



# fischer DUOPOWER



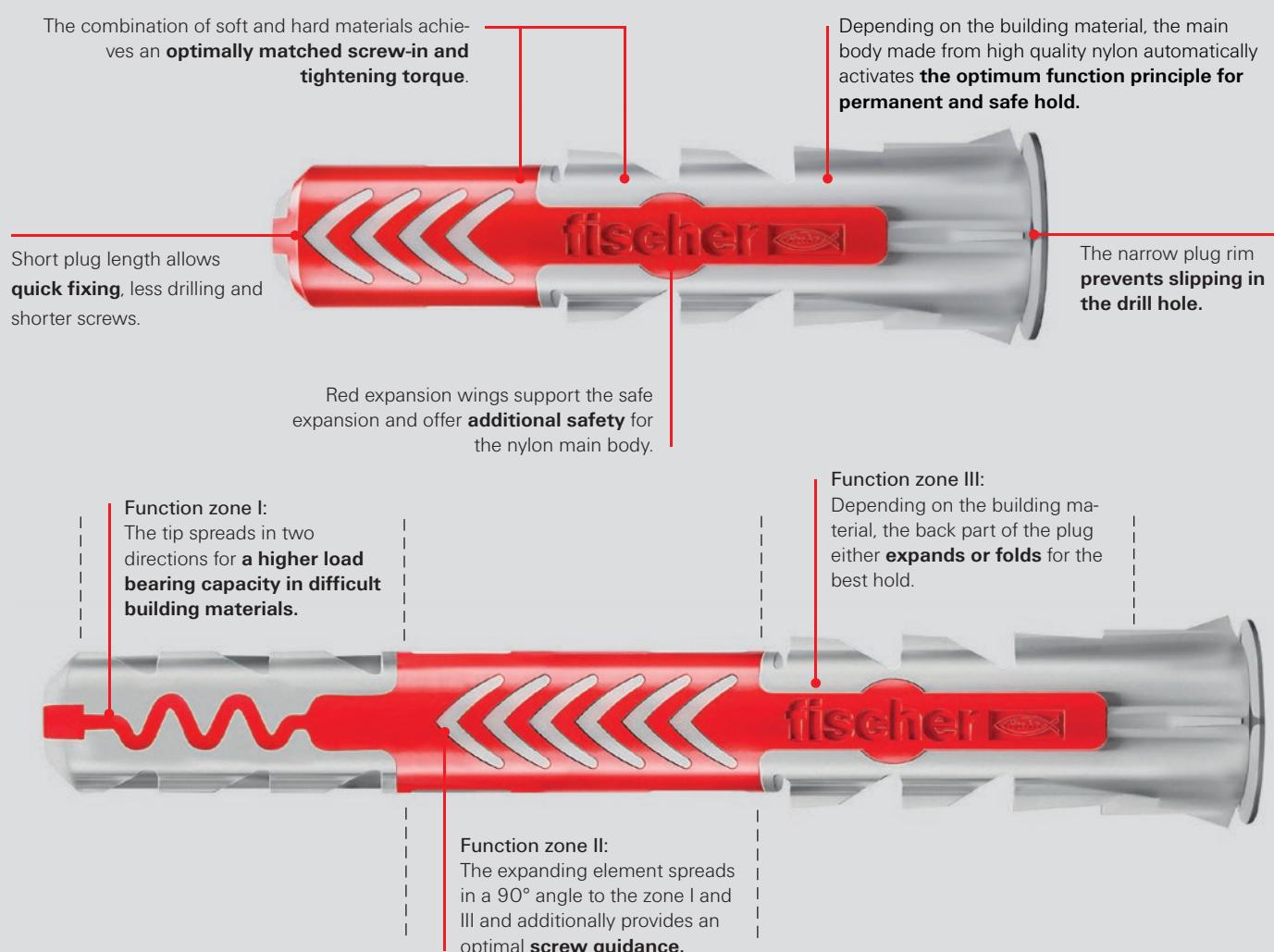
The Duo of power and intelligence.



