A telescopic extraction trolley determines the type and position of the arriving vehicle and drives autonomously into the ideal extraction position. When the test cycle is completed, the telescope is automatically retracted into its home position — no manual operation required!

Test Stands

Full load — that applies to the exhaust extraction as well! Large exhaust volumes and high temperatures are typical for power test stations. NORFI solutions will provide for clean air even under these tough conditions — fully automatic!

Power Test Stands

NORFI in Test Stands

During the process of producing a vehicle, several adjustment and test procedures need to be carried out. These activities require a high level of accuracy and skills. By taking care of all necessary tasks related to the extraction of exhaust fumes, NORFI helps you to concentrate fully on the required work.

NORFI in Power Testing Stations

NORFI stands for over 30 years of competency in extraction technology. NORFI has a wide range of manufactured products and is staffed by experienced specialists.

NORFI provides extraction technology for every source of exhaust gas: from lawn-mowers to cars and trucks, from special vehicles to locomotives, from standard applications to special solutions.

Our standard begins where others end.

Cleaner Air - fully automatic!

NORFI's Expertise

Perfectly integrated

Always a Step Ahead

Cleaner Air - fully automatic!
The system adapts itself automatically to the vehicle type and its individual exhaust pipe version. The unique design avoids the risk of collisions.

Test Stands for Trucks - Automatic Extraction of Exhaust Gas and Engine Fumes

The contact-free extraction unit automatically detects the vehicle and will follow it synchronously - without being physically connected to it and without the need for a chain conveyor or similar means.

Underfloor Extractor

When not in use, the extractors are stored in the ground. As soon as a car enters the test stand, sensors will detect its position and activate the extraction system. The extractors are extended out of the pit and start removing the exhaust gas.

When the vehicle leaves the test stand, the extractors are automatically lowered into the pit, and the lids are closed. The lids protect the extraction system and allow vehicles to move freely above it.

Automatic extraction - safe and reliable!

Floor-mounted Extractor

Reliable removal of exhaust gas is achieved by means of a travelling extraction arm that is mounted at floor level beside the rear end of the test stand. The extraction arm is then automatically moved by the exhaust pipe and capture the exhaust gas. The extraction trolley synchronously follows the vehicle moving at precisely the same speed. There is no need for any handling by an operator. The extraction system automatically moves the extraction trolley in line with the vehicle. At the end of the extraction the extraction unit is automatically retracted and moved back to the start position via a separate return track.

Completely flexible - completely automatic.

Synchronously driven Extraction Trolley

Once the sensors detect a vehicle, the extraction trolley will drive with maximum speed towards it until a defined distance is reached. With the vehicle starting to move, the extraction trolley synchronously keeps the pre-set distance and maintains the speed of the car.

After driving the truck into the test stand, the driver chooses the truck type and the exhaust pipe version on the touch panel.

NORFI Solutions

NORFI has supplied the automotive industry with tailor-made exhaust extraction systems for more than 30 years.

NORFI in Production Lines

NORFI's engineers have developed solutions that are easily integrated into your production facility which removes the requirement for the workers to operate the extraction equipment.

For example, a contact-free exhaust extraction system can determine whether a vehicle is correctly located in the start position. The extraction arms are then automatically placed behind the exhaust pipe and capture the exhaust gas. The extraction trolley synchronously follows the vehicle moving at precisely the same speed. There is no need for any handling by an operator. The extraction system automatically moves the extraction trolley in line with the vehicle. At the end of the test cycle the extraction unit is automatically retracted and moves back to the start position via a separate return track.

Completely flexible - completely automatic.

Production line

Floor-mounted Extractor

When not in use, the extractors are stored in the ground. As soon as a car enters the test stand, sensors will detect its position and activate the extraction system. The extractors are extended out of the pit and start removing the exhaust gas.

When the vehicle leaves the test stand, the extractors are automatically lowered into the pit, and the lids are closed.

Automatic extraction - safe and reliable!

