Feurst

TURNKEY® Teeth video

MADE IN FRANCE

Turnkey®

Top Safety





NEW ULTRA-PERFORMING (TEETH) PROFILES

INCREASED PERFORMANCE

REDUCED DOWNTIME

HAMMERLESS AND TORCHLESS



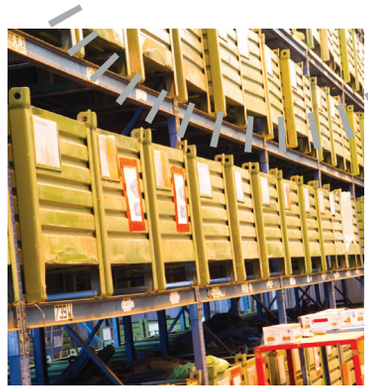






MADE IN
FRANCE









TURNKEY®
Teeth video

Crédit photos : Laurence BARRUEL



The Safe group was born from the merger of two foundries in eastern France.

50 years later, Safe Metal has become a European leader in cast steel parts (sand mold) with several foundries around the world.

The foundry that casts the Feurst parts, based in the Loire, is over 100 years old, and has been producing wear parts for Construction, Mining and Quarries for more than 50 years.

Our teeth and adapters have high recognition in the world of wear parts.

Feurst company, part of the Safe Metal group, was born in 1992 and is a subsidiary of the international group Safe..

Feurst manufactures high-tech teeth and adapters for loaders and excavators up to 400 tons.

Every year, 1 million wear parts are produced in the Loire department (within the Fonderie of Feurs).

A Very important part of our production is aimed to the Mining markets : Australia, Brazil, Canada, Indonesia, USA, Mexico.



Characteristics and advantages of arc furnace

VERY ACCURATE MELTING PROCESS

Reduction of impurities
Reduction of inclusions

CLEANER STEEL

Impact
Hardness

+++

The structure of the steel offers a *very high resistance* to *wear* and *impact*

MAIN FEATURES OF FEURST PRODUCTS

Self-Sharpening profile

Perfect Fitting between tooth & adapter

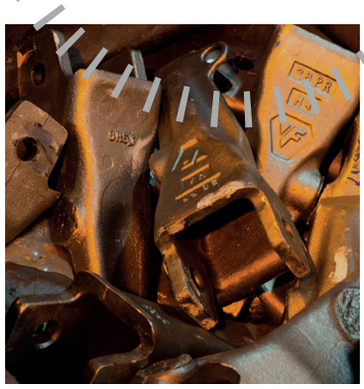
Metallurgical characteristics

	Impact at -40°C (Joules)	Hardness in Brinell (HB30)	Hardness in Rockwell
Teeth	≥ 20	555	54.2
Noses & Adapters	≥ 30	380 - 420	40.8 - 42.7

MADE IN FRANCE



Manufacturing capacity of up to 5 tons per piece





TURNKEY®, is a new full range of wear parts that uses permanent compression of locking devices with hammerless technology for teeth and shrouds.

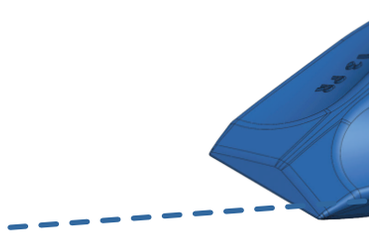
The TURNKEY® process is :

- A safe pin with a locking movement of 180° .
- Rubber tight
- Locking devices are reusable over 2 sets of teeth minimum

The horizontal locking devices, rotating and self-locking system provides the user with a very high level of comfort when assembling and disassembling and a complete safe operation.

Adapter Wear Cap

A slide on mechanical wear cap is fitted to the top of each adapter to prevent premature wear and damage. Wear caps are reversible, held on by the tooth, and last up to 2 teeth changes , depending on the abrasiveness of material.



Longer service life

All teeth styles are designed to self sharpen as they wear and do not need to be
reversed, therefore reducing machine downtime.
Adapter geometry is designed to protect the welded area from wearing, ensuring they are held on securely at all times.
The teeth are tighten onto the adapter so there is no movement or wear on the
adapter nose. Adapter noses do not need to be rebuilt.

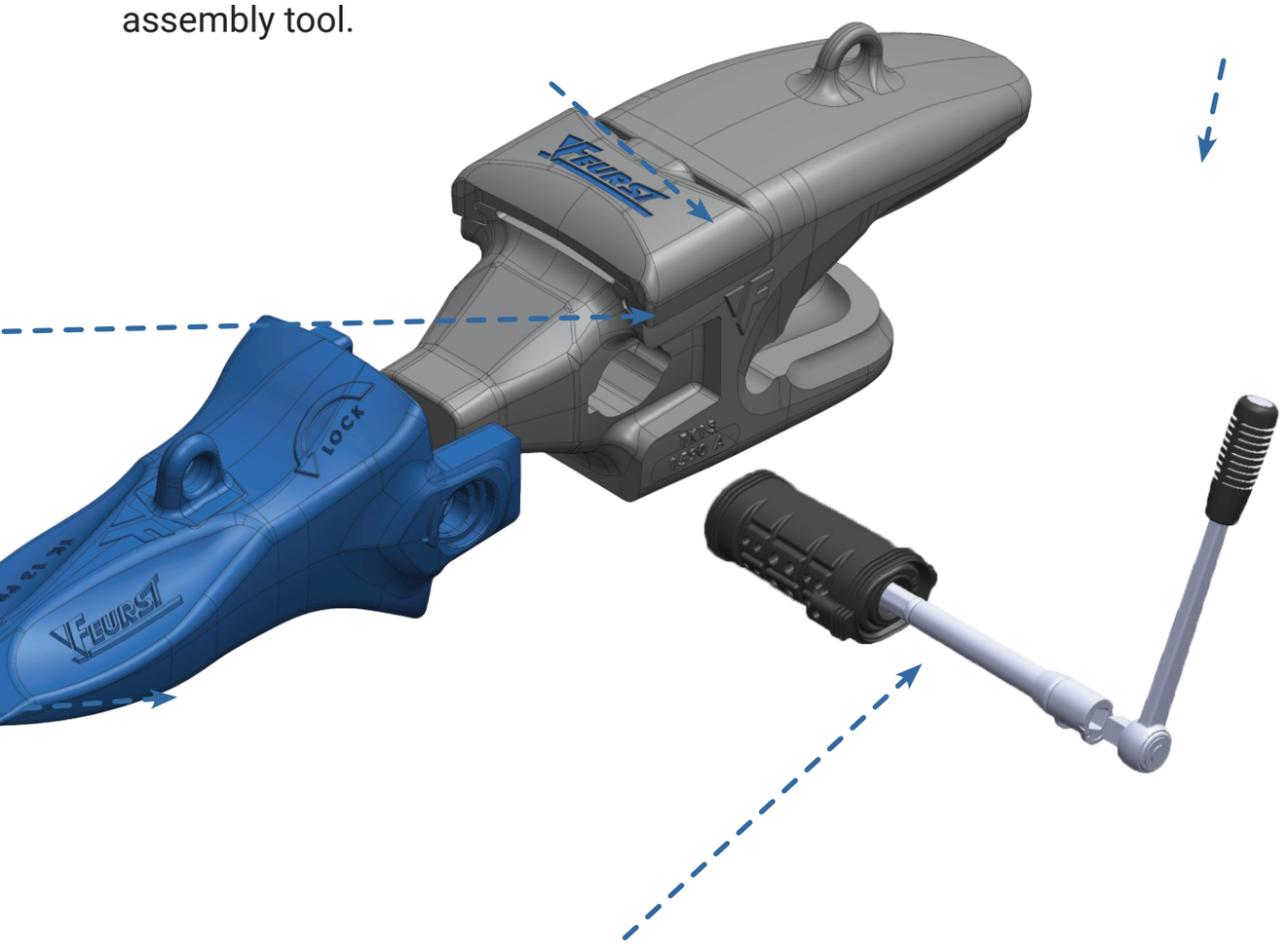
Turnkey®

Ultimate Safety

The hammerless twist pin mechanism requires no hammering action to install the pins, greatly reducing the risk of flying metal and accidents.
The pins are simply pushed into place by hand and turned 180 degrees counter clockwise with a hand assembly tool.

Faster Tip Changes

The teeth and wear caps are very quick and easy to replace on-site by only one person.
A lifting eye on the upper side of the teeth and the adapters allows a smooth installation.



Pin & Retainer

The twist pin and retainer are not damaged during installation or removal. The impermeable retainer avoids any unexpected issues upon teeth removal.

