

UnionOcel

Your partner in steel

RANGE OF PRODUCTS





Assortment plates

Non-alloy structural steels

EN 10025-2

| Marking | Thickness [mm] | Width [mm] | Length [mm] |
|---------|----------------|-------------|-------------|
| S235JR | 3–250 | 1 000–4 000 | 16 000 |
| S355J2 | 3–300 | 1 000–3 500 | 16 000 |
| S355J2C | 3–30 | 1 000–3 500 | 16 000 |

Normalized/normalized rolled fine grain structural steels Thermomechanical rolled fine grain structural steels

EN 10025-3
EN 10025-4

| Marking | Thickness [mm] | Width [mm] | Length [mm] |
|---------------|----------------|-------------|-------------|
| S355NL/S355ML | 2–220 | 1 000–4 000 | 16 000 |
| S420NL/S420ML | 8–120 | 1 000–3 500 | 16 000 |
| S460NL/S460ML | 4–180 | 1 000–3 500 | 16 000 |

Structural steels with improved atmospheric corrosion resistance

EN 10025-5

| Marking | Thickness [mm] | Width [mm] | Length [mm] |
|----------|----------------|-------------|-------------|
| S355J0WP | 1–12 | 1 000–2 500 | max. 12 000 |
| S355J2WP | 1–12 | 1 000–2 500 | max. 12 000 |
| S355J0W | 3–50 | 1 000–2 500 | max. 12 000 |
| S355J2W | 3–50 | 1 000–2 500 | max. 12 000 |

High yield strength structural steels in the quenched and temp. condition

EN 10025-6

| Marking | Thickness [mm] | Width [mm] | Length [mm] |
|---------|----------------|-------------|-------------|
| S690QL | 2–200 | 1 000–3 000 | 13 000 |
| S890QL | 4–120 | 1 000–3 000 | 12 000 |
| S960QL | 4–100 | 1 000–3 000 | 12 000 |
| S1100QL | 4–40 | 1 000–3 000 | 12 000 |

Steels for pressure purposes – non-alloy and alloy steels

EN 10028-2

| Marking | Thickness [mm] | Width [mm] | Length [mm] |
|------------|----------------|-------------|-------------|
| P265GH | 3–250 | 1 000–4 000 | 14 000 |
| P295GH | 5–120 | 1 000–3 500 | 12 000 |
| P355GH | 3–220 | 1 000–3 500 | 12 000 |
| 16Mo3 | 1,5–200 | 1 000–3 000 | 12 000 |
| 13CrMo4-5 | 3–160 | 1 000–3 000 | 12 000 |
| 10CrMo9-10 | 3–120 | 1 000–2 500 | 12 000 |

Steels for pressure purposes – fine grain steels, normalized

EN 10028-3

| Marking | Thickness [mm] | Width [mm] | Length [mm] |
|------------------|----------------|-------------|-------------|
| P275N/NH/NL1/NL2 | 5–120 | 1 000–4 000 | 14 000 |
| P355N/NH/NL1/NL2 | 3–220 | 1 000–3 500 | 13 000 |
| P460N/NH/NL1/NL2 | 4–180 | 1 000–3 000 | 13 000 |

High yield strength steels for cold forming – thermomechanically rolled

EN 10149-2

| Marking | Thickness [mm] | Width [mm] | Length [mm] |
|---------|----------------|-------------|-------------|
| S315MC | 1,5–20 | 1 000–2 500 | 12 000 |
| S355MC | 1,5–20 | 1 000–2 500 | 12 000 |
| S420MC | 1,5–20 | 1 000–2 500 | 12 000 |
| S460MC | 1,5–20 | 1 000–2 500 | 12 000 |
| S500MC | 1,5–16 | 1 000–2 500 | 12 000 |
| S550MC | 1,5–16 | 1 000–2 500 | 12 000 |
| S600MC | 1,5–16 | 1 000–2 500 | 12 000 |
| S650MC | 1,5–16 | 1 000–2 500 | 12 000 |
| S700MC | 1,5–16 | 1 000–2 500 | 12 000 |



Wear resistant steels

| Marking | Thickness [mm] | Width [mm] | Length [mm] |
|---------------|----------------|-------------|-------------|
| XAR 300 | 3-50 | 1 000-2 500 | 12 000 |
| XAR 400 | 3-100 | 1 000-2 500 | 12 000 |
| XAR 400 W | 4-40 | 1 000-2 500 | 12 000 |
| XAR 400 HR | 4-25 | 1 000-2 500 | 12 000 |
| XAR 400 HT | 4-100 | 1 000-2 500 | 12 000 |
| XAR 450 | 3-100 | 1 000-3 000 | 12 000 |
| XAR 500 | 3-100 | 1 000-3 000 | 12 000 |
| XAR 600 | 4-50 | 1 000-2 500 | 12 000 |
| Durostat 400 | 6-100 | 1 000-2 500 | 12 000 |
| Durostat 450 | 6-50 | 2 500-3 000 | 12 000 |
| Durostat 500 | 10-30 | 1 000-2 500 | 12 000 |
| Dilidur 325 L | 5-50 | 1 000-3 000 | 12 000 |
| Dilidur 400 V | 6-150 | 1 000-3 000 | 12 000 |
| Dilidur 500 V | 8-100 | 1 000-3 000 | 12 000 |
| Dilidur 550 | 10-51 | 1 000-3 300 | 12 000 |
| Brinar 400 Cr | 6-25 | 1 000-3 500 | 14 000 |
| X 120 Mn 12 | 1,5-60 | 1 000-2 500 | 6 000 |

