



# SAS Shebolt System

## SAS Shebolt System

### SAS SYSTEMS



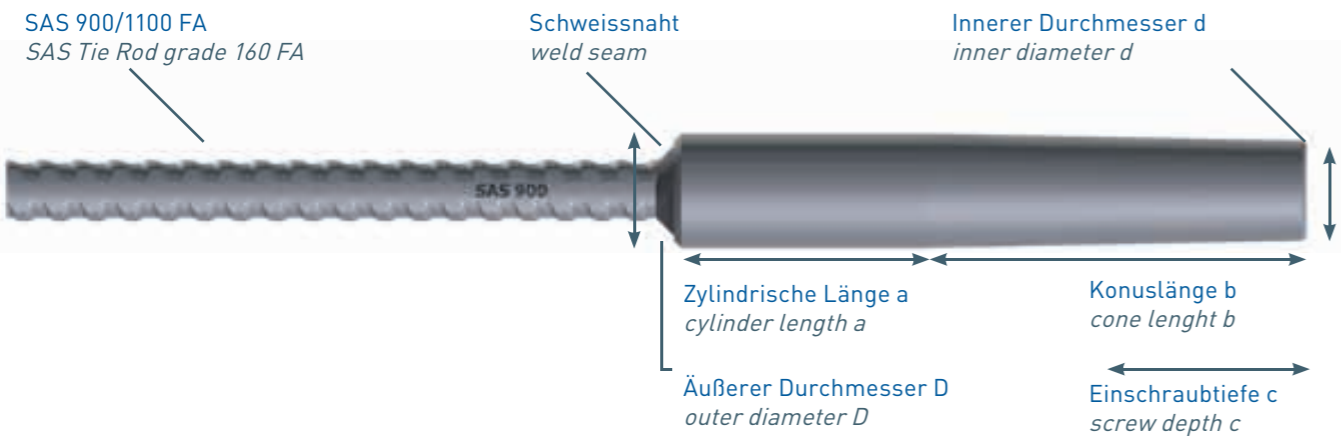
# Technischer Fortschritt - SAS Shebolt

Advanced technology - SAS Shebolt



## Aufbau und Abmessungen des SAS Shebolt

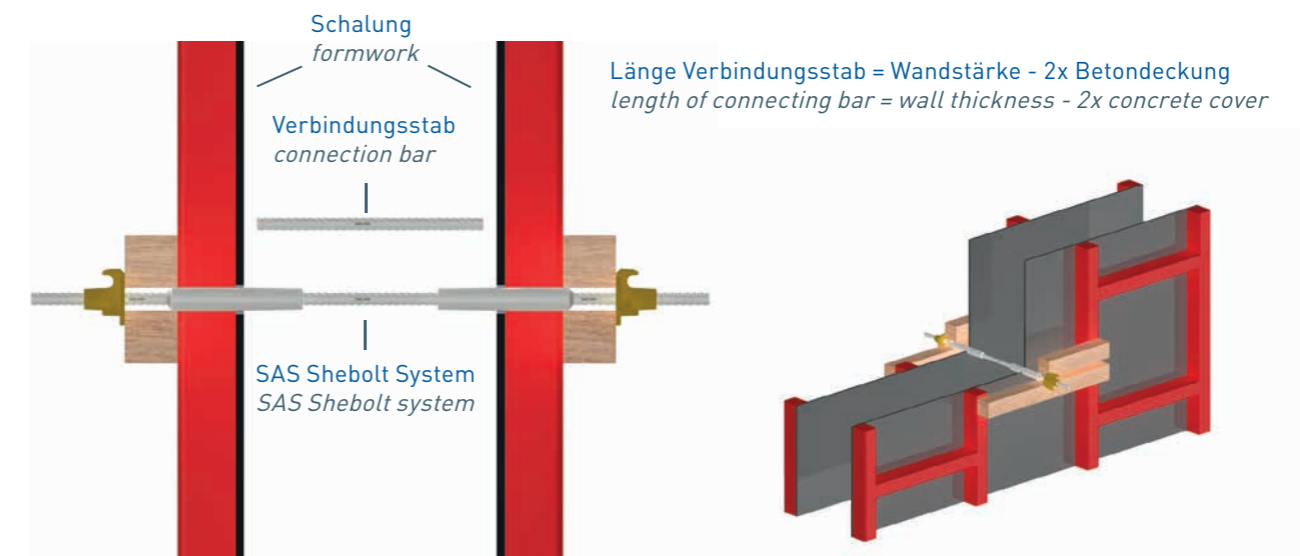
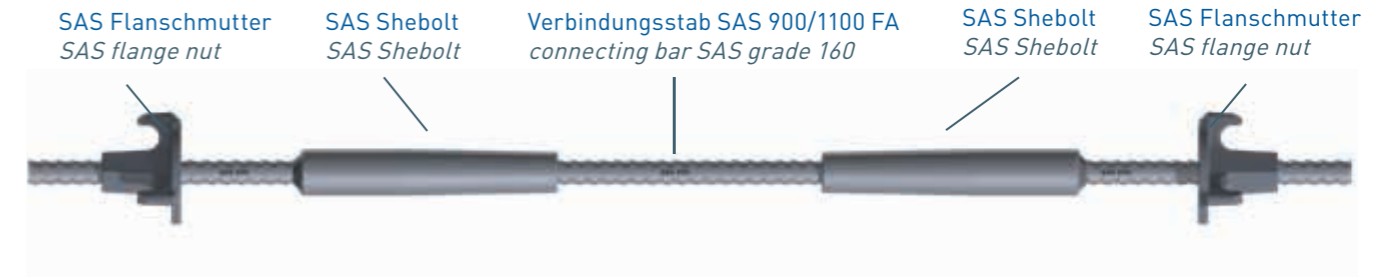
Design and dimensions of SAS Shebolt