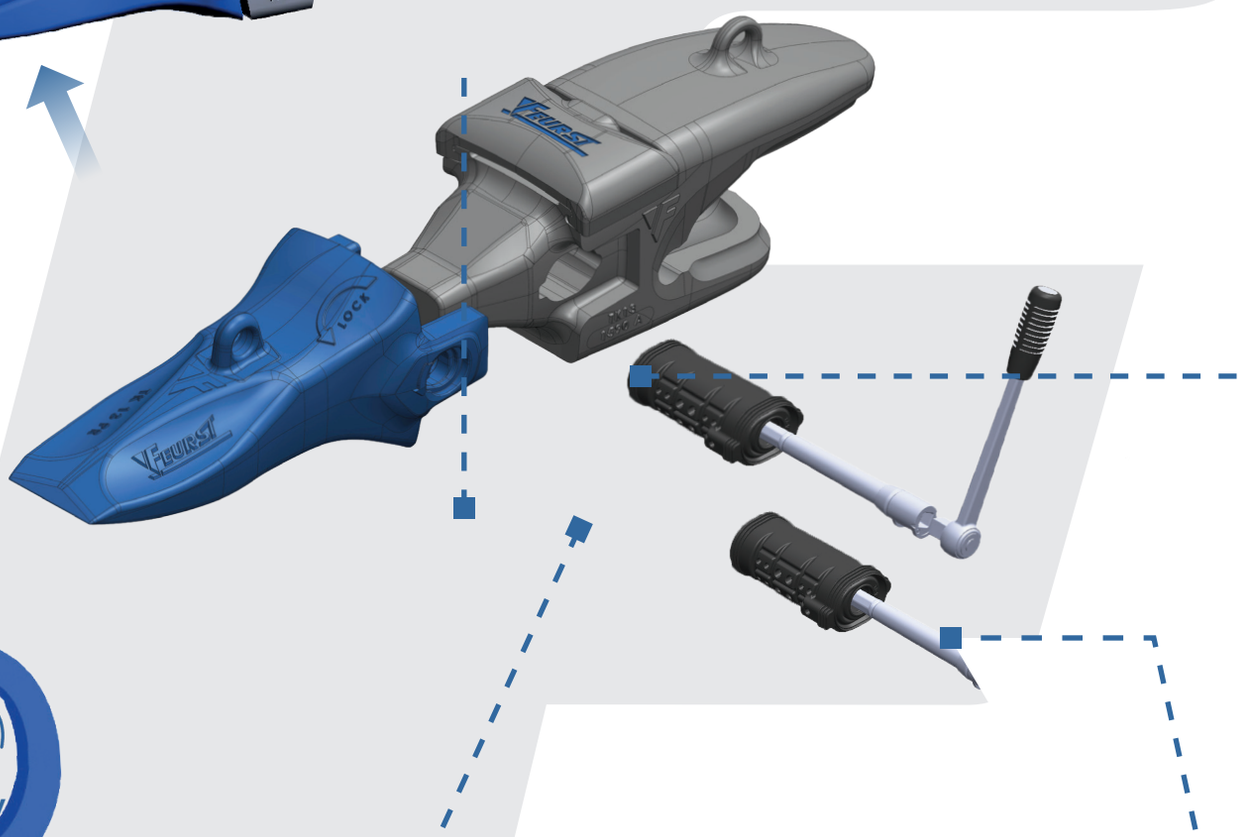
Strengths

More wear material

The ears of the tooth enable a perfect transfer of loads, making the system stronger

This allows more wear material were needed.







Characteristics of the new locking device TURNKEY



The side TURNKEY pin and plug features a locked and unlocked position.

By design, only one position is allowed for the pin prior to rotation.

At the end of 180° counter clockwise rotation, a distinct metallic “click” sound confirms that the system is locked.

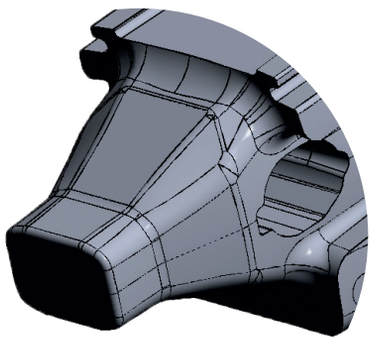


- Pin removal is achieved by performing a reverse 180° clockwise turn.

No hammer required

s of Turnkey system

s,



The nose

The stabilizing flats surface of the nose reduces stress on the pin system.



Locking Devices

TURNKEY system features an innovative eccentrical rotative fastening system able to recover its original shape providing a perfect fitting between the tooth and the adapter..

Completely IMPERMEABLE.

Pin and retainer are reusable depending on application.

PRODUCT FEATURES

CLICK !

No loss of teeth

- **Innovative 100% Safe Locking System**



High performance Steel (made in France)

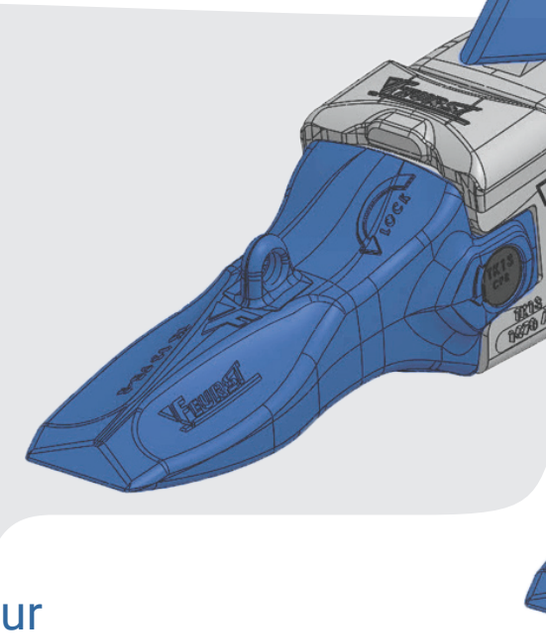
- ***Products manufactured in arc furnaces, to maintain the proper steel specs throughout the cast process***

Average Cost : -30%

- ***Tooth stays perfectly in place at all times***
  Reduced fuel consumption ***-8%***
- ***Very easy disassembly***
  Zero machine downtine
- ***Perfect fitting***
  Extra longlife afdapters

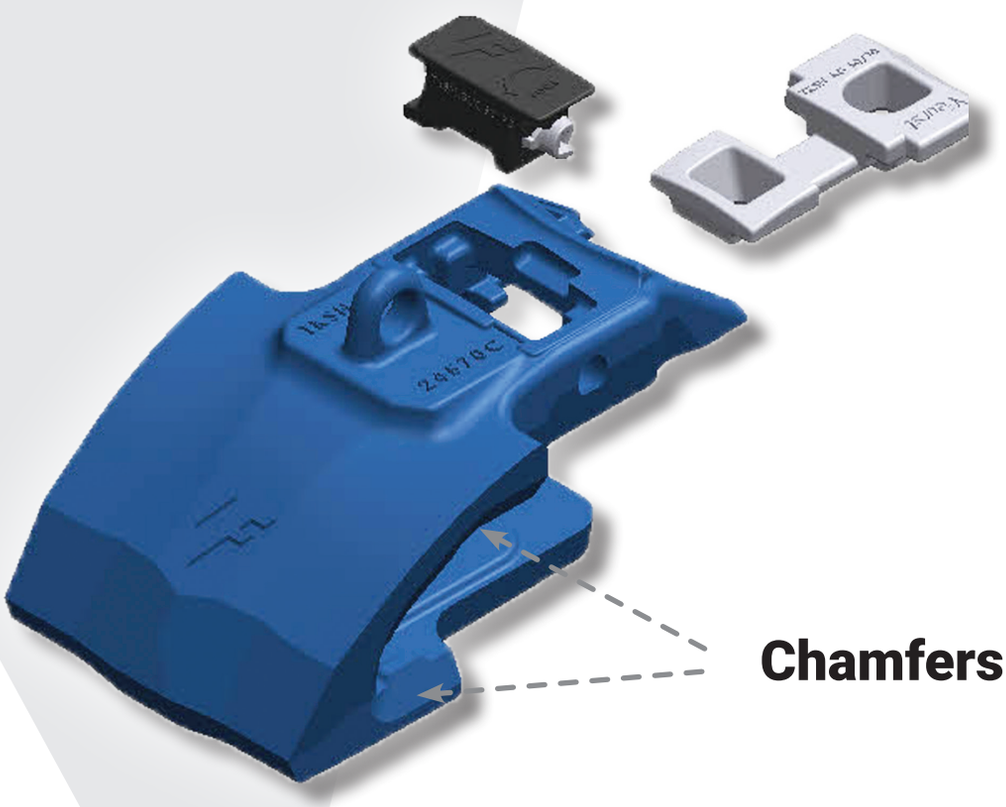
Turnkey®

The complete solution to protect your buckets

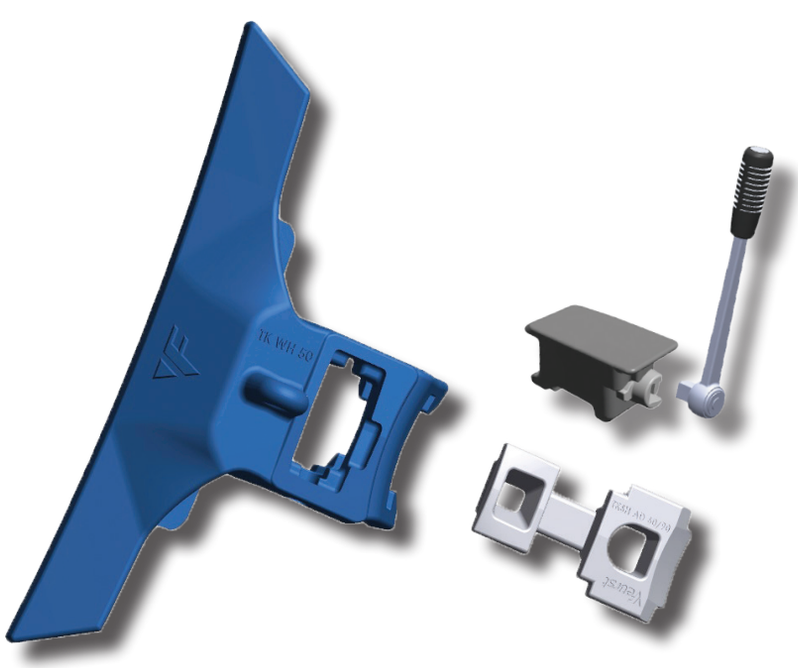


We offer you a complete protection of your base lips and bucket wings working in abrasive conditions.

