

Precision Steel

# Precision Strip

precidur® Product range



thyssenkrupp

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# precidur<sup>®</sup> – our brand for precision strip

precidur<sup>®</sup> stands for extremely close thickness and profile tolerances in widths up to 720 mm and thicknesses of 1.5 to 16 mm; optimum surface properties, whether black or pickled; homogeneous material properties, full hard and annealed; a wide variety of grades, from unalloyed to high ductility and high strength to high-alloy; rounds mill edges without burrs or microcracks that ensure no embrittlement due to work hardening. All in all, precidur<sup>®</sup> offers the ideal prerequisites for optimum direct forming and excellent cold rolling process properties.

precidur<sup>®</sup> stands for our qualitative edges, built up over more than a hundred years, extended through ongoing modernization measures and proof of our customer focus and our all-round reliability. Full process automation, unparalleled speed of production, short-term availability, maximum flexibility in putting together even small, tailored batch sizes, constant transparency and data availability, rapid response to short-notice change requests – in fact we're ideally prepared for every eventuality.

Or to put in another way: We are your premium partner for premium precision steel. Today, tomorrow and beyond. Together with precidur<sup>®</sup> we look forward to your challenge.

## The advantages of precidur<sup>®</sup> at a glance:



Extremely close thickness and profile tolerances



Wide variety of grades



Homogeneous material properties, optimum surface quality



Tailored batch sizes



Ideal for processing and forming

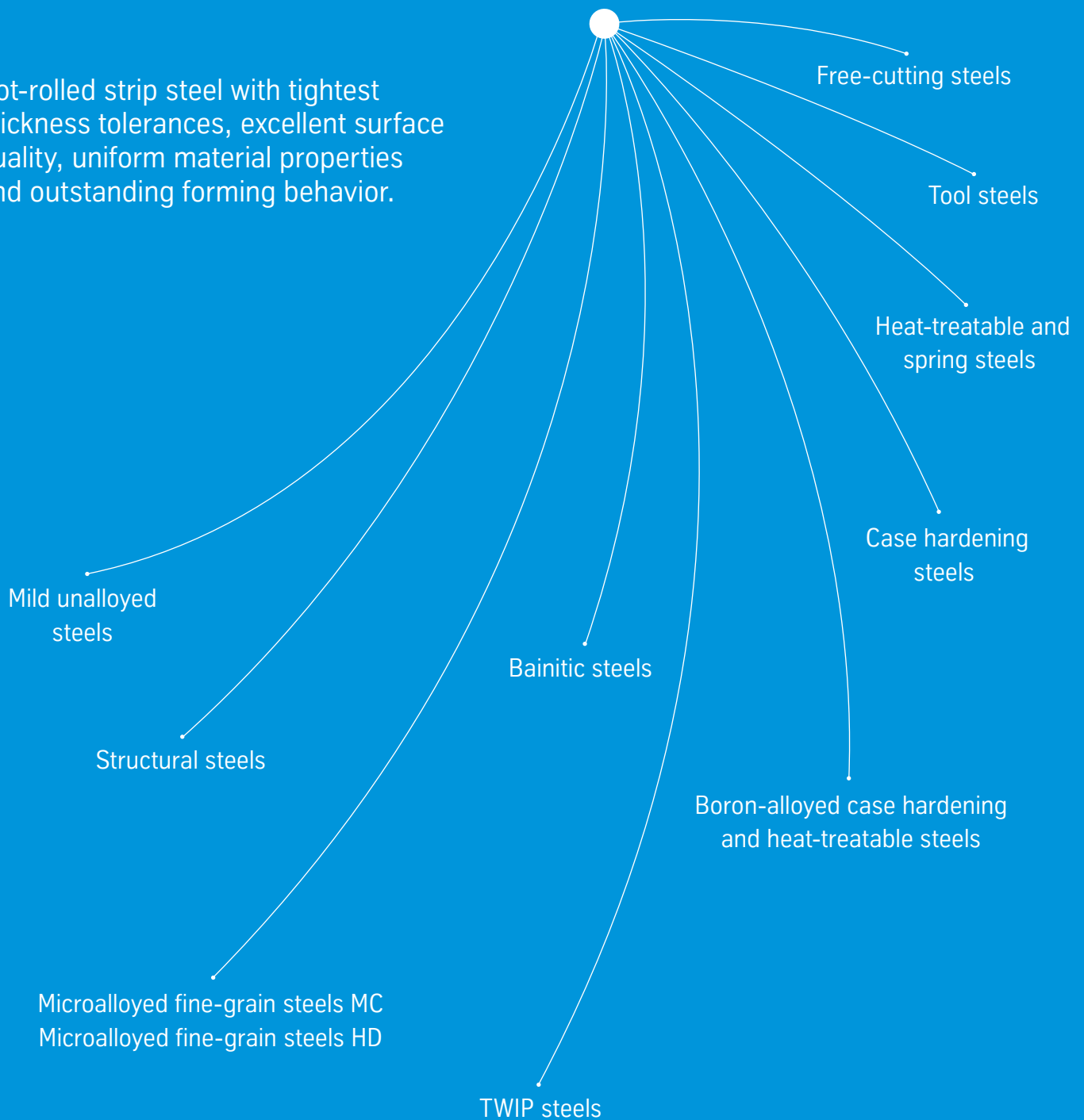


Quick, flexible and competent support and service

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# precidur®

Hot-rolled strip steel with tightest thickness tolerances, excellent surface quality, uniform material properties and outstanding forming behavior.



