Technical Documentation
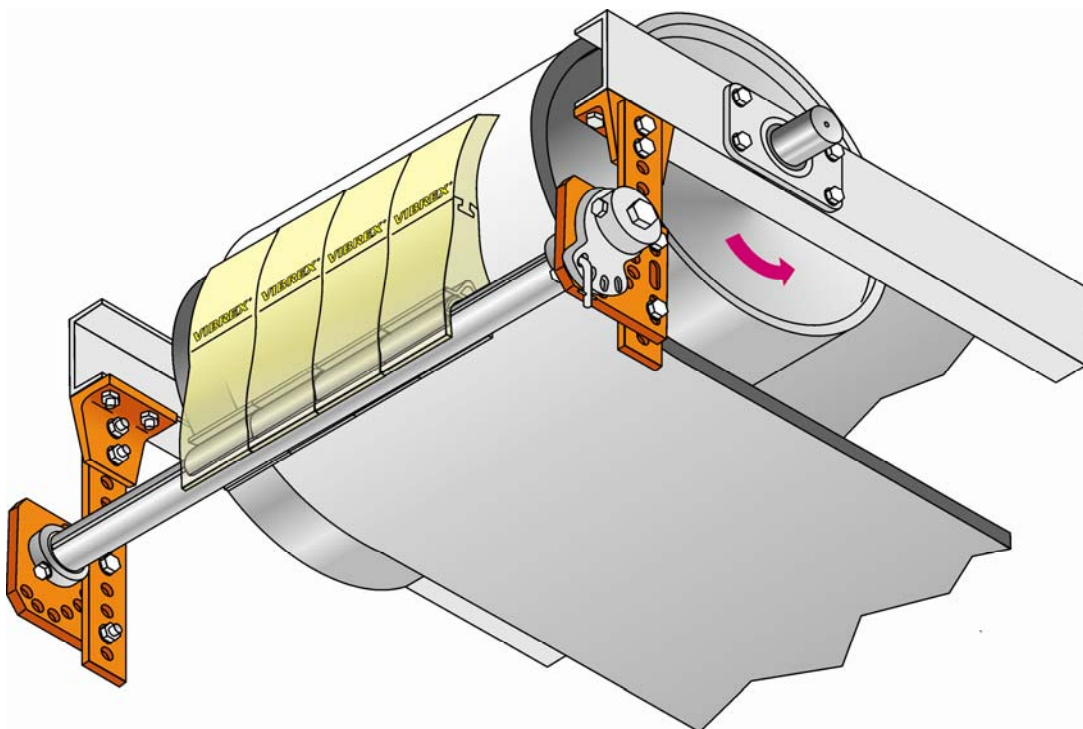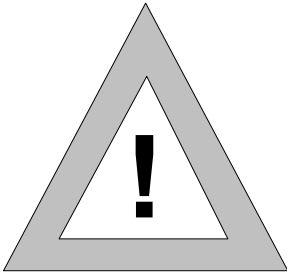# VIBREX® Front Cleaner TYPE CLIP ML
with hole circle tensioner

1. **Safety instructions**
2. **Mounting instructions**
3. **Maintenance**
4. **Spare, wear and accessory parts**
5. **Dimension sheet, general and component drawings**

1. Safety instructions

Working at running conveyor belt is dangerous.

Stop conveyor belt before start of mounting and, if necessary, the inlet in the transfer chute and secure against unauthorized restarting. Observe the regulations for prevention of accidents.

Only trained and practised personnel is allowed in coordination with the individual safety regulations and the mounting conditions to adjust the VIBREX conveyor belt cleaners at running conveyor belt. The control and maintenance personnel has to be instructed according to the safety regulations before the conveyor belt is taken into operation.