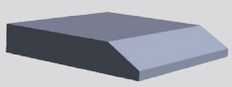
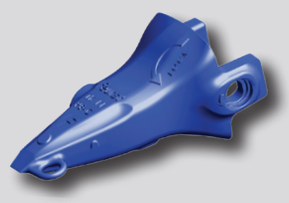
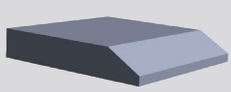
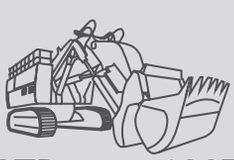
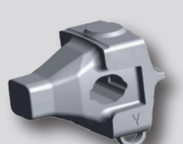
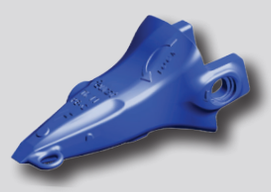
We inserted chamfers in the legs of the adapters and on the sides of the lip shrouds, allowing the shrouds to be as close as possible to the adapters to protect the lip and welding.



The wing shrouds also protect the wing base and thus limits wear in these highly stressed areas



Turnkey®

SIZE	MACHINES Weight	ADAPTERS	TEETH
10	 30 - 42 T  50-60 mm 2 / 2.36 in  STD. 70T HD 50T	 TKN10 1550 A 10°- 31 Kg TKN10 1560 A 10°- 31 Kg  TKN10 1550 STD- 28,5 Kg TKN10 1560 STD- 27,5 Kg  TKN10 NS- 16.5 Kg  TKN 10 PA - 3 Kg	 TKN10 PE 17 Kg  TKN10 PR 19 Kg  TKN10 PR-R 22 Kg  TKN10 DPE 18 Kg  TKN10 PE-C 15 Kg  TKN10 DPE - AUS 21.5 Kg
11	 40 - 52 T  60-70 mm 2.36 / 2.5 / 2.75 in  STD. 108T HD 80T	 TKN11 1560 A 10°- 46 Kg TKN11 1570 A 10°- 45.5 Kg  TKN11 1560 STD - 40.5 Kg TKN11 1570 STD - 40.5 Kg  TKN11 NS- 22.5 Kg  TKN 11 PA - 5.26 Kg	 TKN11 PE 21 Kg  TKN11 PR 21.85 Kg  TKN11 PR-R 27 Kg  TKN11 DPE 22 Kg  TKN11 PE-C 18.5 Kg  TKN11 DPE- AUS 25.7 Kg

Excavators

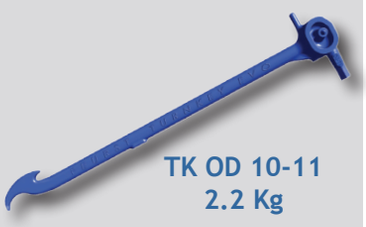
LOCKING DEVICES



TKN10 SB
0.389 Kg



TKN10 CL
0.331 Kg



TK OD 10-11
2.2 Kg



TKN11 SB
0.488 Kg



TKN11 CL
0.412 Kg

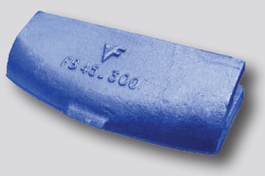


TK OD 10-11
2.2 Kg

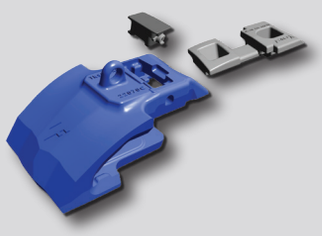
BUCKET SHROUDS

BLADE SHROUDS

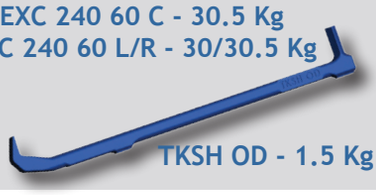
Compatible with Turnkey®



FB45-300
9.6 Kg



TKSH EXC 240 60 C - 30.5 Kg
TKSH EXC 240 60 L/R - 30/30.5 Kg



TKSH OD - 1.5 Kg

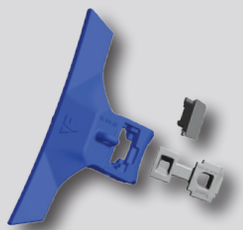


TKSH EXC 240 60 C - 30.5 Kg
TKSH EXC 240 60 L/R - 30/30.5 Kg
TKSH EXC 245 70 C - 35.33 Kg
TKSH EXC 250 70 L/R - 35.33/35.83 Kg
TKSH EXC 280 70 C - 38.25 Kg
TKSH EXC 280 70 L/R - 38/37.87 Kg
TKSH EXC 320 70 C - 41.83 Kg
TKSH EXC 320 70 L/R - 42.16 Kg



TKSH OD - 1.5 Kg

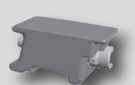
WING SHROUDS



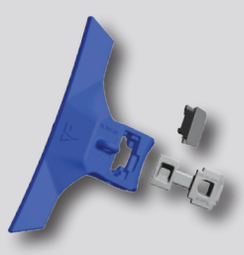
TKWH 30
Wing Thickness (30mm)
21 Kg



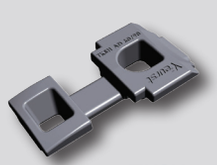
TKSH 60-90 AD - 2.05 Kg



TKSH 60-90 CL - 1.4 Kg



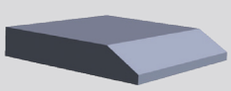
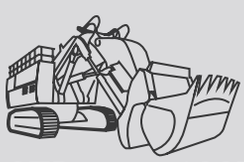
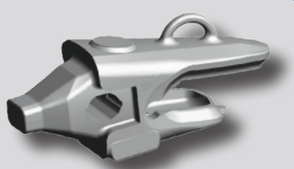
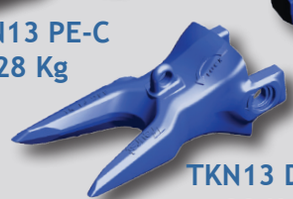
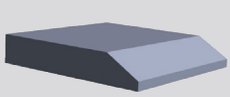
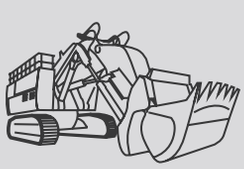
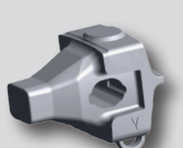
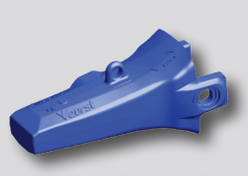
TKWH 50
Wing Thickness (50mm)
24.3 Kg



TKSH 60-90 AD - 2.05 Kg



TKSH 60-90 CL - 1.4 Kg

SIZE	MACHINES Weight	ADAPTERS	TEETH
13	 50- 87 T  70-80-90 mm 2.75/3.15/3.5 in  STD. 180T HD 135T	 TKN13 1570 A 10°- 70.5 Kg TKN13 1580 A 10°- 70 Kg TKN13 1590 A 10°- 70.5 Kg  TKN13 1570 STD - 59 Kg TKN13 1590 STD - 59 Kg  TKN13 NS- 29.5 Kg  TKN 13 PA - 6.6 Kg	 TKN13 PE 26.5 Kg  TKN13 PR 30.5 Kg  TKN13 PR-R 37 Kg  TKN13 RM-R 38.5 Kg  TKN13 PE-C 28 Kg  TKN13 RM-RR 45 Kg  TKN13 DPE 32 Kg
15	 85 - 150 T  90-100 mm 3.5/4 in  STD. 250T HD 190T	 TKN15 1590 A 10°- 102.5 Kg TKN15 15100 A 10°- 104 Kg  TKN15 NS- 46.5 Kg  TKN 15 PA - 9.3 Kg	 TKN15 PE 40 Kg  TKN15 PR 46.5 Kg  TKN15 PE-C 40 Kg  TKN15 PR-R 55 Kg  TKN15 RM-R 60 Kg  TKN15 RM-RR 76 Kg

