Wire feeding with SupraFeed
With SupraFeed DINSE offers a new approach to low-friction feeding of welding wires. Instead of using liners, the filler material slides over the rolls. This opens up an entirely new dimension of uniform wire feeding – with a significantly reduced amount of maintenance required. SupraFeed can be integrated easily and flexibly into a variety of system setups.

The technology for top performance
DINSE’s PUSH-PUSH technology works with two fully decoupled drive units ensuring demand-actuated wire feeding to the FD 100 front drive. The speed controlled front-motor feeds the exact quantity of wire that is needed. The adjustable torque of the rear motor limits the feed force and prevents the filler wire from buckling in the torch set. The DINSE wire feed can handle cold and hot wire. The single drive can also be modified for TIG applications.

A range of connection options
The DINSE wire feeding system offers modular, adjustable connections for a number of applications, e.g. compressed air, cold wire, hot wire with water supply, and many others.

Wire feeding systems for welding applications
DINSE wire feeding systems offer a flexible concept for modern production processes for the welding and soldering of vehicle parts, skin-stringer joints in airplane construction and for plating turbines in shipbuilding.

Shipsbuilding
Automotive construction
Aircraft construction
"The perfect drive package!"
> precise wire feeding
> modern drive concept
> fully digitized process control
> detailed monitoring
> maximum production reliability

DINSE wire feeding –
The perfect interaction.

Different versions – one aim: perfect wire feeding.
DINSE’s PUSH-PUSH and SingleFeed systems offer the ideal solutions and can be combined perfectly with the innovative DINSE SupraFeed technology.

DINSE Technology applications –
On water, land and in the air.

DINSE wire feeding systems offer a flexible concept for modern production processes for the welding and soldering of vehicle parts, skin-stringer joints in airplane construction and for plating turbines in shipbuilding.

DINSE Technology applications –
On water, land and in the air.

DINSE wire feeding systems offer a flexible concept for modern production processes for the welding and soldering of vehicle parts, skin-stringer joints in airplane construction and for plating turbines in shipbuilding.

DINSE Technology applications –
On water, land and in the air.

DINSE wire feeding systems offer a flexible concept for modern production processes for the welding and soldering of vehicle parts, skin-stringer joints in airplane construction and for plating turbines in shipbuilding.

DINSE Technology applications –
On water, land and in the air.

DINSE wire feeding systems offer a flexible concept for modern production processes for the welding and soldering of vehicle parts, skin-stringer joints in airplane construction and for plating turbines in shipbuilding.

DINSE Technology applications –
On water, land and in the air.

DINSE wire feeding systems offer a flexible concept for modern production processes for the welding and soldering of vehicle parts, skin-stringer joints in airplane construction and for plating turbines in shipbuilding.

DINSE Technology applications –
On water, land and in the air.

DINSE wire feeding systems offer a flexible concept for modern production processes for the welding and soldering of vehicle parts, skin-stringer joints in airplane construction and for plating turbines in shipbuilding.

DINSE Technology applications –
On water, land and in the air.

DINSE wire feeding systems offer a flexible concept for modern production processes for the welding and soldering of vehicle parts, skin-stringer joints in airplane construction and for plating turbines in shipbuilding.

DINSE Technology applications –
On water, land and in the air.

DINSE wire feeding systems offer a flexible concept for modern production processes for the welding and soldering of vehicle parts, skin-stringer joints in airplane construction and for plating turbines in shipbuilding.

DINSE Technology applications –
On water, land and in the air.

DINSE wire feeding systems offer a flexible concept for modern production processes for the welding and soldering of vehicle parts, skin-stringer joints in airplane construction and for plating turbines in shipbuilding.

DINSE Technology applications –
On water, land and in the air.

DINSE wire feeding systems offer a flexible concept for modern production processes for the welding and soldering of vehicle parts, skin-stringer joints in airplane construction and for plating turbines in shipbuilding.

DINSE Technology applications –
On water, land and in the air.

DINSE wire feeding systems offer a flexible concept for modern production processes for the welding and soldering of vehicle parts, skin-stringer joints in airplane construction and for plating turbines in shipbuilding.

DINSE Technology applications –
On water, land and in the air.

DINSE wire feeding systems offer a flexible concept for modern production processes for the welding and soldering of vehicle parts, skin-stringer joints in airplane construction and for plating turbines in shipbuilding.
The strengths of the DINSE system

With this product innovation, DINSE delivers a lightweight wire feeding unit with a strong four roll drive that is easy to use. The integrated wire feeding sensor ensures precise wire positioning thanks to its exact measurement of distance. The wire feeding is permanently monitored during the welding process. A wire brake keeps the welding wire mechanically stable when the robot is moving and serves as an additional component to ensure reliability. This guarantees a consistent stick-out in any position for touch sensing.

