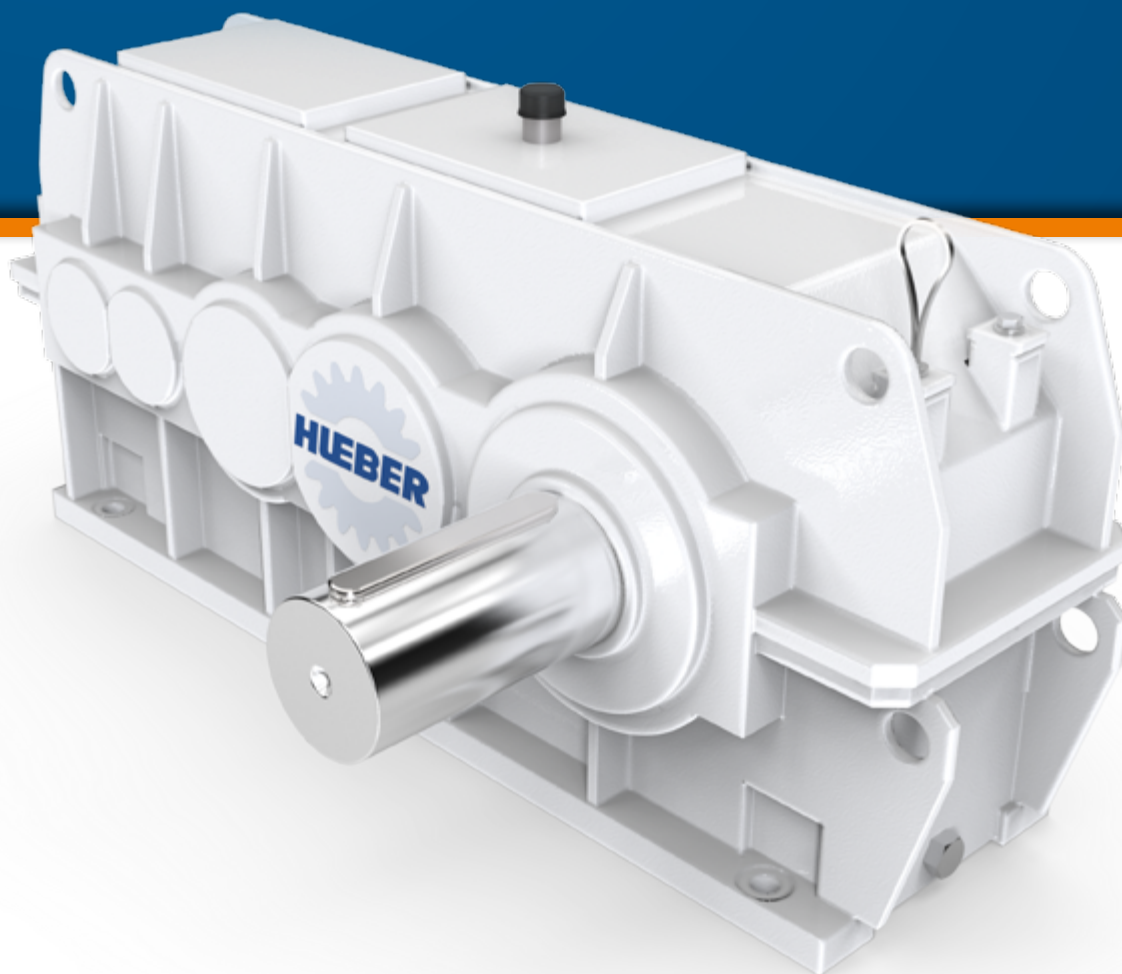




*Solutions for industrial gearboxes*

# SPUR GEAR

with large wheel base





*Solutions for industrial gearboxes*

# HUEBER Spur Gear

## Your 8 Benefits

1. Increased reliability due to increased power density
2. Smooth running and small size due to optimized gearing
3. High torque with compact design
4. Low weight due to optimized design
5. Short downtime thanks to service-friendly design of the gearbox
6. Short delivery times and optimal price-performance ratio
7. Connecting dimensions are equivalent to the common products (eg Siemens-Flender®)
8. Professional service partner with over 100 years of experience in gear unit construction

The names identified by ® are registered trademarks of their respective companies.

## References



### Hoisting Gear Units

To drive from either one or two cable drums. Also available as two-motor solution.



### Trolley Drive Gearbox

We offer high transmission services to guarantee high uptime for the customer.



### Drive Gears

Are available in a standard version and also in a customised special solution.



### Special Gearboxes

We manufacture our gearboxes according to your wishes and special requirements.





*Solutions for industrial gearboxes*

## Fields of application

Our spur gearboxes with large wheel base are particularly in demand where due to the system conditions a greater distance between the input and the output is to be bridged.

### Fields of application:

You can use our high quality gearboxes in all types of cranes.

- » Whether as hoisting gears, crane drive gears, trolley drive gearbox or as a lifting and locking mechanism gearbox
- » Lifting cranes for all industries with a hoisting load of 5 to 1,000 tons and more
- » For applications with large spacing between motor and output eg on one side







*Solutions for industrial gearboxes*

# HUEBER Gearboxes

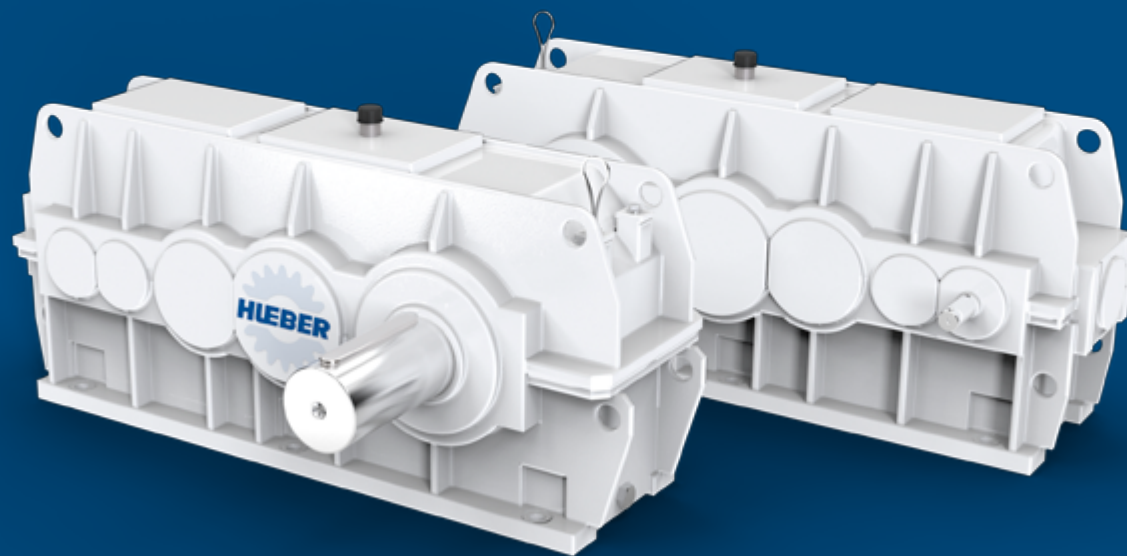
## Engineered Excellence

HUEBER provides standard and special gearboxes for over two decades.

You can choose between three-and four-stage gearboxes with ratios of  $i_{\text{Nom}} = 14$  to 250 and a maximum torque up to 470,000 Nm.

Upon request you can take advantage of solutions with other translations, higher torques and other applications. For example switching stages, monitoring system, oil supply pump, oil heating-cooling or integrated planetary gearbox.

In this brochure you'll find several drawings which provide you the general dimensions of the gearboxes. There are several selection diagrams with the nominal power ratings and nominal output torques to define the appropriate gearbox for your application. Detailed dimension drawings are available upon request, please contact our sales team using [request@hueber-gmbh.de](mailto:request@hueber-gmbh.de)