LOCKING DEVICES



TKN13 SB
0.735 Kg



TKN13 CL
0.461 Kg



TK OD 13-15
2.4 Kg



TKN15 SB
0.920 Kg



TKN15 CL
0.818 Kg



TK OD 13-15
2.4 Kg

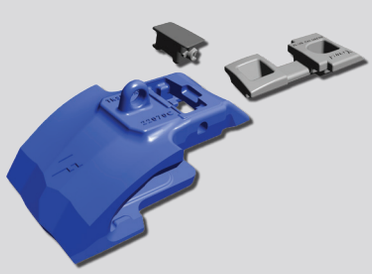
BUCKET SHROUDS

BLADE SHROUDS



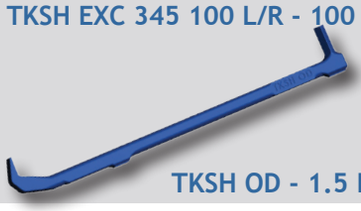
TKSH EXC 245 70 C - 35.33 Kg
TKSH EXC 250 70 L/R - 35.33/35.83 Kg
TKSH EXC 280 70 C - 38.25 Kg
TKSH EXC 280 70 L/R - 38/37.87 Kg
TKSH EXC 320 70 C - 41.83 Kg
TKSH EXC 320 70 L/R - 42.16 Kg

TKSH EXC 245 90 C - 49.66 Kg
TKSH EXC 245 90 L/R - 50.16 / 50.66 Kg
TKSH EXC 280 90 C - 54.5 Kg
TKSH EXC 280 90 L/R - 55 / 56.25 Kg
TKSH EXC 320 90 C - 60 Kg
TKSH EXC 320 90 L/R - 61.25 / 61.75 Kg
TKSH EXC 360 90 C - 67.75 Kg
TKSH EXC 360 90 L/R - 66.25 / 67.5 Kg



TKSH EXC 245 90 C - 49.66 Kg
TKSH EXC 245 90 L/R - 50.16 / 50.66 Kg
TKSH EXC 280 90 C - 54.5 Kg
TKSH EXC 280 90 L/R - 55 / 56.25 Kg
TKSH EXC 320 90 C - 60 Kg
TKSH EXC 320 90 L/R - 61.25 / 61.75 Kg
TKSH EXC 360 90 C - 67.75 Kg
TKSH EXC 360 90 L/R - 66.25 / 67.5 Kg

TKSH EXC 345 100 C - 106 Kg
TKSH EXC 345 100 L/R - 100 Kg



TKSH OD - 1.5 Kg

WING SHROUDS



TKWH 50
Wing Thickness (50mm)
24.3 Kg



TKSH OD - 1.5 Kg



TKSH 60-90 AD - 2.05 Kg



TKSH 60-90 CL - 1.4 Kg



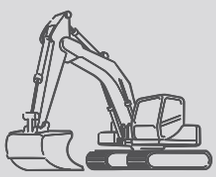
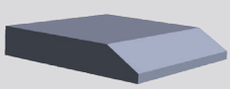
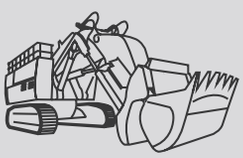
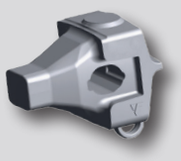
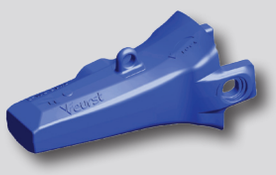
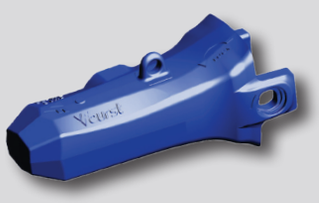
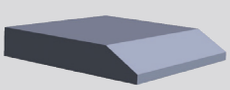
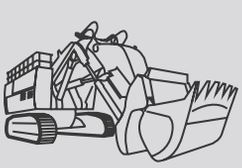
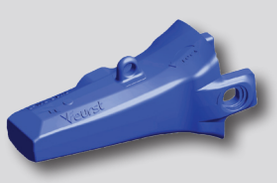
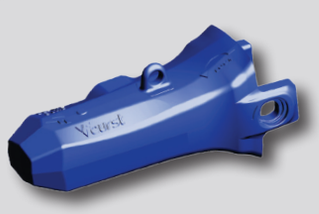
TKWH 50
Wing Thickness (50mm)
24.3 Kg



TKSH 60-90 AD - 2.05 Kg



TKSH 60-90 CL - 1.4 Kg

SIZE	MACHINES Weight	ADAPTERS	TEETH
17	 140 - 200 T  100-120 mm 4 / 4.75 in  STD. 315T HD 250T	 TKN17 15100 A 10°- 146 Kg TKN17 15120 A 10°- 143 Kg  TKN17 NS- 73.5 Kg  TKN 17 PA - 17 Kg	 TKN17 PE-C 58 Kg  TKN17 PR 74 Kg  TKN17 RM-R 75 Kg  TKN17 RM-RR 97.5 Kg
19	 200 - 350 T  120-140 mm 4.75 / 5.5 in  STD. 460T HD 340T	 TKN19 15120 A 10° - 188 Kg TKN19 15140 A 10°- 187 Kg  TKN19 NS- 105 Kg  TKN 19 PA - 27 Kg	 TKN19 PE-C 80.4 Kg  TKN19 PR 93 Kg  TKN19 RM-R 95 Kg  TKN19 RM-RR 113 Kg

LOCKING DEVICES



TKN17 SB
1.375 Kg



TKN17 CL
1.231 Kg



TK OD 17-19
2.4 Kg



TKN19 SB
2.029 Kg



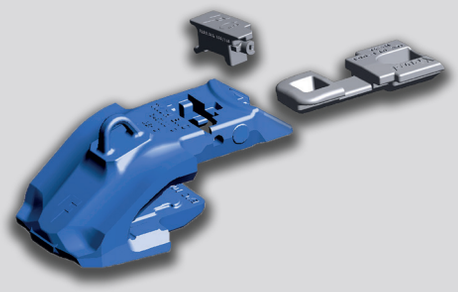
TKN19 CL
2.372 Kg



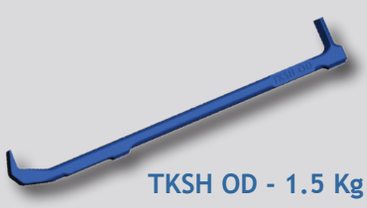
TK OD 17-19
2.4 Kg

BUCKET SHROUDS

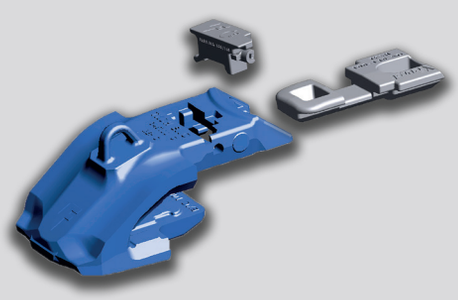
BLADE SHROUDS



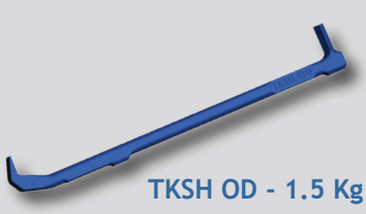
TKSH EXC 345 100 C - 106 Kg
TKSH EXC 345 100 L/R - 100 Kg
TKSH EXC 380 120 C - 120 Kg
TKSH EXC 380 120 L/R - 120 Kg



TKSH OD - 1.5 Kg

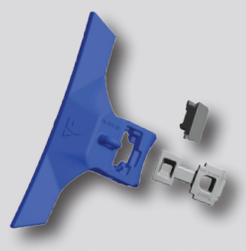


TKSH EXC 380 120 C - 120 Kg
TKSH EXC 380 120 L/R - 120 Kg
TKSH EXC 420 140 C - 170 Kg
TKSH EXC 420 140 L/R - 170 Kg



TKSH OD - 1.5 Kg

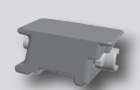
WING SHROUDS



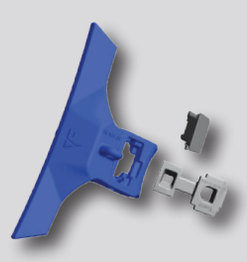
TKWH 70
Wing Thickness (70mm)
52.5 Kg



TKSH 100-140 AD - 5.26 Kg



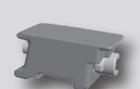
TKSH 100-140 CL - 3.47 Kg



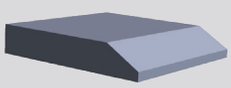
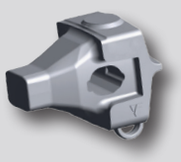
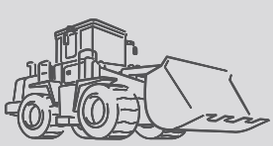
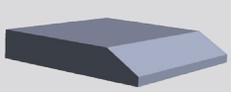
TKWH 70
Wing Thickness (70mm)
52.5 Kg



TKSH 100-140 AD - 5.26 Kg



TKSH 100-140 CL- 3.47 Kg

SIZE	MACHINES Poids max.	ADAPTERS	TEETH
10	 STD. 85T HD 60T  50-60 mm 2 / 2.36 in	 TKN10 1850 A 16°- 32 Kg TKN10 1860 A 16°- 32Kg  TKN10 NS- 16.5 Kg  TKN 10 PA - 3 Kg	 TKN10 SA 23 Kg  TKN10 RA 37 Kg
11	 STD. 133T HD 93T  60-70 mm 2.36 / 2.5 / 2.75 in	 TKN11 1860 A 16°- 46.9 Kg TKN11 1870 A 16°- 47.2 Kg  TKN11 NS- 22.5 Kg  TKN 11 PA - 5.26 Kg	 TKN11 SA 27.95 Kg  TKN11 RA 58 Kg