2. Mounting
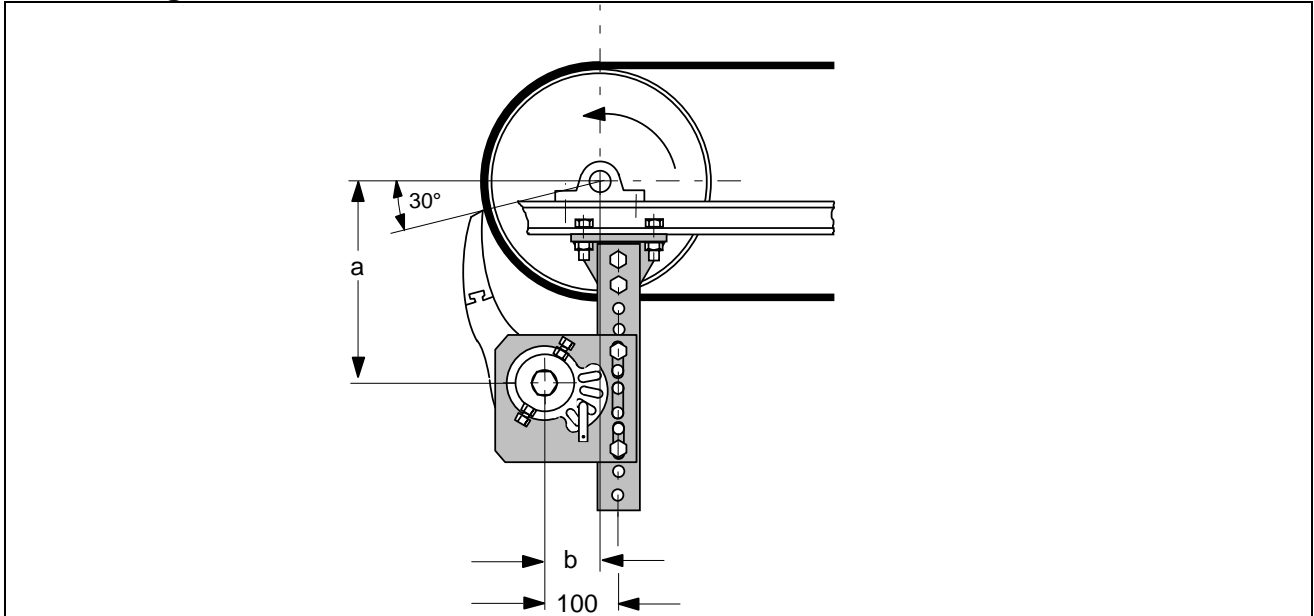
a) Take measure a - b from the schedule in drawing no. 2.03.3.2283- to determine the centre of the axle in accordance with the drum diameter.

b) Transfer the measures to the transfer chute and mark the centre of the universal hanger mount (pos.1) in a lateral distance of 100 mm from the axle centre (drawing no. 2.03.3.2533-).

c) Screw or weld angle of universal hanger mount onto both sides of the belt structure of the steel construction or onto the housing and fix hole bars.

d) Fasten loosely by screws a bearing plate (pos. 4) with the axle bearing to the top at the hole pin.

e) Push the positioning ring (pos. 2) and an axle bearing bush (pos. 3, collar inside) onto one axle end and insert bearing plate.

f) Push second bearing plate bush (collar inside) and bearing plate onto the other end of the axle and screw loosely at the the hole bars. Press axle bearing bushes to the outside into the bearing plates.

g) Push the hole circle tensioner (pos 5, 2 hole circle tensioners are mounted when belt width is 1200 mm or more) onto the axle end which is opposite to the conveyor belt drive and tighten the fixing screws and counter them. Press strongly the hole circle tensioner against the bearing plate and set positioning ring from behind against it and tighten.

h) Fasten screws of the bearing plate strongly and insert the safety pin in the hole circle tensioner.

i) Clip front blades (pos.8) onto profile axle (pos. 7) and adjust them centrically to the belt. Fasten clip clamp catch (pos.9) and tighten.

j) Take the safety pin out of the hole circle tensioner. Put the tensioning wrench on the outer hexagon of the hole circle tensioner and tension the cleaner. After belt contact, turn the front blades by another hole. Insert pin and secure.

k) Observe cleaning effect, if necessary tension again.

3. Maintenance

According to general experiences with sophisticated machine elements the following maintenance cycles should be observed and, if necessary, adapted to the operational requirements:

a) Weekly inspection

b) Monthly actuation and tensioning respectively adjusting

c) Quarter and half year checking of the final wearing date and, if necessary, preliminary exchange of the worn out scraper blades.

d) At big plants, the completely equipped axles are often exchanged and maintained in the workshop.