Nominal Power Ratings

Type **3SF..**

Sizes **50 ... 140**

| Nominal Power Ratings |                 |                |                                   |     |     |     |     |     |     |     |     |     |
|-----------------------|-----------------|----------------|-----------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ratio<br>iN           | Gear unit sizes |                |                                   |     |     |     |     |     |     |     |     |     |
|                       | n <sub>1</sub>  | n <sub>2</sub> | 50                                | 60  | 70  | 80  | 90  | 100 | 110 | 120 | 130 | 140 |
|                       | 1/min           |                | Nominal Power Ratings<br>PN in kW |     |     |     |     |     |     |     |     |     |
| 14                    | 1500            | 107            | 123                               | -   | 230 | -   | 381 | -   | 672 | -   | 986 | -   |
|                       | 1000            | 71             | 82                                | -   | 152 | -   | 253 | -   | 446 | -   | 654 | -   |
|                       | 750             | 54             | 62                                | -   | 116 | -   | 192 | -   | 339 | -   | 498 | -   |
| 16                    | 1500            | 94             | 108                               | -   | 202 | -   | 335 | -   | 591 | -   | 866 | -   |
|                       | 1000            | 63             | 73                                | -   | 135 | -   | 224 | -   | 396 | -   | 581 | -   |
|                       | 750             | 47             | 54                                | -   | 101 | -   | 167 | -   | 295 | -   | 433 | -   |
| 18                    | 1500            | 83             | 96                                | 126 | 178 | 222 | 295 | 374 | 521 | 652 | 765 | 947 |
|                       | 1000            | 58             | 65                                | 85  | 120 | 150 | 199 | 252 | 352 | 440 | 516 | 639 |
|                       | 750             | 42             | 48                                | 64  | 90  | 112 | 150 | 189 | 264 | 330 | 387 | 479 |
| 20                    | 1500            | 75             | 86                                | 114 | 161 | 200 | 267 | 338 | 471 | 589 | 691 | 856 |
|                       | 1000            | 50             | 58                                | 76  | 107 | 134 | 178 | 225 | 314 | 393 | 461 | 571 |
|                       | 750             | 38             | 44                                | 58  | 82  | 101 | 135 | 171 | 239 | 298 | 350 | 434 |
| 22.4                  | 1500            | 67             | 77                                | 102 | 144 | 179 | 239 | 302 | 421 | 526 | 617 | 765 |
|                       | 1000            | 45             | 52                                | 68  | 97  | 120 | 160 | 203 | 283 | 353 | 415 | 514 |
|                       | 750             | 33             | 38                                | 50  | 71  | 88  | 117 | 149 | 207 | 259 | 304 | 377 |
| 25                    | 1500            | 60             | 69                                | 91  | 129 | 160 | 214 | 270 | 377 | 471 | 553 | 685 |
|                       | 1000            | 40             | 46                                | 61  | 86  | 107 | 142 | 180 | 251 | 314 | 369 | 457 |
|                       | 750             | 30             | 35                                | 46  | 64  | 80  | 107 | 135 | 188 | 236 | 276 | 342 |
| 28                    | 1500            | 54             | 62                                | 82  | 116 | 144 | 192 | 243 | 339 | 424 | 498 | 616 |
|                       | 1000            | 36             | 41                                | 55  | 77  | 96  | 128 | 162 | 226 | 283 | 332 | 411 |
|                       | 750             | 27             | 31                                | 41  | 58  | 72  | 96  | 122 | 170 | 212 | 249 | 308 |
| 31.5                  | 1500            | 48             | 55                                | 73  | 103 | 128 | 171 | 216 | 302 | 377 | 442 | 548 |
|                       | 1000            | 32             | 37                                | 49  | 69  | 85  | 114 | 144 | 201 | 251 | 295 | 365 |
|                       | 750             | 24             | 28                                | 36  | 52  | 64  | 85  | 108 | 151 | 188 | 221 | 274 |
| 35.5                  | 1500            | 42             | 48                                | 64  | 90  | 112 | 150 | 189 | 264 | 330 | 387 | 479 |
|                       | 1000            | 28             | 32                                | 43  | 60  | 75  | 100 | 126 | 176 | 220 | 258 | 320 |
|                       | 750             | 21             | 24                                | 32  | 45  | 56  | 75  | 95  | 132 | 165 | 194 | 240 |
| 40                    | 1500            | 38             | 44                                | 58  | 82  | 101 | 135 | 171 | 239 | 298 | 350 | 434 |
|                       | 1000            | 25             | 29                                | 38  | 54  | 67  | 89  | 113 | 157 | 196 | 230 | 285 |
|                       | 750             | 18.8           | 22                                | 29  | 40  | 50  | 67  | 85  | 118 | 148 | 173 | 215 |
| 45                    | 1500            | 33             | 38                                | 50  | 71  | 88  | 117 | 149 | 207 | 259 | 304 | 377 |
|                       | 1000            | 22             | 25                                | 33  | 47  | 59  | 78  | 99  | 138 | 173 | 203 | 251 |
|                       | 750             | 16.7           | 19                                | 25  | 36  | 45  | 59  | 75  | 105 | 131 | 154 | 191 |
| 50                    | 1500            | 30             | 35                                | 46  | 64  | 80  | 107 | 135 | 188 | 236 | 276 | 342 |
|                       | 1000            | 20             | 23                                | 30  | 43  | 53  | 71  | 90  | 126 | 157 | 184 | 228 |
|                       | 750             | 15             | 17                                | 23  | 32  | 40  | 53  | 68  | 94  | 118 | 138 | 171 |
| 56                    | 1500            | 27             | 31                                | 41  | 58  | 72  | 96  | 122 | 170 | 212 | 249 | 308 |
|                       | 1000            | 17.9           | 21                                | 27  | 38  | 48  | 64  | 81  | 112 | 141 | 165 | 204 |
|                       | 750             | 13.4           | 15                                | 20  | 29  | 36  | 48  | 60  | 84  | 105 | 123 | 153 |
| 63                    | 1500            | 24             | 28                                | 36  | 52  | 64  | 85  | 108 | 151 | 188 | 221 | 274 |
|                       | 1000            | 15.9           | 18                                | 24  | 34  | 42  | 57  | 72  | 100 | 125 | 147 | 181 |
|                       | 750             | 11.9           | 14                                | 18  | 26  | 32  | 42  | 54  | 75  | 93  | 110 | 136 |
| 71                    | 1500            | 21             | 24                                | 32  | 45  | 56  | 75  | 95  | 132 | 165 | 194 | 240 |
|                       | 1000            | 14.1           | 16                                | 21  | 30  | 38  | 50  | 63  | 89  | 111 | 130 | 161 |
|                       | 750             | 10.6           | 12                                | 16  | 23  | 28  | 38  | 48  | 67  | 83  | 98  | 121 |
| 80                    | 1500            | 18.8           | 22                                | 29  | 40  | 50  | 67  | 85  | 118 | 148 | 173 | 215 |
|                       | 1000            | 12.5           | 14                                | 19  | 27  | 33  | 45  | 56  | 79  | 98  | 115 | 143 |
|                       | 750             | 9.4            | 11                                | 14  | 20  | 25  | 33  | 42  | 59  | 74  | 87  | 107 |
| 90                    | 1500            | 16.7           | 19                                | 25  | 36  | 45  | 59  | 75  | 105 | 131 | 154 | 191 |
|                       | 1000            | 11.1           | 13                                | 17  | 24  | 30  | 40  | 50  | 70  | 87  | 102 | 127 |
|                       | 750             | 8.3            | 10                                | 13  | 18  | 22  | 30  | 37  | 52  | 65  | 76  | 95  |
| 100                   | 1500            | 15             | 17                                | 23  | 32  | 40  | 53  | 68  | 94  | 118 | 138 | 171 |
|                       | 1000            | 10             | 12                                | 15  | 21  | 27  | 36  | 45  | 63  | 79  | 92  | 114 |
|                       | 750             | 7.5            | 8.6                               | 11  | 16  | 20  | 27  | 34  | 47  | 59  | 69  | 86  |
| 112                   | 1500            | 13.4           | 15                                | 20  | 29  | 36  | 48  | 60  | 84  | 105 | 123 | 153 |
|                       | 1000            | 8.9            | 10                                | 14  | 19  | 24  | 32  | 40  | 56  | 70  | 82  | 102 |
|                       | 750             | 6.7            | 7.7                               | 10  | 14  | 18  | 24  | 30  | 42  | 53  | 62  | 76  |
| 125                   | 1500            | 12             | 14                                | 18  | 26  | 32  | 43  | 54  | 75  | 94  | 111 | 137 |
|                       | 1000            | 8              | 9.2                               | 12  | 17  | 21  | 28  | 36  | 50  | 63  | 74  | 91  |
|                       | 750             | 6              | 6.9                               | 9.1 | 13  | 16  | 21  | 27  | 38  | 47  | 55  | 68  |
| 140                   | 1500            | 10.7           | 12                                | 16  | 23  | 29  | 38  | 48  | 67  | 84  | 99  | 122 |
|                       | 1000            | 7.1            | 8.2                               | 11  | 15  | 19  | 25  | 32  | 45  | 56  | 65  | 81  |
|                       | 750             | 5.4            | 6.2                               | 8.2 | 12  | 14  | 19  | 24  | 34  | 42  | 50  | 62  |
| 160                   | 1500            | 9.4            | 11                                | 14  | 20  | 25  | 33  | 42  | 59  | 74  | 87  | 107 |
|                       | 1000            | 6.3            | 7.3                               | 9.6 | 14  | 17  | 22  | 28  | 40  | 49  | 58  | 72  |
|                       | 750             | 4.7            | 5.4                               | 7.1 | 10  | 13  | 17  | 21  | 30  | 37  | 43  | 54  |
| 180                   | 1500            | 8.3            | 9.6                               | 13  | 18  | 22  | 30  | 37  | 52  | 65  | 76  | 95  |
|                       | 1000            | 5.6            | 6.5                               | 8.5 | 12  | 15  | 20  | 25  | 35  | 44  | 52  | 64  |
|                       | 750             | 4.2            | 4.8                               | 6.4 | 9.0 | 11  | 15  | 19  | 26  | 33  | 39  | 48  |
| 200                   | 1500            | 7.5            | 8.6                               | 11  | 16  | 20  | 27  | 34  | 47  | 59  | 69  | 86  |
|                       | 1000            | 5              | 5.8                               | 7.6 | 11  | 13  | 18  | 23  | 31  | 39  | 46  | 57  |
|                       | 750             | 3.8            | 4.4                               | 5.8 | 8.2 | 10  | 14  | 17  | 24  | 30  | 35  | 43  |
| 224                   | 1500            | 6.7            | -                                 | 10  | -   | 18  | -   | 30  | -   | 53  | -   | 76  |
|                       | 1000            | 4.5            | -                                 | 6.8 | -   | 12  | -   | 20  | -   | 35  | -   | 51  |
|                       | 750             | 3.3            | -                                 | 5.0 | -   | 8.8 | -   | 15  | -   | 26  | -   | 38  |
| 250                   | 1500            | 6              | -                                 | 9.1 | -   | 16  | -   | 27  | -   | 47  | -   | 68  |
|                       | 1000            | 4              | -                                 | 6.1 | -   | 11  | -   | 18  | -   | 31  | -   | 46  |
|                       | 750             | 3              | -                                 | 4.6 | -   | 8.0 | -   | 14  | -   | 24  | -   | 34  |