| SAS Shebolt    | Stab-durchmesser / Bar size | Standard-länge / standard length | Standard-gewicht / standard weight | Arbeits-last / working load | Bruch-last / ultimate load | Zylindrische Länge / cylinder length | Konus-länge / cone length | Einschraub-tiefe / screw depth | Innerer Durchmesser / inner diameter d | Äußerer Durchmesser / outer diameter D |
|----------------|-----------------------------|----------------------------------|------------------------------------|-----------------------------|----------------------------|--------------------------------------|---------------------------|--------------------------------|--|--|
|                | [mm]                        | [mm]                             | [kg]                               | [kN]                        | [kN]                       | [mm]                                 | [mm]                      | [mm]                           | [mm]                                   | [mm]                                   |
| 15 FA 30 460 G | 15                          | 460                              | 1,29                               | 90                          | 170                        | 75                                   | 100                       | 60                             | 27                                     | 32                                     |
| 20 FA 30 500 G | 20                          | 500                              | 2,20                               | 160                         | 320                        | 108                                  | 112                       | 60                             | 32                                     | 38                                     |
|                | ["]                         | ["]                              | [lbs]                              | [kips]                      | [kips]                     | ["]                                  | ["]                       | ["]                            | ["]                                    | ["]                                    |
| 15 FA 30 460 G | 5/8                         | 18                               | 2.84                               | 20                          | 38                         | 3                                    | 3 7/8                     | 2 2/3                          | 1                                      | 1 1/4                                  |
| 20 FA 30 500 G | 7/8                         | 20                               | 4.85                               | 36                          | 72                         | 4 1/4                                | 4 3/8                     | 2 3/8                          | 1 1/4                                  | 1 1/2                                  |