**fischer**®  
innovative solutions

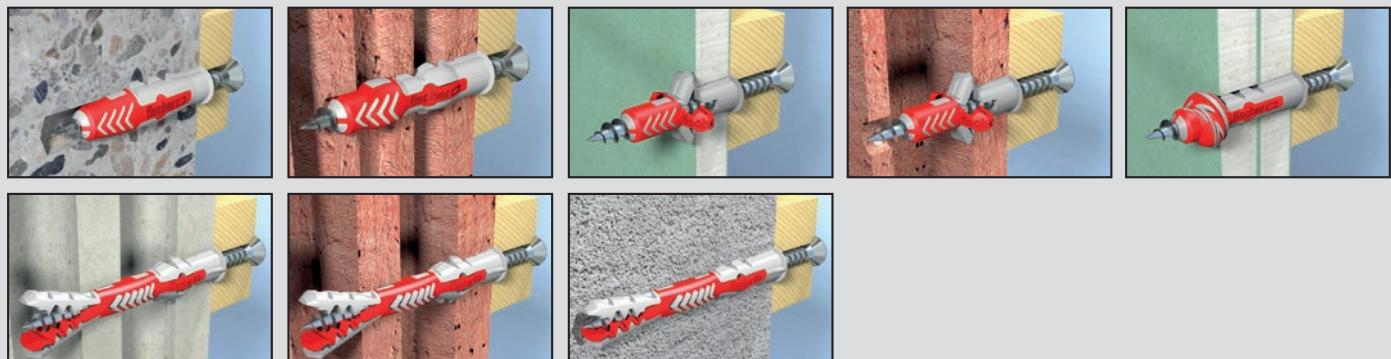
# fischer DUOPOWER.

## Simply clever, the combination of 2 components for 3 functions.



### Your benefits at a glance

- Two material components for even more expansion volume and the best load values in solid and hollow building materials.
- Intelligent, self-activating functions (expansion, folding, knotting) depending on the substrate. For a wide range of applications.
- Best possible feedback (feelgood factor) from the plug. You can feel when the plug is installed perfectly.
- No annoying plug rotation during installation, thanks to the serrated anti-rotation feature.
- The smooth-running opening allows the simple positioning of the screw and the secure guiding and fixing in the screw channel.
- The long versions with additional bite in problematic substrates.