Nominal Power Ratings

Type **4SF..**

Sizes **50 ... 140**

| Nominal Power Ratings |                 |                |                                            |    |     |     |     |     |     |     |     |     |
|-----------------------|-----------------|----------------|--------------------------------------------|----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ratio<br>iN           | Gear unit sizes |                |                                            |    |     |     |     |     |     |     |     |     |
|                       | n <sub>1</sub>  | n <sub>2</sub> | 50                                         | 60 | 70  | 80  | 90  | 100 | 110 | 120 | 130 | 140 |
|                       | 1/min           |                | Nominal Power Ratings P <sub>N</sub> in kW |    |     |     |     |     |     |     |     |     |
| 20                    | 1500            | 75             | 86                                         | -  | 161 | -   | 267 | -   | 471 | -   | 691 | -   |
|                       | 1000            | 50             | 58                                         | -  | 107 | -   | 178 | -   | 314 | -   | 461 | -   |
|                       | 750             | 38             | 44                                         | -  | 82  | -   | 135 | -   | 239 | -   | 350 | -   |
| 22.4                  | 1500            | 67             | 77                                         | -  | 144 | -   | 239 | -   | 421 | -   | 617 | -   |
|                       | 1000            | 45             | 52                                         | -  | 97  | -   | 160 | -   | 283 | -   | 415 | -   |
|                       | 750             | 33             | 38                                         | -  | 71  | -   | 117 | -   | 207 | -   | 304 | -   |
| 25                    | 1500            | 60             | 69                                         | 91 | 129 | 160 | 214 | 270 | 377 | 471 | 553 | 685 |
|                       | 1000            | 40             | 46                                         | 61 | 86  | 107 | 142 | 180 | 251 | 314 | 369 | 457 |
|                       | 750             | 30             | 35                                         | 46 | 64  | 80  | 107 | 135 | 188 | 236 | 276 | 342 |
| 28                    | 1500            | 54             | 62                                         | 82 | 116 | 144 | 192 | 243 | 339 | 424 | 498 | 616 |
|                       | 1000            | 36             | 41                                         | 55 | 77  | 96  | 128 | 162 | 226 | 283 | 332 | 411 |
|                       | 750             | 27             | 31                                         | 41 | 58  | 72  | 96  | 122 | 170 | 212 | 249 | 308 |
| 31.5                  | 1500            | 48             | 55                                         | 73 | 103 | 128 | 171 | 216 | 302 | 377 | 442 | 548 |
|                       | 1000            | 32             | 37                                         | 49 | 69  | 85  | 114 | 144 | 201 | 251 | 295 | 365 |
|                       | 750             | 24             | 28                                         | 36 | 52  | 64  | 85  | 108 | 151 | 188 | 221 | 274 |
| 35.5                  | 1500            | 42             | 48                                         | 64 | 90  | 112 | 150 | 189 | 264 | 330 | 387 | 479 |
|                       | 1000            | 28             | 32                                         | 43 | 60  | 75  | 100 | 126 | 176 | 220 | 258 | 320 |
|                       | 750             | 21             | 24                                         | 32 | 45  | 56  | 75  | 95  | 132 | 165 | 194 | 240 |
| 40                    | 1500            | 38             | 44                                         | 58 | 82  | 101 | 135 | 171 | 239 | 298 | 350 | 434 |
|                       | 1000            | 25             | 29                                         | 38 | 54  | 67  | 89  | 113 | 157 | 196 | 230 | 285 |
|                       | 750             | 18.8           | 22                                         | 29 | 40  | 50  | 67  | 85  | 118 | 148 | 173 | 215 |
| 45                    | 1500            | 33             | 38                                         | 50 | 71  | 88  | 117 | 149 | 207 | 259 | 304 | 377 |
|                       | 1000            | 22             | 25                                         | 33 | 47  | 59  | 78  | 99  | 138 | 173 | 203 | 251 |
|                       | 750             | 16.7           | 19                                         | 25 | 36  | 45  | 59  | 75  | 105 | 131 | 154 | 191 |
| 50                    | 1500            | 30             | 35                                         | 46 | 64  | 80  | 107 | 135 | 188 | 236 | 276 | 342 |
|                       | 1000            | 20             | 23                                         | 30 | 43  | 53  | 71  | 90  | 126 | 157 | 184 | 228 |
|                       | 750             | 15             | 17                                         | 23 | 32  | 40  | 53  | 68  | 94  | 118 | 138 | 171 |
| 56                    | 1500            | 27             | 31                                         | 41 | 58  | 72  | 96  | 122 | 170 | 212 | 249 | 308 |





## Solutions for industrial gearboxes

Nominal Output Torques

Types **3SF.., 4SF..**

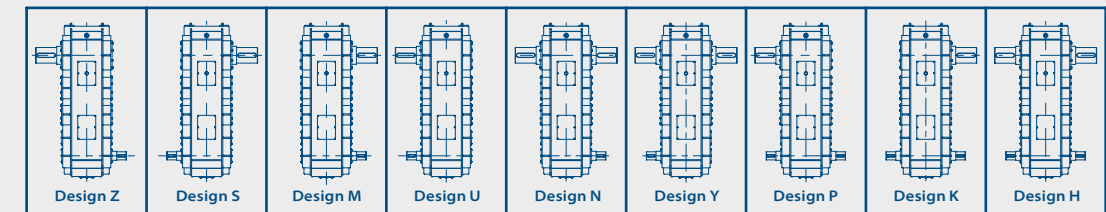
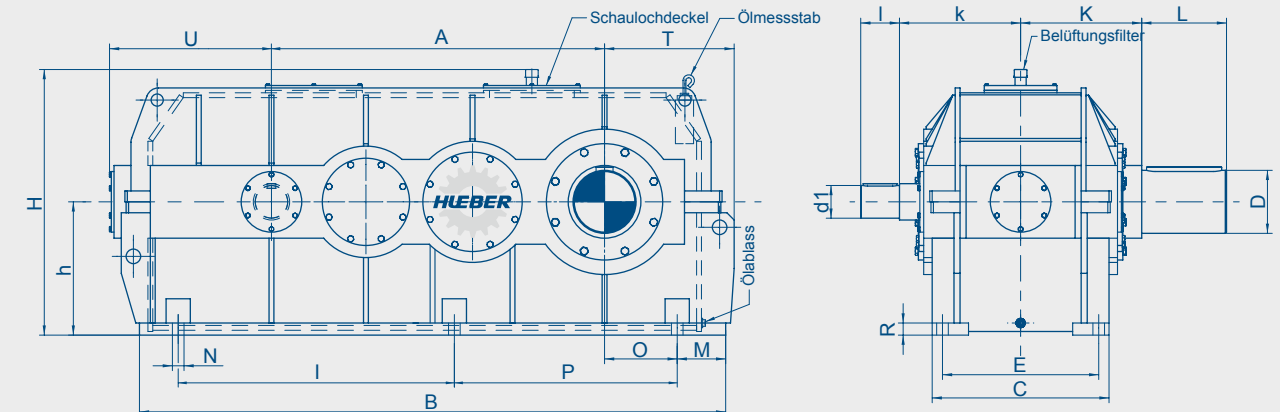
Sizes **50 ... 140**

| Nominal Output Torques |                                        |      |      |      |    |     |     |     |     |     |
|------------------------|----------------------------------------|------|------|------|----|-----|-----|-----|-----|-----|
| Type 3SF               |                                        |      |      |      |    |     |     |     |     |     |
| Ratio<br>iN            | Gear unit sizes                        |      |      |      |    |     |     |     |     |     |
|                        | 50                                     | 60   | 70   | 80   | 90 | 100 | 110 | 120 | 130 | 140 |
|                        | Nominal Output Torques $T_{2N}$ in kNm |      |      |      |    |     |     |     |     |     |
| 14                     | 11                                     | -    | 20.5 | -    | 34 | -   | 60  | -   | 88  | -   |
| 16                     | 11                                     | -    | 20.5 | -    | 34 | -   | 60  | -   | 88  | -   |
| 18                     | 11                                     | 14.5 | 20.5 | 25.5 | 34 | 43  | 60  | 75  | 88  | 109 |
| 20                     | 11                                     | 14.5 | 20.5 | 25.5 | 34 | 43  | 60  | 75  | 88  | 109 |
| 22.4                   | 11                                     | 14.5 | 20.5 | 25.5 | 34 | 43  | 60  | 75  | 88  | 109 |
| 25                     | 11                                     | 14.5 | 20.5 | 25.5 | 34 | 43  | 60  | 75  | 88  | 109 |
| 28                     | 11                                     | 14.5 | 20.5 | 25.5 | 34 | 43  | 60  | 75  | 88  | 109 |
| 31.5                   | 11                                     | 14.5 | 20.5 | 25.5 | 34 | 43  | 60  | 75  | 88  | 109 |
| 35.5                   | 11                                     | 14.5 | 20.5 | 25.5 | 34 | 43  | 60  | 75  | 88  | 109 |
| 40                     | 11                                     | 14.5 | 20.5 | 25.5 | 34 | 43  | 60  | 75  | 88  | 109 |
| 45                     | 11                                     | 14.5 | 20.5 | 25.5 | 34 | 43  | 60  | 75  | 88  | 109 |
| 50                     | 11                                     | 14.5 | 20.5 | 25.5 | 34 | 43  | 60  | 75  | 88  | 109 |
| 56                     | -                                      | 14.5 | -    | 25.5 | -  | 43  | -   | 75  | -   | 109 |
| 63                     | -                                      | 14.5 | -    | 25.5 | -  | 43  | -   | 75  | -   | 109 |

| Nominal Output Torques |                                        |      |      |      |    |     |     |     |     |     |
|------------------------|----------------------------------------|------|------|------|----|-----|-----|-----|-----|-----|
| Type 4SF               |                                        |      |      |      |    |     |     |     |     |     |
| Ratio<br>iN            | Gear unit sizes                        |      |      |      |    |     |     |     |     |     |
|                        | 50                                     | 60   | 70   | 80   | 90 | 100 | 110 | 120 | 130 | 140 |
|                        | Nominal Output Torques $T_{2N}$ in kNm |      |      |      |    |     |     |     |     |     |
| 20                     | 11                                     | -    | 20.5 | -    | 34 | -   | 60  | -   | 88  | -   |
| 22.4                   | 11                                     | -    | 20.5 | -    | 34 | -   | 60  | -   | 88  | -   |
| 25                     | 11                                     | 14.5 | 20.5 | 25.5 | 34 | 43  | 60  | 75  | 88  | 109 |
| 28                     | 11                                     | 14.5 | 20.5 | 25.5 | 34 | 43  | 60  | 75  | 88  | 109 |
| 31.5                   | 11                                     | 14.5 | 20.5 | 25.5 | 34 | 43  | 60  | 75  | 88  | 109 |
| 35.5                   | 11                                     | 14.5 | 20.5 | 25.5 | 34 | 43  | 60  | 75  | 88  | 109 |
| 40                     | 11                                     | 14.5 | 20.5 | 25.5 | 34 | 43  | 60  | 75  | 88  | 109 |
| 45                     | 11                                     | 14.5 | 20.5 | 25.5 | 34 | 43  | 60  | 75  | 88  | 109 |
| 50                     | 11                                     | 14.5 | 20.5 | 25.5 | 34 | 43  | 60  | 75  | 88  | 109 |
| 56                     | 11                                     | 14.5 | 20.5 | 25.5 | 34 | 43  | 60  | 75  | 88  | 109 |
| 63                     | 11                                     | 14.5 | 20.5 | 25.5 | 34 | 43  | 60  | 75  | 88  | 109 |
| 71                     | 11                                     | 14.5 | 20.5 | 25.5 | 34 | 43  | 60  | 75  | 88  | 109 |
| 80                     | 11                                     | 14.5 | 20.5 | 25.5 | 34 | 43  | 60  | 75  | 88  | 109 |
| 90                     | 11                                     | 14.5 | 20.5 | 25.5 | 34 | 43  | 60  | 75  | 88  | 109 |
| 100                    | 11                                     | 14.5 | 20.5 | 25.5 | 34 | 43  | 60  | 75  | 88  | 109 |
| 112                    | 11                                     | 14.5 | 20.5 | 25.5 | 34 | 43  | 60  | 75  | 88  | 109 |
| 125                    | 11                                     | 14.5 | 20.5 | 25.5 | 34 | 43  | 60  | 75  | 88  | 109 |
| 140                    | 11                                     | 14.5 | 20.5 | 25.5 | 34 | 43  | 60  | 75  | 88  | 109 |
| 160                    | 11                                     | 14.5 | 20.5 | 25.5 | 34 | 43  | 60  | 75  | 88  | 109 |
| 180                    | 11                                     | 14.5 | 20.5 | 25.5 | 34 | 43  | 60  | 75  | 88  | 109 |
| 200                    | 11                                     | 14.5 | 20.5 | 25.5 | 34 | 43  | 60  | 75  | 88  | 109 |
| 224                    | -                                      | 14.5 | -    | 25.5 | -  | 43  | -   | 75  | -   | 109 |
| 250                    | -                                      | 14.5 | -    | 25.5 | -  | 43  | -   | 75  | -   | 109 |

