

**2024-1**

**VF**

# EDITION



**TURNKEY®**  
**GRIZZLY**

Bucket Equipment for  
Construction

[www.turnkeyteeth.com](http://www.turnkeyteeth.com)



#### 30 YEARS OF EXPERIENCE

A subsidiary of the international Safe Group, FEURST was created in 1992. FEURST manufactures teeth, adapters and protections in the group's factories and our selected subcontractors. Over 1 million wear parts are produced and sold each year worldwide.



#### R&D

With its own Design and Methods Office, equipped with the latest 3D design and printing technologies, FEURST is able to adapt to all market demands, including the most demanding ones.



#### PATENTED TECHNOLOGY

FEURST holds patents on the TURNKEY® Grizzly and TURNKEY® Rhino lines, which cover the locking devices and adapters.



#### TECHNICAL SUPPORT

Thanks to a very knowledgeable technical and sales team, FEURST is able to offer tailor-made solutions adapted to all applications.



#### CUSTOMER SUPPORT

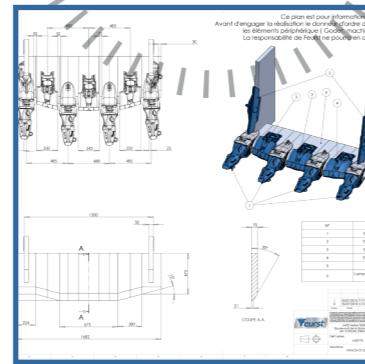
Thanks to an optimised supply chain, sales administration, and new online platform, FEURST is able to deliver a high level of performance to any customers.



#### CSR

95% of FEURST products are made from recycled materials (scrap). And 90% of its own waste is recycled. The Safe Group invests and builds a long-term action plan to reduce its carbon footprint and therefore its energy consumption.

TECHNOLOGY  
MADE IN  
**FRANCE**



*TURNKEY® Grizzly a new line of ground engaging tools using hammerless locking devices with permanent compression for teeth.*

The TURNKEY® Grizzly process is :

- A secured pin locking at 180°
- A conical dustproof plug
- Clockwise rotation (Pictogram on teeth)

The horizontal, rotative, and self locking devices, offers to the user a great ease and safe handling during assembly and disassembly.

Until **75 %**  
Wear ratio

**- 30 %**  
Assembly time

**55 T**  
Max. excavators weight

**65 T**  
Max. loaders weight



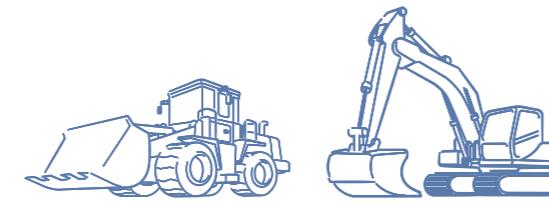
# The Technology

## TURNKEY® Grizzly

FEURST's patented TURNKEY® Grizzly line of teeth & adapters are designed to fulfill the requirements of Construction and Quarry entry-level machines.

Our buckets equipments combine performance, productivity, and durability in the toughest abrasive shock applications.

### A new range for loaders and excavators.



### Optimum operating cost

All teeth profiles are designed to self-sharpen as they wear and do not need to be reversed.

This reduces machine downtime.

The adapter's geometry is designed to protect the welds from wear, ensuring a secure fitting at all times.

The teeth are locked onto the adapter, minimizing movement and thus wear on the adapter nose.

Optimized soil penetration and bucket loading for easy, precise and comfortable working.

New tooth profile for optimized soil penetration.

### Optimum Safety

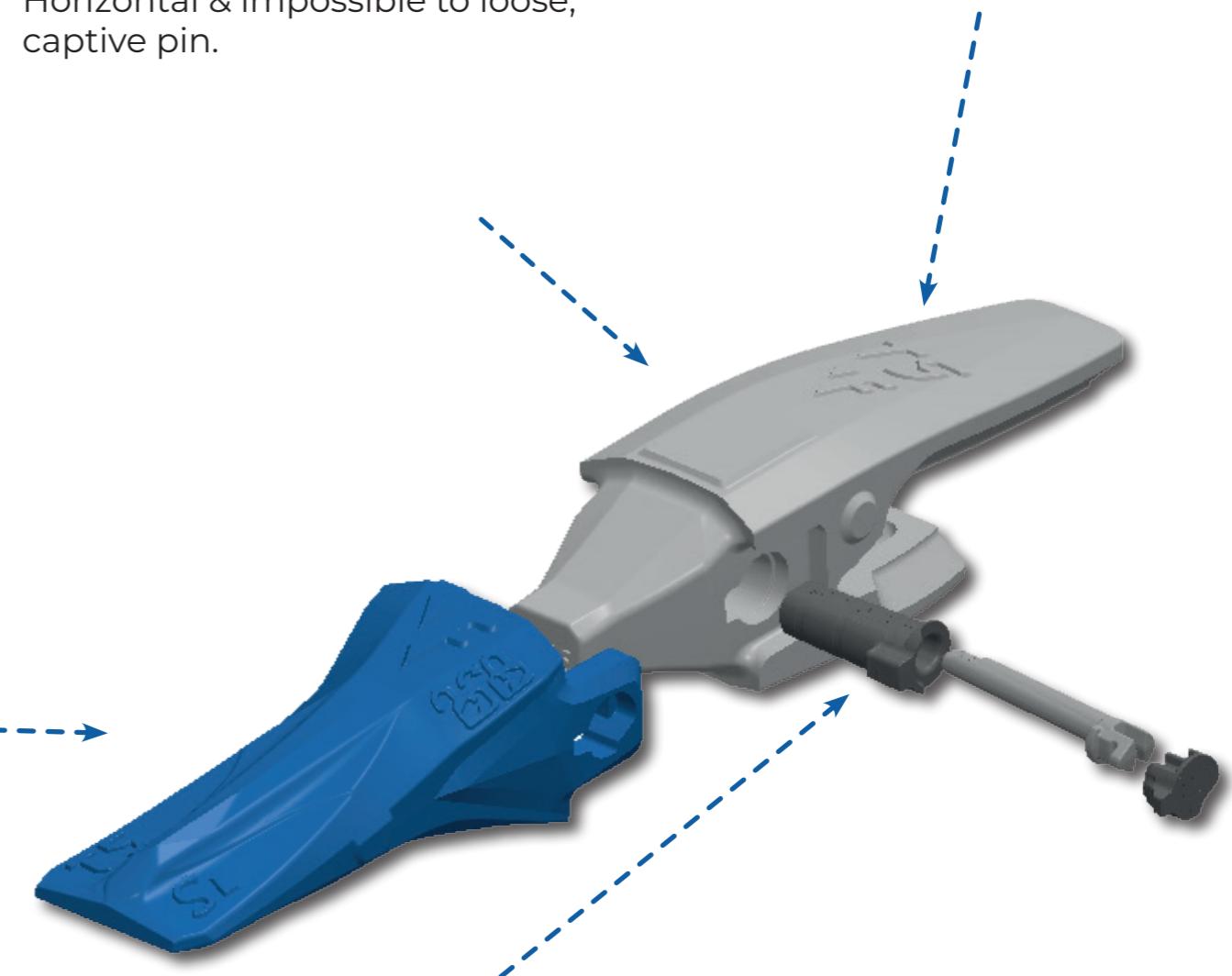
The TURNKEY® Grizzly locking device is a hammerless system, greatly reducing the risk of metal projection and accidents.