DINSE Laser – The system for sophisticated processes.

Complicated component geometries, welding seams in visible areas and unique stability requirements demand the highest quality welding. This is where DINSE systems prove their value. Whether with cold or hot wire, the use of filler wire for laser welding and soldering provides key technological advantages.

DINSE control – Convenient operation and control.

The innovative control package featuring convenient touchscreen operation using the new color display regulates the entire hardware and software used in the DINSE system. The expanded process monitoring documents all relevant data.
Wire feeding systems for welding applications

DINSE wire feeding – The perfect interaction.

DINSE wire feeding systems offer a flexible concept for modern production processes for the welding and soldering of vehicle parts, for skin-stringer joints in airplane construction and for plating turbines in shipbuilding.

Wire feeding with SupraFeed

With SupraFeed DINSE offers a new approach to low-friction feeding of welding wires. Instead of using liners, the filler material slides over the rolls. This opens up an entirely new dimension of uniform wire feeding — with a significantly reduced amount of maintenance required. SupraFeed can be integrated easily and flexibly into a variety of system setups.

Wire units from S – XXL

DINSE wire feeding systems are flexibly adaptable to a variety of spool holders, large spools and wire drums.

The technology for top performance

PUSH-PUSH technology works with two fully decoupled drive units ensuring demand-actuated wire feeding to the FD 100 front drive. The speed controlled front motor feeds the exact quantity of wire that is needed. The adjustable torque of the rear motor limits the feed force and prevents the filler wire from buckling in the torch set. The DINSE wire feed can handle cold and hot wire. The single drive can also be modified for TIG applications.

A range of connection options

The DINSE wire feeding system offers modular, adjustable connections for a number of applications, e.g. compressed air, cold wire, hot wire with water supply and many others.

DINSE – System innovations.

Tried, tested and proven in production

Whether for high stiffness in the chassis, clean seams in visible areas or for especially durable welding seams – DINSE technology meets the strictest requirements found in automated production.

° cold and hot wire applications
° welding and brazing
° TIG- and laser applications with filler wire
° coating with the aid of various beam sources
° rapid prototyping processes
° manufacturing of new alloys
° injection of smelts

° precision wire feeding
° modern drive concept
° fully digitalized process control
° detailed monitoring
° maximum production reliability

DINSE Technology applications – On water, land and in the air.

DINSE wire feeding systems offer a flexible concept for modern production processes for the welding and soldering of vehicle parts, for skin-stringer joints in airplane construction and for plating turbines in shipbuilding.

Different versions – one aim: perfect wire feeding

DINSE’s PUSH-PUSH and SingleFeed systems offer ideal solutions and can be combined perfectly with the innovative DINSE SupraFeed technology.

© DINSE Technology AG

SupraFeed

®

DIX WD 300
Spool holder

DIX WD 300A
Spool holder

DIX WD 500
Wire feeder

DIX WD 500A
Wire feeder

DIX WDS 300
Wire conduit

DIX WDS 500
Wire conduit

DIX WDS 500A
Wire conduit

DIX FD 100 AS-CW
DIX FD 100 CS-CW
DIX FD 100 AS
DIX FD 100 CS
SupraFeed direct

Shipbuilding

Automotive construction

Aircraft construction

DINSE Inc. 7800 Blue Drive, Wood Dale, IL 60191 USA · Phone: (630) 429-4711 · Fax: (630) 429-6287 · sales@dinese-us.com · www.dinese-us.com

The perfect drive package!
The strengths of the DINSE system
With this product innovation, DINSE delivers a lightweight wire feeding unit with a strong four roll drive that is easy to use. The integrated wire feeding sensor ensures precise wire positioning thanks to its exact measurement of distance. The wire feeding is permanently monitored during the welding process.

A wire brake keeps the welding wire mechanically stable when the robot is moving and serves as an additional component to ensure reliability. This guarantees a consistent stick-out in any position for touch sensing.

DINSE Laser – The system for sophisticated processes.
Complicated component geometries, welding seams in visible areas and unique stability requirements demand the highest quality welding. This is where DINSE systems prove their value. Whether with cold or hot wire: the use of filler wire for laser welding and soldering provides key technological advantages.

DINSE control – Convenient operation and control.
The innovative control package featuring convenient touchscreen operation using the new color display regulates the entire hardware and software used in the DINSE system. The expanded process monitoring documents all relevant data.

Precise cone contact – for safe, sustained welding.
When performing stationary or mobile welding, every movement of the hand counts. This is where the original DINSE connector proves its value. Just plug it together, tighten with a quick twist of the wrist and the connection is perfect. DINSE connectors and sockets are simple, safe, rugged and long-lasting and they provide optimal supply of current.