# SAS Shebolt System: eingebaut im Schalungssystem

SAS Shebolt system: installed into formwork system



## Eigenschaften SAS Shebolt System

Characteristics of the SAS Shebolt System

- Anschlussstab und Verbindungsstab aus SAS 900/1100 FA kompatibel zu SAS Schalungszubehör.
- Einfache Montage.
- Hohe Wiederverwendbarkeit durch robustes und baustellengerechtes Grobgewinde.
- Die Länge des Anschlussstabes kann nach Kundenwunsch variiert werden.
- Korrosionsschutz durch galvanische Verzinkung.
- Ausbau mittels SAS Spannstabausdreher 10F 71 002G
- Einfaches Ausdrehen aus abgebundenem Beton durch glatte Oberfläche und konische Form
- Kein Plastiküberzug erforderlich
- Connecting bar for SAS 900/1100 FA is fully compatible with SAS formwork accessories.
- Easy installation.
- High reusability due to the robust coarse thread best suited for tough construction site conditions.
- The connecting bars are cut to length according to customer requirements.
- Corrosion protection by means of electrogalvanization.
- Removal by using SAS tie rod removers 10F 710024
- Easily removed from hardened concrete due to its smooth surface and conic shape
- No plastic cover required



# SAS Gewindestäbe | SAS thread bar

Streckgrenze / Zugfestigkeit | yield stress / ultimate stress  
Anwendungsbereiche | areas of application

Nenn- $\varnothing$  / nom.  $\varnothing$     Strecklast / yield load    Bruchlast / ultimate load    Fläche / cross section area    Gewicht / weight    Dehnung / elongation

[mm]    [kN]    [kN]    [mm<sup>2</sup>]    [m/to]    [kg/m]    A<sub>gt</sub> [%]    A<sub>10</sub> [%]

## SAS 500 / 550 – grade 75

|  |    |     |      |      |        |       |   |    |
|--|----|-----|------|------|--------|-------|---|----|
|  Bewehrungstechnik   reinforcing systems | 12 | 57  | 62   | 113  | 1123,6 | 0,89  | 6 | 10 |
|  | 14 | 77  | 85   | 154  | 826,4  | 1,21  |   |    |
|  | 16 | 100 | 110  | 201  | 632,9  | 1,58  |   |    |
|  | 20 | 160 | 175  | 314  | 404,9  | 2,47  |   |    |
|  | 25 | 245 | 270  | 491  | 259,7  | 3,85  |   |    |
|  Geotechnik   geotechnical systems       | 28 | 310 | 340  | 616  | 207,0  | 4,83  |   |    |
|  | 32 | 405 | 440  | 804  | 158,5  | 6,31  |   |    |
|  | 36 | 510 | 560  | 1020 | 125,2  | 7,99  |   |    |
|  | 40 | 630 | 690  | 1260 | 101,3  | 9,87  |   |    |
|  | 43 | 726 | 799  | 1452 | 87,7   | 11,40 |   |    |
|  | 50 | 980 | 1080 | 1960 | 64,9   | 15,40 |   |    |

## SAS 555 / 700 – grade 80

57,5    1441    1818    2597    49,1    20,38    5    10

## SAS 555 / 700 – grade 80


63,5    1760    2215    3167    40,2    24,86    5    ---

## SAS 500 / 550 – grade 75


75    2209    2430    4418    28,8    34,68    5    ---

Alternativ SAS 550 erhältlich | alternative SAS 550 grade 75 available




## SAS 450 / 700 – grade 60

|   |    |     |     |     |       |      |                      |
|---|----|-----|-----|-----|-------|------|----------------------|
|  Bergbau   mining | 16 | 93  | 145 | 207 | 617,3 | 1,62 | (A <sub>3</sub> ) 15 |
|   | 25 | 220 | 345 | 491 | 259,7 | 3,85 | (A <sub>3</sub> ) 20 |



## SAS 650 / 800 – grade 90

|   |    |     |     |     |       |      |                      |
|---|----|-----|-----|-----|-------|------|----------------------|
|  Bergbau   mining | 22 | 247 | 304 | 380 | 335,6 | 2,98 | (A <sub>3</sub> ) 18 |
|   | 25 | 319 | 393 | 491 | 259,7 | 3,85 |                      |
|   | 28 | 400 | 493 | 616 | 207,0 | 4,83 |                      |
|   | 30 | 460 | 565 | 707 | 180,2 | 5,55 |                      |