The pins are simply pushed in by hand and turned clockwise through 180° using the special socket supplied with the teeth.

Horizontal & impossible to loose, captive pin.

### Quicker Teeth Change

Teeth and wear caps are quick and easy to replace on site by a single person.



### Pin, Plug & Cap

An intuitive locking system facilitates installation and maintenance, and is single-use. The caps secure quick access to pin socket hole.

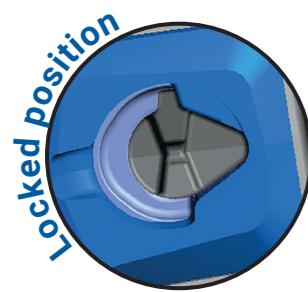
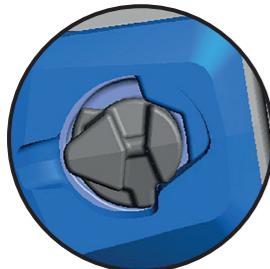


# The Solution for Construction



## More wear Material

The tooth's ears combined with the nose's geometry perform a load transfer, reducing mechanical constraints on the adapter.

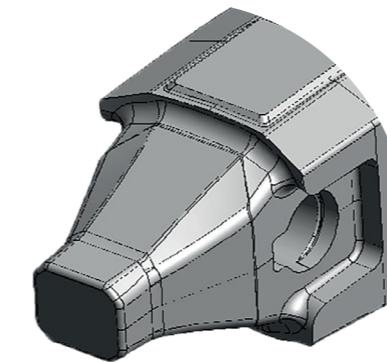


## Features of the new TURNKEY® Grizzly locking devices

100% safe assembly.

Only one way coding conical fitting plug (thanks to its conical shape), and coding fitting pin.

After 180° clockwise rotation, a mechanical stop confirms that the system is locked.



## Nose

Complex shapes of the nose, combined with conical seats, stabilization flats and ears, allow optimal tightening with the help of the locking devices.



## Locking devices

The innovative, rotating, eccentric, and dustproof system that compresses the tooth on the adapter, combined with the performance of the nose, ensures assembly performance, in-service holding, and disassembly under all circumstances.

Single-use locking device.  
The cap is an integral part of the locking system.



## BENEFITS

### ◆ Performance and Safety in service

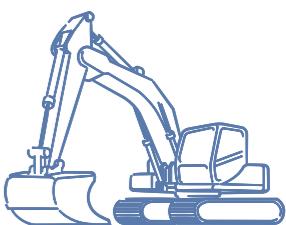
- Innovative and secure locking devices
- Perfect fitting
- No loss of teeth
- Better soil penetration
- Driver comfort
- Easy assembly and disassembly
- Bucket loading optimization
- Precision / ease of operation

### ◆ Reduction of operating costs (T.C.O\*)

- Zero machine downtime 
- Best quality/price ratio
  - Lightweight adapters
  - Increased wear ratio up to 75%
  - Protection of the machine and its components
  - Increased durability
- Several blade thicknesses available / for each size