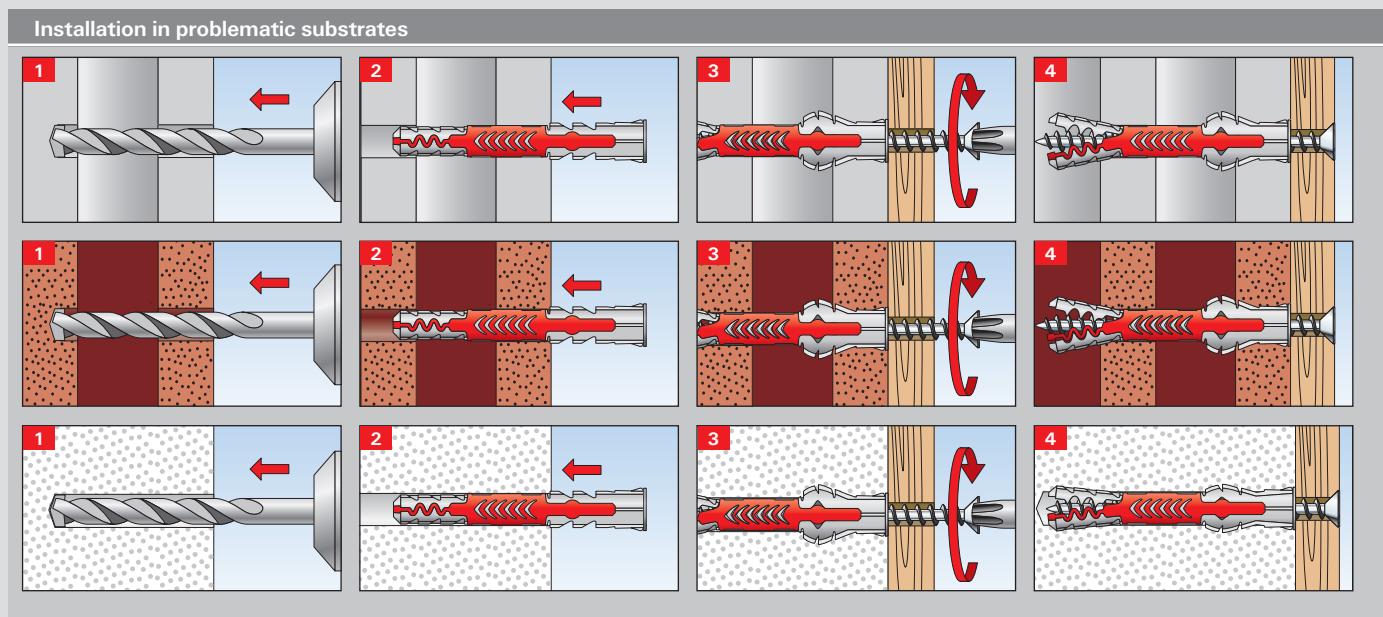
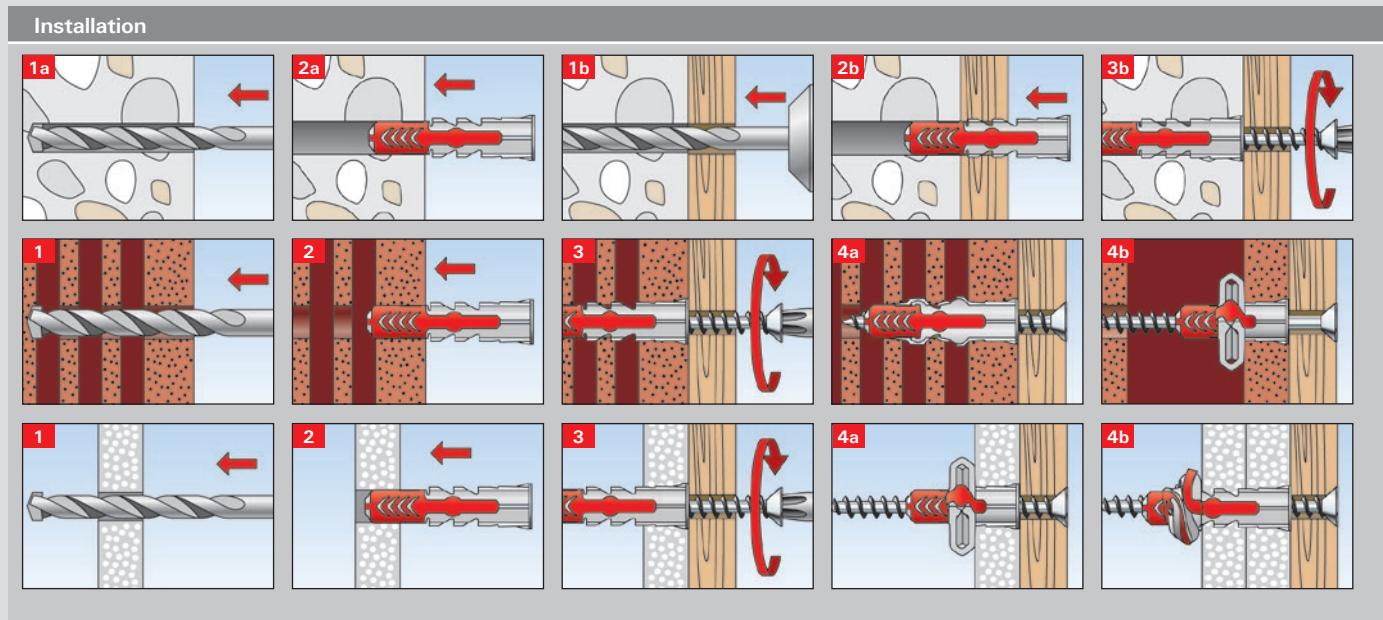


# fischer DUOPOWER.

## For the simplest and safe installation into innumerable building materials.

### Function.

- The duo of 2-component material ensures high material displacement, thereby facilitating higher loads. Depending on the building material, the plug activates the optimum function principle (expansion, folding, knotting) for the best hold.
- The DUOPOWER is suitable for pre-positioned and push-through installation.
- Suitable for wood, chipboard and stud screws. Screw length = plug length + fixture thickness + 1x screw diameter.
- In the case of board building materials, the threadless part of the screw cannot be longer than the fixture.
- The greater anchorage depth of the DUOPOWER 6x50, 8x65 and 10x80 means that the plug is especially suited to fixings in hollow building materials, aerated concrete and to bridge plaster.