DINSE Laser System
- wire feeding
- front drive
- connection set
- PUSH/PUSH auxiliary drive
- control
- wire feed (drum, spool etc.)

DINSE control – Convenient operation and control.
The innovative control package featuring convenient touchscreen operation using the new color display regulates the entire hardware and software used in the DINSE system. The expanded process monitoring documents all relevant data.

DINSE Laser – The system for sophisticated processes.
Complicated component geometries, welding seams in visible areas and unique stability requirements demand the highest quality welding. This is where DINSE systems prove their value. Whether with cold or hot wire: the use of filler wire for laser welding and soldering provides key technological advantages.

Perfection in process control
- all parameters are freely programmable (e.g. exact volume of filler wire, gas flow time, tolerance window)
- monitoring of wire feed, gas and water with connectible sensors
- expanded process documentation of the output and consumption data for component monitoring
- absolute transparency thanks to continuous motor monitoring, warnings and error protocols that can be exported to an SD card
- external PC monitoring with freely selectable parameters can be used with an online display
- all standard port connections available

Integrated diagnostics
Both the hardware and software are continuously monitored and compared to the target values by the DINSE diagnostic tool. This allows irregularities to be identified quickly and potential sources of error to be eliminated in advance.
The strengths of the DINSE system
With this product innovation, DINSE delivers a lightweight wire feeding unit with a strong four roll drive that is easy to use. The integrated wire feeding sensor ensures precise wire positioning thanks to its exact measurement of distance. The wire feeding is permanently monitored during the welding process. A wire brake keeps the welding wire mechanically stable when the robot is moving and serves as an additional component to ensure reliability. This guarantees a consistent stick-out in any position for touch sensing.

DINSE Laser – The system for sophisticated processes.
Complicated component geometries, welding seams in visible areas and unique stability requirements demand the highest quality welding. This is where DINSE systems prove their value. Whether with cold or hot wire: the use of filler wire for laser welding and soldering provides key technological advantages.

DINSE control – Convenient operation and control.
The innovative control package featuring convenient touchscreen operation using the new color display regulates the entire hardware and software used in the DINSE system. The expanded process monitoring documents all relevant data.

Precise cone contact – for safe, sustained welding. When performing stationary or mobile welding, every movement of the hand counts. This is where the original DINSE connector proves its value. Just plug it together, tighten with a quick twist of the wrist and the connection is perfect. DINSE connectors and sockets are simple, safe, rugged and long-lasting and they provide optimal supply of current.

Flexibility that meets the highest demands
- optimal material alloy
- prevention of hot cracks during aluminum welding
- reduced process temperatures
- excellent tolerance compatibility

Convenient touchscreen operation
The microprocessor-based controls are even more intuitive and convenient to use thanks to the new color display. Optimized functions and a clear overview of all relevant data allow all production parameters to be programmed and processed easily.

Integrated diagnosis
Both the hardware and software are continuously monitored and compared to the target values by the DINSE diagnostic tool. This allows irregularities to be identified quickly and potential sources of error to be eliminated in advance.

Perfection in process control
- all parameters are freely programmable (e.g. exact volume of filler wire, gas flow time, tolerance window)
- monitoring of wire feed, gas and water with connectible sensors
- expanded process documentation of the output and consumption data for component monitoring
- absolute transparency thanks to continuous motor monitoring, warnings and error protocols that can be exported to an SD card
- external PC monitoring with freely selectable parameters can be used with an online display
- all standard port connections available
Wire feeding with SupraFeed

With SupraFeed DINSE offers a new approach to low-friction feeding of welding wires. Instead of using liners, the filler material slides over the rolls. This opens up an entirely new dimension of uniform wire feeding – with a significantly reduced amount of maintenance required. SupraFeed can be integrated easily and flexibly into a variety of system setups.

The technology for top performance

DINSE PUSH technology works with two fully decoupled drive units ensuring demand-actuated wire feeding to the FD 100 front drive. The speed controlled front-motor feeds the exact quantity of wire that is needed. The adjustable torque of the rear motor limits the feed force and prevents the filler wire from buckling in the torch set. The DINSE wire feed can handle cold and hot wire. The single drive can also be modified for TIG applications.

A range of connection options

The DINSE wire feeding system offers modular, adjustable connectors for a number of applications, e.g. compressed air, cold wire, hot wire with water supply and many others.

DINSE Technology applications – On water, land and in the air.

DINSE’s PUSH-PUSH and SingleFeed systems offer a flexible concept for modern production processes for the welding and soldering of vehicle parts, for skin-stringer joints in airplane construction and for plating turbines in shipbuilding.