# Excavators



## ADAPTERS



| SIZE | Max. Machine Weight         | Blade Thickness (mm) | ADAPTERS   |            |            |       | TEETH |       |       |         | LOCKING DEVICES |       |       |       |        |
|------|-----------------------------|----------------------|------------|------------|------------|-------|-------|-------|-------|---------|-----------------|-------|-------|-------|--------|
|      |                             |                      | T3 1325-10 | T3 1530-16 | T3 BP      | T3 NS | T3 S  | T3 PR | T3 PE | T3 PE-C | T3 DPE          | T3 EL | T3 CL | T3 SB | T3 CPR |
| 3    | Standard 10.5 T - HD 8 T    | <b>25</b>            | T3 1325-10 |            |            |       |       |       |       |         |                 |       | T4 CL | T4 SB | T4 CPR |
|      |                             | <b>30</b>            |            | T3 1530-16 |            |       |       |       |       |         |                 |       |       |       |        |
| 4    | Standard 15.7 T - HD 12 T   | <b>25</b>            | T4 1325-10 |            |            |       |       |       |       |         |                 |       | T5 CL | T5 SB | T5 CPR |
|      |                             | <b>30</b>            | T4 1330-10 | T4 1530-16 |            |       |       |       |       |         |                 |       |       |       |        |
| 5    | Standard 21.7 T - HD 16.3 T | <b>30</b>            | T5 1330-10 |            |            |       |       |       |       |         |                 |       | T7 CL | T7 SB | T7 CPR |
|      |                             | <b>35</b>            | T5 1335-10 | T5 1535-10 | T5 1535-0° |       |       |       |       |         |                 |       |       |       |        |
| 7    | Standard 30 T - HD 22.5 T   | <b>35</b>            | T7 1335-10 |            |            |       |       |       |       |         |                 |       | T8 CL | T8 SB | T8 CPR |
|      |                             | <b>40</b>            | T7 1340-10 | T7 1540-10 | T7 1540-0° |       |       |       |       |         |                 |       |       |       |        |
| 8    | Standard 40 T - HD 30 T     | <b>40</b>            | T8 1340-10 |            |            |       |       |       |       |         |                 |       | T9 CL | T9 SB | T9 CPR |
|      |                             | <b>45</b>            | T8 1345-10 | T8 1545-10 | T8 1545-0° |       |       |       |       |         |                 |       |       |       |        |
| 9    | Standard 55 T - HD 40 T     | <b>45</b>            | T9 1345-10 |            |            |       |       |       |       |         |                 |       | T9 CL | T9 SB | T9 CPR |
|      |                             | <b>50</b>            | T9 1350-10 | T9 1550-10 | T9 1550-0° |       |       |       |       |         |                 |       |       |       |        |



# Wheel Loaders



## ADAPTERS



| SIZE | Max. Machine Weight | Blade Thickness (mm) | Flush | Abrasion | Weld on nose / NS |
|------|---------------------|----------------------|-------|----------|-------------------|
|------|---------------------|----------------------|-------|----------|-------------------|

|          |                             |           |            |              |       |
|----------|-----------------------------|-----------|------------|--------------|-------|
| <b>3</b> | Standard 11.55 T - HD 8.9 T | <b>25</b> | T3 1025-16 | T3 1525-16   | T3 NS |
|          |                             | <b>30</b> |            | T3 1530-16   |       |
| <b>4</b> | Standard 16.7 T - HD 12.9 T | <b>30</b> | T4 1030-16 | T4 1530-16   | T4 NS |
|          |                             | <b>35</b> |            | T4 1535-16   |       |
| <b>5</b> | Standard 25 T - HD 19.5 T   | <b>35</b> | T5 1035-16 | T5 1535-16   | T5 NS |
|          |                             | <b>40</b> |            | T5 1540-16   |       |
| <b>7</b> | Standard 33.8 T - HD 25 T   | <b>40</b> | T7 1040-16 | T7 1540-16   | T7 NS |
|          |                             | <b>45</b> |            | T7 1545-16   |       |
| <b>8</b> | Standard 47 T - HD 33.5 T   | <b>45</b> | T8 1045-16 | **T8 1545-16 | T8 NS |
|          |                             | <b>50</b> |            | T8 1550-16   |       |
| <b>9</b> | Standard 63.6 T - HD 46.9 T | <b>50</b> | T9 1050-16 | T9 1550-16   | T9 NS |

## TEETH



|      |       |       |       |       |
|------|-------|-------|-------|-------|
| T3 S | T3 PR | T3 PE |       |       |
| T4 S | T4 PR | T4 PE | T4 SA |       |
| T5 S | T5 PR | T5 PE | T5 SA | T5 RA |
| T7 S | T7 PR | T7 PE | T7 SA | T7 RA |
| T8 S | T8 PR | T8 PE | T8 SA | T8 RA |
| T9 S | T9 PR | T9 PE | T9 SA | T9 RA |

## LOCKING DEVICES

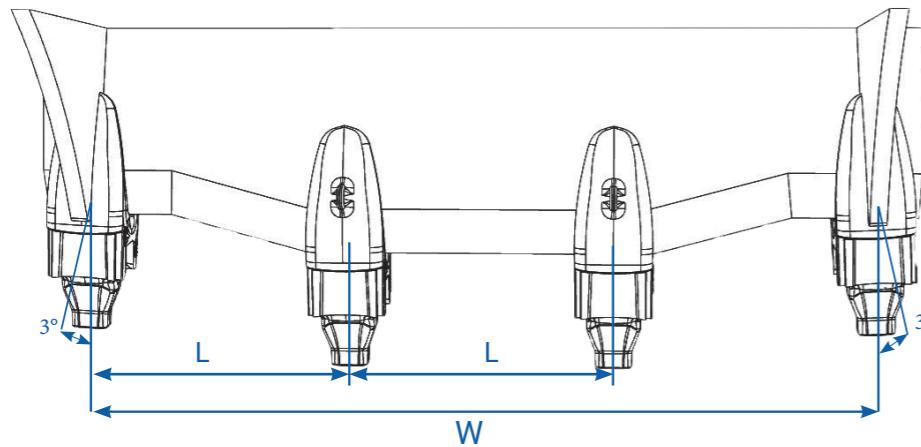


|       |       |        |
|-------|-------|--------|
| T3 CL | T3 SB | T3 CPR |
| T4 CL | T4 SB | T4 CPR |
| T5 CL | T5 SB | T5 CPR |
| T7 CL | T7 SB | T7 CPR |
| T8 CL | T8 SB | T8 CPR |
| T9 CL | T9 SB | T9 CPR |

