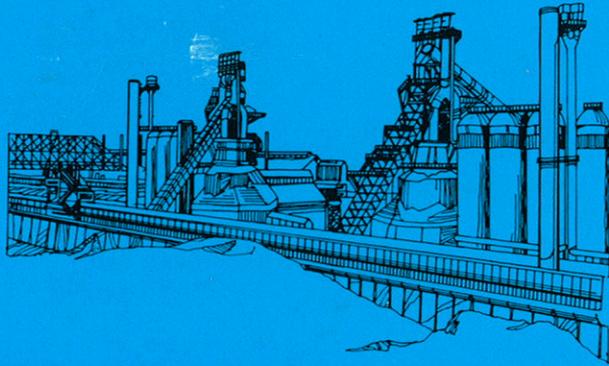


VAUTID WEAR PLATES

the reliable and
universally applicable
WEAR PROTECTION



Wear protection in the iron and steel industry

for example for

chutes
screens
bunkers
blast furnace bells
distribution chutes
blast furnace armour plates

sinter feeding drums
transfer points
gas cleaning systems
ventilators



Wear protection in the cement industry

for example for

clinker chutes
cyclones
ventilators
chutes
separators
mill linings
screw conveyors



Wear protection in power stations

for example for

coal transfer points
pipe lines
mill linings
silo bunkers
elbows of coal dust pipings
burner nozzle



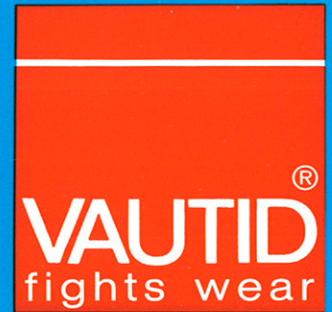
Wear protection in the sand and gravel industry

for example for

excavator buckets
bunkers
chutes
loaders
screw conveyors

VAUTID WEAR PLATES

Available forms and shapes



1.1 Standard sheets

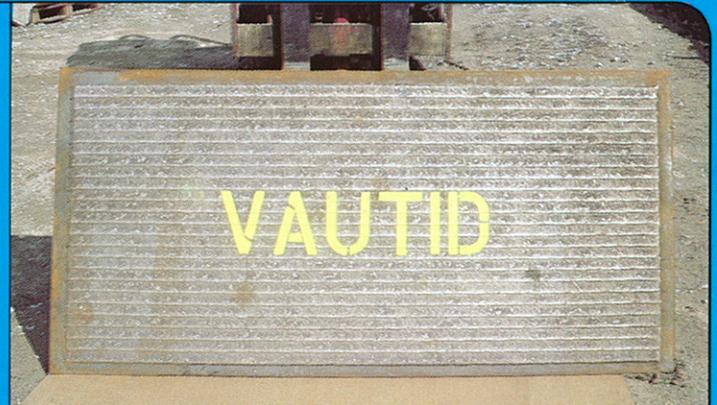
~~small~~ 1900 x 900 mm large 2900 x 1400 mm
middle 2400 x 1150 mm ~~xlarge~~ 3000 x 5000 mm

1.2 Standard thicknesses

5+3, 6+4, 8+4, 8+5, 10+5, 12+5, 15+5 (base material/hardfacing)

1.3 Base materials

structural steel	RSt 37.2 (S235JRG2), St 52.3 (S355J2G3)
boiler plate	H II (P265GH), 15Mo3 (16Mo3), 13CrMo44 (13CrMo4-5), 1.4878
fine grain	
structural steel	StE 690 V (S690Q)
wear resistant steel	with 300, 400 and 500 Brinell



2. Plates cut to size

from 50 x 50 mm to 4000 x 4000 mm

square boring	from 4 x 4 mm
circular boring	from 3 mm ϕ
tear shape boring	from 3 mm ϕ
slots	from 1 mm

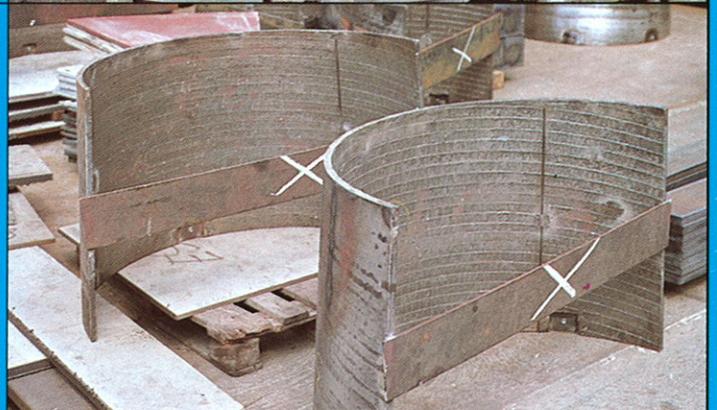
The plates are cut with plasma-, laser- and water jets.



3. Formed plates

Simple cold forming is possible only with VAUTID wear plates because of their low dilution between weld deposit and base material.

The smallest cold-rolled diameter is 170 mm.



4. Ready-to-install constructions

pipes from 170 mm ϕ upwards to 10 m
screens with different perforations (see 2.)
chutes
cyclones
elbows
troughs
distribution chutes
ventilators etc.



Weld deposit analyses



VAUTID wear plates are produced in the following qualities
(Analysis according to DIN EN ISO 6847; Hardness according to DIN 32524 Part 4)

	C-content [%]	Cr-content [%]	Others	Hardness in Vickers	Applications
VAUTID-100	4,5	28	Mn	pure weld deposit 700 – 770 HV 10	linings of ventilators, separators, cyclones, linings of mills in the cement and coal industry, screens in the iron and steel industry
VAUTID-100 K	1,9	28	Ni, Mn	pure weld deposit 420 – 450 HV 10	linings exposed to corrosion and abrasion
VAUTID-100 T	4,5	28	Ni, Mn	pure weld deposit 650 – 750 HV 10	linings of fans for operating temperatures up to 550°C screens in the iron and steel industry for operating temperatures up to 550°C
VAUTID-143	5,8	24	Nb, Mn	pure weld deposit 720 – 830 HV 10	chutes for open pit mining equipment conveyor chutes ventilators
VAUTID-145	5,5	21	Nb, Mo, W, V	pure weld deposit 700 – 860 HV 10	hot gas ventilators hot screens for temperatures up to 700°C, hot dust pipes and bell linings
VAUTID-150	4,5	28	B, Mn	pure weld deposit 770 – 830 HV 10	pipework in the cement industry dust and ash pipes with very smooth surface
VAUTID-176	5,5	14	Ni, Nb, B	pure weld deposit > 1000 HV 10	for very severe abrasion and shock
VAUTID-200	4,6	24	V, Ti	pure weld deposit > 720 HV 10	for high abrasion and low shock
VAUTID-300	4,6	28	approx. 25 % W ₂ C	matrix of pure weld deposit 700 HV 10 W ₂ C ca. 2200 HV 10	conveyor chutes, screens and chutes exposed to extreme abrasion stress, concrete mixers

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