Floor-mounted Extractor

Reliable removal of exhaust gas is achieved by means of a travelling extraction arm that is mounted at floor level beside the rear end of the test stand. The extraction arm is then automatically moved by the exhaust pipe and capture the exhaust gas. The extraction trolley synchronously follows the vehicle moving at precisely the same speed. There is no need for any handling by an operator. The extraction system automatically moves the extraction trolley in line with the vehicle. At the end of the test cycle the extraction unit is automatically retracted and moves back to the start position via a separate return track.

Completely flexible - completely automatic.

Synchronously driven Extraction Trolley

Once the sensors detect a vehicle, the extraction trolley will drive with maximum speed towards it until a defined distance is reached. With the vehicle starting to move, the extraction trolley synchronously keeps the pre-set distance and maintains the speed of the car.

The extraction trolley is equipped with a freely programmable synchronous control, including distance control and speed speed control. An electric hose hoist unit and an extraction funnel for all types of vehicle add to the reliable functionality of the system, while collision protection elements and fire prevention measures assure the highest safety level.

Automatic Extraction of Exhaust Gas and Engine Fumes on Test Stands for Trucks

After driving the truck into the test stand, the driver chooses the truck type and the exhaust pipe version on the touch panel.

The automatic program starts. The support bars are lowered and the fan is started. NORFI's positioning-and-detection system is activated and moves the extraction portal towards the vehicle. The extraction head corresponding to the pre-set exhaust pipe version is enabled and extraction begins. At the same time, the fumes from the engine are extracted. At the end of the test cycle, the extraction head is automatically lifted and driven back to home position. The fan is switched off and the extraction system is ready for the next vehicle.
A telescopic extraction trolley determines type and position of the arriving vehicle and drives autonomously into the ideal extraction position. When the test cycle is completed, the telescope is automatically retracted into its home position — no manual operation required!

Test Stands

Full load — that applies to the exhaust extraction as well! Large exhaust volumes and high temperatures are typical for power test stations. NORFI’s solutions will provide for clean air even under these tough conditions — fully automatic!

Power Test Stands

NORFI in Power Testing Stations

Reliable exhaust extraction is essential for power testing. Exhaust temperatures of up to 550°C and large fume volumes pollute the operators’ environment. Automatic NORFI-systems are the answer to these challenges. Our systems position themselves automatically behind the exhaust pipe and remove hazardous fumes safely from the test stand. The flexible control system allows the extraction system to be controlled independently or by the main test stand controller.

NORFI’s systems are designed and materials selected specifically for the exacting test stand environment. NORFI-systems - reliably integrated!

During the process of producing a vehicle, several adjustment and test procedures need to be carried out. These activities require a high level of accuracy and skills. By taking care of all necessary matters related to the extraction of exhaust fumes, NORFI helps you to concentrate fully on the required work.

NORFI in Test Stands

Whether extraction telescopes, floor extraction flaps, extraction arms, or any of the many other possibilities: The extraction device is always moved automatically into the ideal position at the vehicle, and exhaust fumes are extracted in the best possible way. No matter which vehicle is currently in the test stand: A NORFI-system identifies the type of vehicle and all subsequent processes are managed automatically.

Cleaner Air - fully automatic!

NORFI stands for over 30 years of competency in extraction technology. NORFI has a wide range of manufactured products and is staffed by experienced specialists.

NORFI provides extraction technology for every source of exhaust gas: from lawn-mowers to cars and trucks, from special vehicles to locomotives, from standard applications to special solutions.

Our standard begins where others end.
The system adapts itself automatically to the vehicle type and its individual exhaust pipe version. The unique design avoids the risk of collisions.

Test Stands for Trucks - Automatic Extraction of Exhaust Gas and Engine Fumes

The contact-free extraction unit automatically detects the vehicle and will follow it synchronously - without being physically connected to it and without the need for a chain conveyor or similar means.

2 Underfloor Extractor

When not in use, the extractors are stored in the ground. As soon as a car enters the test stand, sensors will detect its position and activate the extraction system. The extractors are extended out of the pit and start removing the exhaust gas.