CLAVETAGES



TKN10 SB
0.389 Kg



TKN10 CL
0.331 Kg



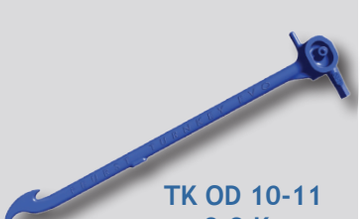
TK OD 10-11
2.2 Kg



TKN11 SB
0.488 Kg



TKN11 CL
0.412 Kg



TK OD 10-11
2.2 Kg

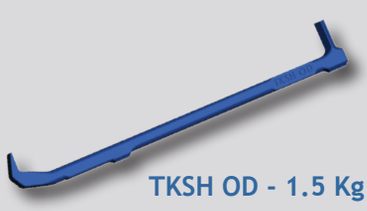
BUCKET SHROUDS

BLADE SHROUDS

Compatible with Turnkey®



FB45-300
9.6 Kg



TKSH OD - 1.5 Kg



FB 60-70 - 18 Kg
FB60 200 - 21.3 Kg
FB60 200 L / R- 22 Kg
FB60 250 - 27.1 Kg
FB60 300 - 32.7 Kg
FB60 350 - 37.6 Kg
FB70 250 - 35.7 Kg
FB 60-70 L / R - 13 Kg



TKSH LOAD 370 70 C - 80 Kg
TKSH LOAD 370 70 L / R -
82.25/81.75 Kg



TKSH OD - 1.5 Kg

WING SHROUDS



TKWH 30
Wing Thickness (30mm)
21 Kg



TKSH 60-90 AD - 2.05 Kg



TKSH 60-90 CL - 1.4 Kg



TKWH 50
Wing Thickness (50mm)
24.3 Kg



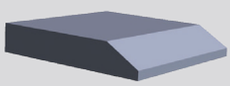
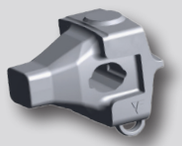
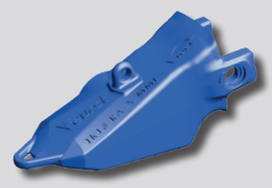
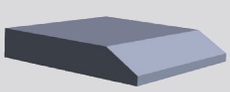
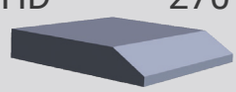
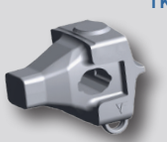
RPF 300 (A souder)
Wing Thickness (30mm)
7.32 Kg



TKSH 60-90 AD - 2.05 Kg



TKSH 60-90 CL - 1.4 Kg

	MACHINES Poids max.	ADAPTERS	TEETH
13	 STD. 170T HD 133T  70-80-90 mm 2.75/3.15/3.54in	 TKN13 1870 A 16°- 77 Kg TKN13 1880 A 16°- 76.5 Kg TKN13 1880 A 16° R - 77.3 Kg TKN13 1880 A 16°L - 77.3 Kg TKN13 1890 A 16°- 75 Kg  TKN13 NS- 29.5 Kg  TKN 13 PA - 6.6 Kg	 TKN13 SA 41.8 Kg  TKN13 RA 65 Kg  TKN13 RA-X 66 Kg
15	 STD. 280T HD 220T  90-100 mm 3.5 / 4 in	 TKN15 1890 A 16°- 109 Kg TKN15 18100 A 16°- 104 Kg  TKN15 NS- 46.5 Kg  TKN 15 PA - 9.3 Kg	 TKN15 SA 57 Kg  TKN15 RPL 94.5 Kg
17	 STD. 300T HD 270T  100-120 mm 4 / 4.75 in	 TKN17 18100 A 16°- 165 Kg TKN17 18120 A 16°- 157 Kg  TKN17 NS- 73.5 Kg  TKN 17 PA - 17 Kg	 TKN17 SA 73 Kg

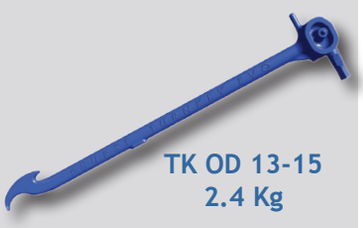
CLAVETAGES



TKN13 SB
0.735 Kg



TKN13 CL
0.461 Kg



TK OD 13-15
2.4 Kg



TKN15 SB
0.920 Kg



TKN15 CL
0.818 Kg



TK OD 13-15
2.4 Kg



TKN17 SB
1.375 Kg



TKN17 CL
1.231 Kg



TK OD 17-19
2.4 Kg

BUCKET SHROUDS

BLADE SHROUDS



TKSH LOAD 370 70 C - 80 Kg
TKSH LOAD 370 70 L/R - 82.25/81.75 Kg
TKSH LOAD 370 76 C - 80 Kg
TKSH LOAD 370 76 L/R - 80.5 / 80.5 Kg
TKSH LOAD 370 80 C - 81 Kg
TKSH LOAD 370 80 L/R - 83 Kg
TKSH LOAD 370 90 C - 106 Kg
TKSH LOAD 370 90 L/R - 109 Kg



TKSH OD - 1.5 Kg



TKSH LOAD 370 90 C - 106 Kg
TKSH LOAD 370 90 L/R - 109 Kg
TKSH LOAD 370 100 C - 102 Kg
TKSH LOAD 370 100 L/R - 105 Kg



TKSH OD - 1.5 Kg



TKSH 100-140 AD - 5.26 Kg



TKSH 100-140 CL - 2.5 Kg

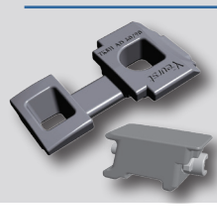


TKSH OD - 1.5 Kg

WING SHROUDS



TKWH 50
Wing Thickness (50mm)
24.3 Kg



TKSH 60-90 AD - 2.05 Kg

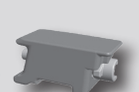
TKSH 60-90 CL -
1.4 Kg



TKWH 50
Wing Thickness (50mm)
24.3 Kg



TKSH 60-90 AD - 2.05 Kg

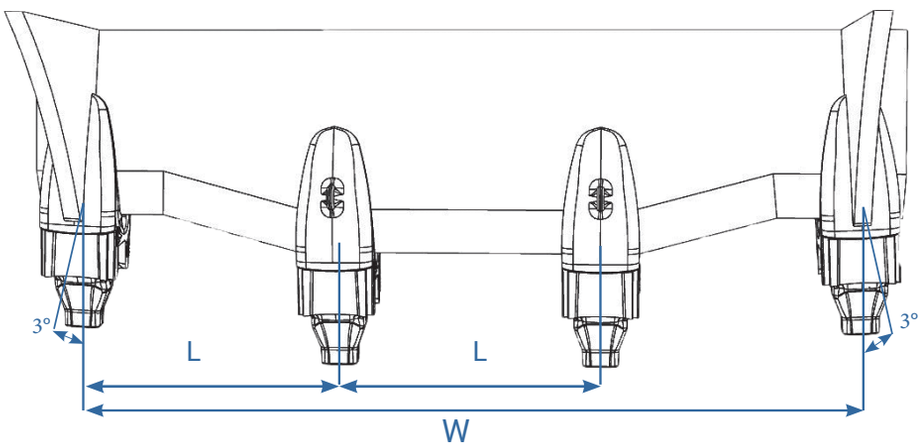


TKSH 60-90 CL -
1.4 Kg



TKWH 70
Wing Thickness (70mm)
52.5 Kg

Calculation for TURNKEY® adapter quantity on a given inside lip width



Calculation for adapter quantity on a given inside lip width :

(For easier calculation, it is assumed that the corner adapter centerline is aligned with the inside of side plate)

W= Inside lip width (mm)
L mini & L maxi = adapters spacing (See dimensions below)

