

Precision steel pipes DIN EN 10305-1 (DIN 2391-1/-2)

Seamless cold drawn precision steel pipes

| Area of applications | Automotive, mechanical and plant engineering | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|------------|------------------------|-------------------------|------------|---------------------|------|-------|---------------------|-------|----------------|----------------------------------|-----|-----|----------|----|-----|------------|----|-----|
| Order text example | Precision steel pipe, seamless, DIN EN 10305-1, E235 +N (normalized), inspection certificate acc. to EN 10204/3.1 60.0 × 2.0 mm | | | | | | | | | | | | | | | | | | | |
| Materials | <table border="1"> <thead> <tr> <th>Designation acc. to EN</th> <th>Designation acc. to DIN</th> </tr> </thead> <tbody> <tr> <td>E215</td> <td>St 30 Al</td> </tr> <tr> <td>E235</td> <td>St 35</td> </tr> <tr> <td>E355</td> <td>St 52</td> </tr> <tr> <td>Special grades</td> <td></td> </tr> </tbody> </table> | | Designation acc. to EN | Designation acc. to DIN | E215 | St 30 Al | E235 | St 35 | E355 | St 52 | Special grades | | | | | | | | | |
| Designation acc. to EN | Designation acc. to DIN | | | | | | | | | | | | | | | | | | | |
| E215 | St 30 Al | | | | | | | | | | | | | | | | | | | |
| E235 | St 35 | | | | | | | | | | | | | | | | | | | |
| E355 | St 52 | | | | | | | | | | | | | | | | | | | |
| Special grades | | | | | | | | | | | | | | | | | | | | |
| Delivery conditions | <table border="1"> <thead> <tr> <th>Designation</th> <th>EN symbol</th> <th>DIN symbol</th> </tr> </thead> <tbody> <tr> <td>Cold finished, hard</td> <td>+C</td> <td>BK</td> </tr> <tr> <td>Cold finished, soft</td> <td>+LC</td> <td>BKW</td> </tr> <tr> <td>Cold finished and stressrelieved</td> <td>+SR</td> <td>BKS</td> </tr> <tr> <td>Annealed</td> <td>+A</td> <td>GBK</td> </tr> <tr> <td>Normalized</td> <td>+N</td> <td>NBK</td> </tr> </tbody> </table> | | Designation | EN symbol | DIN symbol | Cold finished, hard | +C | BK | Cold finished, soft | +LC | BKW | Cold finished and stressrelieved | +SR | BKS | Annealed | +A | GBK | Normalized | +N | NBK |
| Designation | EN symbol | DIN symbol | | | | | | | | | | | | | | | | | | |
| Cold finished, hard | +C | BK | | | | | | | | | | | | | | | | | | |
| Cold finished, soft | +LC | BKW | | | | | | | | | | | | | | | | | | |
| Cold finished and stressrelieved | +SR | BKS | | | | | | | | | | | | | | | | | | |
| Annealed | +A | GBK | | | | | | | | | | | | | | | | | | |
| Normalized | +N | NBK | | | | | | | | | | | | | | | | | | |
| Manufacturing lengths | 4,000 to 7,000 mm | | | | | | | | | | | | | | | | | | | |
| Range of sizes | 4.0 to 260.0 mm | | | | | | | | | | | | | | | | | | | |
| Wall thicknesses | 0.5 to 25.0 mm | | | | | | | | | | | | | | | | | | | |
| Dimensions and weights | According to separate table | | | | | | | | | | | | | | | | | | | |
| Tolerances | <p>Outside diameter ± 0.08 to 1.30 mm / according to separate table</p> <p>Inside diameter ± 0.15 to 1.30 mm</p> <p>Multipliers apply to heat-treated pipes.</p> <p>Wall thickness ± 10 % or ± 0.10 mm, whichever is the greater</p> | | | | | | | | | | | | | | | | | | | |
| Inspection certificate | According to DIN EN 10204/3.1 or 3.2 | | | | | | | | | | | | | | | | | | | |
| Marking | No marking on the pipe, label on the bundle | | | | | | | | | | | | | | | | | | | |