4. Spare and Wear Parts

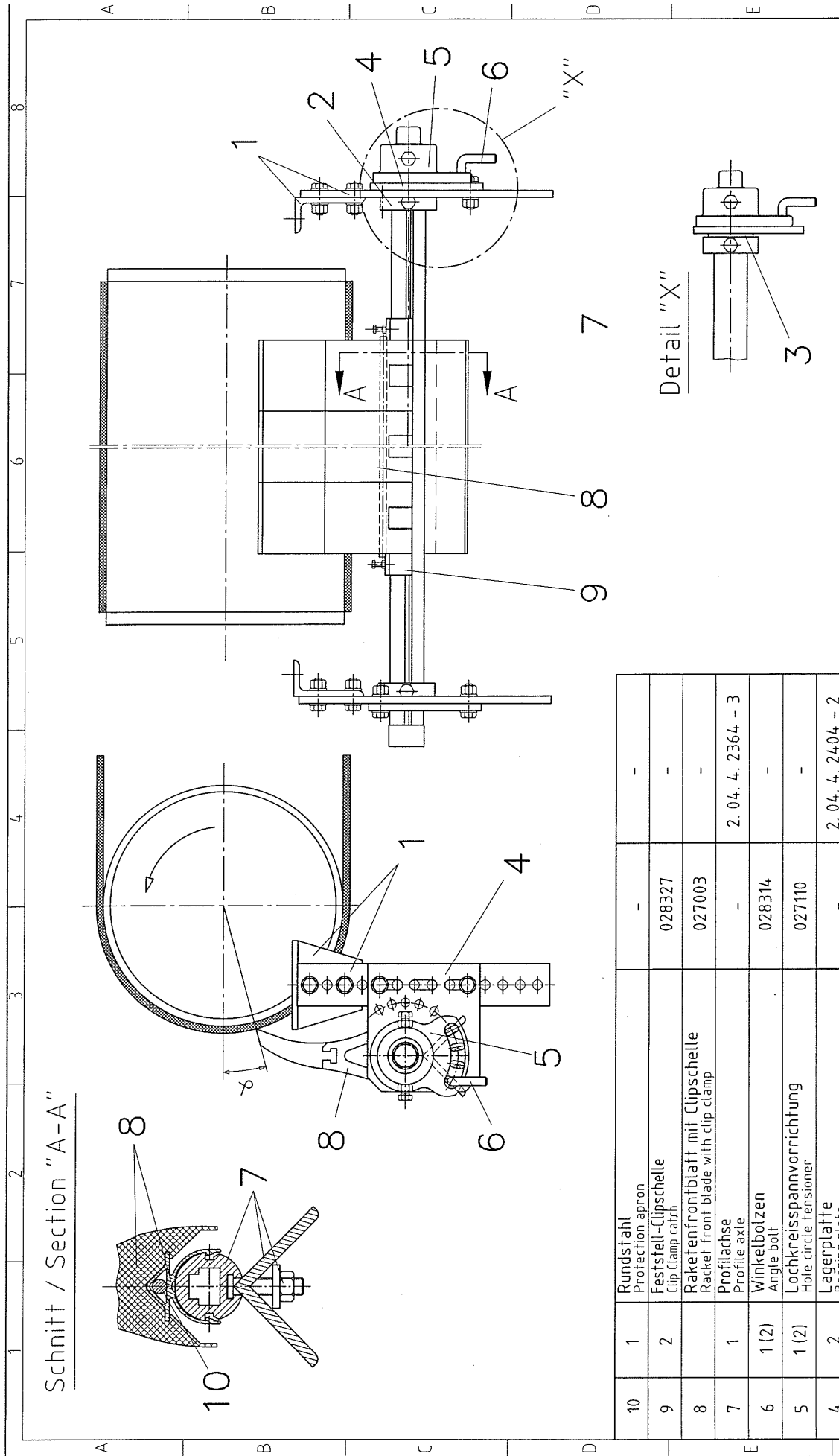| Pos.	Denomination	B. w. A.	Material	Dim.	Art.-No.
5	Hole circle tensioner cons. of : hole circle segment angle bolt tensioning wrench		aluminium steel,zinced steel,zinced		027110
7	Profile Axle	500 650 800 1000 1200 1400 1600 1800 2000	aluminium	L = 1000 L = 1200 L = 1400 L = 1600 L = 1800 L = 2200 L = 2400 L = 2600 L = 3000	027220 027221 027222 027223 027224 027225 027226 027227 027228
8	Rocket front blades incl. clip clamp		Polyurethane aluminium	B = 100 B = 100	027003
(8)	Rocket front blade support and wear part support part wear part		Polyurethane	B = 100	028426 028427 028428
(8)	Clip clamp for rocket front blade		aluminium	B = 100	028328