Three stage  
Type **3SF..**

Sizes **50 ... 140**



| Size | Dimensions in mm |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|------|------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|
|      | Input            |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      | iN = 14 - 25     |     | iN = 18 - 31.5  |     | iN = 28 - 35.5  |     | iN = 35.5 - 45  |     | iN = 40 - 50    |     | iN = 50 - 63    |     |
|      | d <sup>1)</sup>  | l   | d <sup>1)</sup> | l   | d <sup>1)</sup> | l   | d <sup>1)</sup> | l   | d <sup>1)</sup> | l   | d <sup>1)</sup> | l   |
| 50   | 50               | 80  | -               | -   | 38              | 60  | -               | -   | 32              | 60  | -               | -   |
| 60   | -                | -   | 50              | 80  | -               | -   | 38              | 60  | -               | -   | 32              | 60  |
| 70   | 55               | 90  | -               | -   | 45              | 80  | -               | -   | 40              | 70  | -               | -   |
| 80   | -                | -   | 55              | 90  | -               | -   | 45              | 80  | -               | -   | 40              | 70  |
| 90   | 65               | 105 | -               | -   | 55              | 90  | -               | -   | 50              | 80  | -               | -   |
| 100  | -                | -   | 65              | 105 | -               | -   | 55              | 90  | -               | -   | 50              | 80  |
| 110  | 80               | 140 | -               | -   | 70              | 120 | -               | -   | 60              | 105 | -               | -   |
| 120  | -                | -   | 80              | 140 | -               | -   | 70              | 120 | -               | -   | 60              | 105 |
| 130  | 90               | 160 | -               | -   | 80              | 140 | -               | -   | 70              | 120 | -               | -   |
| 140  | -                | -   | 90              | 160 | -               | -   | 80              | 140 | -               | -   | 70              | 120 |

<sup>1)</sup> m<sub>6</sub> <= Ø 100 n<sub>6</sub> > Ø 100 Passfeder DIN 6885/1 Form B

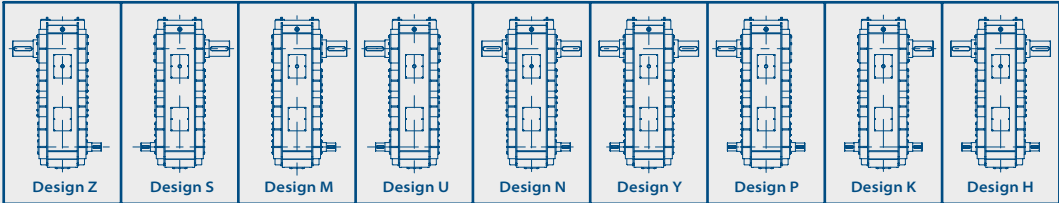
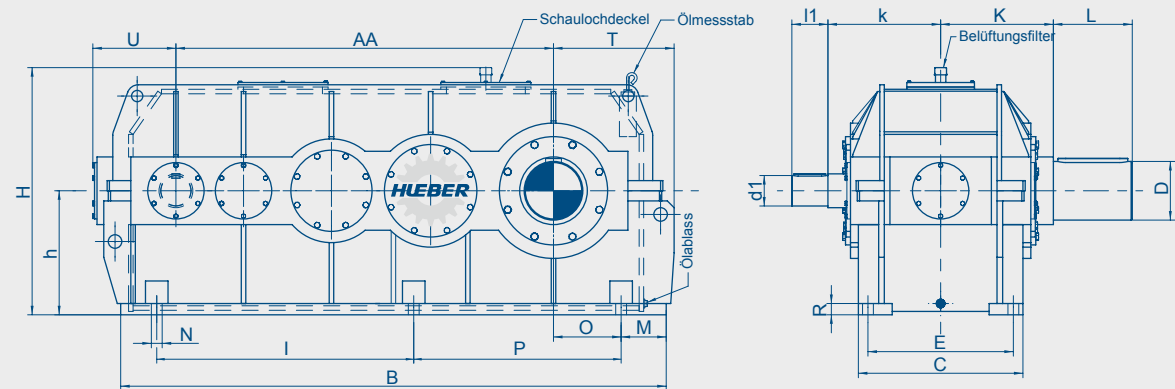
| Size | Dimensions in mm |      |     |     |     |     |       |     |     |     |     |     |       |    |     |     |     |     | Weight |
|------|------------------|------|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|-------|----|-----|-----|-----|-----|--------|
|      | A                | B    | C   | D   | E   | H   | I     | K   | L   | M   | Ø N | O   | P     | R  | T   | U   | h   | k   |        |
| 50   | 472              | 887  | 255 | 100 | 215 | 465 | 375   | 165 | 210 | 60  | 22  | 158 | 375   | 30 | 278 | 270 | 220 | 155 | 350    |
| 60   | 507              | 972  | 255 | 110 | 215 | 485 | 420   | 165 | 210 | 55  | 22  | 213 | 420   | 30 | 328 | 270 | 230 | 155 | 360    |
| 70   | 577              | 1025 | 320 | 120 | 270 | 505 | 430   | 195 | 210 | 80  | 26  | 140 | 430   | 30 | 272 | 300 | 240 | 190 | 480    |
| 80   | 622              | 1106 | 320 | 130 | 270 | 585 | 470   | 195 | 250 | 80  | 26  | 175 | 470   | 30 | 308 | 300 | 280 | 190 | 600    |
| 90   | 675              | 1190 | 390 | 140 | 330 | 605 | 500   | 235 | 250 | 95  | 33  | 160 | 500   | 35 | 320 | 330 | 280 | 230 | 800    |
| 100  | 725              | 1290 | 390 | 160 | 330 | 685 | 550   | 235 | 300 | 95  | 33  | 210 | 550   | 35 | 370 | 330 | 320 | 230 | 1000   |
| 110  | 815              | 1418 | 470 | 170 | 400 | 685 | 605   | 270 | 300 | 104 | 39  | 200 | 605   | 45 | 370 | 350 | 320 | 270 | 1200   |
| 120  | 885              | 1556 | 470 | 180 | 400 | 805 | 675   | 270 | 300 | 104 | 39  | 270 | 675   | 45 | 440 | 350 | 380 | 270 | 1600   |
| 130  | 950              | 1647 | 545 | 200 | 465 | 815 | 712.5 | 335 | 350 | 110 | 45  | 240 | 712.5 | 55 | 430 | 410 | 380 | 315 | 2000   |
| 140  | 1020             | 1783 | 545 | 210 | 465 | 935 | 782.5 | 335 | 350 | 110 | 45  | 310 | 782.5 | 55 | 500 | 410 | 440 | 315 | 2600   |



Solutions for industrial gearboxes

Four stage  
Type **4SF..**

Sizes **50 ... 140**



| Size | Dimensions in mm |     |                 |     |                 |     |                 |     |                 |    |                 |    |
|------|------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|----|-----------------|----|
|      | Input            |     |                 |     |                 |     |                 |     |                 |    |                 |    |
|      | iN = 20 - 100    |     | iN = 25 - 125   |     | iN = 112-125    |     | iN = 140 - 160  |     | iN = 140 - 200  |    | iN = 180 - 250  |    |
|      | d <sup>1)</sup>  | l   | d <sup>1)</sup> | l   | d <sup>1)</sup> | l   | d <sup>1)</sup> | l   | d <sup>1)</sup> | l  | d <sup>1)</sup> | l  |
| 50   | 40               | 70  | -               | -   | 30              | 50  | -               | -   | 24              | 40 | -               | -  |
| 60   | -                | -   | 40              | 70  | -               | -   | 30              | 50  | -               | -  | 24              | 40 |
| 70   | 45               | 80  | -               | -   | 35              | 60  | -               | -   | 30              | 50 | -               | -  |
| 80   | -                | -   | 45              | 80  | -               | -   | 35              | 60  | -               | -  | 30              | 50 |
| 90   | 60               | 105 | -               | -   | 45              | 80  | -               | -   | 35              | 60 | -               | -  |
| 100  | -                | -   | 60              | 105 | -               | -   | 45              | 80  | -               | -  | 35              | 60 |
| 110  | 70               | 120 | -               | -   | 50              | 80  | -               | -   | 42              | 70 | -               | -  |
| 120  | -                | -   | 70              | 120 | -               | -   | 50              | 80  | -               | -  | 42              | 70 |
| 130  | 85               | 140 | -               | -   | 60              | 105 | -               | -   | 50              | 80 | -               | -  |
| 140  | -                | -   | 85              | 140 | -               | -   | 60              | 105 | -               | -  | 50              | 80 |

<sup>1)</sup>m<sub>6</sub> <= Ø 100 n<sub>6</sub> > Ø 100 Passfeder DIN 6885/1 Form B

| Size | Dimensions in mm |      |     |     |     |     |       |     |     |     |     |     |       |    |     |     |     |     |        | Weight |
|------|------------------|------|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|-------|----|-----|-----|-----|-----|--------|--------|
|      | AA               | B    | C   | D   | E   | H   | I     | K   | L   | M   | Ø N | O   | P     | R  | T   | U   | h   | k   | 4SF .. |        |
| 50   | 562              | 887  | 255 | 100 | 215 | 465 | 375   | 165 | 210 | 60  | 22  | 158 | 375   | 30 | 278 | 270 | 220 | 155 | 310    |        |
| 60   | 597              | 972  | 255 | 110 | 215 | 485 | 420   | 165 | 210 | 55  | 22  | 213 | 420   | 30 | 328 | 270 | 230 | 155 | 370    |        |
| 70   | 687              | 1025 | 320 | 120 | 270 | 505 | 430   | 195 | 210 | 80  | 26  | 140 | 430   | 30 | 272 | 300 | 240 | 190 | 500    |        |
| 80   | 732              | 1106 | 320 | 130 | 270 | 585 | 470   | 195 | 250 | 80  | 26  | 175 | 470   | 30 | 308 | 300 | 280 | 190 | 620    |        |
| 90   | 805              | 1190 | 390 | 140 | 330 | 605 | 500   | 235 | 250 | 95  | 33  | 160 | 500   | 35 | 320 | 330 | 280 | 230 | 820    |        |
| 100  | 855              | 1290 | 390 | 160 | 330 | 685 | 550   | 235 | 300 | 95  | 33  | 210 | 550   | 35 | 370 | 330 | 320 | 230 | 1030   |        |
| 110  | 975              | 1418 | 470 | 170 | 400 | 685 | 605   | 270 | 300 | 104 | 39  | 200 | 605   | 45 | 370 | 350 | 320 | 270 | 1230   |        |
| 120  | 1045             | 1556 | 470 | 180 | 400 | 805 | 675   | 270 | 300 | 104 | 39  | 270 | 675   | 45 | 440 | 350 | 380 | 270 | 1640   |        |
| 130  | 1135             | 1647 | 545 | 200 | 465 | 815 | 712.5 | 335 | 350 | 110 | 45  | 240 | 712.5 | 55 | 430 | 410 | 380 | 315 | 2040   |        |
| 140  | 1205             | 1783 | 545 | 210 | 465 | 935 | 782.5 | 335 | 350 | 110 | 45  | 310 | 782.5 | 55 | 500 | 410 | 440 | 315 | 2650   |        |