\*\* Under Development



## Determination of the number of TURNKEY® adapters for a given width of bucket data



### Determination of the number of adapters for a given width:

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

$W$ = Inside lips width (mm)

$L$  mini &  $L$  maxi = adapters spacing (See dimensions below)

$$\text{Minimum number of adapters : } \frac{W}{L \text{ maxi}} + 1 =$$

$$\text{Maximum number of adapters: } \frac{W}{L \text{ mini}} + 1 =$$

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The choice of the number of adapters is made according to the criteria of applications encountered, knowing that we will put for example :

- In an abrasive environment, a maximum of adapters are recommended
- For better penetration in less abrasive environments, install the minimum number of adapters bucket

| Excavator |      |      |                    | Wheel Loader |      |
|-----------|------|------|--------------------|--------------|------|
| L (mm)    |      | Size | Adapter Width (mm) | L (mm)       |      |
| Mini      | Maxi |      |                    | Mini         | Maxi |
| 180       | 255  | T 3  | 72.5               | 240          | 322  |
| 220       | 310  | T 4  | 83                 | 300          | 400  |
| 230       | 320  | T 5  | 89                 | 315          | 420  |
| 250       | 350  | T 7  | 106                | 350          | 470  |
| 285       | 400  | T 8  | 121                | 380          | 505  |
| 330       | 465  | T 9  | 138                | 440          | 590  |

## Adapters definition



**Flush** : Adapter of Flush-type for loaders, flush mount. Very high abrasion resistance.



**Standard** : Adapter for excavators and loaders. Holds perfectly on the blade. Shape adapted to the tooth; high abrasion resistance.



**0°** : Specific adapter for excavators and loaders for applications where the tooth needs to be aligned with the blade axis (ex : rock handling, no marks on the ground).