5. Drawings

This documentation includes drawing nos.:

2.04.3.2091-
2.02.3.2283-
2.03.4.2294-
2.03.3.2286-
2.01.4.2527-
2.01.4.2528-
2.03.3.2533-
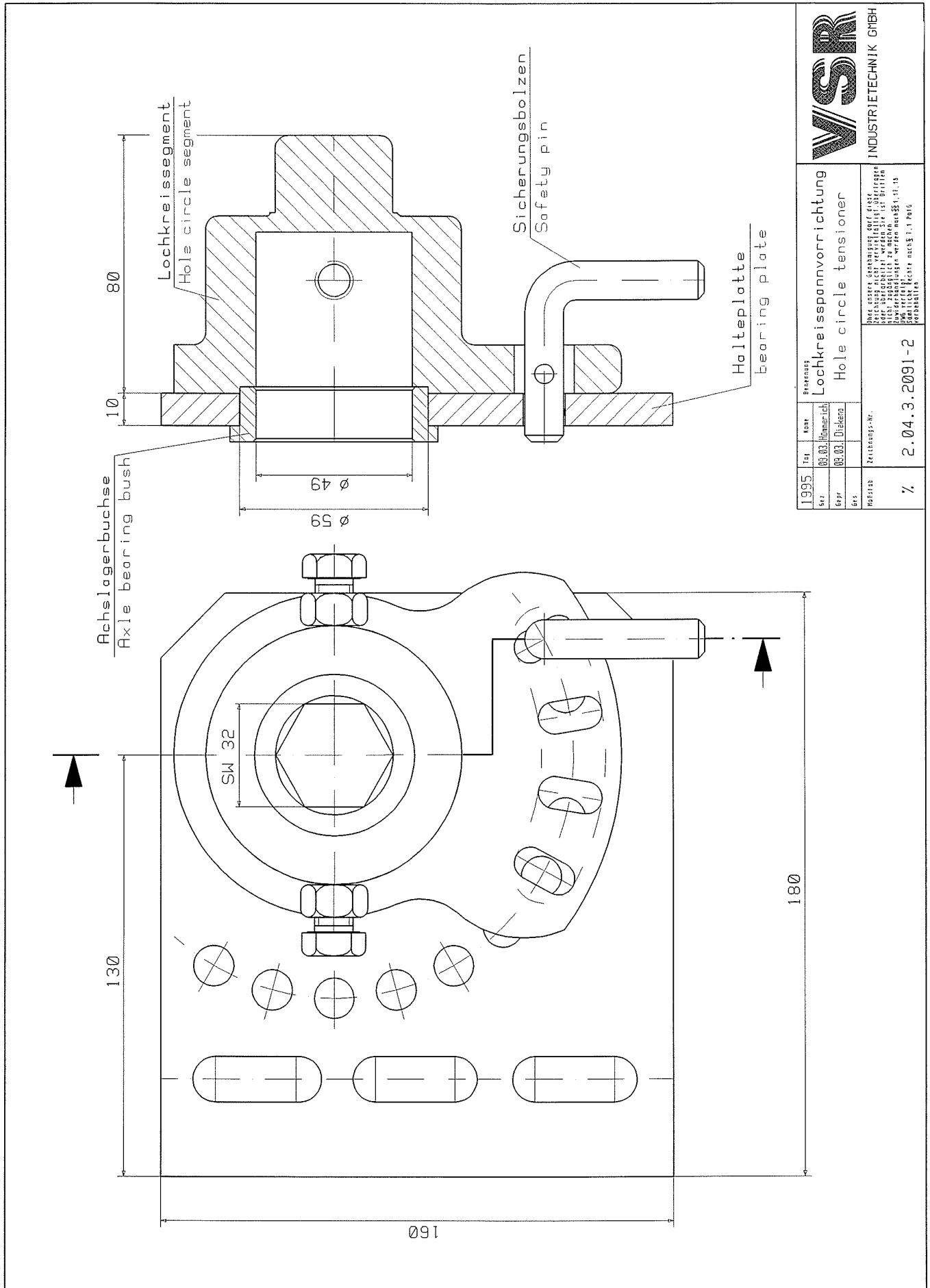
Technical modifications reserved