Nominal Power Ratings  
Type **3SF..**

Sizes **150 ... 220**

| Nominal Power Ratings |                                            |                |      |      |      |      |      |      |      |      |
|-----------------------|--------------------------------------------|----------------|------|------|------|------|------|------|------|------|
| Type 3SF              |                                            |                |      |      |      |      |      |      |      |      |
| Ratio<br>iN           | Gear unit sizes                            |                |      |      |      |      |      |      |      |      |
|                       | n <sub>1</sub>                             | n <sub>2</sub> | 150  | 160  | 170  | 180  | 190  | 200  | 210  | 220  |
|                       | Nominal Power Ratings P <sub>N</sub> in kW |                |      |      |      |      |      |      |      |      |
| 18                    | 1500                                       | 83             | 1330 | -    | 1738 | -    | 2607 | -    | -    | -    |
|                       | 1000                                       | 58             | 929  | -    | 1215 | -    | 1822 | -    | 2551 | -    |
|                       | 750                                        | 42             | 673  | -    | 880  | -    | 1319 | -    | 1847 | -    |
| 20                    | 1500                                       | 75             | 1202 | 1359 | 1571 | 1885 | 2356 | 2709 | -    | -    |
|                       | 1000                                       | 50             | 801  | 906  | 1047 | 1257 | 1571 | 1806 | 2199 | 2461 |
|                       | 750                                        | 38             | 609  | 688  | 796  | 955  | 1194 | 1373 | 1671 | 1870 |
| 22.4                  | 1500                                       | 67             | 1073 | 1214 | 1403 | 1684 | 2105 | 2420 | -    | -    |
|                       | 1000                                       | 45             | 721  | 815  | 942  | 1131 | 1414 | 1626 | 1979 | 2215 |
|                       | 750                                        | 33             | 529  | 598  | 691  | 829  | 1037 | 1192 | 1451 | 1624 |
| 25                    | 1500                                       | 60             | 961  | 1087 | 1257 | 1508 | 1885 | 2168 | -    | -    |
|                       | 1000                                       | 40             | 641  | 725  | 838  | 1005 | 1257 | 1445 | 1759 | 1969 |
|                       | 750                                        | 30             | 481  | 543  | 628  | 754  | 942  | 1084 | 1319 | 1476 |
| 28                    | 1500                                       | 54             | 865  | 978  | 1131 | 1357 | 1696 | 1951 | -    | -    |
|                       | 1000                                       | 36             | 577  | 652  | 754  | 905  | 1131 | 1301 | 1583 | 1772 |
|                       | 750                                        | 27             | 433  | 489  | 565  | 679  | 848  | 975  | 1187 | 1329 |
| 31.5                  | 1500                                       | 48             | 769  | 870  | 1005 | 1206 | 1508 | 1734 | -    | -    |
|                       | 1000                                       | 32             | 513  | 580  | 670  | 804  | 1005 | 1156 | 1407 | 1575 |
|                       | 750                                        | 24             | 385  | 435  | 503  | 603  | 754  | 867  | 1055 | 1181 |
| 35.5                  | 1500                                       | 42             | 673  | 761  | 880  | 1055 | 1319 | 1517 | 1847 | -    |
|                       | 1000                                       | 28             | 449  | 507  | 586  | 704  | 880  | 1012 | 1231 | 1378 |
|                       | 750                                        | 21             | 336  | 380  | 440  | 528  | 660  | 759  | 924  | 1034 |
| 40                    | 1500                                       | 38             | 609  | 688  | 796  | 955  | 1194 | 1373 | 1671 | 1870 |
|                       | 1000                                       | 25             | 401  | 453  | 524  | 628  | 785  | 903  | 1099 | 1230 |
|                       | 750                                        | 18,8           | 301  | 341  | 394  | 472  | 591  | 679  | 827  | 925  |
| 45                    | 1500                                       | 33             | 529  | 598  | 691  | 829  | 1037 | 1192 | 1451 | 1624 |
|                       | 1000                                       | 22             | 352  | 399  | 461  | 553  | 691  | 795  | 968  | 1083 |
|                       | 750                                        | 16,7           | 268  | 303  | 350  | 420  | 525  | 603  | 734  | 822  |
| 50                    | 1500                                       | 30             | 481  | 543  | 628  | 754  | 942  | 1084 | 1319 | 1476 |
|                       | 1000                                       | 20             | 320  | 362  | 419  | 503  | 628  | 723  | 880  | 984  |
|                       | 750                                        | 15             | 240  | 272  | 314  | 377  | 471  | 542  | 660  | 738  |
| 56                    | 1500                                       | 27             | 433  | 489  | 565  | 679  | 848  | 975  | 1187 | 1329 |
|                       | 1000                                       | 17,9           | 287  | 324  | 375  | 450  | 562  | 647  | 787  | 881  |
|                       | 750                                        | 13,4           | 215  | 243  | 281  | 337  | 421  | 484  | 589  | 659  |



Nominal Power Ratings

Type **4SF..**

Sizes **150 ... 220**

| Nominal Power Ratings |                 |                |                                            |      |      |      |      |      |      |      |
|-----------------------|-----------------|----------------|--------------------------------------------|------|------|------|------|------|------|------|
| Type 4SF              |                 |                |                                            |      |      |      |      |      |      |      |
| Ratio<br>iN           | Gear unit sizes |                | Nominal Power Ratings P <sub>N</sub> in kW |      |      |      |      |      |      |      |
|                       | n <sub>1</sub>  | n <sub>2</sub> | 150                                        | 160  | 170  | 180  | 190  | 200  | 210  | 220  |
|                       | 1/min           |                |                                            |      |      |      |      |      |      |      |
| 20                    | 1500            | 75             | 1202                                       | -    | 1571 | -    | 2356 | -    | 3298 | -    |
|                       | 1000            | 50             | 801                                        | -    | 1047 | -    | 1571 | -    | 2199 | -    |
|                       | 750             | 38             | 609                                        | -    | 796  | -    | 1194 | -    | 1671 | -    |
| 22.4                  | 1500            | 67             | 1073                                       | 1214 | 1403 | 1684 | 2105 | 2420 | 2947 | 3297 |
|                       | 1000            | 45             | 721                                        | 815  | 942  | 1131 | 1414 | 1626 | 1979 | 2215 |
|                       | 750             | 33             | 529                                        | 598  | 691  | 829  | 1037 | 1192 | 1451 | 1624 |
| 25                    | 1500            | 60             | 961                                        | 1087 | 1257 | 1508 | 1885 | 2168 | 2639 | 2953 |
|                       | 1000            | 40             | 641                                        | 725  | 838  | 1005 | 1257 | 1445 | 1759 | 1696 |
|                       | 750             | 30             | 481                                        | 543  | 628  | 754  | 942  | 1084 | 1319 | 1476 |
| 28                    | 1500            | 54             | 865                                        | 978  | 1131 | 1357 | 1696 | 1951 | 2375 | 2658 |
|                       | 1000            | 36             | 577                                        | 652  | 754  | 905  | 1131 | 1301 | 1583 | 1772 |
|                       | 750             | 27             | 433                                        | 489  | 565  | 679  | 848  | 975  | 1187 | 1329 |
| 31.5                  | 1500            | 48             | 769                                        | 870  | 1005 | 1206 | 1508 | 1734 | 2111 | 2362 |
|                       | 1000            | 32             | 513                                        | 580  | 670  | 804  | 1005 | 1156 | 1407 | 1575 |
|                       | 750             | 24             | 385                                        | 435  | 503  | 603  | 754  | 867  | 1055 | 1181 |
| 35.5                  | 1500            | 42             | 673                                        | 761  | 880  | 1055 | 1319 | 1517 | 1847 | 2067 |
|                       | 1000            | 28             | 449                                        | 507  | 586  | 704  | 880  | 1012 | 1231 | 1378 |
|                       | 750             | 21             | 336                                        | 380  | 440  | 528  | 660  | 759  | 924  | 1034 |
| 40                    | 1500            | 38             | 609                                        | 688  | 796  | 955  | 1194 | 1373 | 1671 | 1870 |
|                       | 1000            | 25             | 401                                        | 453  | 524  | 628  | 785  | 903  | 1099 | 1230 |
|                       | 750             | 18,8           | 304                                        | 341  | 394  | 472  | 591  | 679  | 827  | 925  |
| 45                    | 1500            | 33             | 529                                        | 598  | 691  | 829  | 1037 | 1192 | 1451 | 1624 |
|                       | 1000            | 22             | 352                                        | 399  | 461  | 553  | 691  | 795  | 968  | 1083 |
|                       | 750             | 16,7           | 268                                        | 303  | 350  | 420  | 525  | 603  | 734  | 822  |
| 50                    | 1500            | 30             | 481                                        | 543  | 628  | 754  | 942  | 1084 | 1319 | 1476 |
|                       | 1000            | 20             | 320                                        | 362  | 419  | 503  | 628  | 723  | 880  | 984  |
|                       | 750             | 15             | 240                                        | 272  | 314  | 377  | 471  | 542  | 660  | 738  |
| 56                    | 1500            | 27             | 433                                        | 489  | 565  | 679  | 848  | 975  | 1187 | 1329 |
|                       | 1000            | 17,9           | 287                                        | 324  | 375  | 450  | 562  | 647  | 787  | 881  |
|                       | 750             | 13,4           | 215                                        | 243  | 281  | 337  | 421  | 484  | 589  | 659  |
| 63                    | 1500            | 22,4           | 359                                        | 406  | 469  | 563  | 704  | 809  | 985  | 1102 |
|                       | 1000            | 15,9           | 255                                        | 288  | 333  | 400  | 499  | 574  | 699  | 783  |
|                       | 750             | 11,9           | 191                                        | 216  | 249  | 299  | 374  | 430  | 523  | 586  |
| 71                    | 1500            | 21             | 336                                        | 380  | 440  | 528  | 660  | 759  | 924  | 1034 |
|                       | 1000            | 14,1           | 226                                        | 255  | 295  | 354  | 443  | 509  | 620  | 694  |
|                       | 750             | 10,6           | 170                                        | 192  | 222  | 266  | 333  | 383  | 466  | 522  |
| 80                    | 1500            | 18,8           | 301                                        | 341  | 394  | 472  | 591  | 679  | 827  | 925  |
|                       | 1000            | 12,5           | 200                                        | 226  | 262  | 314  | 393  | 452  | 550  | 615  |
|                       | 750             | 9,4            | 151                                        | 170  | 197  | 236  | 295  | 340  | 413  | 463  |
| 90                    | 1500            | 16,7           | 268                                        | 303  | 350  | 420  | 525  | 603  | 734  | 822  |
|                       | 1000            | 11,1           | 178                                        | 201  | 232  | 279  | 349  | 401  | 488  | 546  |
|                       | 750             | 8,3            | 133                                        | 150  | 174  | 209  | 261  | 300  | 365  | 408  |
| 100                   | 1500            | 15             | 240                                        | 272  | 314  | 377  | 471  | 542  | 660  | 738  |
|                       | 1000            | 10             | 160                                        | 181  | 209  | 251  | 314  | 361  | 440  | 492  |
|                       | 750             | 7,5            | 120                                        | 136  | 157  | 188  | 236  | 271  | 330  | 369  |
| 112                   | 1500            | 13,4           | 215                                        | 243  | 281  | 337  | 421  | 484  | 589  | 659  |
|                       | 1000            | 8,9            | 143                                        | 161  | 186  | 224  | 280  | 322  | 391  | 438  |
|                       | 750             | 6,7            | 107                                        | 121  | 140  | 168  | 210  | 242  | 295  | 330  |
| 125                   | 1500            | 12             | 192                                        | 217  | 251  | 302  | 377  | 434  | 528  | 591  |
|                       | 1000            | 8              | 128                                        | 145  | 168  | 201  | 251  | 289  | 352  | 394  |
|                       | 750             | 6              | 96                                         | 109  | 126  | 151  | 188  | 217  | 264  | 295  |
| 140                   | 1500            | 10,7           | 171                                        | 194  | 224  | 269  | 336  | 387  | 571  | 527  |
|                       | 1000            | 7,1            | 114                                        | 129  | 149  | 178  | 223  | 256  | 312  | 349  |
|                       | 750             | 5,4            | 87                                         | 98   | 113  | 136  | 170  | 195  | 237  | 266  |

