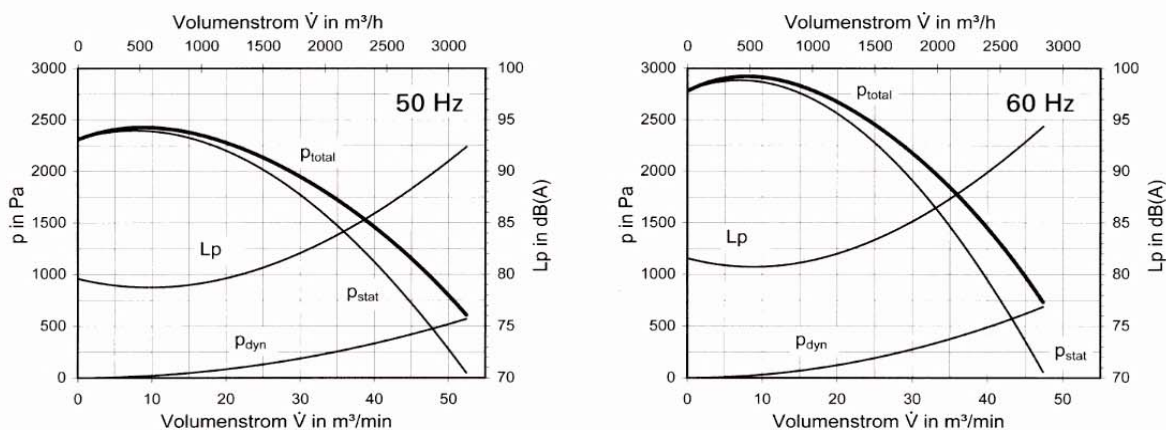
#### Abmessungen/Dimensions



## Section 8: Fans

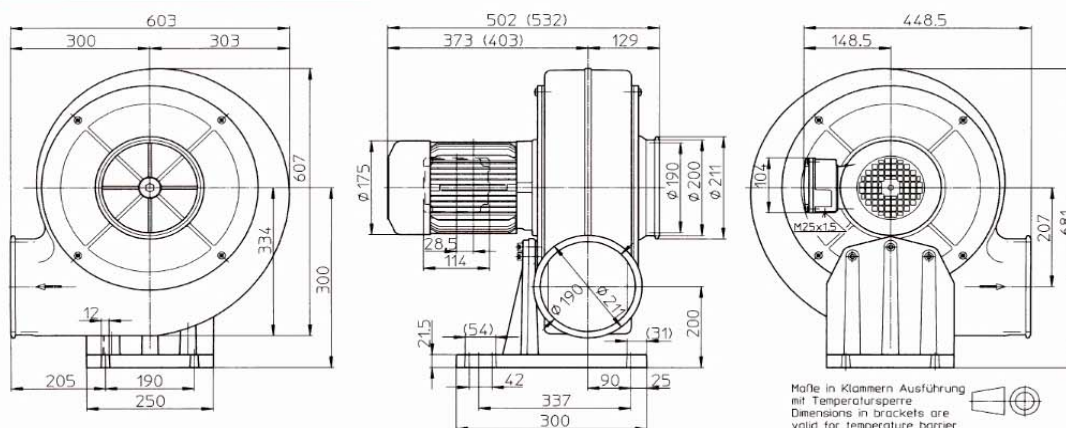
### Cast Aluminium Pressure Fans (Made in Germany)

#### Type ATS 31



Technische Daten	50 Hz	60 Hz	Technical Data
Typ	<b>ATS 31</b>	<b>ATS 31</b>	<b>Type</b>
Volumenstrom, frei ausblasend	<b>52 m³/min (3120 m³/h)</b>	<b>47 m³/min (2800 m³/h)</b>	<b>Free outlet flow rate</b>
Druckerhöhung, voll gedrosselt	<b>2300 Pa</b>	<b>2770 Pa</b>	<b>Pressure increase, fully throttled</b>
Motor-Bemessungsleistung	<b>2,4 kW</b>	<b>2,6 kW</b>	<b>Motor nominal rating</b>
Gewicht ca.	47 (49 mit Stahlauflrad) kg	47 (49 mit Stahlauflrad) kg	<b>Weight approx.</b>
Ventilatorgehäusematerial	Aluminium		<b>Ventilator housing material</b>
Laufradmaterial	Aluminium (optional Stahlblech)		<b>Material of impeller</b>
Temperatur des Fördermediums	max. 80 °C (176 °F)	max. 80 °C (176 °F)	<b>Temperature of medium</b>
... auf Anfrage	max. 230 °C (446 °F)	max. 230 °C (446 °F)	<b>... on request</b>
Spannung Dreieckschaltung	<b>3AC, 220-240 V, 50 Hz</b>	<b>3AC, 254-277 V, 60 Hz</b>	<b>Voltage delta connection</b>
Spannung Sternschaltung	<b>3AC, 380-420 V, 50 Hz</b>	<b>3AC, 440-480 V, 60 Hz</b>	<b>Voltage star connection</b>
Stromaufnahme ca.	4,55 A bei 400 V St. 50 Hz	4,2 A at 480 V St. 60 Hz	<b>Current draw. approx.</b>

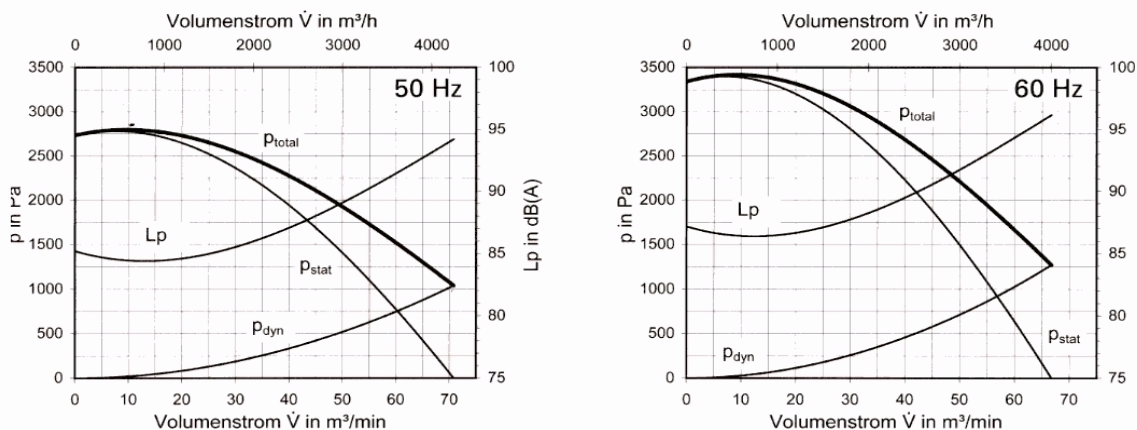
#### Abmessungen/Dimensions



## Section 8: Fans

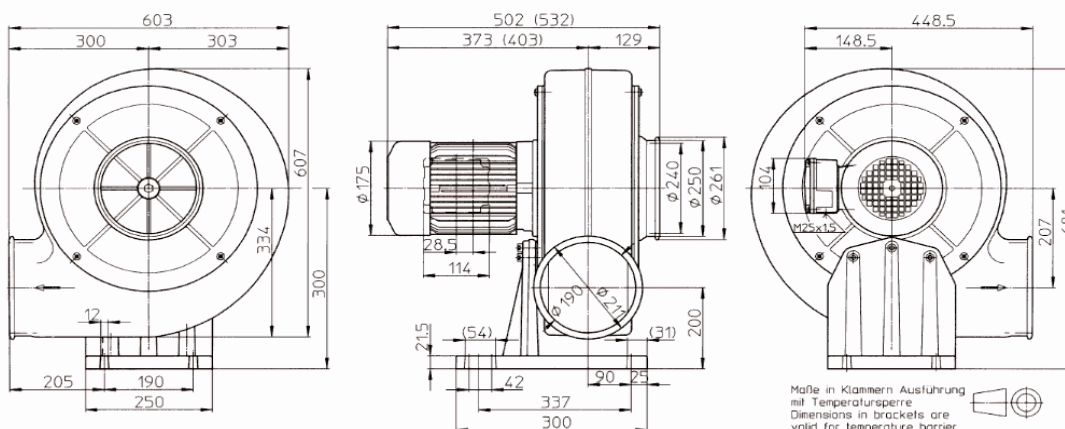
### Cast Aluminium Pressure Fans (Made in Germany)