**Abrasion** : Adapter for heavy duty excavators and loaders. Optimum abrasion resistance.



**Clamshells** : Flush-type adapter for digging or rehanging clamshells. High abrasion resistance.

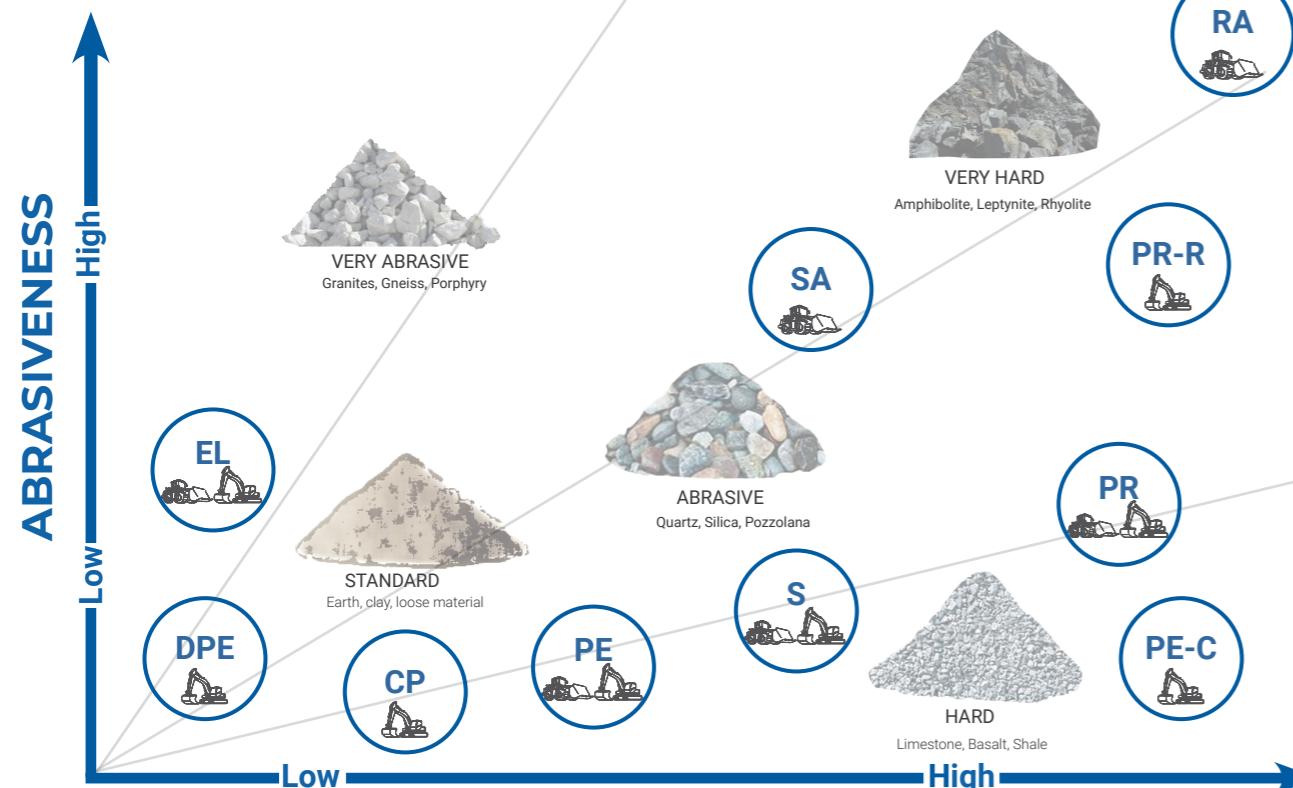


**Weld-on nose** : Adapter for rock cutting works and for repairing any adapter.





# Tooth / Soil



**Standard :** Long, flat tooth. Ideal profile for earthworks, good penetration and abrasion resistance.

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

**Twin Pick :** Double vector tooth used on bucket corners to protect the sides from wear.

**Pick :** Long and sharp tooth ensuring an excellent penetration.

**Extra-Large (Flare) :** Flat profile for pick-up and construction work.

**Super Abrasion :** Excellent abrasion resistance with penetration-maintaining heel profile.

**CP :** Pointed and penetrating tooth, used to scalp layers of materials in less abrasive environments (such as coal).

**Equipment recommendations between machine weight and its breakout force**  
(B.O.F= Break Out Force) expressed in Tons (T)

| Machine      | T 3         |        | T 4      |       | T 5      |       | T 7      |       | T 8      |       | T 9      |       |
|--------------|-------------|--------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|
|              | Standard    | HD     | Standard | HD    | Standard | HD    | Standard | HD    | Standard | HD    | Standard | HD    |
| Excavator    | Max. Weight | 10.5T  | 8T       | 15.7T | 12T      | 21.7T | 16.3T    | 30T   | 22.5T    | 40T   | 30T      | 55T   |
|              | Max. B.O.F. | 8T     | 6.5T     | 11T   | 8.8T     | 15T   | 12T      | 19T   | 15.5T    | 25T   | 20T      | 32T   |
| Wheel Loader | Max. Weight | 11.55T | 8.9T     | 16.7T | 12.9T    | 25T   | 19.5T    | 33.8T | 25T      | 47T   | 33.5T    | 63.6T |
|              | Max. B.O.F. | 11.5T  | 8.9T     | 16.7T | 12.9T    | 25T   | 19.5T    | 32.6T | 25T      | 39.9T | 32.3T    | 49.2T |

1 Tonne = 9.8067 Kn

Recommendation valid for a standard excavator bucket equipped with 5 teeth or equipped with 8 teeth for loaders.

In case of extremely severe use, oversize by one size.

Applications and working conditions must be taken into consideration, consult your FEURST dealer.

Data provided for recommendation purposes only, under no circumstances can FEURST's liability be engaged.

## Bucket Selection Based on Application

**Standard Bucket :** Suitable for digging and loading of soft to medium hard, compact and non-abrasive materials such as earth/rock, sand/gravel, coal, chalk, and non-abrasive ores.

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

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# Teeth Dimensions

## Machine-specific recommendations

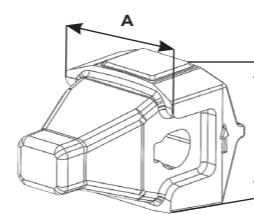
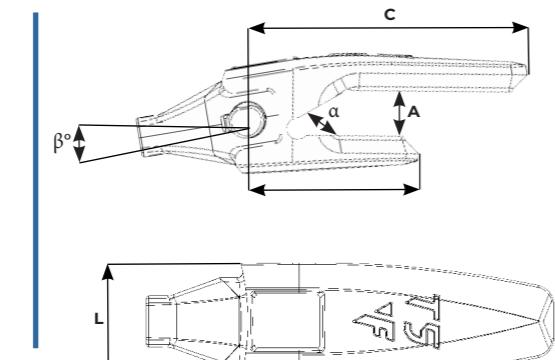
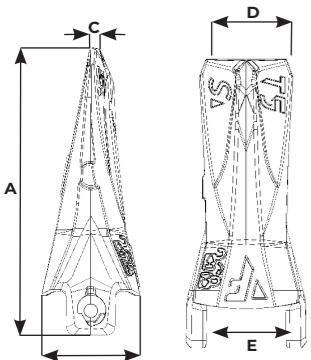
| SIZE | Poids Machine / Machine Weight | Epaisseur de Lame / Blade Thickness | VOLVO            | HITACHI          | Caterpillar | LIEBHERR       | KOMATSU          |
|------|--------------------------------|-------------------------------------|------------------|------------------|-------------|----------------|------------------|
| T3   | S :10.5T<br>HD: 8T             | 25mm / 30mm                         | EC 80<br>EC 88   | ZX 85            | 308<br>310  | -              | PC 88<br>PC 118  |
| T4   | S:15.7T<br>HD:12T              | 30mm / 35mm                         | EC 130<br>EC 140 | ZX 110<br>ZX 130 | 312<br>314  | R 900          | PC 138           |
| T5   | S:21.7T<br>HD:16.3T            | 35mm / 40mm                         | EC 160<br>EC 200 | ZX 160<br>ZX180  | 317<br>320  | R 902<br>R 904 | PC 160<br>PC 180 |
| T7   | S:30T<br>HD: 22.5T             | 35mm 40mm 45mm                      | EC 210<br>EC 240 | ZX 210<br>ZX 240 | 322<br>325  | R 914<br>R 924 | PC 210<br>PC 240 |
| T8   | S:40T<br>HD:30T                | 45mm / 50mm                         | EC 280<br>EC 300 | ZX 290<br>ZX 300 | 330         | R 932          | PC 280<br>PC 300 |
| T9   | S:55T<br>HD:40T                | 45mm / 50mm                         | EC 330<br>EC 360 | ZX 330<br>ZX 350 | 335<br>336  | R 934          | PC 350           |