Nominal Output Torques

Types **3SF.., 4SF..**

Sizes **150 ... 220**

| Nominal Output Torques |                                               |     |     |     |     |     |     |     |
|------------------------|-----------------------------------------------|-----|-----|-----|-----|-----|-----|-----|
| Type 3SF               |                                               |     |     |     |     |     |     |     |
| Ratio<br>iN            | Gear unit sizes                               |     |     |     |     |     |     |     |
|                        | 150                                           | 160 | 170 | 180 | 190 | 200 | 210 | 220 |
|                        | Nominal Output Torques T <sub>2N</sub> in kNm |     |     |     |     |     |     |     |
| 18                     | 153                                           | -   | 200 | -   | 300 | -   | 420 | -   |
| 20                     | 153                                           | 173 | 200 | 240 | 300 | 345 | 420 | 470 |
| 22.4                   | 153                                           | 173 | 200 | 240 | 300 | 345 | 420 | 470 |
| 25                     | 153                                           | 173 | 200 | 240 | 300 | 345 | 420 | 470 |
| 28                     | 153                                           | 173 | 200 | 240 | 300 | 345 | 420 | 470 |
| 31.5                   | 153                                           | 173 | 200 | 240 | 300 | 345 | 420 | 470 |
| 35.5                   | 153                                           | 173 | 200 | 240 | 300 | 345 | 420 | 470 |
| 40                     | 153                                           | 173 | 200 | 240 | 300 | 345 | 420 | 470 |
| 45                     | 153                                           | 173 | 200 | 240 | 300 | 345 | 420 | 470 |
| 50                     | 153                                           | 173 | 200 | 240 | 300 | 345 | 420 | 470 |
| 56                     | 153                                           | 173 | 200 | 240 | 300 | 345 | 420 | 470 |

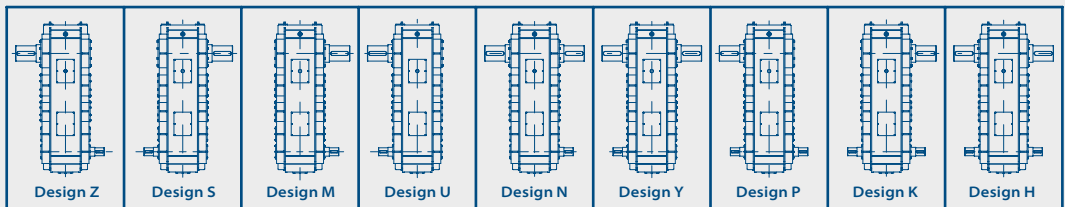
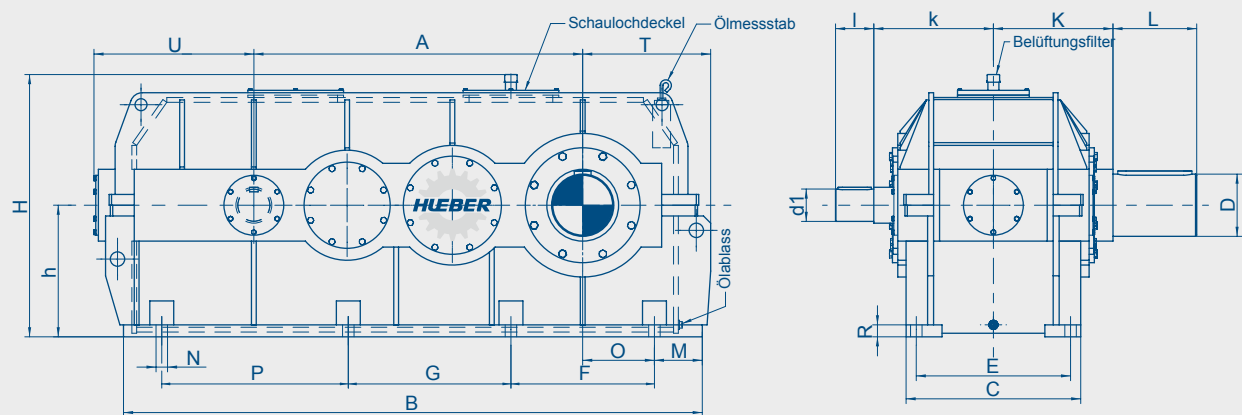
| Nominal Output Torques |                                               |     |     |     |     |     |     |     |
|------------------------|-----------------------------------------------|-----|-----|-----|-----|-----|-----|-----|
| Type 4SF               |                                               |     |     |     |     |     |     |     |
| Ratio<br>iN            | Gear unit sizes                               |     |     |     |     |     |     |     |
|                        | 150                                           | 160 | 170 | 180 | 190 | 200 | 210 | 220 |
|                        | Nominal Output Torques T <sub>2N</sub> in kNm |     |     |     |     |     |     |     |
| 20                     | 153                                           | -   | 200 | -   | 300 | -   | 420 | -   |
| 22.4                   | 153                                           | 173 | 200 | 240 | 300 | 345 | 420 | 470 |
| 25                     | 153                                           | 173 | 200 | 240 | 300 | 345 | 420 | 470 |
| 28                     | 153                                           | 173 | 200 | 240 | 300 | 345 | 420 | 470 |
| 31.5                   | 153                                           | 173 | 200 | 240 | 300 | 345 | 420 | 470 |
| 35.5                   | 153                                           | 173 | 200 | 240 | 300 | 345 | 420 | 470 |
| 40                     | 153                                           | 173 | 200 | 240 | 300 | 345 | 420 | 470 |
| 45                     | 153                                           | 173 | 200 | 240 | 300 | 345 | 420 | 470 |
| 50                     | 153                                           | 173 | 200 | 240 | 300 | 345 | 420 | 470 |
| 56                     | 153                                           | 173 | 200 | 240 | 300 | 345 | 420 | 470 |
| 63                     | 153                                           | 173 | 200 | 240 | 300 | 345 | 420 | 470 |
| 71                     | 153                                           | 173 | 200 | 240 | 300 | 345 | 420 | 470 |
| 80                     | 153                                           | 173 | 200 | 240 | 300 | 345 | 420 | 470 |
| 90                     | 153                                           | 173 | 200 | 240 | 300 | 345 | 420 | 470 |
| 100                    | 153                                           | 173 | 200 | 240 | 300 | 345 | 420 | 470 |
| 112                    | 153                                           | 173 | 200 | 240 | 300 | 345 | 420 | 470 |
| 125                    | 153                                           | 173 | 200 | 240 | 300 | 345 | 420 | 470 |
| 140                    | 153                                           | 173 | 200 | 240 | 300 | 345 | 420 | 470 |