#### Type ATS 41



<i>Technische Daten</i>	50 Hz	60 Hz	<i>Technical Data</i>
Typ	<b>ATS 41</b>	<b>ATS 41</b>	Typ
Volumenstrom, frei ausblasend	<b>70 m³/min (4200 m³/h)</b>	<b>66 m³/min (3960 m³/h)</b>	Free outlet flow rate
Druckerhöhung, voll gedrosselt	<b>2700 Pa</b>	<b>3300 Pa</b>	Pressure increase, fully throttled
Motor-Bemessungsleistung	<b>3,8 kW</b>	<b>4,3 kW</b>	Motor nominal rating
Gewicht ca.	49 (51 mit Stahlauflauf) kg	49 (51 mit Stahlauflauf) kg	Weight approx.
Ventilatorgehäusematerial	Aluminium		Ventilator housing material
Laufmaterial	Aluminium (optional Stahlblech)		Material of impeller
Temperatur des Fördermediums	max. 80 °C (176 °F)	max. 80 °C (176 °F)	Temperature of medium
... auf Anfrage	max. 230 °C (446 °F)	max. 230 °C (446 °F)	... on request
Spannung Dreieckschaltung	<b>3AC, 220-240 V, 50 Hz</b>	<b>3AC, 254-277 V, 60 Hz</b>	Voltage delta connection
Spannung Sternschaltung	<b>3AC, 380-420 V, 50 Hz</b>	<b>3AC, 440-480 V, 60 Hz</b>	Voltage star connection
Stromaufnahme ca.	7,7 A bei 400 V St. 50 Hz	7,3 A at 480 V St. 60 Hz	Current draw, approx.

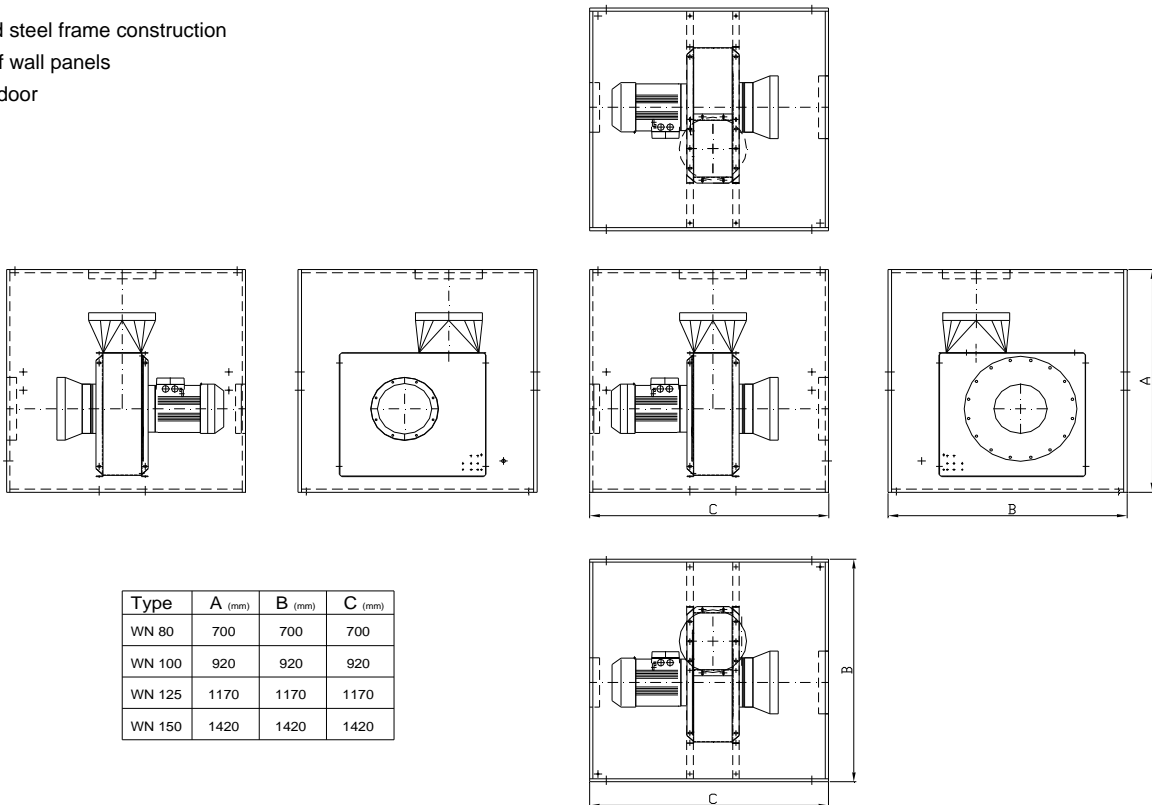
#### Abmessungen/Dimensions



## Section 8: Fans

### Sound Absorbing Cabinet

- Zinc coated steel frame construction
- Soundproof wall panels
- Inspection door



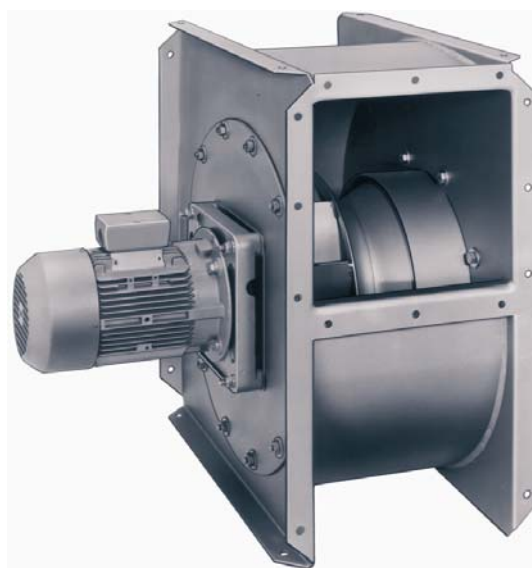
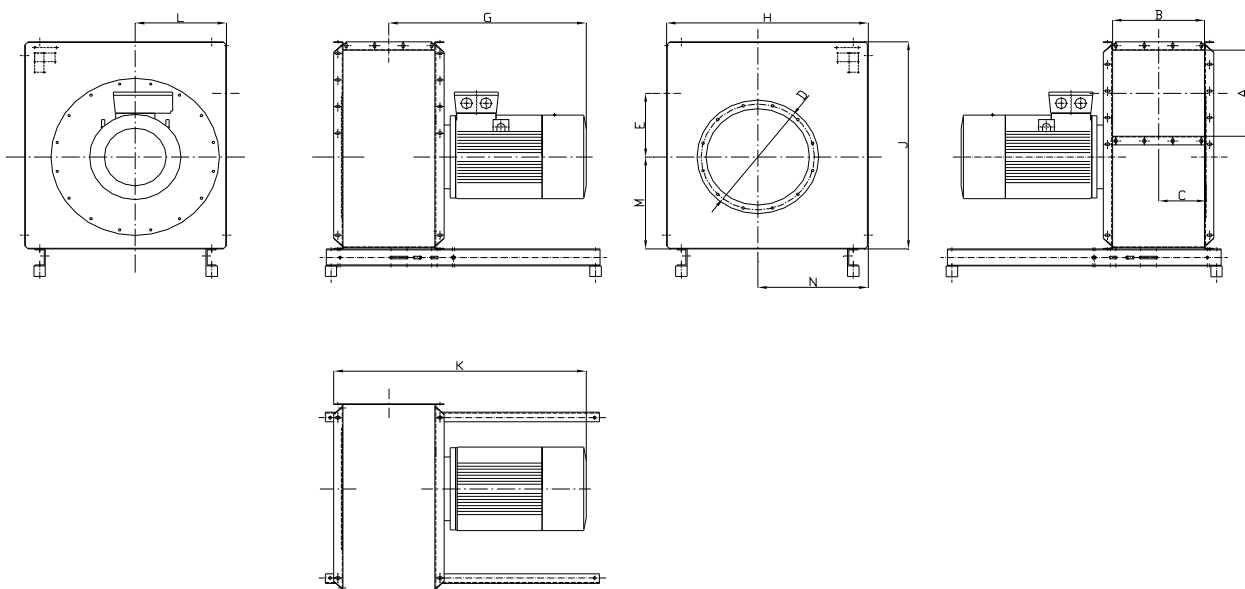
Type	A (mm)	B (mm)	C (mm)
WN 80	700	700	700
WN 100	920	920	920
WN 125	1170	1170	1170
WN 150	1420	1420	1420