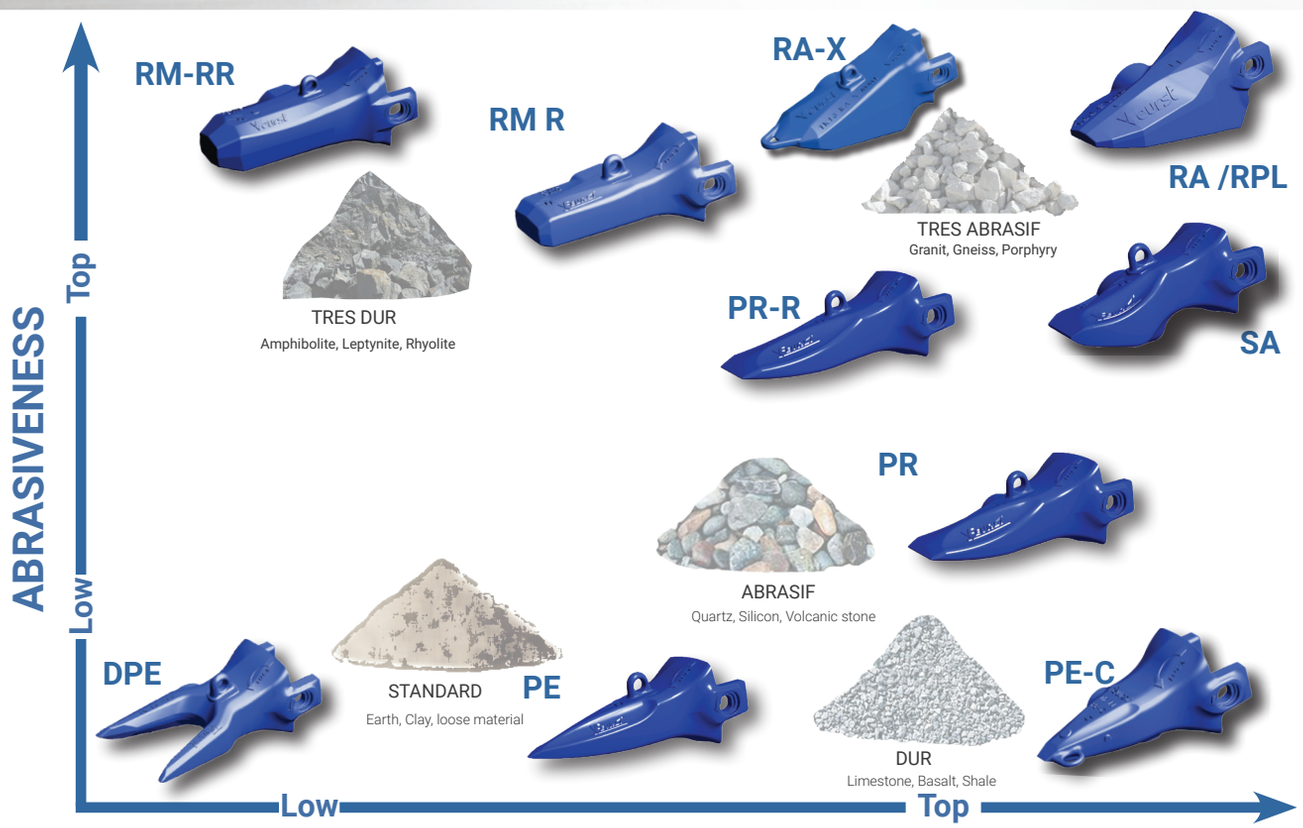
Minimum adapter quantity : $\frac{W}{L\ maxi} + 1 =$

Maximum adapter quantity : $\frac{W}{L\ mini} + 1 =$

Adapter quantity is chosen in accordance with the application of the bucket, for example :
- a maximum of adapters in abrasive condition
- a minimum of adapters when penetration is required

Excavator				Wheel Loader	
L (mm)		Size	Width of Adaptor (mm)	L (mm)	
Mini	Maxi			Mini	Maxi
350	490	TKN 10	150	465	620
380	530	TKN 11	170	500	670
440	550	TKN 13	185	505	680
475	665	TKN 15	215	620	825
540	750	TKN 17	245	690	920
630	880	TKN 19	270	-	-

Tooth / Soil





DPE

Twin Pick: Double vector tooth used on buckets corners for protecting the sides from wear.



PE

Pick: Long and sharp tooth ensuring an excellent penetration.



PE-C

Pick Short: Short tooth, accurate shape to be used as rock cutting tooth.



RM-R

Resistance Mining: Mining tooth provides a good balance of abrasion resistance and penetration for tough applications



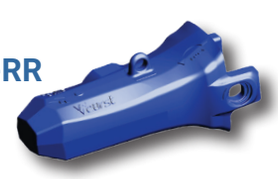
PR

Rock Chisel: Perfect tooth shape for a strong penetration. Excellent compromise wear material/penetration.



PR-R

Rock Chisel +: Enough material for a correct abrasion resistance perfect shape enabling better penetration.



RM-RR

RESISTANCE MINING +: Mining tooth reinforced provides a good balance of abrasion resistance and penetration for tough applications



SA

Super Abrasion: Very high abrasion resistance with reinforcement ensuring a good penetration.



RA / RPL

Reinforced Abrasion: Loader tooth for high abrasive applications, with large reinforcement.



RA-X

Reinforced Abrasion +: Loader tooth for hard & high abrasive applications, with large reinforcement.

Turnkey®

Calculation for TURNKEY® adapter quantity on a given inside lip width

Taille		TKN 10		TKN 11		TKN 13		TKN 15		TKN 17		TKN 19	
Machine		Standard	HD	Standard	HD	Standard	HD	Standard	HD	Standard	HD	Standard	HD
 Excavatrice	POIDS Max. T	70T	50T	110T	88T	180T	130T	270T	188T	325T	210T	450T	350T
	Max. B.O.F.	35T	29T	46T	38T	60T	46-48T	79T	63T	95T	73T	120T	98T
 Pelle Butte	POIDS Max.	70T	50T	108T	80T	180T	135T	250T	190T	315T	250T	460T	340T
	Max. B.O.F.	42T	35T	56.5T	46T	70T	54T	88T	70T	105T	82T	140T	110T
 Chargeuse	POIDS Max.	85T	60T	133T	93T	170T	133T	280T	220T	300T	270T	-	-
	Max. B.O.F.	59T	49T	77T	63T	98T	78T	133T	105T	160T	130T	-	-

1 Tonne = 9.8067 Kn

Recommended for a bucket with 5 teeth

In XHD applications do not hesitate to oversize of 1 size

This update give the recommendations for Standard and XHD applications, specific applications (as attachements, spade lips, arms) should be discussed with an FEURST dealer.

Choice of bucket depending on the application

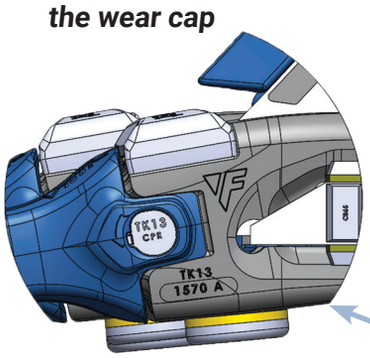
Standard Bucket : Suitable for digging and loading of soft to medium hard, compact and not very abrasive materials such as earth / rock, sand / gravel, coal, chalk.

HD bucket : Suitable for digging and loading mixed earth and rock soils with a high proportion of rock or other abrasive materials.

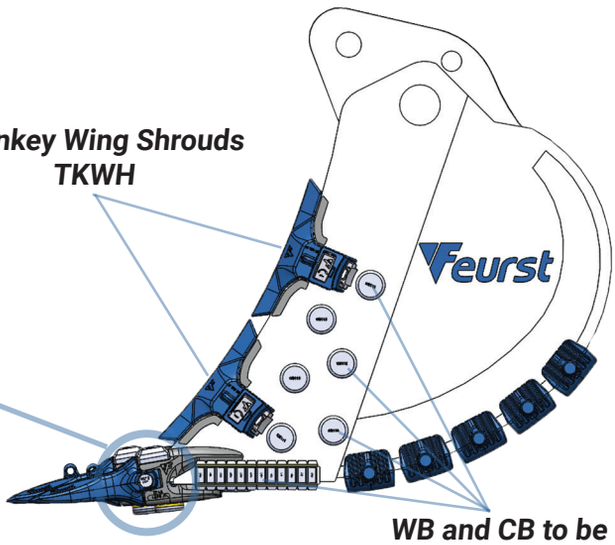
XHD bucket : Suitable for digging and loading mixed earth and rock soils with a high proportion of rock and other abrasive and hard materials

Machine Applications

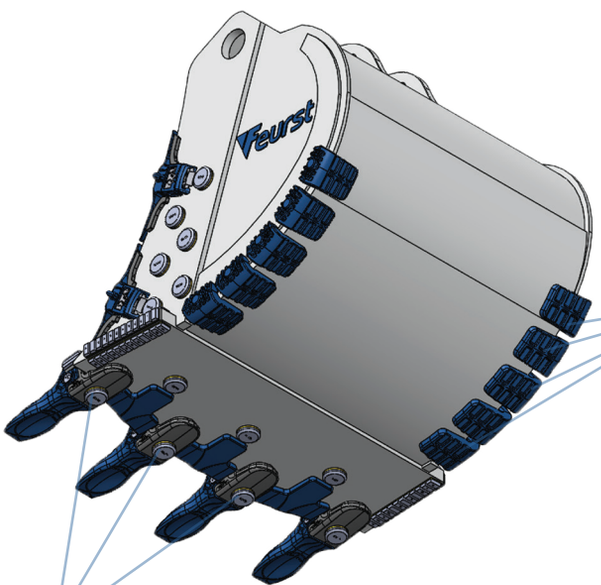
Positioning the side closest to the wear cap