SP/COROPLATE

Further details s. special catalog

ASME standard steels

| Marking | Thickness [mm] | Width [mm] | Length [mm] |
|-----------------------|----------------|-------------|-------------|
| SA 36 | 3-110 | 1 000-3 500 | max. 16 000 |
| SA 283 Grade C | 4-25 | 1 000-3 500 | max. 16 000 |
| SA 285 Grade C | 4-25 | 1 000-3 500 | max. 16 000 |
| SA 516 Grade 60/415 | 3-270 | 1 000-4 000 | max. 16 000 |
| SA 516 Grade 65/450 | 3-250 | 1 000-4 000 | max. 16 000 |
| SA 516 Grade 70/485 | 3-250 | 1 000-4 000 | max. 16 000 |
| SA 537 Cl.1 | 4-200 | 1 000-4 000 | max. 16 000 |
| SA 387 Grade 12 Cl. 2 | 3-200 | 1 000-3 000 | max. 12 000 |
| SA 387 Grade 11 Cl. 2 | 5-80 | 1 000-3 000 | max. 12 000 |
| SA 387 Grade 22 Cl. 2 | 4-100 | 1 000-3 000 | max. 12 000 |
| SA 387 Grade 5 Cl. 2 | 6-80 | 1 000-3 000 | max. 12 000 |

Ship building quality steels

| Marking | Thickness [mm] | Width [mm] | Length [mm] |
|-----------|----------------|-------------|-------------|
| Grade A | 3-100 | 1 000-3 500 | max. 16 000 |
| Grade D | 4-120 | 1 000-4 000 | max. 16 000 |
| Grade E | 4-120 | 1 000-4 000 | max. 16 000 |
| D36 | 4-60 | 1 000-4 000 | max. 16 000 |
| E36/EH 36 | 5-250 | 1 000-3 500 | max. 16 000 |
| F36/FH36 | 6-100 | 1 000-3 500 | max. 16 000 |
| EH40 | 8-40 | 1 050-3 500 | max. 16 000 |



Metal plate processing

Flame cutting

Oxygen cutting machine ESAB SUPRAREX

| | |
|----------------------|-----------------------|
| Plate thickness [mm] | Table Dimensions [mm] |
| 10–330 | 4 000 × 24 000 |

Plasma cutting machine ESAB SUPRAREX HD 4500 and PIERCE RUM 3500

| | |
|----------------------|-----------------------|
| Plate thickness [mm] | Table Dimensions [mm] |
| 1,5–40 | 3 000 × 24 000 |

3D cutting: preparation of welded edges from +45° to -45°, edges X, Y and K, up to 40 mm square cut, up to 32 mm 45° cut

Laser LVD Impulse 12530/5kW power

| | |
|---------------------------|-----------------------|
| Plate thickness [mm] max. | Table Dimensions [mm] |
| 20 | 3 000 × 12 000 |

Laser Trumpf TruLaser 3060/4kW power

| | |
|---------------------------|-----------------------|
| Plate thickness [mm] max. | Table Dimensions [mm] |
| 20 | 2 500 × 6 000 |

Scissors shearing

Hydraulic shears CNG HGM 3020

| | | |
|-----------------------|--|--|
| Plate width (mm) max. | Plate thickness max. Re max. 450 MPa (mm) | Plate thickness max. Re max. 700 MPa (mm) |
| 3 080 | 20 | 13 |

Bending

Press brake LVD 400/4080

| | |
|--------------------------|-------------------------|
| Working length [mm] max. | Pressing force [t] max. |
| 4 000 | 400 |

Press brake LVD PPEB

| | |
|--------------------------|-------------------------|
| Working length [mm] max. | Pressing force [t] max. |
| 6 000 | 1 250 |

Mechanical processing

CNC machining centre MCFV2080

| | |
|---------------------|-----------------------|
| Table load [t] max. | Table Dimensions [mm] |
| 3 | 800 × 2 000 |

CNC machining centre FVC

| | |
|---------------------|-----------------------|
| Table load [t] max. | Table Dimensions [mm] |
| 11 | 1 600 × 4 000 |