## SAS 670 / 800 – grade 97

|  |      |      |      |      |       |       |     |    |     |
|--|------|------|------|------|-------|-------|-----|----|-----|
|  Geotechnik   geotechnical systems                 | 18   | 170  | 204  | 254  | 500,0 | 2,00  | 5   | 10 |     |
|  | 22   | 255  | 304  | 380  | 335,6 | 2,98  |     |    |     |
|  | 25   | 329  | 393  | 491  | 259,7 | 3,85  |     |    |     |
|  | 28   | 413  | 493  | 616  | 207,0 | 4,83  |     |    |     |
|  Ankertechnik   tunneling & mining                 | 30   | 474  | 565  | 707  | 180,2 | 5,55  |     |    |     |
|  | 35   | 645  | 770  | 962  | 132,5 | 7,55  |     |    |     |
|  | 43   | 973  | 1162 | 1452 | 87,7  | 11,40 |     |    |     |
|  Hochfeste Bewehrung   high-strength reinforcement | 50   | 1315 | 1570 | 1963 | 64,9  | 15,40 |     |    |     |
|  | 57,5 | 1740 | 2077 | 2597 | 49,1  | 20,38 |     |    | --- |
|  | 63,5 | 2122 | 2534 | 3167 | 40,2  | 24,86 |     |    | --- |
|  | 75   | 2960 | 3535 | 4418 | 28,8  | 34,68 | --- |    |     |


## SAS 950 / 1050 – grade 150

|   |      |      |      |      |       |       |   |   |
|---|------|------|------|------|-------|-------|---|---|
|  Spanntechnik   post-tensioning systems | 18   | 230  | 255  | 241  | 510,2 | 1,96  | 5 | 7 |
|   | 26,5 | 525  | 580  | 551  | 223,2 | 4,48  |   |   |
|   | 32   | 760  | 845  | 804  | 153,1 | 6,53  |   |   |
|  Geotechnik   geotechnical systems      | 36   | 960  | 1070 | 1020 | 120,9 | 8,27  |   |   |
|   | 40   | 1190 | 1320 | 1257 | 97,9  | 10,21 |   |   |
|   | 47   | 1650 | 1820 | 1735 | 70,9  | 14,10 |   |   |


## SAS 835 / 1035 – grade 150

|  |    |      |      |      |      |       |   |     |
|--|----|------|------|------|------|-------|---|-----|
|  Geotechnik   geotechnical systems | 57 | 2155 | 2671 | 2581 | 47,7 | 20,95 | 4 | --- |
|  | 65 | 2780 | 3447 | 3331 | 36,9 | 27,10 |   | --- |
|  | 75 | 3690 | 4572 | 4418 | 27,9 | 35,90 |   | --- |

## SAS 900 / 1100 FA – grade 160 FA

|   |      |     |     |     |       |      |   |   |
|---|------|-----|-----|-----|-------|------|---|---|
|  Schalungstechnik   formwork ties | 15   | 159 | 195 | 177 | 694,4 | 1,44 | 3 | 7 |
|   | 20   | 283 | 345 | 314 | 390,6 | 2,56 |   |   |
|   | 26,5 | 495 | 606 | 551 | 223,2 | 4,48 |   |   |


## SAS 900 / 1050 FC – grade 150 FC

|   |    |     |     |     |       |      |   |   |
|---|----|-----|-----|-----|-------|------|---|---|
|  Schalungstechnik   formwork ties | 15 | 159 | 186 | 177 | 694,4 | 1,44 | 3 | 7 |
|   | 20 | 283 | 330 | 314 | 390,6 | 2,56 |   |   |

## SAS 950 / 1050 E – grade 150

26,5    525    580    551    223,2    4,48    5    7

## SAS 750 / 875 FS – kaltgerollt | cold rolled – grade 120 FS

|   |      |     |     |       |       |      |   |     |
|---|------|-----|-----|-------|-------|------|---|-----|
|  Schalungstechnik   formwork ties | 12,5 | 90  | 120 | 132,5 | 961,5 | 1,04 | 2 | 5,5 |
|   | 15   | 142 | 165 | 189   | 675,7 | 1,48 |   |     |
|   | 20   | 245 | 285 | 326   | 390,6 | 2,56 |   |     |

Zubehör für alle Abmessungen und Anwendungen lieferbar | accessories for all dimensions and applications available

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