# Test marks, recommendation and applications.

## Test marks



Focus Open 2016  
Internationaler Designpreis  
Baden-Württemberg



## Recommendation



- Suitable for: concrete, solid brick, solid sand-lime brick, aircrete, vertically perforated brick, perforated sand-lime brick, plasterboard, gypsum plasterboard and gypsum fibreboard, hollow block made from lightweight concrete, cavity floor slabs made from brick, prestressed hollow-core concrete floor slab and similar, natural stone, chipboard, gypsum boards, lightweight concrete solid brick.

## Applications



TV wall bracket



Wall cupboards



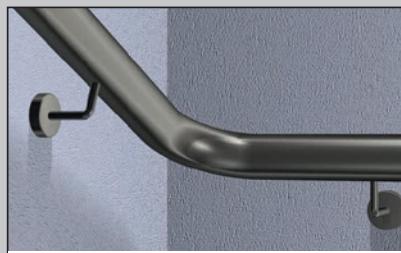
Cable system lights



Window blinds



Pictures



Hand rails



Shower cubicles



Wall cabinets

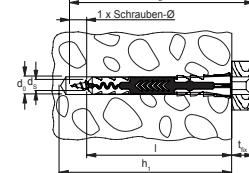
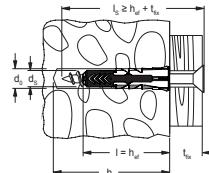
# Assortment and loads.



DUOPOWER



DUOPOWER with greater anchorage depth



| Item description | Item no. | without screw | with screw | Drill bit -nominal-Ø<br>$d_0$ | min. drill hole depth<br>$h_i$<br>[mm] | min. panel thickness<br>$d_p$<br>[mm] | Plug length<br>$l$<br>[mm] | Chipboard/wooden screws<br>$d_s / d_s \times l_s$<br>[mm] | max. fixture thickness<br>$t_{fix}$<br>[mm] | Sales unit |
|------------------|----------|---------------|------------|-------------------------------|--|---------------------------------------|----------------------------|---|---|------------|
|                  | Item no. |               |            |                               |  |                                       |                            |   |   | Units      |
| DUOPOWER 5x25    | 555005   | -             |            | 5                             | 35                                     | 12,5                                  | 25                         | 3 - 4   | -   | 100        |
| DUOPOWER 5x25 S  | -        | 555105        |            | 5                             | 35                                     | 12,5                                  | 25                         | 4 x 35  | 6   | 50         |
| DUOPOWER 6x30    | 555006   | -             |            | 6                             | 40                                     | 12,5                                  | 30                         | 4 - 5   | -   | 100        |
| DUOPOWER 6x30 S  | -        | 555106        |            | 6                             | 40                                     | 12,5                                  | 30                         | 4,5 x 40  | 5   | 50         |
| DUOPOWER 6x50    | 538240   | -             |            | 6                             | 60                                     | 12,5                                  | 50                         | 4 - 5   | -   | 100        |
| DUOPOWER 6x50 S  | -        | 538245        |            | 6                             | 75                                     | 12,5                                  | 50                         | 4,5 x 70  | 15  | 50         |
| DUOPOWER 8x40    | 555008   | -             |            | 8                             | 50                                     | 12,5                                  | 40                         | 4,5 - 6   | -   | 100        |
| DUOPOWER 8x40 S  | -        | 555108        |            | 8                             | 60                                     | 12,5                                  | 40                         | 5 x 60  | 15  | 50         |
| DUOPOWER 8x65    | 538241   | -             |            | 8                             | 75                                     | 2 x 12,5                              | 65                         | 4,5 - 6   | -   | 50         |
| DUOPOWER 8x65 S  | -        | 538246        |            | 8                             | 85                                     | 2 x 12,5                              | 65                         | 5 x 80  | 10  | 25         |
| DUOPOWER 10x50   | 555010   | -             |            | 10                            | 60                                     | -                                     | 50                         | 6 - 8   | -   | 50         |
| DUOPOWER 10x50 S | -        | 555110        |            | 10                            | 70                                     | -                                     | 50                         | 7 x 70  | 13  | 25         |
| DUOPOWER 10x80   | 538242   | -             |            | 10                            | 90                                     | -                                     | 80                         | 6 - 8   | -   | 25         |
| DUOPOWER 10x80 S | -        | 538247        |            | 10                            | 112                                    | -                                     | 80                         | 7 x 107   | 20  | 10         |
| DUOPOWER 12x60   | 538243   | -             |            | 12                            | 70                                     | -                                     | 60                         | 8 - 10  | -   | 25         |
| DUOPOWER 12x60 S | -        | 538248        |            | 12                            | 85                                     | -                                     | 60                         | 8 x 80  | 12  | 10         |
| DUOPOWER 14x70   | 538244   | -             |            | 14                            | 80                                     | -                                     | 70                         | 10 - 12   | -   | 25         |
| DUOPOWER 14x70 S | -        | 538249        |            | 14                            | 100                                    | -                                     | 70                         | 10 x 95   | 15  | 10         |