| SIZE | Poids Machine / Machine Weight | Epaisseur de Lame / Blade Thickness | VOLVO | HITACHI          | Caterpillar | LIEBHERR | KOMATSU          |
|------|--------------------------------|-------------------------------------|-------|------------------|-------------|----------|------------------|
| T3   | S:11.5T<br>HD: 8.9T            | 25mm / 30mm                         | L 70  | -                | -           | -        | WA 200           |
| T4   | S:16.7T<br>HD:12.9T            | 30mm / 35mm                         | L 120 | ZW 140<br>ZW 180 | 950         | L 542    | WA 250<br>WA 320 |
| T5   | S:25T<br>HD:19.5T              | 35mm / 40mm                         | L 150 | ZW 220           | 962<br>966  | L 556    | WA 430           |
| T7   | S:33.8T<br>HD: 25T             | 40mm / 45mm                         | L 180 | ZW 310           | 972         | L 566    | WA 480           |
| T8   | S:47T<br>HD:33.5T              | 45mm / 50mm                         | L 220 | ZW 370           | 980         | L 576    | WA 500           |
| T9   | S:63.6T<br>HD:46.9T            | 50mm                                | L 260 | ZW 550           | 986         | L 586    | WA 600           |

| SIZE | TYPE | PART NO. | WEIGHT [kg] | DIMENSIONS [mm] |     |    |     |     |
|------|------|----------|-------------|-----------------|-----|----|-----|-----|
|      |      |          |             | A               | B   | C  | D   | E   |
| 3    | S    | T3 S     | 2.07        | 186             | 71  | 9  | 57  | 55  |
| 3    | PR   | T3 PR    | 2.25        | -               | -   | -  | -   | -   |
| 3    | PE   | T3 PE    | 1.7         | -               | -   | -  | -   | -   |
| 3    | PE-C | T3 PE-C  | 2.5         | -               | -   | -  | -   | -   |
| 3    | DPE  | T3 DPE   | 2.1         | -               | -   | -  | -   | -   |
| 3    | EL   | T3 EL    | 2.4         | -               | -   | -  | -   | -   |
| 4    | S    | T4 S     | 3.28        | 221             | 78  | 12 | 69  | 63  |
| 4    | PR   | T4 PR    | 3.4         | -               | -   | -  | -   | -   |
| 4    | PE   | T4 PE    | 2.61        | -               | -   | -  | -   | -   |
| 4    | PE-C | T4 PE-C  | 3.5         | -               | -   | -  | -   | -   |
| 4    | DPE  | T4 DPE   | 3.3         | -               | -   | -  | -   | -   |
| 4    | EL   | T4 EL    | 4.1         | -               | -   | -  | -   | -   |
| 4    | SA   | T4 SA    | 4.9         | -               | -   | -  | -   | -   |
| 5    | S    | T5 S     | 4.06        | 255             | 88  | 9  | 70  | 70  |
| 5    | PR   | T5 PR    | 5.1         | 266             | 88  | 13 | 35  | 70  |
| 5    | PE   | T5 PE    | 3.95        | 289             | 88  | 8  | 9   | 70  |
| 5    | PE-C | T5 PE-C  | 3.56        | 237             | 88  | 7  | 11  | 70  |
| 5    | DPE  | T5 DPE   | 4.49        | 287             | 88  | 4  | 114 | 70  |
| 5    | EL   | T5 EL    | 6.21        | 265             | 88  | 9  | 136 | 70  |
| 5    | SA   | T5 SA    | 7.26        | 290             | 88  | 8  | 39  | 70  |
| 5    | RA   | T5 RA    | 7.72        | 265             | 95  | 10 | 53  | 70  |
| 7    | S    | T7 S     | 6.86        | 280             | 105 | 10 | 84  | 81  |
| 7    | PR   | T7 PR    | 6.86        | 302             | 105 | 12 | 43  | 81  |
| 7    | PR-R | T7 PR-R  | 8.7         | 314             | 105 | 15 | 114 | 81  |
| 7    | PE   | T7 PE    | 5.82        | 316             | 105 | 8  | 13  | 81  |
| 7    | PE-C | T7 PE-C  | 5.24        | 255             | 105 | 8  | 13  | 81  |
| 7    | DPE  | T7 DPE   | 6.74        | 312             | 105 | 6  | 138 | 81  |
| 7    | EL   | T7 EL    | 9.72        | 299             | 105 | 15 | 178 | 81  |
| 7    | SA   | T7 SA    | 11.43       | 327             | 105 | 10 | 42  | 81  |
| 7    | RA   | T7 RA    | 12          | 296             | 127 | 17 | 67  | 81  |
| 8    | S    | T8 S     | 10.6        | 313             | 125 | 13 | 103 | 92  |
| 8    | PR   | T8 PR    | 10.55       | 343             | 125 | 13 | 47  | 92  |
| 8    | PR-R | T8 PR-R  | 12.62       | 352             | 125 | 18 | 131 | 92  |
| 8    | PE   | T8 PE    | 9.1         | 357             | 125 | 9  | 13  | 92  |
| 8    | PE-C | T8 PE-C  | 7.78        | 300             | 125 | 10 | 13  | 92  |
| 8    | CP   | T8 CP    | 8.23        | 378             | 125 | 7  | 13  | 92  |
| 8    | DPE  | T8 DPE   | 10.13       | 353             | 125 | 7  | 147 | 92  |
| 8    | EL   | T8 EL    | 13.91       | 331             | 125 | 18 | 182 | 92  |
| 8    | SA   | T8 SA    | 15.74       | 364             | 125 | 12 | 49  | 92  |
| 8    | RA   | T8 RA    | 17.9        | 334             | 147 | 18 | 75  | 92  |
| 9    | S    | T9 S     | 14.93       | 346             | 144 | 17 | 108 | 103 |
| 9    | PR   | T9 PR    | 16.10       | 385             | 144 | 14 | 52  | 103 |
| 9    | PR-R | T9 PR-R  | 18.05       | 391             | 144 | 22 | 52  | 103 |
| 9    | PE   | T9 PE    | 13.05       | 394             | 144 | 10 | 15  | 103 |
| 9    | PE-C | T9 PE-C  | 11.57       | 336             | 144 | 12 | 15  | 103 |
| 9    | DPE  | T9 DPE   | 14.99       | 390             | 144 | 9  | 167 | 103 |
| 9    | EL   | T9 EL    | 19.65       | 365             | 144 | 21 | 227 | 103 |
| 9    | SA   | T9 SA    | 22.56       | 410             | 144 | 11 | 56  | 103 |
| 9    | RA   | T9 RA    | 24.08       | 398             | 166 | 21 | 83  | 103 |