## Section 8: Fans

### Direct Drive Fans (Made in Germany)

- Steel sheet housing and rotor
- Motor made by Siemens
- Air Flow: 4000 - 45000m<sup>3</sup>/h
- Pressure Drop: 1800 - 11200Pa
- Temperature resistant: +80°C - +300°C
- Explosion proof type on request



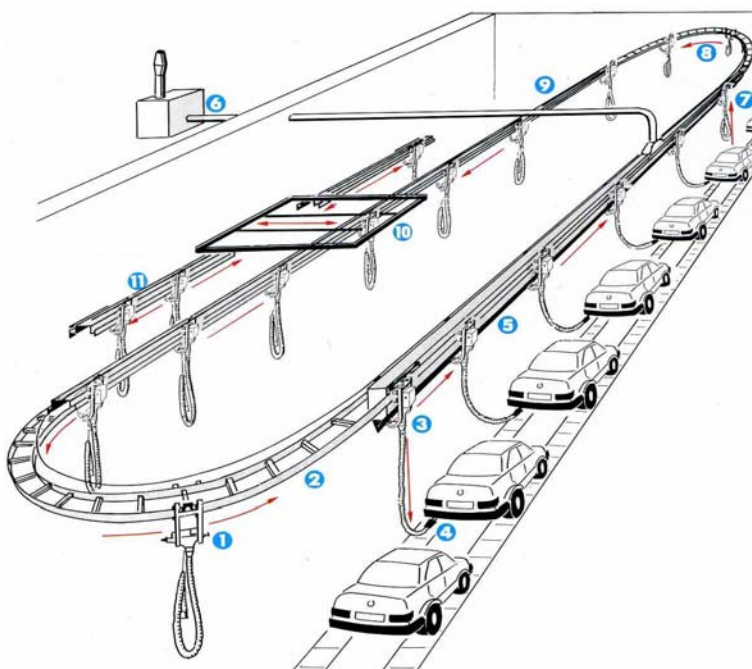
> Specific Data Sheet on Request



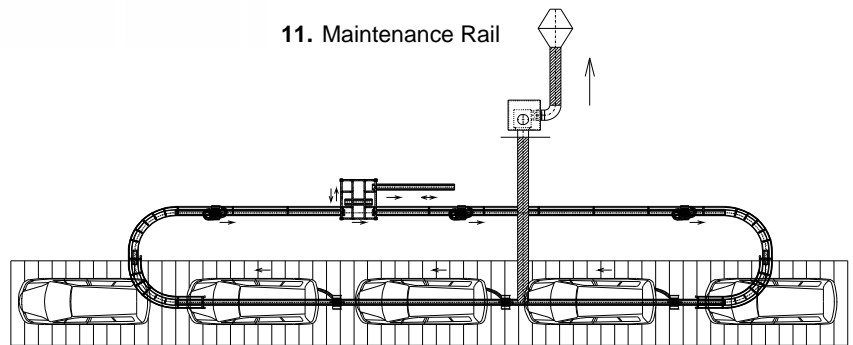
## Section 9

### Automatic Systems for Cars and Trucks

#### Full Automatic Exhaust Systems - **Loop Shape**



1. Calling a Hose Trolley
2. Return Rail Bend
3. Hose Trolley in Starting Position
4. Clamping Exhaust Nozzle to Exhaust Pipe
5. Aluminium Slotted Suction Duct
6. Suction Fan and Spiral Ducting
7. Automatic Release of the Exhaust Nozzle
8. Hose Trolley Returns
9. Return Rail
10. Shifter for Maintenance
11. Maintenance Rail

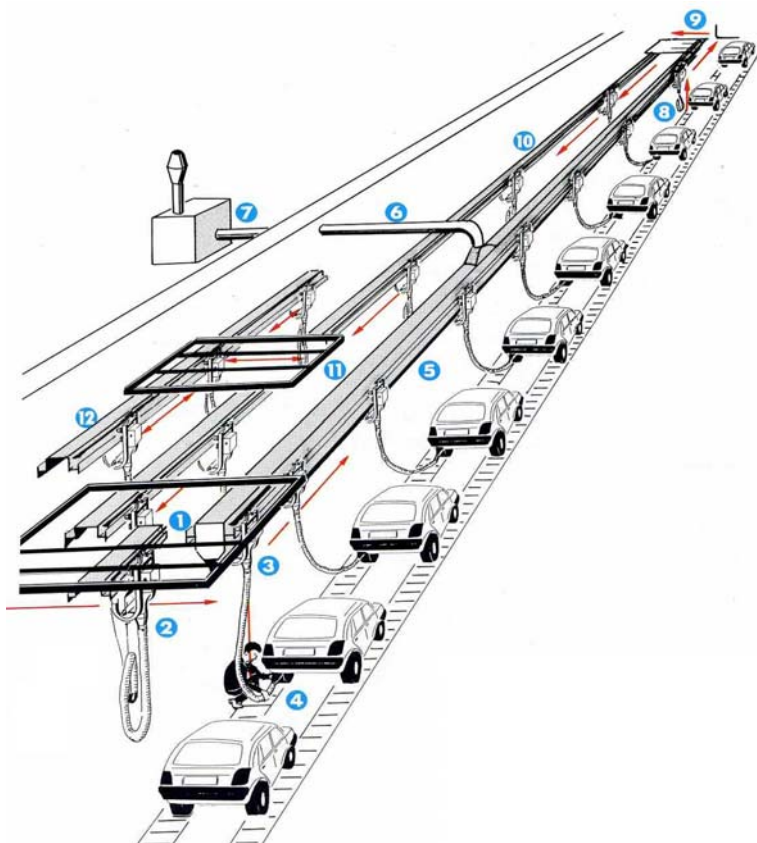


Exhaust Extraction System on a Final Assembly Line

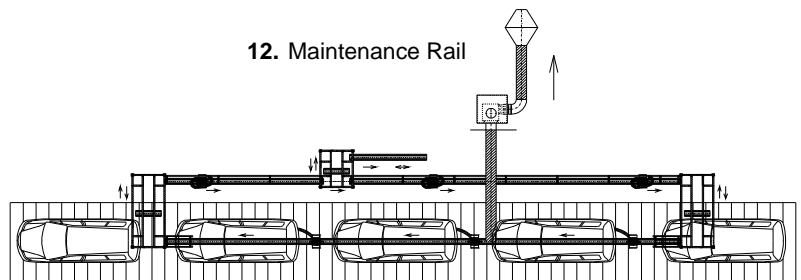
## Section 9

### Automatic Systems for Cars and Trucks

#### Full Automatic Exhaust Systems - **with Horizontal Shifters**



1. Entrance Shifter
2. Hose Trolley Automatically Transfer
3. Hose Trolley in Starting Position
4. Clamping Exhaust Nozzle
5. Aluminium Slotted Suction Channel
6. Spiral Duct
7. Suction Fan
8. Automatic Release of the Exhaust Nozzle
9. Shifter to the Return Rail
10. Return Rail
11. Shifter for Maintenance
12. Maintenance Rail