## DUOPOWER

Highest recommended loads<sup>1)</sup> for a single anchor.

The given loads are valid for screws with the specific diameter.

| Model   |                           | 5 x 25 | 6 x 30 | 6 x 50             | 8 x 40 | 8 x 65             | 10 x 50 | 10 x 80            | 12 x 60            | 14 x 70            |
|---|---------------------------|--------|--------|--------------------|--------|--------------------|---------|--------------------|--------------------|--------------------|
| Screw diameter <sup>3)</sup>  | Ø [mm]                    | 4      | 5      | 5                  | 6      | 6                  | 8       | 8                  | 10                 | 12                 |
| Min. edge distance concrete   | $c_{min}$ [mm]            | 30     | 35     | 35                 | 50     | 50                 | 65      | 65                 | 80                 | 100                |
| <b>Recommended load in the respective building material <math>F_{recommended}^{2)}</math></b> |                           |        |        |                    |        |                    |         |                    |                    |                    |
| Concrete  | $\geq C20/25$ [kN]        | 0,40   | 0,95   | 1,65               | 1,10   | 2,30               | 2,15    | 4,20               | 3,30               | 5,30               |
| Solid brick   | $\geq Mz 12$ [kN]         | 0,30   | 0,50   | 0,55               | 0,62   | 0,69               | 1,20    | 1,45               | 1,30               | 1,35               |
| Solid sand-lime brick   | $\geq KS 12$ [kN]         | 0,50   | 1,00   | 1,60               | 1,25   | 2,25               | 2,20    | 3,85               | 2,80               | 4,50               |
| Aircrete  | $\geq PB2, PP2 (G2)$ [kN] | 0,05   | 0,10   | 0,15               | 0,10   | 0,16               | 0,20    | 0,30               | 0,24               | 0,35               |
| Aircrete  | $\geq PB4, PP4 (G4)$ [kN] | 0,25   | 0,38   | 0,55               | 0,42   | 0,60               | 0,60    | 1,10               | 1,00               | 1,45               |
| Vertically perforated brick<br>$\geq Hz 12 (\rho \geq 0,9 \text{ kg/dm}^3)$                   | [kN]                      | 0,13   | 0,15   | 0,17               | 0,25   | 0,40               | 0,25    | 0,40               | 0,35               | 0,40               |
| Perforated sand-lime brick<br>$\geq KSL 12 (\rho \geq 1,6 \text{ kg/dm}^3)$                   | [kN]                      | 0,40   | 0,60   | 0,60               | 0,70   | 1,00               | 0,70    | 2,00               | 0,75               | 1,50               |
| Gypsum wall board<br>$(\rho \geq 0,9 \text{ kg/dm}^3)$  | [kN]                      | 0,10   | 0,18   | 0,37               | 0,25   | 0,50               | 0,35    | 0,65               | 0,50               | 0,50               |
| Gypsum fibreboard<br>12,5 mm  | [kN]                      | 0,24   | 0,33   | 0,35               | 0,35   | -                  | 0,50    | -                  | -                  | -                  |
| Gypsum plasterboard<br>12,5 mm  | [kN]                      | 0,12   | 0,15   | 0,15               | 0,15   | -                  | 0,15    | -                  | -                  | -                  |
| Gypsum plasterboard<br>2x12,5 mm  | [kN]                      | 0,13   | 0,15   | 0,24               | 0,20   | 0,32               | 0,30    | -                  | -                  | -                  |
| Mattone Forato Typ F8   | [kN]                      | 0,30   | 0,30   | -                  | 0,25   | -                  | 0,25    | -                  | -                  | -                  |
| Tramezza Doppio UNI 19  | [kN]                      | 0,15   | 0,15   | 0,23               | 0,15   | 0,30               | 0,20    | 0,52               | 0,35               | 0,35               |
| Sepa Parpaing   | [kN]                      | 0,30   | 0,45   | 0,25 <sup>4)</sup> | 0,45   | 0,45 <sup>4)</sup> | 0,45    | 0,45 <sup>4)</sup> | 0,60 <sup>4)</sup> | 0,60 <sup>4)</sup> |