Milling machine FA5B

| | |
|---------------------|-----------------------|
| Table load [t] max. | Table Dimensions [mm] |
| 12 | 350 × 1 400 |

Drilling machine VO50

| | |
|-----------------|-----------------------|
| Table load [t] | Table Dimensions [mm] |
| Manual handling | 1 000 × 3 500 |

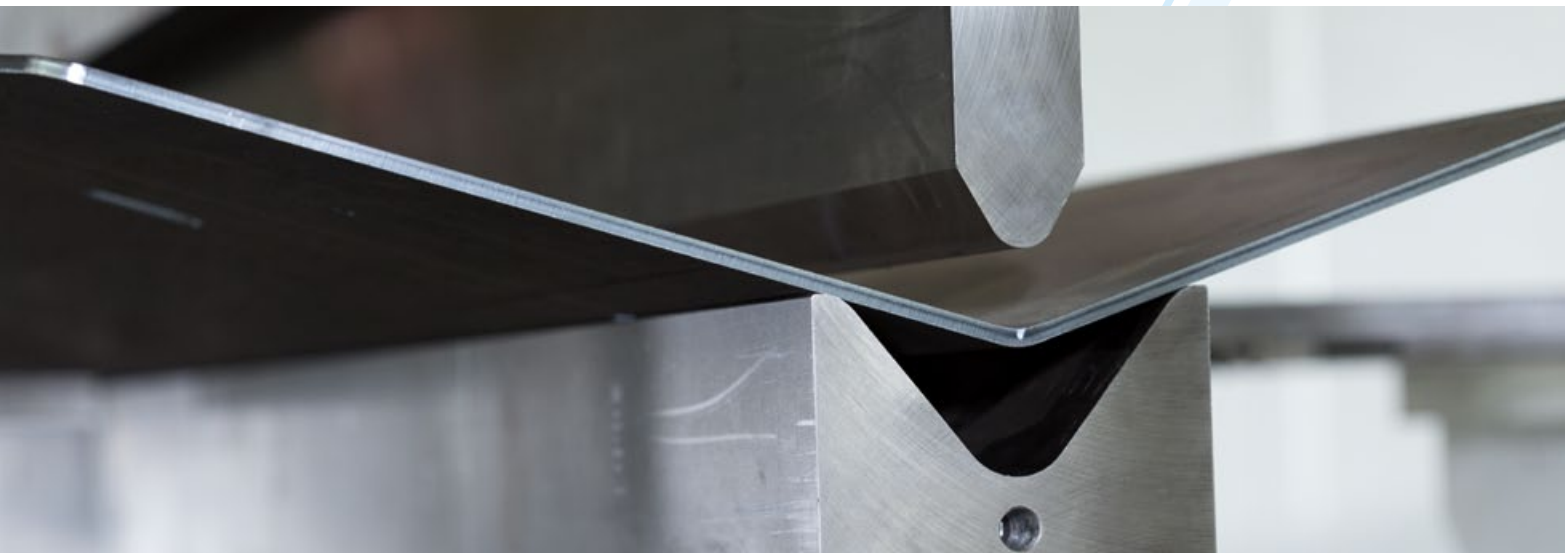
Shot blasting

Roller conveyor blast machine WHEELABRATOR

| | | |
|---------------------------|---------------------------|--------------------------|
| Entrance length [mm] max. | Entrance height [mm] max. | Entrance width [mm] max. |
| 16 000 | 500 | 3 000 |

Plates

| | |
|-------------------|---|
| EN 10025-2 | Non-alloy structural steels |
| EN 10025-3 | Normalized/normalized rolled fine grain structural steels |
| EN 10025-4 | Thermomechanical rolled fine grain structural steels |
| EN 10025-5 | Structural steels with improved atmospheric corrosion resistance |
| EN 10025-6 | High yield strength structural steels in the quenched and tempered conditions |
| EN 10028-2 | Steels for pressure purposes – non-alloy and alloy steels |
| EN 10028-3 | Steels for pressure purposes – fine grain steels, normalized |
| EN 10149-2 | High yield strength steels for cold forming – thermomechanically rolled |
| ■ ■ ■ ■ ■ | Wear resistant steels |
| ■ ■ ■ ■ ■ | ASME standard steels |
| ■ ■ ■ ■ ■ | Ship building quality steels |



Further possibilities

- Cutting – autogen, plasma, laser and shearing according to ISO EN 9013
- Mechanical processing, milling, drilling
- Fixed dimensions from unreeling device – sheets from coils in standard stock sizes
- Blasting and conservation
- Ultrasonic testing in accordance with EN 10160 and ASME 435
- Acceptance by all accredited companies, e.g. DB/TÜV/LRS/DNV - GL/ABS/ČD

Every order is accompanied by an inspection certificate in accordance with EN 10204 / 3.1 or 2.2.
It is our aim to ensure a reliable and timely processing and delivery of each order.



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