Full Automatic Shifter

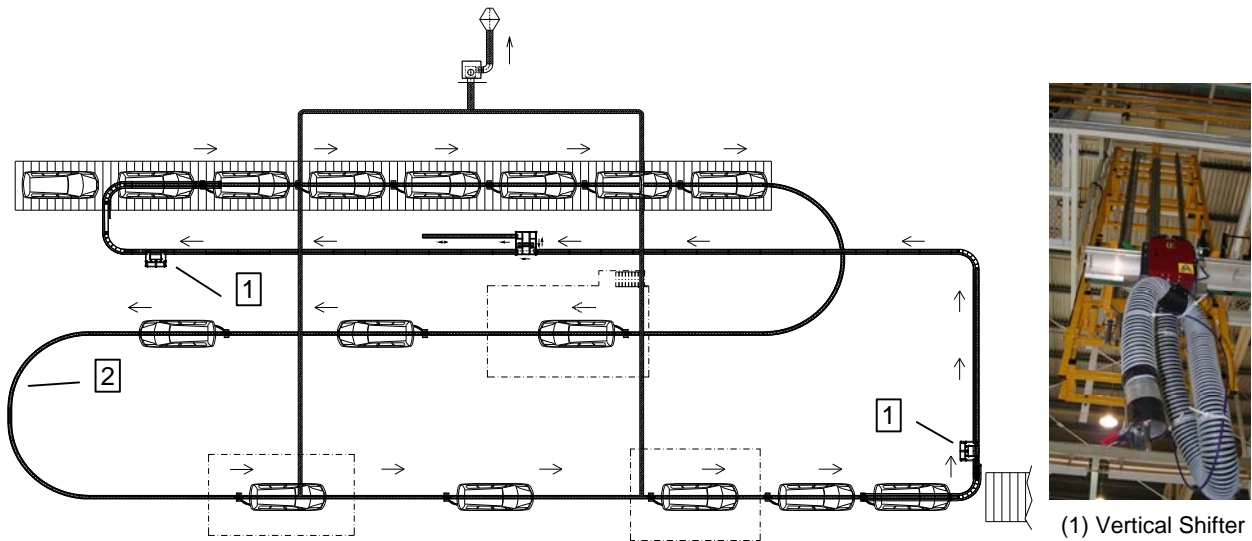


Automatic Hose Trolley with Drive Unit and Motorized Hose Lift

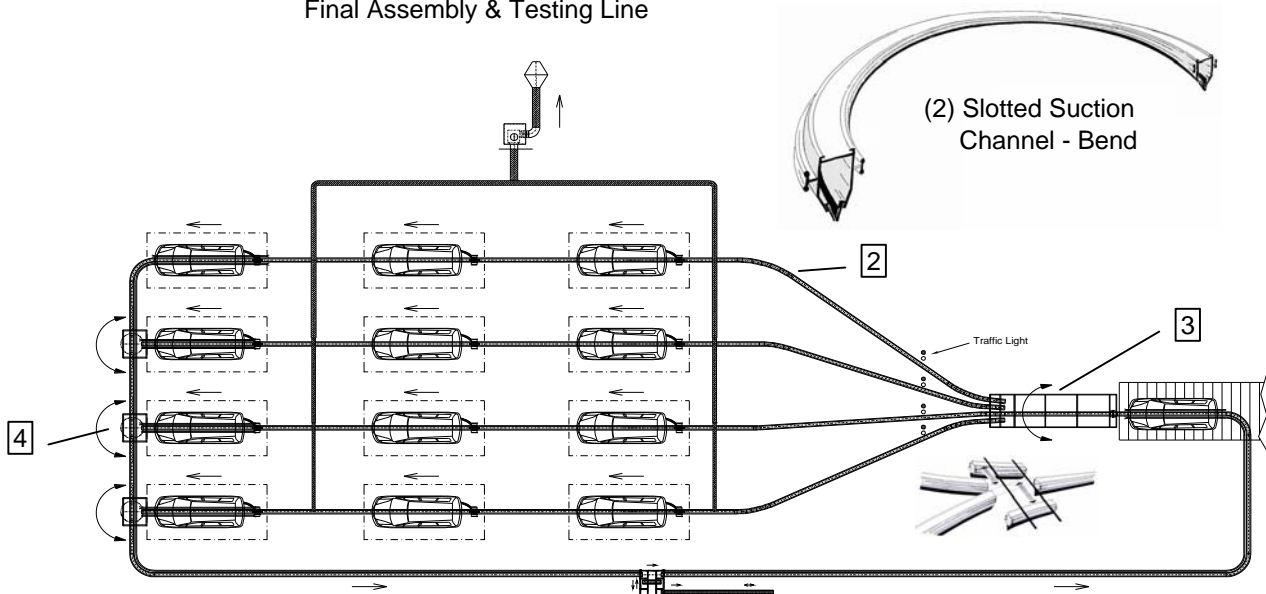
## Section 9

### Automatic Systems for Cars and Trucks

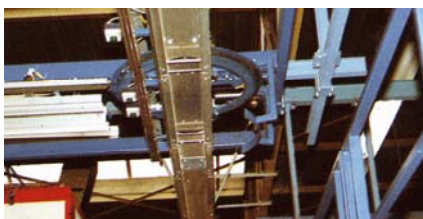
#### Full Automatic Exhaust Systems - **Customized**