<sup>1)</sup> Required safety factors are considered.

<sup>2)</sup> Applies to tension load, shear load and diagonal pull under each angle.

<sup>3)</sup> Wood screw

<sup>4)</sup> Load determination on plastered wall.

# fischer FIXPERIENCE.

## The design and information software suite.



- The modular design program includes engineering software and application modules.
- The software is based on international design standards (ETAG 001 and EC2, such as EC1, EC3 and EC5), including the national application documents. All common force and measurement units are available.
- Incorrect input will be recognized and the software gives tips to get a correct result. This ensures a safe and reliable design every time.
- The graphical display can easily be rotated through 360°, panned, tilted or zoomed as required.
- The 3D display gives a detailed and realistic image.
- The “live update” feature helps to keep the program up to date ensuring you are always working with the latest version.
- Free download and updates at [www.fischer.de/fixperience-en](http://www.fischer.de/fixperience-en)

## Our service to you.



We are available to you at any time as a reliable partner to offer technical support and advice:

- Our products range from chemical resin systems to steel anchors through to nylon anchors.
- Competence and innovation through own research, development and production.
- Global presence and active sales service in over 100 countries.
- Qualified technical consulting for economical and compliant fastening solutions. Also on-site at the construction site if requested.
- Training sessions, some with accreditation, at your premises or at the fischer ACADEMY.
- Design and construction software for demanding applications.

## Regional Presence

### U.A.E

**fischer FZE (Regional Office)**  
R/A 07, BA 01 - 04  
Jebel Ali Free Zone  
Dubai, UAE  
P. O. Box 261738  
Tel: +971 4 883 7477  
Fax: +971 4 883 7476  
Email: [enquiry@fischer.ae](mailto:enquiry@fischer.ae)

**Abu Dhabi**  
Tel: +971 2 552 5777  
Fax: +971 2 552 6566  
Email: [enquiry@fischer.ae](mailto:enquiry@fischer.ae)

### State of Qatar

Tel: +974 4036 3100  
Fax: +974 4471 0898  
Email: [qatar@fischer.ae](mailto:qatar@fischer.ae)

### Kingdom of Saudi Arabia

Tel: +966 13 8140866  
Fax: +966 13 8140855  
Email: [saudi@fischer.ae](mailto:saudi@fischer.ae)

### State of Kuwait

Tel: +965 2481 8786,  
+965 2482 5972  
Fax: +965 2481 8385  
Email: [kuwait@fischer.ae](mailto:kuwait@fischer.ae)

### Kingdom of Bahrain

Tel: +973 17408090  
Fax: +973 17404323  
Email: [bahrain@fischer.ae](mailto:bahrain@fischer.ae)

### Sultanate of Oman

Tel: +968 24445425/26/27/28/30  
Fax: +968 24445423  
Email: [oman@fischer.ae](mailto:oman@fischer.ae)

### Pakistan

Tel: +923 01 8266216  
Email: [pakistan@fischer.ae](mailto:pakistan@fischer.ae)

Follow us:



[www.fischer.ae](http://www.fischer.ae)

**fischer**   
*innovative solutions*