# Adapters Dimensions

| SIZE | PART NO.    | WEIGHT [kg] | Blade Th. [mm] | DIMENSIONS [mm] |     |     |      |                |               |       |       | APPLICATIONS |
|------|-------------|-------------|----------------|-----------------|-----|-----|------|----------------|---------------|-------|-------|--------------|
|      |             |             |                | A               | B   | C   | L    | $\alpha^\circ$ | $\beta^\circ$ | 16°   | 10°   |              |
| 3    | T3 1025 16° | 4.5         | 25             |                 |     |     |      |                |               | 16°   | L     |              |
| 3    | T3 1325 10° | 3.9         | 25             |                 |     |     |      |                |               | 10°   | E     |              |
| 3    | T3 1525 16° | 3.85        | 25             | 25.5            | 79  | 145 | 72.5 | 30°            | 16°           | E/L   |       |              |
| 3    | T3 1530 16° | 4.2         | 30             |                 |     |     |      |                |               | 16°   | E/L   |              |
| 3    | T3 BP       | 4           | -              |                 |     |     |      |                |               | -     | E     |              |
| 3    | T3 NS       | 1.6         | -              | -               | -   | -   | -    | -              | -             | E / L |       |              |
| 4    | T4 1030 16° | 7           | 30             |                 |     |     |      |                |               | 16°   | L     |              |
| 4    | T4 1325 10° | 6.2         | 30             |                 |     |     |      |                |               | 10°   | E     |              |
| 4    | T4 1330 10° | 5.37        | 30             |                 |     |     |      |                |               | 10°   | E     |              |
| 4    | T4 1530 16° | 6.4         | 30             |                 |     |     |      |                |               | 16°   | L     |              |
| 4    | T4 1535 16° | 6.4         | 35             |                 |     |     |      |                |               | 16°   | L     |              |
| 4    | T4 BP       | 6.7         | -              |                 |     |     |      |                |               | -     | E     |              |
| 4    | T4 NS       | 2.7         | -              |                 |     |     |      |                |               | -     | E / L |              |
| 5    | T5 1035 16° | 8.59        | 35             | 35              | -   | 240 | 89   | 30°            | 16°           | L     |       |              |
| 5    | T5 1330 10° | 7.29        | 30             | 31              | 202 | 111 | 89   | 30°            | 10°           | E     |       |              |
| 5    | T5 1335 10° | 6.83        | 35             | 36              | 200 | 110 | 89   | 30°            | 10°           | E     |       |              |
| 5    | T5 1535 10° | 6.68        | 35             | 36              | 96  | 185 | 89   | 30°            | 10°           | E     |       |              |
| 5    | T5 1535 0°  | 6.45        | 35             | 36              | 99  | 190 | 89   | 30°            | 0°            | E / L |       |              |
| 5    | T5 1535 16° | 7.7         | 35             | 36              | 108 | 188 | 89   | 30°            | 16°           | L     |       |              |
| 5    | T5 1540 16° | 7.86        | 40             | 41              | 92  | 192 | 89   | 30°            | 16°           | L     |       |              |
| 5    | T5 BP       | 9.06        | -              | -               | -   | 196 | 89   | -              | -             | E     |       |              |
| 5    | T5 NS       | 3.9         | -              | 89              | -   | -   | 89   | -              | -             | E / L |       |              |
| 7    | T7 1040 16° | 12.26       | 40             | 41              | -   | 252 | 106  | 25°            | 16°           | L     |       |              |
| 7    | T7 1540 16° | 12.33       | 40             | 41              | 122 | 220 | 106  | 30°            | 16°           | L     |       |              |
| 7    | T7 1545 16° | 12.1        | 45             | 41              | 120 | 205 | 106  | 30°            | 16°           | L     |       |              |
| 7    | T7 1335 10° | 11.89       | 35             | 41              | 131 | 243 | 106  | 30°            | 10°           | E     |       |              |
| 7    | T7 1340 10° | 11.79       | 40             | 41              | 120 | 236 | 106  | 30°            | 10°           | E     |       |              |
| 7    | T7 1540 10° | 11.87       | 40             | 41              | 120 | 236 | 106  | 30°            | 10°           | E     |       |              |
| 7    | T7 1540 0°  | 11.16       | 40             | 41              | 120 | 216 | 106  | 30°-           | 0°            | E / L |       |              |
| 7    | T7 BP       | 13.7        | -              | -               | -   | -   | -    | -              | -             | E     |       |              |
| 7    | T7 NS       | 6.26        | -              | 153             | 104 | -   | 104  | -              | -             | E / L |       |              |