#### Final Assembly & Testing Line



#### Final Assembly & 4 Testing Lines



(4) Turn Table

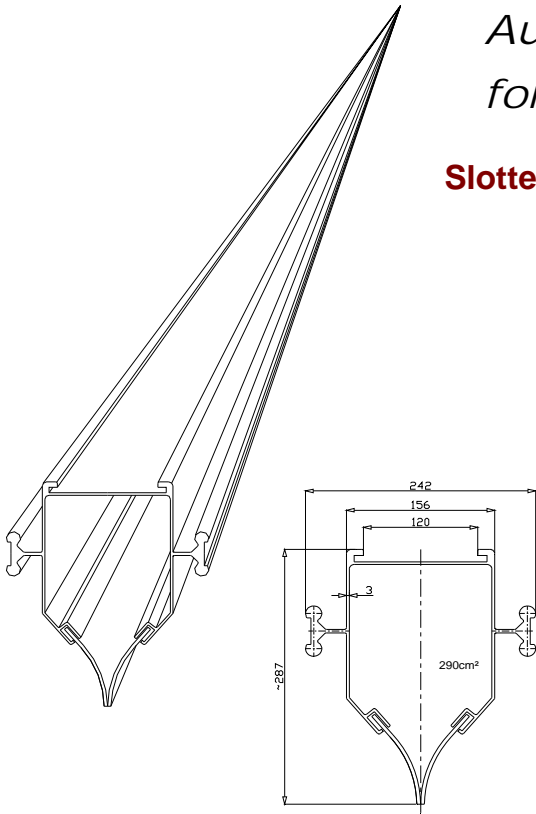


(3) 4 Tracks - Shifter

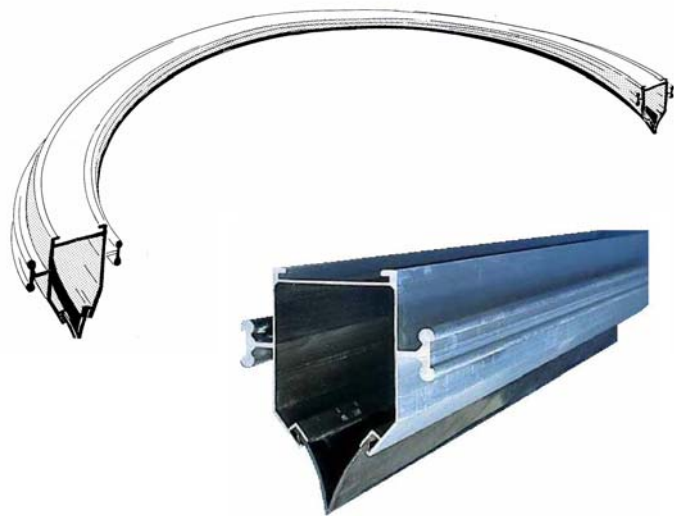
## Section 9

### *Automatic Systems for Cars and Trucks*

#### **Slotted Suction Channel**



Slotted Suction Channel  
made of extruded Aluminium  
with neoprene sealing lips.  
Any length available.  
Rated temperature up to +200°C  
Weight: ~13kg/m



Slotted Suction Channel - Bend  
Any Radius from 4,5m  
upwards available.



Slotted Suction Channel

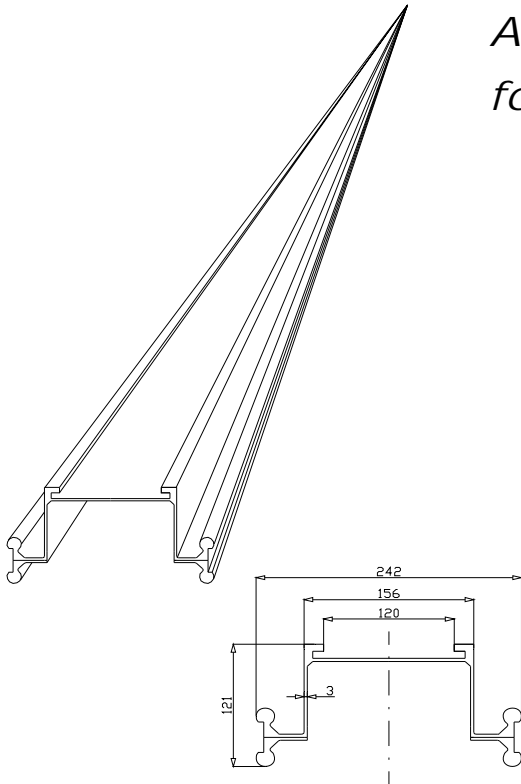


Slotted Suction Channel - Bend

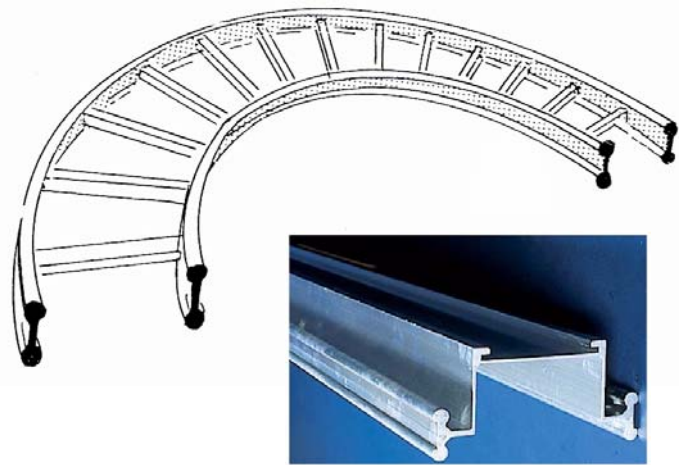
## Section 9

### *Automatic Systems for Cars and Trucks*

#### **Return Track**



Return Rail  
made of extruded Aluminium.  
Any length available.  
Weight: ~7,5kg/m



Return Rail - Bend  
Available radius: 1200 / 1500mm  
from 15° to 180°



Return Rail with Bus Bar

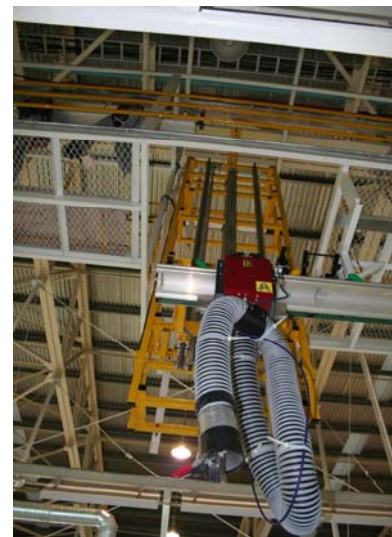
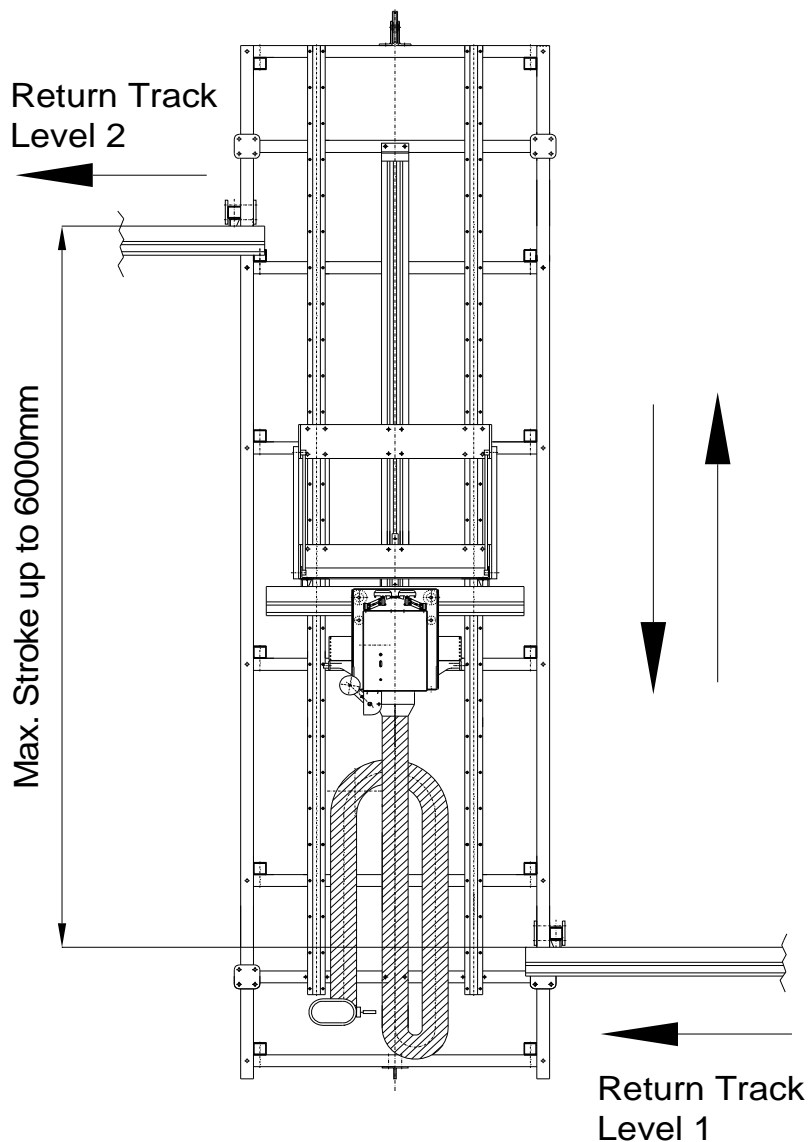


Return Rail - Bend with Bus Bar

## Section 9

### Automatic Systems for Cars and Trucks

#### Vertical Shifter



Full Automatic Vertical Shifter ensure the transfer of the hose trolleys between two return rails located at different levels.