Bandbreite „A"
Belt width „A"

Abstreifbreite „B"
Cleaning width „B"

Gesamtlänge „C"
Total length „C"

100

A — A

A — A

Der Trommelreibbelag und die Gurtdicke wurden jeweils mit 10mm berücksichtigt
The drum friction lining and belt thickness are taken into account with 10mm

Ab Gurtbreite 1 000 mit Versteifungswinkel und Spannvorrichtung beidseitig
Belt widths 1 000 require an stiffening angle and 2 tensioning levers

Maße „a" und „b" immer bezogen auf die Waagerechte bzw.
Maße Senkrechte durch den Trommelmittelpunkt
Measure „a" and „b" are always related to the horizontal resp.
vertical through the drum centre

368

α

a

100

b

105

A	B	C
2 000	1 800	3 060
1 800	1 600	2 660
1 600	1 400	2 460
1 400	1 200	2 260
1 200	1 000	1 860
1 000	800	1 630
800	600	1 430
650	500	1 230
500	400	1 030
400	300	830

d	α = 15°		α = 30°	
	a	b	a	b
1 000	350	540	480	435
800	325	445	425	345
630	305	345	385	255
500	290	270	350	190
400	275	215	320	140
320	265	180	300	100
250	255	140	285	75
200	250	115	270	50
160	245	95	260	30

α

b

a

Werkstoff:

Kunde:

Ohne unsere Genehmigung darf diese Zeichnung nicht vervielfältigt,
übertragen oder überarbeitet werden. Sie ist Dritten nicht zugänglich zu machen. Zuwiderhandlungen werden nach §1/1,18 UWG verfolgt. Sämtliche Rechte nach §17 PatG vorbehalten.

			Datum	Name
		Bearb.	27.01.1990	Vollmer
		Gepr.		
		Dateiname:	23228310.dwg	
		Plotdatum:	07.02.2003	

10	Einbaumaße geändert	07.02.2003	Thiel
9	Rundstahl erg.	17.08.2001	Thiel
8	ACAD\ Detail erg.	04.05.2000	Thiel
Zust.	Änderung	Datum	Name

Maßstab: ./.

Bezeichnung:
Frontabstreifer Typ CLIP
mit Raketenfrontblatt
Front cleaner type CLIP with rocket front blade

Zeichnungsnummer:
2. 02. 3. 2283 – 10

VSR
Industrietechnik GmbH

Blatt 4
BI 10

Schnitt / Section "A-A"

Detail "X"

"X"

Pos.	Stück Pc.	Benennung Denomination	Artikel-Nr. Article No.	Zeichnungs-Nr. Drawing No.
10	1	Rundstahl / Protection apron	–	–
9	2	Feststell-Clipschelle / Clip Clamp catch	028327	–
8		Raketenfrontblatt mit Clipschelle / Racket front blade with clip clamp	027003	–
7	1	Profilachse / Profile axle	–	2.04.4.2364 – 3
6	1 (2)	Winkelbolzen / Angle bolt	028314	–
5	1 (2)	Lochkreisspannvorrichtung / Hole circle tensioner	027110	–
4	2	Lagerplatte / Bearing plate	–	2.04.4.2404 – 2
3	2	Achslagerbuchse / Axle bearing bush	–	2.04.4.2366 – 2
2	1 (2)	Stellring NW50 / Positioning ring NW50	028106	2.04.4.2355 – 3
1	1	Universal Halterung / Universal hanger mount	027101	2.01.4.2527 – 4D

Lochkreissegment
Hole circle segment

Sicherungsbolzen
Safety pin

Halteplatte
bearing plate

Achslagerbuchse
Axle bearing bush

80

10

ø 49

ø 59

SW 32

130

180

Ø160

Fehler! Es ist nicht möglich, durch die Bearbeitung von Feldfunktionen Objekte zu erstellen.

Fehler! Es ist nicht möglich, durch die Bearbeitung von Feldfunktionen Objekte zu erstellen.

15°

220

222

48.7

85

Fehler! Es ist nicht möglich, durch die Bearbeitung von Feldfunktionen Objekte zu erstellen.