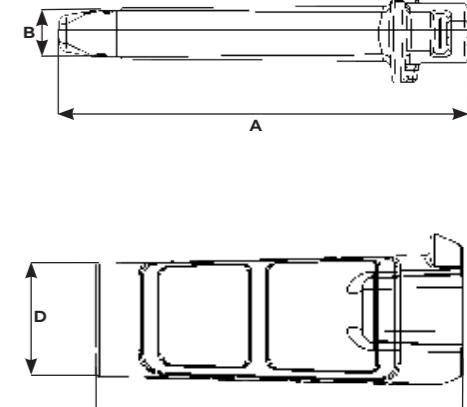
E = Excavator / L = Loader



| SIZE | PART NO.    | WEIGHT [kg] | Blade Th. [mm] | DIMENSIONS [mm] |     |     |     |                |               |       |     | APPLICATIONS |
|------|-------------|-------------|----------------|-----------------|-----|-----|-----|----------------|---------------|-------|-----|--------------|
|      |             |             |                | A               | B   | C   | L   | $\alpha^\circ$ | $\beta^\circ$ | 16°   | 10° |              |
| 8    | T8 1045 16° | 18.03       | 45             | 46              | -   | 292 | 121 | 25°            | 16°           | L     |     |              |
| 8    | T8 1545 16° | 18          | 45             | 46              | 126 | 248 | 121 | 30°            | 16°           | L     |     |              |
| 8    | T8 1550 16° | 18.59       | 50             | 51              | 160 | 260 | 121 | 30°            | 16°           | L     |     |              |
| 8    | T8 1340 10° | 17.71       | 40             | 46              | 130 | 260 | 121 | 30°            | 10°           | E     |     |              |
| 8    | T8 1345 10° | 17.58       | 45             | 46              | 130 | 260 | 121 | 30°            | 10°           | E     |     |              |
| 8    | T8 1545 10° | 17.78       | 45             | 46              | 125 | 260 | 121 | 30°            | 10°           | E     |     |              |
| 8    | T8 1545 0°  | 16.45       | 45             | 46              | 141 | 240 | 121 | 30°            | 0°            | E / L |     |              |
| 8    | T8 NS       | 9.08        | -              | 170             | 120 | -   | 121 | -              | -             | E / L |     |              |
| 9    | T9 1050 16° | 24.21       | 50             | 51              | -   | 315 | 138 | 30°            | 16°           | L     |     |              |
| 9    | T9 1550 16° | 24.85       | 50             | 51              | 173 | 283 | 138 | 30°            | 16°           | L     |     |              |
| 9    | T9 1345 10° | 23.64       | 45             | 46              | 162 | 284 | 138 | 30°            | 10°           | E     |     |              |
| 9    | T9 1350 10° | 23.49       | 50             | 51              | 162 | 284 | 138 | 30°            | 10°           | E     |     |              |
| 9    | T9 1550 10° | 23.48       | 50             | 51              | 152 | 293 | 138 | 30°            | 10°           | E     |     |              |
| 9    | T9 1550 0°  | 22.31       | 50             | 51              | 193 | 275 | 138 | 30°            | 0°            | E / L |     |              |
| 9    | T9 NS       | 13.62       | -              | 193             | 140 | -   | 138 | -              | -             | E / L |     |              |

E = Excavator / L = Loader

| SIZE | PART NO. | WEIGHT [g] | DIMENSIONS [mm] |      |     |    | APPLICATIONS |
|------|----------|------------|-----------------|------|-----|----|--------------|
|      |          |            | A               | B    | C   | D  |              |
| 3    | T3 CL    | 49         | 79              | 10   | -   | -  |              |
| 3    | T3 SB    | 10         | -               | -    | 52  | 15 |              |
| 3    | T3 CPR   | -          | -               | -    | -   | -  |              |
| 4    | T4 CL    | 75         | 91              | 11   | -   | -  |              |
| 4    | T4 SB    | 17         | -               | -    | 60  | 18 |              |
| 4    | T4 CPR   | -          | -               | -    | -   | -  |              |
| 5    | T5 CL    | 100        | 98              | 12   | -   | -  |              |
| 5    | T5 SB    | 26         | -               | -    | 69  | 21 |              |
| 5    | T5 CPR   | -          | -               | -    | -   | -  |              |
| 7    | T7 CL    | 145        | 113             | 13.5 | -   | -  |              |
| 7    | T7 SB    | 40         | -               | -    | 79  | 24 |              |
| 7    | T7 CPR   | 4          | -               | -    | -   | -  |              |
| 8    | T8 CL    | 195        | 129             | 15   | -   | -  |              |
| 8    | T8 SB    | 52         | -               | -    | 90  | 25 |              |
| 8    | T8 CPR   | 5          | -               | -    | -   | -  |              |
| 9    | T9 CL    | 280        | 145             | 17   | -   | -  |              |
| 9    | T9 SB    | 60         | -               | -    | 100 | 28 |              |
| 9    | T9 CPR   | 6          | -               | -    | -   | -  |              |
| OD   | SOCKET   | -          | -               | -    | -   | -  |              |



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Feurst – Bd de la Boissonnette  
42110 Feurs – France  
Tél +33 (0)4 77 27 40 63  
[marketing@safe-feurst.fr](mailto:marketing@safe-feurst.fr)



[www.turnkeyteeth.com](http://www.turnkeyteeth.com)