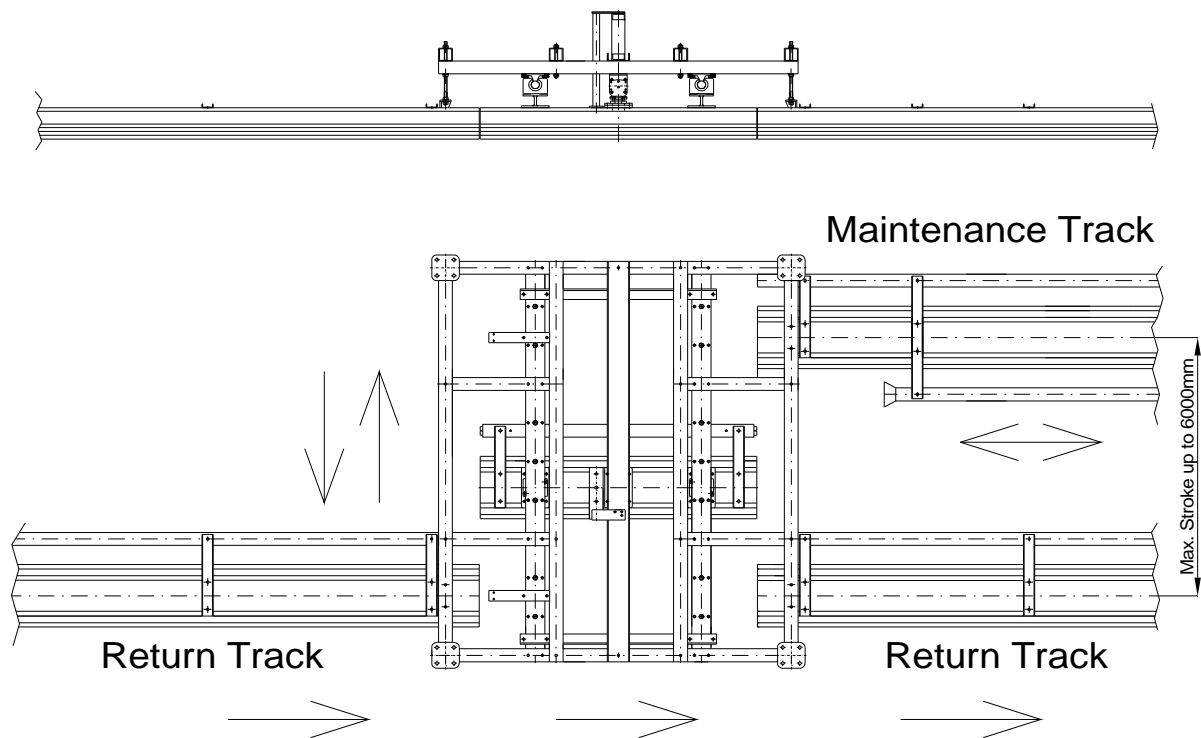
Facilitates an ergonomic installation into the automotive factories.

Maximum safety due to two-ways locks, limit switches and overload protection.

## Section 9

### *Automatic Systems for Cars and Trucks*

#### **Horizontal Shifter**



Full Automatic Horizontal Shifter ensure the transfer of the hose trolleys between two or more suction ducts and/or return rails installed parallel to each other.

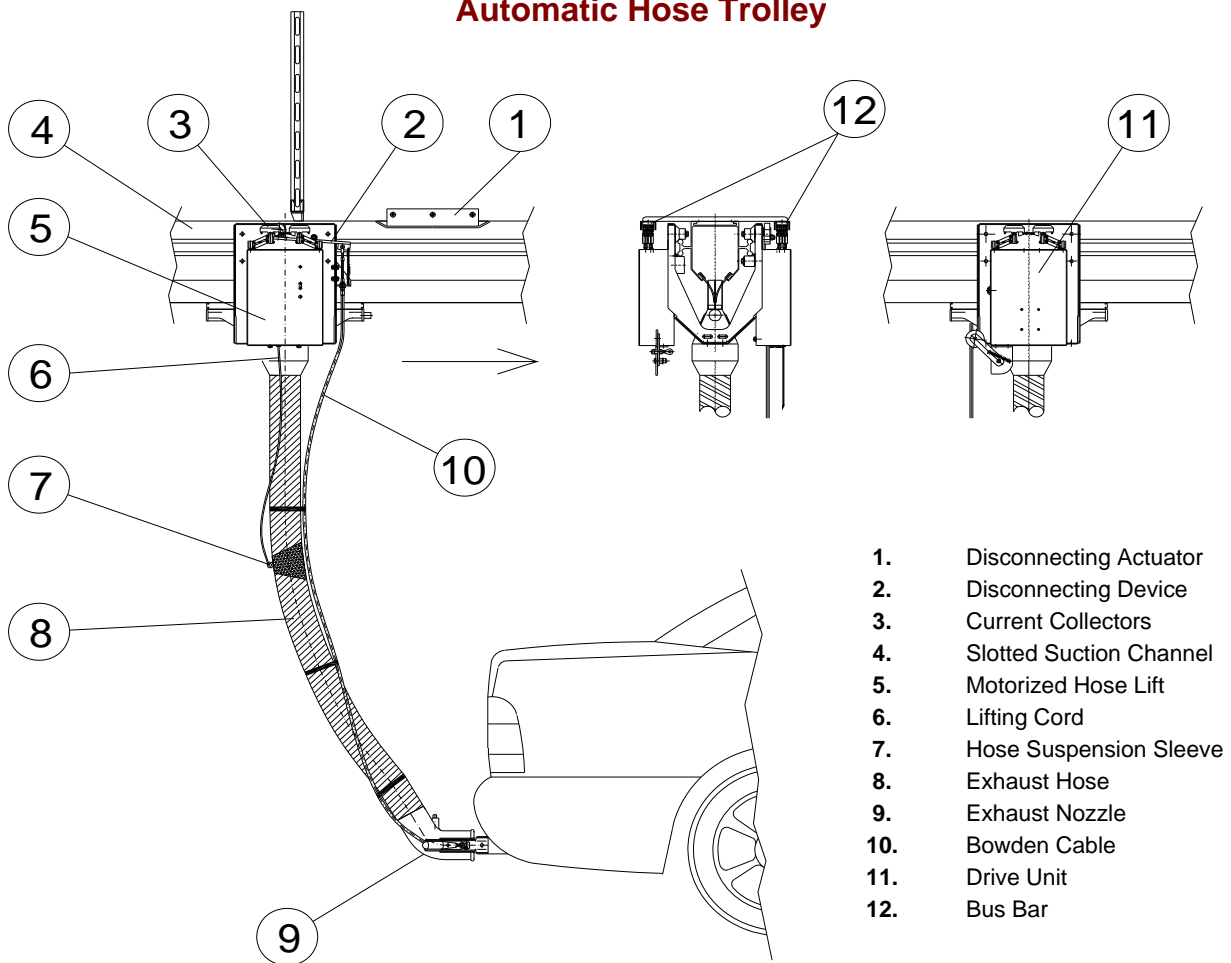
Maximum safety due to two-ways locks, limit switches and overload protection.