Three stage  
Type **3SF..**

Sizes **150 ... 220**



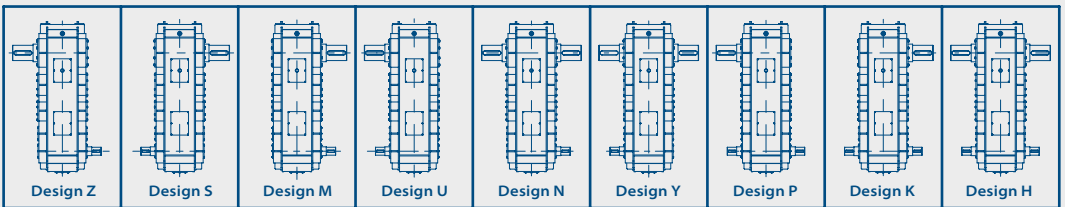
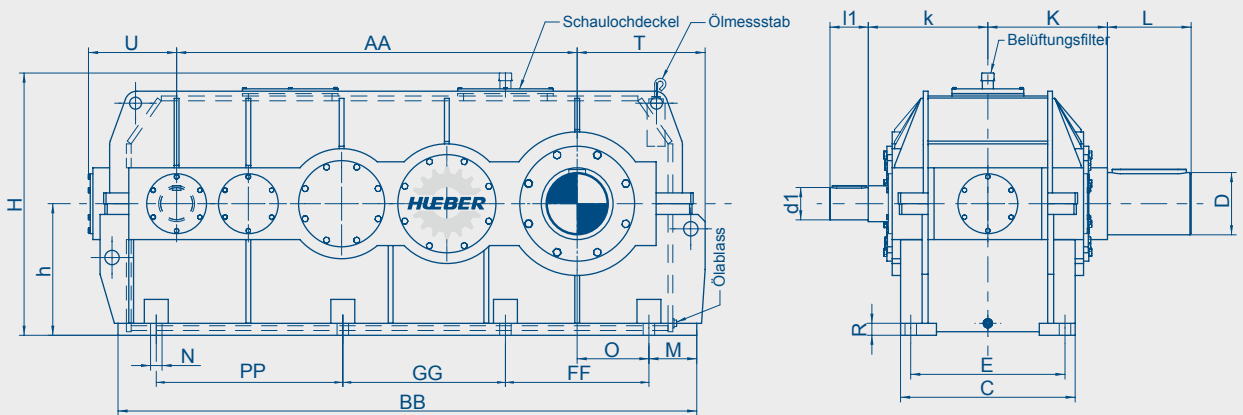
| Size | Dimensions in mm  |     |                   |     |                   |     |                 |     |
|------|-------------------|-----|-------------------|-----|-------------------|-----|-----------------|-----|
|      | Input             |     |                   |     |                   |     |                 |     |
|      | $i_N = 18 - 31,5$ |     | $i_N = 20 - 35,5$ |     | $i_N = 35,5 - 56$ |     | $i_N = 40 - 56$ |     |
|      | $d^{1)}$          | l   | $d^{1)}$          | l   | $d^{1)}$          | l   | $d^{1)}$        | l   |
| 150  | 110               | 180 | -                 | -   | 90                | 160 | -               | -   |
| 160  | -                 | -   | 110               | 180 | -                 | -   | 90              | 160 |
| 170  | 130               | 210 | -                 | -   | 110               | 180 | -               | -   |
| 180  | -                 | -   | 130               | 210 | -                 | -   | 110             | 180 |
| 190  | 150               | 240 | -                 | -   | 130               | 210 | -               | -   |
| 200  | -                 | -   | 150               | 240 | -                 | -   | 130             | 210 |
| 210  | 180               | 310 | -                 | -   | 150               | 240 | -               | -   |
| 220  | -                 | -   | 180               | 310 | -                 | -   | 150             | 240 |

<sup>1)</sup>  $m_6 \leq \varnothing 100$   $n_6 > \varnothing 100$  Passfeder DIN 6885/1 Form B

| Size | Dimensions in mm |      |     |     |     |     |     |      |     |     |     |    |     |     |    |     |     |     |     | Weight |
|------|------------------|------|-----|-----|-----|-----|-----|------|-----|-----|-----|----|-----|-----|----|-----|-----|-----|-----|--------|
|      | A                | B    | C   | D   | E   | F   | G   | H    | K   | L   | M   | ØN | O   | P   | R  | T   | U   | h   | k   | 3SF .. |
| 150  | 1067             | 1660 | 595 | 230 | 520 | 550 | 470 | 945  | 400 | 260 | 85  | 42 | 315 | 470 | 40 | 525 | 340 | 440 | 355 | 3300   |
| 160  | 1113             | 1750 | 595 | 240 | 520 | 640 | 470 | 1060 | 400 | 315 | 85  | 42 | 360 | 470 | 40 | 575 | 350 | 500 | 355 | 3800   |
| 170  | 1205             | 1870 | 655 | 250 | 580 | 620 | 540 | 1070 | 450 | 315 | 85  | 42 | 350 | 540 | 45 | 565 | 380 | 500 | 390 | 4500   |
| 180  | 1265             | 2000 | 655 | 270 | 580 | 750 | 540 | 1160 | 450 | 350 | 85  | 42 | 420 | 540 | 45 | 635 | 400 | 550 | 390 | 5300   |
| 190  | 1380             | 2120 | 730 | 290 | 645 | 700 | 610 | 1175 | 500 | 350 | 100 | 48 | 400 | 610 | 50 | 635 | 420 | 550 | 440 | 6800   |
| 200  | 1440             | 2250 | 730 | 300 | 645 | 830 | 610 | 1315 | 500 | 380 | 100 | 48 | 470 | 610 | 50 | 705 | 420 | 620 | 440 | 7600   |
| 210  | 1592             | 2450 | 790 | 320 | 700 | 810 | 700 | 1330 | 550 | 380 | 120 | 56 | 450 | 700 | 55 | 705 | 460 | 620 | 480 | 9300   |
| 220  | 1647             | 2565 | 790 | 340 | 700 | 925 | 700 | 1485 | 550 | 410 | 120 | 56 | 510 | 700 | 55 | 765 | 480 | 700 | 480 | 10000  |

Four stage  
Type **4SF..**

Sizes **150 ... 220**



| Size | Dimensions in mm |     |                    |     |                   |     |                   |     |
|------|------------------|-----|--------------------|-----|-------------------|-----|-------------------|-----|
|      | Input            |     |                    |     |                   |     |                   |     |
|      | $i_N = 20 - 100$ |     | $i_N = 22,4 - 112$ |     | $i_N = 112 - 140$ |     | $i_N = 125 - 140$ |     |
|      | $d^{1)}$         | l   | $d^{1)}$           | l   | $d^{1)}$          | l   | $d^{1)}$          | l   |
| 150  | 90               | 160 | -                  | -   | 70                | 120 | -                 | -   |
| 160  | -                | -   | 90                 | 160 | -                 | -   | 70                | 120 |
| 170  | 110              | 180 | -                  | -   | 90                | 160 | -                 | -   |
| 180  | -                | -   | 110                | 180 | -                 | -   | 90                | 160 |
| 190  | 110              | 180 | -                  | -   | 90                | 160 | -                 | -   |
| 200  | -                | -   | 110                | 180 | -                 | -   | 90                | 160 |
| 210  | 130              | 210 | -                  | -   | 110               | 180 | -                 | -   |
| 220  | -                | -   | 130                | 210 | -                 | -   | 110               | 180 |

<sup>1)</sup>  $m_6 \leq \varnothing 100$   $n_6 > \varnothing 100$  Passfeder DIN 6885/1 Form B

| Size | Dimensions in mm |      |     |     |     |     |     |      |     |     |     |    |     |     |    |     |     |     |     |        | Weight |
|------|------------------|------|-----|-----|-----|-----|-----|------|-----|-----|-----|----|-----|-----|----|-----|-----|-----|-----|--------|--------|
|      | AA               | BB   | C   | D   | E   | FF  | GG  | H    | K   | L   | M   | ØN | O   | PP  | R  | T   | U   | h   | k   | 4SF .. |        |
| 150  | 1347             | 1940 | 595 | 230 | 520 | 600 | 600 | 945  | 400 | 260 | 85  | 42 | 315 | 570 | 40 | 525 | 340 | 440 | 355 | 3900   |        |
| 160  | 1393             | 2030 | 595 | 240 | 520 | 690 | 600 | 1060 | 400 | 315 | 85  | 42 | 360 | 570 | 40 | 575 | 350 | 500 | 355 | 4300   |        |
| 170  | 1500             | 2165 | 655 | 250 | 580 | 660 | 660 | 1070 | 450 | 315 | 85  | 42 | 350 | 675 | 45 | 565 | 380 | 500 | 390 | 5200   |        |
| 180  | 1560             | 2295 | 655 | 270 | 580 | 790 | 660 | 1160 | 450 | 350 | 85  | 42 | 420 | 675 | 45 | 635 | 400 | 550 | 390 | 6000   |        |
| 190  | 1675             | 2420 | 730 | 290 | 645 | 760 | 760 | 1175 | 500 | 350 | 100 | 48 | 400 | 700 | 50 | 635 | 420 | 550 | 440 | 7500   |        |
| 200  | 1735             | 2550 | 730 | 300 | 645 | 890 | 760 | 1315 | 500 | 380 | 100 | 48 | 470 | 700 | 50 | 705 | 420 | 620 | 440 | 8400   |        |
| 210  | 1935             | 2790 | 790 | 320 | 700 | 870 | 870 | 1330 | 550 | 380 | 120 | 56 | 450 | 810 | 55 | 705 | 460 | 620 | 480 | 10400  |        |
| 220  | 1990             | 2905 | 790 | 340 | 700 | 985 | 870 | 1485 | 550 | 410 | 120 | 56 | 510 | 810 | 55 | 765 | 480 | 700 | 480 | 11000  |        |



*Solutions for industrial gearboxes*

## HUEBER Service

### Your Unbeatable Advantage

#### Service and Maintenance

- » Condition monitoring system with optional remote monitoring
- » Endoscopic in-situ inspection
- » Condition analysis, individual service solutions
- » 5 years of warranty with HUEBER service contract

#### Spare Parts

- » Due to our in house production, we deliver spare parts within shortest lead times
- » Our service department offers you strategic spare parts management, individually planned for your application and your operating environment. In combination with a HUEBER service contract, you enjoy carefree operation of your plant as we take care for your valuable equipment.
- » HUEBER designs and produces spare parts for all brands

#### Repair

- » Overhauling and repair of all brands, on site or at Hueber works
- » Short reaction time, high flexibility
- » Repair process is carried out only by Hueber service engineers, supervised and monitored by our experienced team of design engineers
- » Performance upgrades for older gearboxes

### Full Service

- » Development of individual maintenance concepts
- » Experienced project management by our service engineers
- » Complete maintenance servicing for gearboxes and mounted components
- » HUEBER not only provides you a reproduction gearbox for replacement in an older plant, but also may design a completely new one, underlying the preexisting mating dimensions







*Solutions for industrial gearboxes*

# HUEBER Getriebebau

is a competent specialist for special and standard gearboxes in many different fields of application for more than 100 years.