When the vehicle leaves the test stand, the extractors are automatically lowered into the pit, and the lids are closed. The lids protect the extraction system and allow vehicles to move freely above it.

Automatic extraction - safe and reliable!

Synchronously driven Extraction Trolley

Reliable removal of exhaust gas is achieved by means of a swivelling extraction arm that is mounted at floor level beside the main end of the test stand.

The extraction system is automatically initiated as the vehicle arrives on the test stand. This activation can either be achieved by a signal from the test stand control, or by using an optical control device. There is no need for any handling by an operator. The extractor rotates to the optimum position behind the vehicle exhaust gases are safely removed. At the end of the test cycle the extractor recovers to its home position and the test stand is ready for the next vehicle.

Completely flexible - completely automatic.

Synchronously driven Extraction Trolley (contact-free)

Once the sensors detect a vehicle, the extraction trolley will drive with maximum speed towards it until a defined distance is reached. With the vehicle starting to move, the trolley follows synchronously, while keeping the pre-set distance and maintaining the speed of the car.

The trolley extraction is equipped with a freely programmable synchronous control, including distance control and impact speed control. An electric hose hoist unit and an extraction funnel for all types of vehicles add to the reliable functionality of the system, while collision prevention elements and fire protection measures ensure the highest safety level.

3 Underfloor Extractor

When not in use, the extractors are stored in the ground. As soon as a car enters the test stand, sensors will detect its position and activate the extraction system. The extractors are extended out of the pit and start removing the exhaust gas.

When the vehicle leaves the test stand, the extractors are automatically lowered into the pit, and the lids are closed. The lids protect the extraction system and allow vehicles to move freely above it.

Automatic extraction - safe and reliable!

NORFI in Production Lines

NORFI's engineers have developed solutions that are easily integrated into your production facility which removes the requirement for the workers to operate the extraction equipment.

For example, a contact free extraction system can determine whether a vehicle is correctly located in the start position. The extractors are then automatically positioned at the rear of the vehicle. The extraction system is then able to safely remove the exhausted exhaust gas. The extractor then returns to its home position and the vehicle is ready for the next vehicle.

Underfloor Extractor

When not in use, the extractors are stored in the ground. As soon as a car enters the test stand, sensors will detect its position and activate the extraction system.

The extractors are extended out of the pit and the exhaust gas is safely removed. At the end of the test cycle the extractor returns to its home position and the test stand is ready for the next vehicle.

Completely flexible - completely automatic.

NORFI in Production Lines

NORFI has supported the automotive industry with tailor made exhaust extraction systems. With the latest technology, there are virtually no limits for the integration into your production system. NORFI solutions may be used for different types and models of extraction.

Underfloor Extractor

When not in use, the extractors are stored in the ground. As soon as a car enters the test stand, sensors will detect its position and activate the extraction system.

The extractors are extended out of the pit and the exhaust gas is safely removed. At the end of the test cycle the extractor returns to its home position and the test stand is ready for the next vehicle.

Completely flexible - completely automatic.

Vehicles in start up areas, test stands and trim lines. Fully automated NORFI systems will ensure a clean environment! Systems that do not require any manual operation.

- extraction elements that "know" which type of vehicle they extract from.

Underfloor Extractor

When not in use, the extractors are stored in the ground. As soon as a car enters the test stand, sensors will detect its position and activate the extraction system.

The extractors are extended out of the pit and the exhaust gas is safely removed. At the end of the test cycle the extractor returns to its home position and the test stand is ready for the next vehicle.

Completely flexible - completely automatic.

Automatic Extraction of Exhaust Gas and Engine Fumes on Test Stands for Trucks

After driving the truck into the test stand, the driver chooses the truck type and the exhaust pipe version on the touch panel.

The automatic program starts. The support bars are lowered and the fan is started. NORFI’s positioning-and-detection system is activated and moves the extraction portal towards the vehicle. When the portal is in place, the extraction unit is automatically activated and driven back to home position. The fan is switched off and the extraction system is ready for the next vehicle.
The system adapts itself automatically to the vehicle type and its individual exhaust pipe version. The unique design avoids the risk of collisions.