## Section 9

### Automatic Systems for Cars and Trucks

#### Automatic Hose Trolley

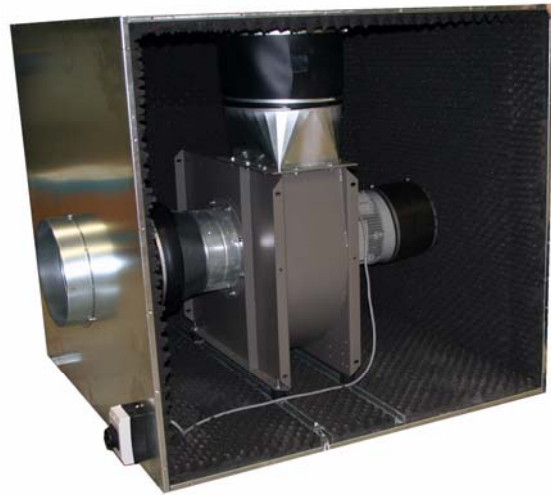




## Section 9

### *Automatic Systems for Cars and Trucks*

#### **Fan + Sound Absorbing Cabinet**



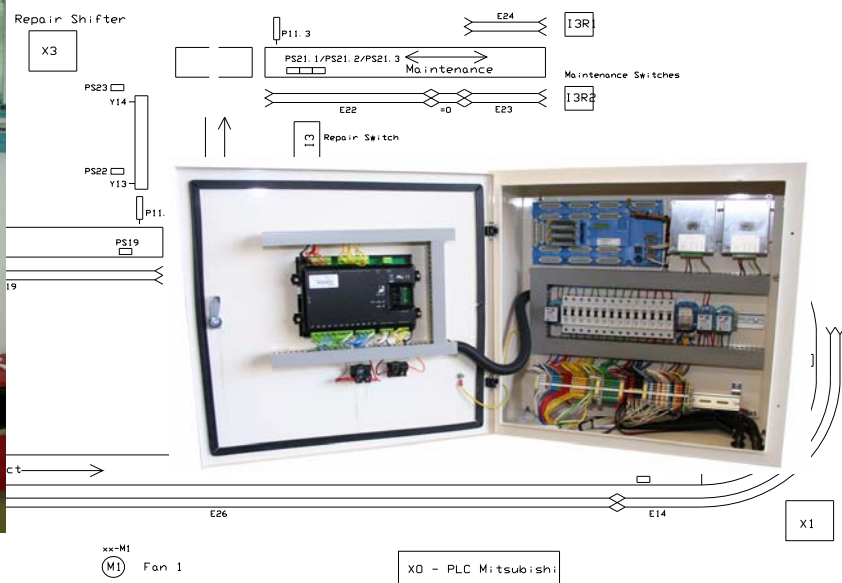
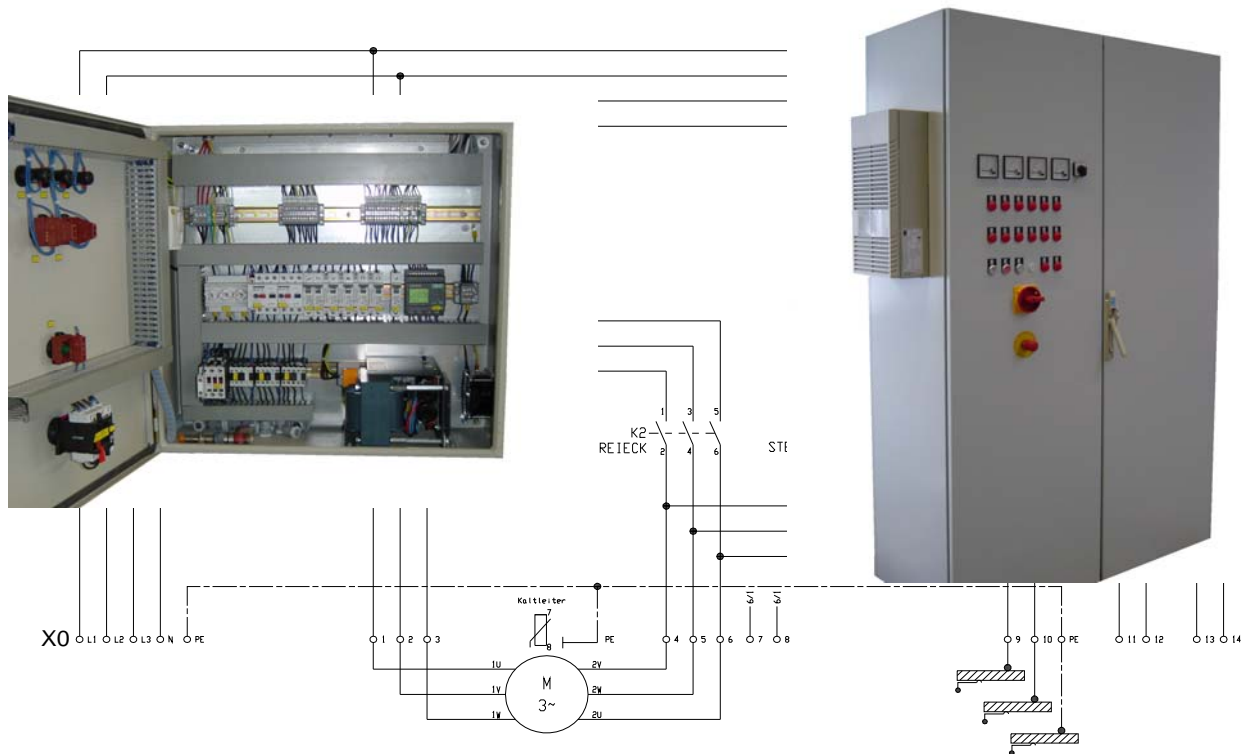
Air Flow: max. 45000m<sup>3</sup>/h  
Pressure Drop: max. 11200Pa  
Motor Power: up to 22kW  
Power Supply: 3~ 400V 50Hz  
3~ 220/460V 60Hz  
1~ 220V 60Hz



## Section 9

### Automatic Systems for Cars and Trucks

#### Controllers

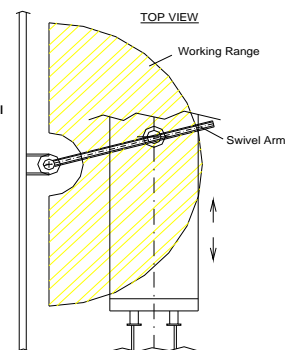
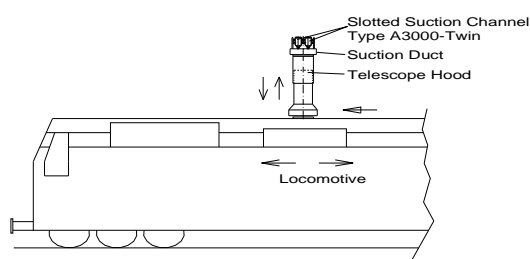
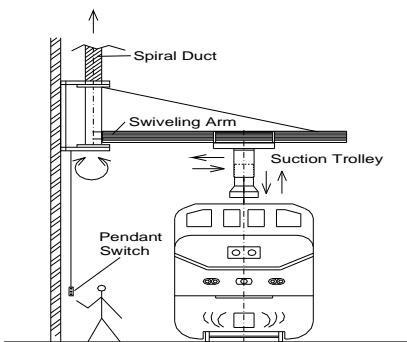


We design and manufacture the controllers according customer's demands and specifications.