## Mild unalloyed steels \*\*

### DIN EN 10111

Standard name	Material number
DD11	1.0332
DD12	1.0398
DD13	1.0335
DD14	1.0389

## Free-cutting steels \*\*

### DIN EN ISO 683-4

Standard name	Material number	Steel grade name
9SMn30	1.0715	precidur® 9SMn30
9SMnPb30	1.0718	precidur® 9SMnPb30

## Structural steels \*\*

### DIN EN 10025

Standard name	Material number
S235JR/J0/J2	1.0038/1.0114/1.0117
S275JR/J0/J2	1.0044/1.0143/1.0145
S355JR/J0/J2	1.0045/1.0553/1.0577

## Microalloyed fine-grain steels \*\*

### DIN EN 10149-2

Standard name	Material number	Steel grade name	High-ductility version
S315MC	1.0972	precidur® HSM 315	precidur® HSM 315 HD
S355MC	1.0976	precidur® HSM 355	precidur® HSM 355 HD
S380MC	1.0978	precidur® HSM 380	precidur® HSM 380 HD
S420MC	1.0980	precidur® HSM 420	precidur® HSM 420 HD
S460MC	1.0982	precidur® HSM 460	in development
S500MC	1.0984	precidur® HSM 500	precidur® HSM 500 HD
S550MC	1.0986	precidur® HSM 550	precidur® HSM 550 HD
S600MC	1.8969	precidur® HSM 600	in development
S650MC	1.8976	precidur® HSM 650	precidur® HSM 650 HD
S700MC	1.8974	precidur® HSM 700	precidur® HSM 700 HD
S760MC	1.0968	precidur® HSM 760	

## Bainitic steels \*\*

### DIN EN 10338, VDA 239-100

Standard name	Material number	Steel grade name
HDT600F	1.0988	precidur® HBS 600
HDT760C, HR660Y760T-CP	1.0998	precidur® HBS 800
HDT850C		precidur® HBS 900
HR700Y950T-CP		precidur® HBS 1000
HR700Y950T-CP		precidur® HBS 1000 HE

## Boron-alloyed case hardening and heat-treatable steels \*\*

### DIN EN ISO 683-2, DIN EN ISO 683-3

Standard name	Material number	Steel grade name	
8MnCrB3	1.7135	precidur® HLB 8	
17MnB3	1.5506	precidur® HLB 17	
20MnB5	1.5530	precidur® HLB 20	
22MnB5	1.5528	precidur® HLB 22	
27MnCrB5-2	1.7182	precidur® HLB 27	
30MnB5	1.5531	precidur® HLB 30	
37MnB4	1.5524	precidur® HLB 37	
36MnB4/38MnB5	1.5537/1.5532	precidur® HLB 38	acc. to Norm 39MnB5
40MnB4	1.5527	precidur® HLB 42	

widths\* up to 720 mm, thickness from 1,5 to 16 mm.

\* widths according to steel grade and thickness

\*\* partly includes non-standardized steel grades

## Case hardening steels \*\*

### DIN EN ISO 683-3

Standard name	Material number
C10/C10E	1.0301 / 1.1121
C15/C15E	1.0401 / 1.1141
16MnCr5	1.7131
20MnCr5	1.7147

## Unalloyed heat-treatable steels, spring steels and tool steels \*\*

### DIN EN ISO 683-1, DIN EN ISO 4957

Standard name	Material number
C22/C22E	1.0402 / 1.1152
C35/C35E	1.0501 / 1.1181
C45/C45E	1.0503 / 1.1191
C50/C50E	1.0540 / 1.1206
C55/C55E/C55S	1.0535 / 1.1203 / 1.1204
C60/C60E/C60S	1.0601 / 1.1221 / 1.1211
C67/C67S	1.0603 / 1.1231
C75/C75S	1.0605 / 1.1248
C80SA	based on 1.1525
C85S	1.1269
C90S	1.1217
C100S	1.1274

## Alloyed heat-treatable steels, spring steels and tool steels \*\*

### DIN EN ISO 683-2, DIN EN ISO 4957, DIN EN ISO 683-17

Standard name	Material number
25CrMo4	1.7218
X32CrMoV4	
32CrMoV12-10	1.7765
34CrMo4	1.7220
42CrMo4	1.7225
48CrMoNiV4-4 (D6A)	
50CrMo4	1.7228
51CrMoV4	based on 1.7701
51CrV4	1.8159
58CrV4	1.8161
64NiNb4	1.2751
68CrNiMo3-2	1.2753
75Cr1	1.2003
75Ni8	1.5634
80CrV2	1.2235
100MnCrW4	1.2510
100Cr6	1.3505
102Cr6	1.2067
105WCr6	1.2419
125Cr2	1.2002

## TWIP steels \*\*

Standard name	Material number	Steel grade name
X40MnCrAlV19-2	1.7401	precidur® H-Mn HY
X40MnCrAlV19-2	1.7401	precidur® H-Mn LY

widths\* up to 720 mm, thickness from 1,5 to 16 mm.

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