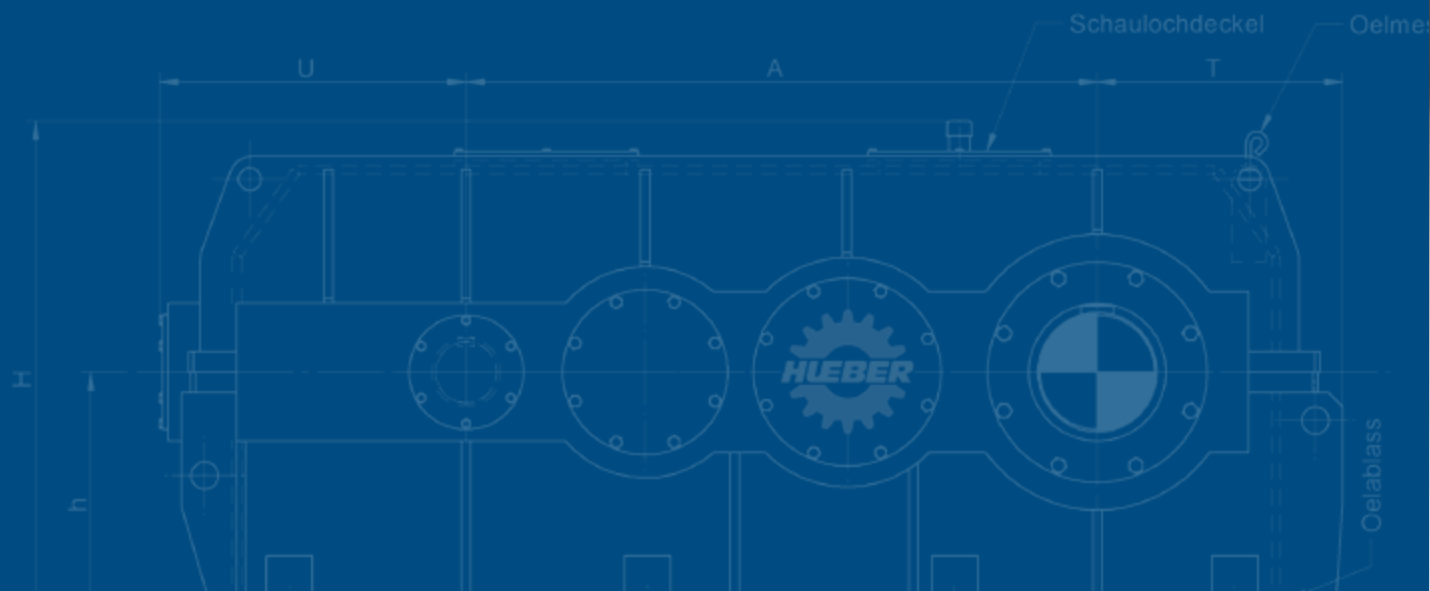
In addition to the innovative development and the precise manufacturing of our gearboxes, we now offer complete service packages from a single source.

In an intensity that you'd expect, and in a new quality you deserve as a customer.

## **Benefit from:**

- » Expert advice by Key Account Managers and Sales Managers who will actively support you as your permanent contact persons
- » Even faster processing and punctual execution ensured by effective Supply Chain Management
- » Reliable and immediate service offerings such as maintenance, repair and supply of spare parts guaranteeing high operating safety and availability of your systems

**HUEBER** - *Solutions for industrial gearboxes*







*Solutions for industrial gearboxes*

## For more than 100 years

For more than 100 years, the HUEBER Getriebebau GmbH is building highest quality industrial gearboxes at Kirn in Rheinland-Pfalz/Germany.

The company was founded in 1909 under the name Heinrich Baacke Machines and Gear Factory and survived successfully against all odds of the previous century.

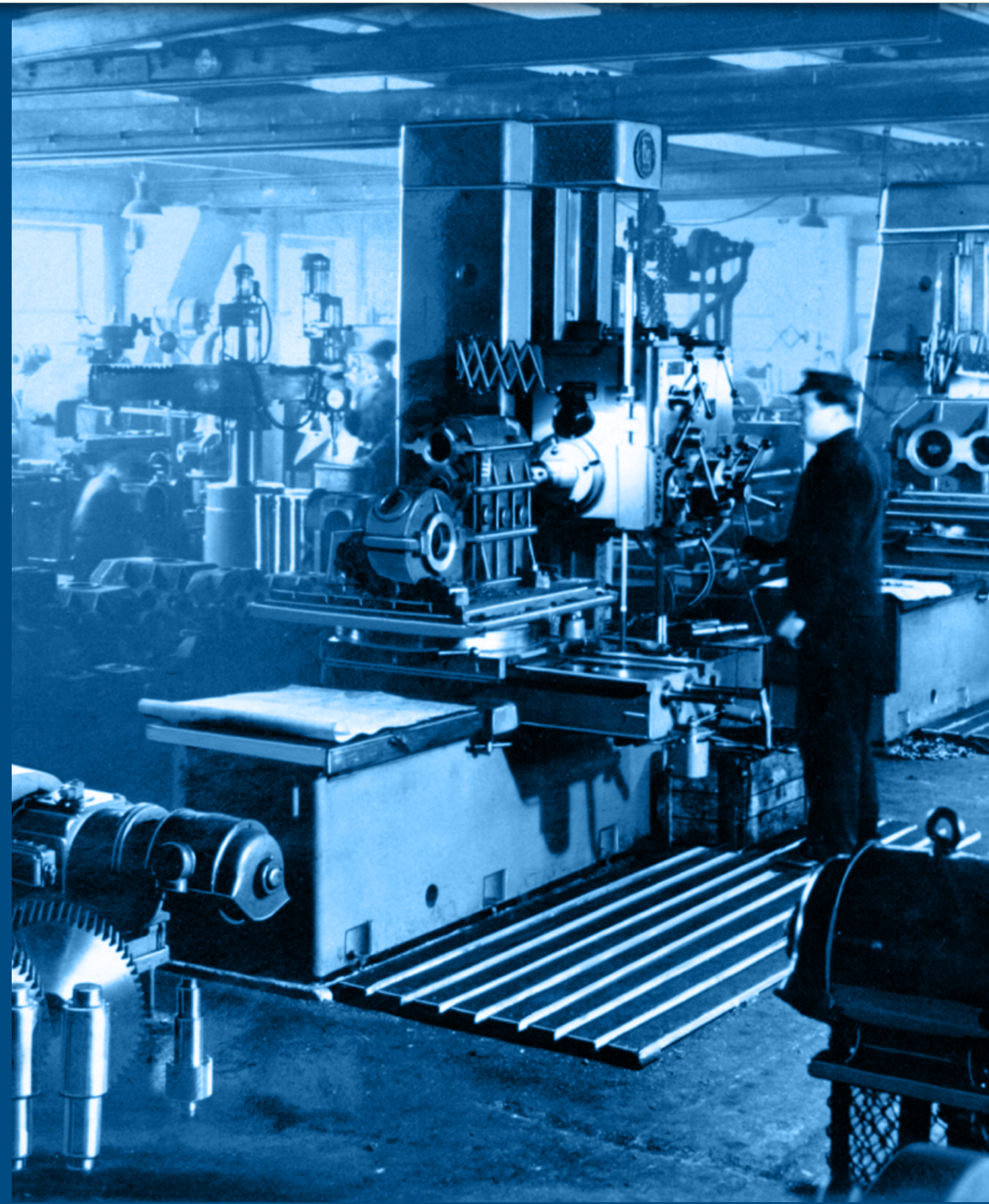


In 1984, the takeover of the company by HUEBER took place. At the beginning it continued under the name Baacke and was later renamed to HUEBER Getriebebau GmbH.

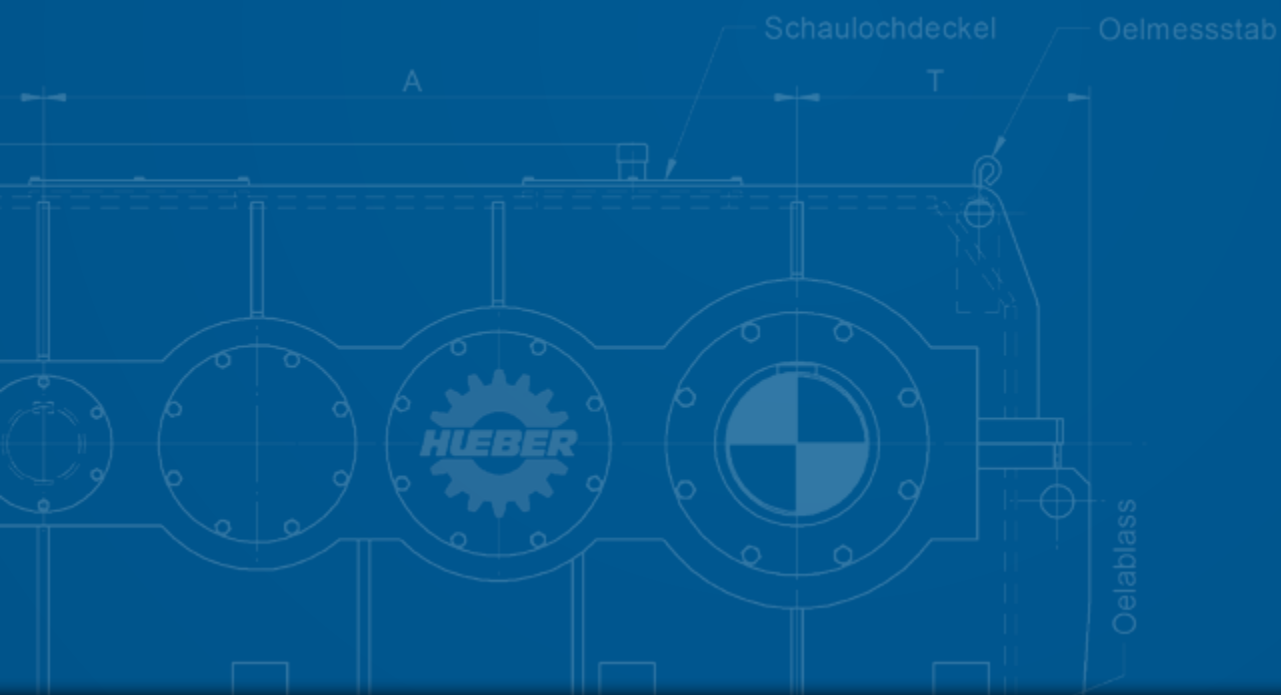
Another milestone was reached in December 2012, when the company was taken over by the three engineers Andreas Gühring, Alexander Remes and Peter Rothgang.

The success over decades of the HUEBER Getriebebau GmbH is characterized by its employees with long company affiliation and a strong attachment to the company's location. They combine technical know-how in engineered development and meticulousness in production, so HUEBER gearboxes are one of the leading products in the industry in terms of quality, durability and technical maturity.

**[www.hueber-gmbh.com](http://www.hueber-gmbh.com)**







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