Test Stands for Trucks - Automatic Extraction of Exhaust Gas and Engine Fumes

The contact-free extraction unit automatically detects the vehicle and will follow it synchronously - without being physically connected to it and without the need for a chain conveyor or similar means.

Underfloor Extractor

When not in use, the extractors are stored in the ground. As soon as a car enters the test stand, sensors will detect its position and activate the extraction system. The extractors are extended out of the pit and start removing the exhaust gas.

When the vehicle leaves the test stand, the extractors are automatically lowered into the pit, and the lids are closed. The lids protect the extraction system and allow vehicles to move freely above it.

Automatic extraction - safe and reliable!

Floor-mounted Extractor

When not in use, the extractors are stored in the ground. As soon as a car enters the test stand, sensors will detect its position and activate the extraction system. The extractors are extended out of the pit and start removing the exhaust gas.

When the vehicle leaves the test stand, the extractors are automatically lowered into the pit, and the lids are closed. The lids protect the extraction system and allow vehicles to move freely above it.

Automatic extraction - safe and reliable!

Synchronously driven Extraction Trolley

Once the sensors detect a vehicle, the extraction trolley will drive with maximum speed towards it until a defined distance is reached. With the vehicle starting to move, the trolley follows synchronously while keeping the pre-set distance and maintaining the speed of the car.

The telescopic-trolley is equipped with a freely programmable synchronous control, including distance control and speed control. An electric hose hoist unit and an extraction funnel for all types of vehicles add to the reliable functionality of the system, while collision-protection elements and fall-prevention measures assure the highest safety level.

Completely flexible - completely automatic.
NORFI in Test Stands

During the process of producing a vehicle, several adjustment and test procedures need to be carried out. These activities require a high level of accuracy and skills. By taking care of all necessary tasks related to the extraction of exhaust fumes, NORFI helps you to concentrate fully on the required work.

Whether extraction telescopes, floor extraction flaps, extraction arms, or any of the many other possibilities: The extraction device is always moved automatically into the ideal position at the vehicle, and exhaust fumes are extracted in the best possible way. No matter which vehicle is currently located in the test stand: A NORFI system identifies the type of vehicle and all subsequent processes are managed automatically.

Clean Air - fully automatic!

NORFI in Power Testing Stations

Reliable exhaust extraction is essential for power testing. Exhaust temperatures of up to 550°C and large fume volumes pollute the operators’ environment. Automatic NORFI systems are the answer to these challenges. Our systems position themselves automatically behind the exhaust pipes and remove hazardous fumes safely from the test stand. The flexible control system allows the extraction system to be controlled independently or by the main test stand controller.

Systems are designed and materials selected specifically for the exacting test stand environment. NORFI systems - reliably integrated!

Cleaner Air - fully automatic!

NORFI stands for over 30 years of competency in extraction technology. NORFI has a wide range of manufactured products and is staffed by experienced specialists.

NORFI provides extraction technology for every source of exhaust gas: from lawn-mowers to cars and trucks, from special vehicles to locomotives, from standard applications to special solutions.

Our standard begins where others end.

Always a Step Ahead

The telescopic extraction trolley determines type and position of the arriving vehicle and drives autonomously into the ideal extraction position. When the test cycle is completed, the telescope is automatically retracted into its home position — no manual operation required!

Test Stands

Full load — that applies to the exhaust extraction as well! Large exhaust volumes and high temperatures are typical for power test stations. NORFI solutions will provide for clean air even under these tough conditions — fully automatic!

Power Test Stands

NORFI in Power Testing Stations

NORFI in Test Stands

NORFI's Expertise

Perfectly integrated

Solutions for:

- Cars
- Trucks
- Utility Vehicles
- Special Applications
- Diesel-Locomotives
- Industry
- Special Applications

NORFI Technology

NORFI's Expertise

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