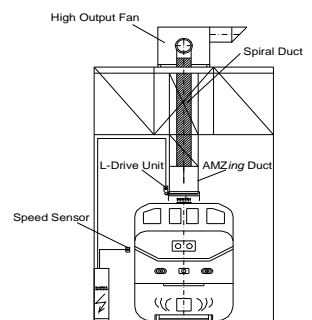
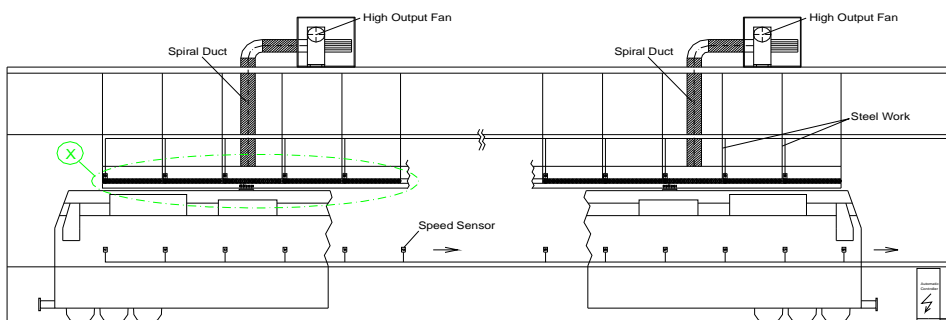
## Section 10

### Systems for Trains

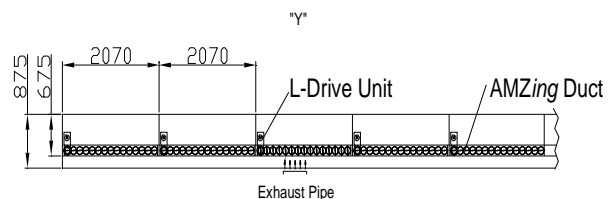
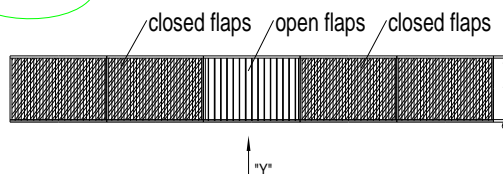
Customized - **\*Stationary\***



Customized - **\*Mobil - Full Automatic Type AMZing Duct\***



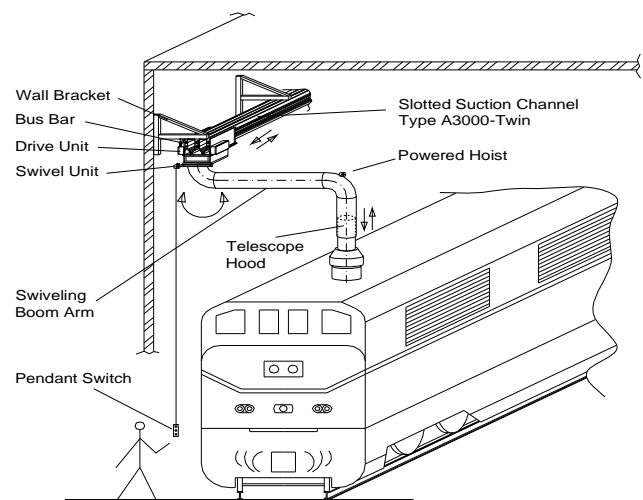
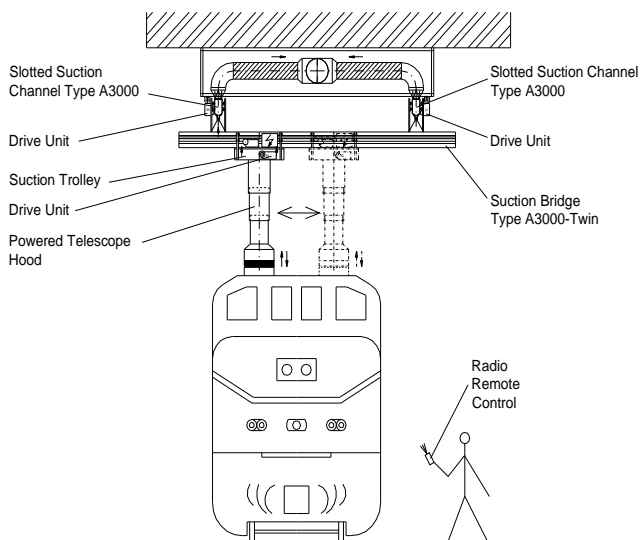
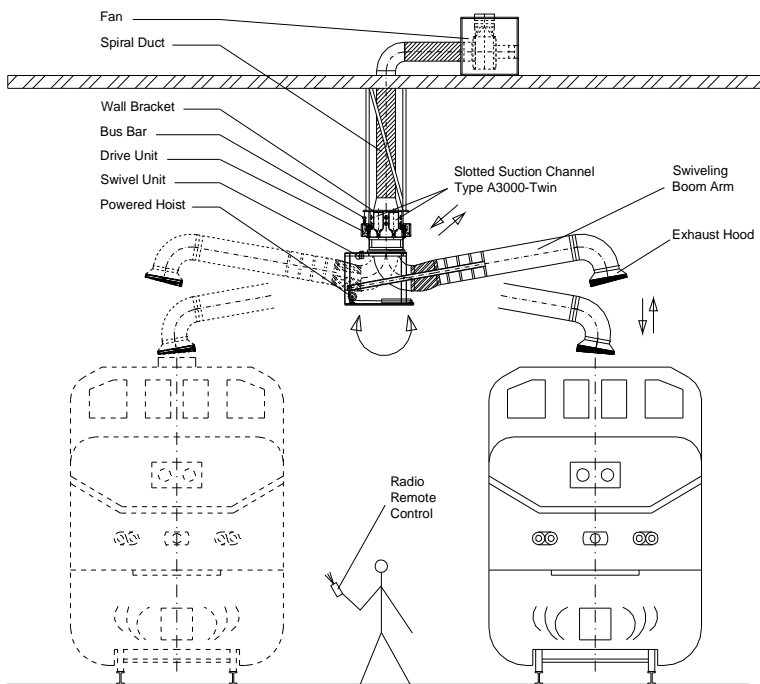
Detail "X"



# Section 10

## Systems for Trains

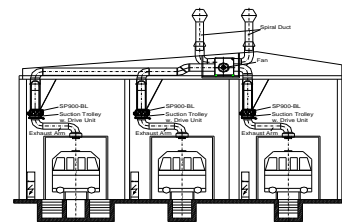
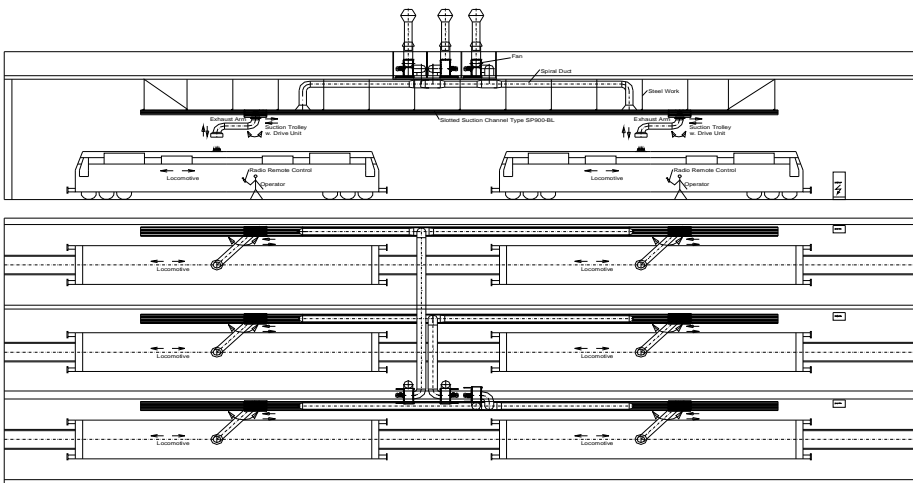
Customized - \*Mobil\*



## Section 10

### Systems for Trains

Customized - **\*Mobil\*** for a Locomotive Repair Shop with 3 Tracks



## *Section 10*

### *Systems for Trains*

Customized - **\*Various Applications\***