Turnkey Wing Shrouds TKWH

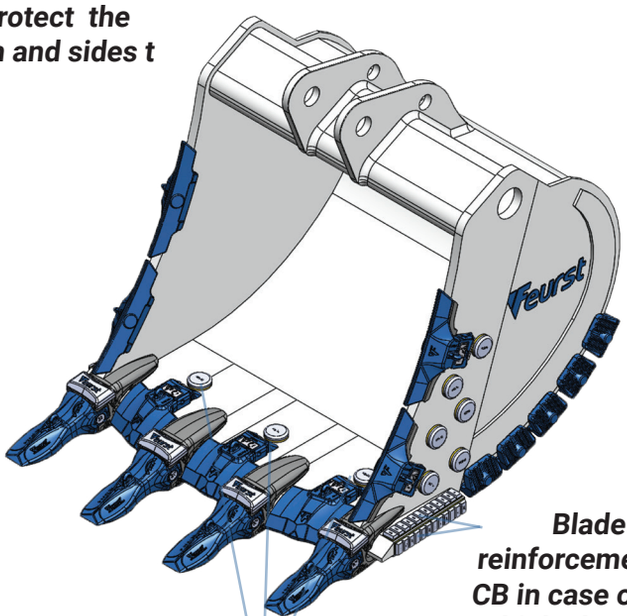


WB and CB to be welded for protect the sides

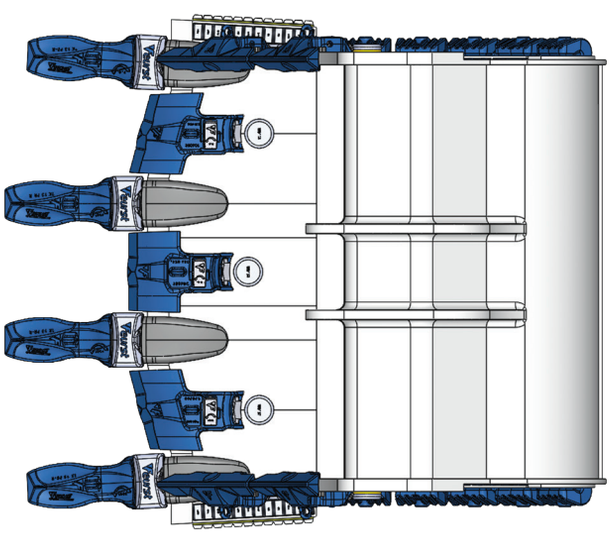


PTG to be welded for protect the bottom and sides t

Possibility to weld WB on the lower branches at very high abrasion



Blade reinforcement by CB in case of very high abrasion

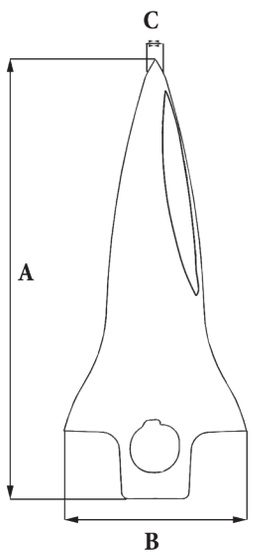


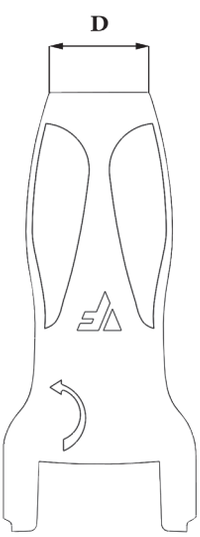
Possibility to weld WB behind interdental shields to deflect

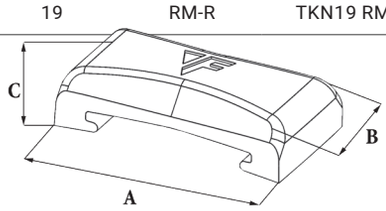
Turnkey®

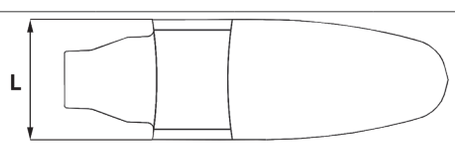
Teeth Dimensions

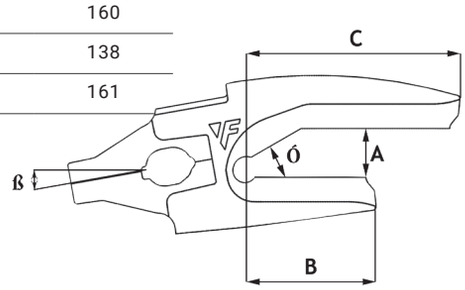
SIZE	TYPE	PART NO.	WEIGHT [kg]	DIMENSIONS [mm]			
				A	B	C	D
10	PE	TKN10 PE	17	440	168	3	18
10	PR	TKN10 PR	19	415	167	7	92
10	PR-R	TKN10 PR-R	22	445	168	9	100
10	DPE	TKN10 DPE	18	430	168	10	210
10	DPE - AUS	TKN10 DPE -AUS	21.5	432	171	45	183
10	PE-C	TKN10 PE-C	15	370	168	3	25
10	SA	TKN10 SA	23	383	168	20	120
10	RA	TKN10 RA	37	383	168	-	-
11	PE	TKN11 PE	21	480	184	4	20
11	PR	TKN11 PR	21.85	442	182	11	53
11	PR-R	TKN11 PR-R	27	500	182	6	114
11	DPE	TKN11 DPE	22	450	184	11	232
11	DPE - AUS	TKN11 DPE-AUS	25.7	462	185	45	197
11	PE-C	TKN11 PE-C	18.5	400	184	4	28
11	SA	TKN11 SA	27.95	422	182	18	117
11	RA	TKN11 RA	58	422	182	-	-
13	PE	TKN13 PE	26.5	500	196	8	20
13	PR	TKN13 PR	30.5	485	196	8	105
13	PR-R	TKN13 PR-R	37	524	196	8	113
13	RM-R	TKN13 RM-R	38.5	475	196	48	110
13	RM-RR	TKN13 RM-RR	45	477	198	59	113
13	DPE	TKN13 DPE	32	490	196	12	250
13	PE-C	TKN13 PE-C	28	435	196	5	32
13	SA	TKN13 SA	41.8	450	196	17	116
13	RA	TKN13 RA	65	450	196	-	-
13	RA-X	TKN13 RA-X	66	540	196	6	123
15	PE	TKN15 PE	40	555	230	5	17
15	PR	TKN15 PR	46.5	535	230	9	143
15	PR-R	TKN15 PR-R	55	570	230	11	155
15	PE-C	TKN15 PE-C	40	490	230	6	39
15	SA	TKN15 SA	57	524	230	31	148
15	RM-R	TKN15 RM-R	60	530	230	68	127
15	RM-RR	TKN15 RM-RR	76	560	230	29	113
15	RA	TKN15 RA/RPL	95	550	230	28	110
17	PE-C	TKN17 PE-C	58	533	283	7	39
17	PR	TKN17 PR	74	600	237	17	144
17	RM-R	TKN17 RM-R	75	529	285	54	178
17	RM-RR	TKN17 RM-RR	97.5	570	285	85	157
19	PE-C	TKN19 PE-C	80.4	600	328	6	52
19	PR	TKN19 PR	93	635	328	8	160
19	RM-RR	TKN19 RM-RR	113	600	328	83	138
19	RM-R	TKN19 RM-R	95	560	328	74	161











Adapter Dimensions

SIZE	PART NO.	WEIGHT [kg]	BLADE Thickness [mm]	DIMENSIONS [mm]						APPLICATIONS
				A	B	C	L	∂°	ß°	
10	TKN10 1550 A10°	31	50	52	137	240	150	30°	10°	E
10	TKN10 1560 A10°	31	60	62	137	240	150	30°	10°	E
10	TKN10 1550 STD	28,5	50	51	142	240	148	30°	10°	E
10	TKN10 1560 STD	27,5	60	62	142	240	149	30°	10°	E
10	TKN10 1850 A16°	32	50	52	160	245	150	30°	16°	C
10	TKN10 1860 A16°	32	60	64	160	235	150	30°	16°	C
10	TKN10 NS	16.5	-	-	-	-	150	-	-	E / L
10	TKN10 PA	3	-	168	98	43	-	-	-	E / L
11	TKN11 1560 A 10°	46	60	62	178	275	170	30°	10°	E
11	TKN11 1570 A 10°	45.5	70	72	178	275	170	30°	10°	E
11	TKN11 1560 STD	40.5	60	63	190	280	167	30°	10°	E
11	TKN11 1570 STD	40.5	70	72	190	283	167	30°	10°	E
11	TKN11 1860 A 16°	46.9	60	62	202	281	170	30°	16°	L
11	TKN11 1870 A 16°	47.2	70	72	183	281	170	30°	16°	L
11	TKN11 NS	22.5	-	-	-	-	170	-	0°	E / L
11	TKN11 PA	5.26	-	201	11	51	-	-	-	E / L
13	TKN13 1570 A 10°	70.5	70	73	193	330	190	30°	10°	E
13	TKN13 1580 A 10°	70	80	83	193	330	190	30°	10°	E
13	TKN13 1590 A 10°	70.5	90	93	193	330	190	30°	10°	E
13	TKN13 1570 STD	59	70	75	190	330	182	30°	10°	E
13	TKN13 1590 STD	59	90	95	200	330	182	30°	10°	E
13	TKN13 1870 A 16°	77	70	76	245	365	190	30°	16°	L
13	TKN13 1880 A 16°	76.5	80	84	245	365	190	30°	16°	L
13	TKN13 1880 A 16° L	77.3	80	84	245	365	190	30°	16°	L
13	TKN13 1880 A 16° R	77.3	80	84	245	365	190	30°	16°	L
13	TKN13 1890 A 16°	75	90	94	245	365	190	30°	16°	L
13	TKN13 NS	29.5	-	-	-	-	190	-	0°	E / L
13	TKN13 PA	6.6	-	278	124	55	-	-	-	E / L
15	TKN15 1590 A 10°	102.5	90	93	236	410	210	30°	10°	E
15	TKN15 15100 A 10°	104	100	103	236	410	210	30°	10°	E
15	TKN15 1890 A 16°	109	90	95	270	430	210	30°	16°	L
15	TKN15 18100 A 16°	104	100	104	245	410	210	30°	16°	L
15	TKN15 NS	46.5	-	-	-	-	210	-	0°	E / L
15	TKN15 PA	9.3	-	236	151	62	-	-	-	E / L
17	TKN17 15100 A 10°	146	100	104	236	420	240	30°	10°	E
17	TKN17 17120 A 10°	143	120	126	236	420	240	30°	10°	E
17	TKN17 NS	73.5	100	-	-	-	240	-	0°	L
17	TKN17 PA	17	-	276	172	74	-	-	-	E / L
19	TKN19 15120 A 10°	188	120	122	300	510	272	30°	10°	E
19	TKN19 15140 A 10°	187	140	142	300	510	273	30°	10°	E
19	TKN19 NS	105	120	-	-	-	277	-	0°	L
19	TKN19 PA	27	-	345	215	97	-	-	-	E / L

