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MATERIAL SPECIFICATIONS

Rolled steels

The rolled steels are used for the production of all the cutting edges and the end bits; the heat-treatment process grants their hardening through.

These rolled steels are divided into three categories:

- STEEL HB400.
These steels present as untreated a maximum hardness of 220HB while, once heat-treated, an approx. hardness of 400HB and a KCU resiliency of 50-80 J/cm². Considering their mechanical characteristics and their good weldability deriving from the chemical analysis, they are steels suitable for the production of parts like the loader edges.
- STEEL HB500
These steels present as untreated a maximum hardness of 240HB while, once heat-treated, an approx. hardness of 500HB and a KCU resiliency of 50-80 J/cm². They are not greatly weldable steels, but thanks to their high resistance to wear they are suitable for the production of multi-purpose cutting edges like dozer, bolt-on, grader edges, etc.
- HIGH CARBON
These steels have a high carbon content and present a hardness of about 260HB and are supplied without the heat-treatment. Their typical usage is for the grader edges.

STEEL HB400

The chemical analysis of this category are the following ones:

	STEEL HB400											
	C	Mn	Cr	Si	Mo	B	P	S	Al	Ti	Cu	Ni
LB19MB	0,21	1,4	0,5	0,25	0,08	0,004	0,015	0,015	0,04	0,05	0,4	0,3
LB19MDB	0,21	1,4	0,5	0,25	0,25	0,004	0,015	0,015	0,04	0,05	0,4	0,3
ITAR10	0,22	1,4	0,8	0,25	0,25	0,003	0,015	0,015	0,04	0,04	0,3	0,2

STEEL HB500

The chemical analysis of this category are the following ones:

	STEEL HB500											
	C	Mn	Cr	Si	Mo	B	P	S	Al	Ti	Cu	Ni
LB27MB	0,3	1,4	0,5	0,25	0,08	0,004	0,015	0,015	0,04	0,05	0,4	0,3
LB27MDB	0,3	1,4	0,5	0,25	0,25	0,004	0,015	0,015	0,04	0,05	0,4	0,3
PS001-GRADE2	0,32	1,3	0,55	0,25	0,06	0,003	0,02	0,02	0,04	0,05	0,4	0,2
ITAR6	0,32	1,15	0,3	0,25	0,06	0,03	0,02	0,02	0,03	0,05	0,4	0,2
PL1361K	0,30	1,30	0,65	0,30	0,20	0,004	0,03	0,03	0,06	0,04	--	--

HIGH CARBON

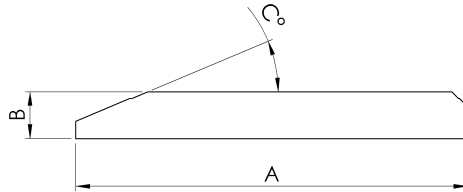
The chemical analysis of this category is the following one:

	HIGH CARBON											
	C	Mn	Cr	Si	Mo	B	P	S	Al	Ti	Cu	Ni
LB75HE	0,75	0,8	0,3	0,25	0,08	--	0,02	0,02	--	--	0,4	0,3

Profiles of the rolled steels

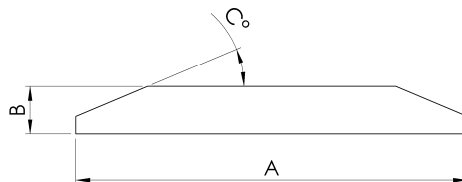
The rolled steels are available in the following profiles and dimensions:

Single bevel profile



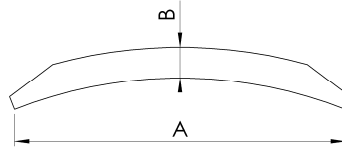
A [mm]	B [mm]	B [°]	Analysis
110	12-16	23,9	LB19MB
150	16-20	24	LB19MB
200	20-25	23	LB19MB
250	25-30	22,6	LB19MB - LB19MDB
270	32-35	23	LB19MDB
290	30	23	LB19MDB
300	30-40	23	LB19MDB

Double bevel profile



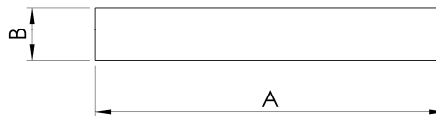
A [mm]	B [mm]	B [°]	Analysis
152	16-19	25	LB27MB – LB75HE
203	16-25	25	LB27MB – LB75HE
254	19-41	25	LB27MB – PS001 GRADE2 - LB75HE
280	25-35	22,5	LB27MB – PS001 GRADE2
305	25-35	22,5	PS001 GRADE2
330	22-45	22,5	LB27MB – PS001 GRADE2
360	30-35	22,5	LB27MB – PS001 GRADE2
406	22-60	22,5	LB27MB – PS001 GRADE2

Curved grader profile



A [mm]	B [mm]	Analysis
152	16-19	LB27MB – LB75HE
203	16-25	LB27MB – LB75HE

Square flat profile



A [mm]	B [mm]	Analysis
120	10-15	ITAR6
200	20-35	ITAR6
250	30-40	ITAR6
280	13-25	ITAR6
282	32	ITAR10
300	20	ITAR6
305	29-32	ITAR6
330	25-41	ITAR6
350	25-50	ITAR6
360	30-40	ITAR6
380	30	ITAR6
406	22-50	ITAR6