E = Excavator / L = Loader

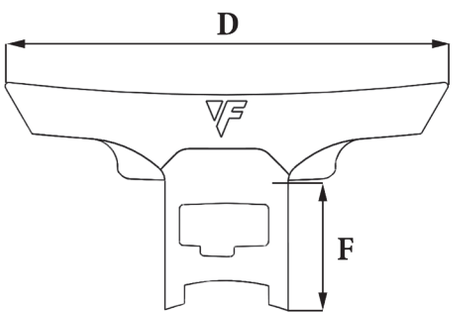
Lip Shrouds Dimensions

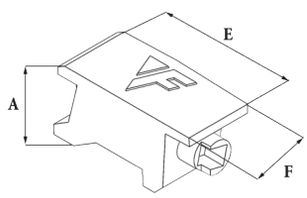
PART NO.	WEIGHT [kg]	BLADE THICKNESS [mm]	L	A	B	C	D	E	ß°	APPLICATIONS
TKSH EXC 240 60 C	30.5	60	240	275	156	64	66	30	30°	E
TKSH EXC 240 60 R	30.5	60	240	275	156	64	66	30	30°	E
TKSH EXC 240 60 L	30	60	240	275	153	68	66	30	30°	E
TKSH EXC 245 70 C	35.33	70	245	300	162	74	72	32	30°	E
TKSH EXC 250 70 R	35.83	70	245	300	162	74	72	32	30°	E
TKSH EXC 250 70 L	35.33	70	245	300	162	74	72	32	30°	E
TKSH EXC 280 70 C	38.25	70	280	300	164	74	73	33	30°	E
TKSH EXC 280 70 R	37.87	70	280	300	164	73	73	33	30°	E
TKSH EXC 280 70 L	38	70	280	300	164	73	73	33	30°	E
TKSH EXC 320 70 C	41.83	70	320	300	163	73	73	33	30°	E
TKSH EXC 320 70 R	42.16	70	320	300	163	73	73	33	30°	E
TKSH EXC 320 70 L	42.16	70	320	300	163	73	73	33	30°	E
TKSH LOAD 370 70 C	81	70	370	375	200	158	73	69	30°	L
TKSH LOAD 370 70 R	81.75	70	370	380	205	170	73	71	30°	L
TKSH LOAD 370 70 L	82.25	70	370	380	205	170	73	71	30°	L
TKSH LOAD 370 76 C	80	76	370	380	204	165	79	67	30°	L
TKSH LOAD 370 76 R	80.5	76	370	380	204	167	79	67	30°	L
TKSH LOAD 370 76 L	80.5	76	370	380	204	167	79	67	30°	L
TKSH EXC 245 90 C	49.66	90	245	358	200	106	93	47	30°	E
TKSH EXC 245 90 R	50.66	90	245	365	200	116	93	47	30°	E
TKSH EXC 245 90 L	50.16	90	245	365	200	116	93	45	30°	E
TKSH EXC 280 90 C	54.5	90	280	350	200	105	93	44	30°	E
TKSH EXC 280 90 R	56.25	90	280	360	200	110	93	47	30°	E
TKSH EXC 280 90 L	55	90	280	360	200	110	93	47	30°	E
TKSH EXC 320 90 C	60	90	320	350	202	205	93	47	30°	E
TKSH EXC 320 90 R	61.75	90	320	350	200	110	93	48	30°	E
TKSH EXC 320 90 L	61.25	90	320	360	202	113	93	47	30°	E
TKSH EXC 360 90 C	65.75	90	360	360	200	110	93	48	30°	E
TKSH EXC 360 90 R	67.50	90	360	355	200	114	93	48	30°	E
TKSH EXC 360 90 L	66.25	90	360	355	200	114	93	48	30°	E
TKSH LOAD 370 90 C	106	90	370	420	225	170	93	77	30°	L
TKSH LOAD 370 90 R	109	90	370	420	225	170	93	78	30°	L
TKSH LOAD 370 90 L	109	90	370	420	225	170	93	78	30°	L
TKSH LOAD 370 100 C	102	100	370	420	225	170	103	77	30°	L
TKSH LOAD 370 100 R	105	100	370	420	225	170	103	68	30°	L
TKSH LOAD 370 100 L	105	100	370	420	225	170	103	68	30°	L
TKSH EXC 345 100 C	109	100	345	400	236	137	103	56	30°	E
TKSH EXC 345 100 R	111	100	345	410	236	134	103	56	30°	E
TKSH EXC 345 100 L	111	100	345	403	236	134	103	56	30°	E
TKSH EXC 380 120 C	122	120	380	425	257	150	124	55	30°	E
TKSH EXC 380 120 R	123	120	380	430	257	144	124	55	30°	E
TKSH EXC 380 120 L	123	120	380	430	257	144	124	55	30°	E

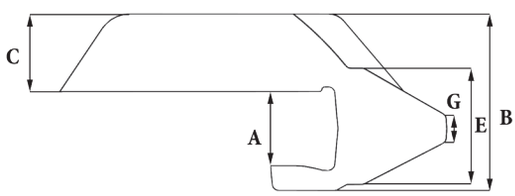
E = Excavator / L = Loader

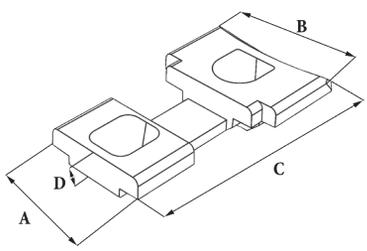
Wing Shrouds Dimensions

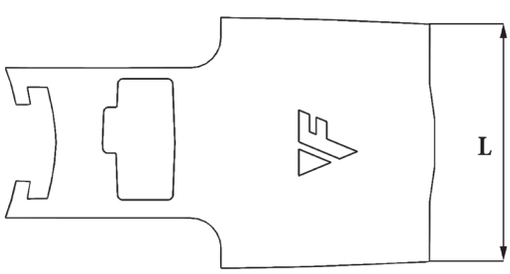
PART NO.	WEIGHT [kg]	CORNER THICKNESS [mm]	A	B	C	D	E	F	G	APPLICATIONS
TKWH 30	21	30	36	116	58	570	68	213	10	E / L
TKWH 50	24.3	55	57.6	132	58	590	82	213	17	E / L
TKWH 70	52.5	70	77	178	90	545	140	350	19	E / L
TKSH 60-90 AD	2.05	-	87	110	207	36.3	-	-	-	E / L
TKSH 60-90 CL	1.4	-	56.3	-	-	-	109	51	-	E / L
TKSH 100-140 AD	5.26	-	116	147	285	44	-	-	-	E / L
TKSH 100-140 CL	3.47	-	75	-	-	-	164	66	-	E / L

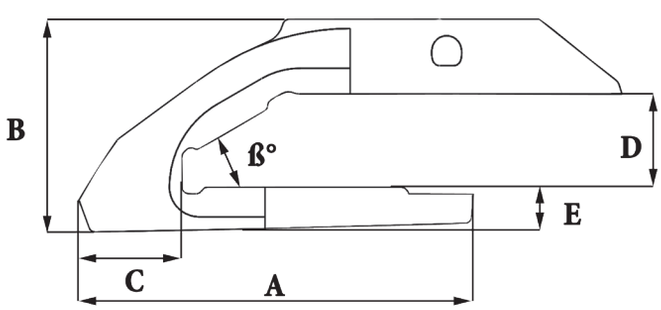












NOTES

NOTES



Your Dealer:

FEURST
Bd de la Boissonnette
42110 FEURS - FRANCE

Tél. **+33 (0)4 77 27 40 63**
sales@safe-feurst.fr
www.feurst.fr