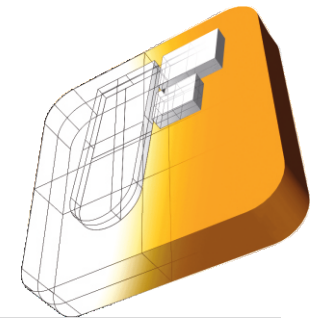


**F** *fantini*®

**GU 70-R-XC**



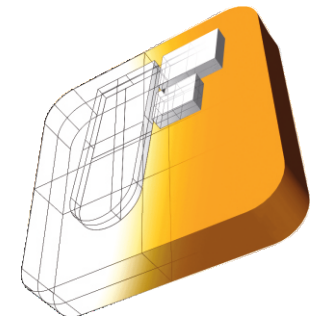
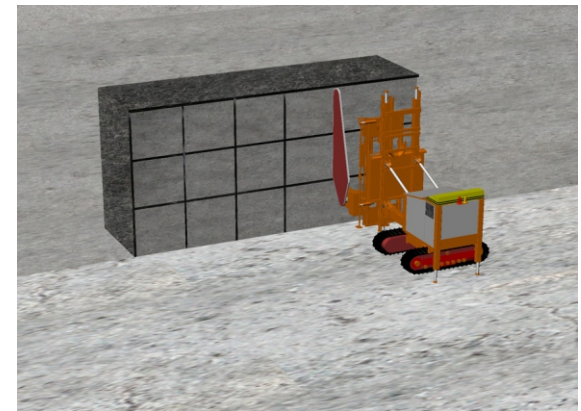
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**APERTURA DI UN NUOVO FRONTE  
(ESCAVAZIONE IN SOTTERRANEO)**

**OPENING A TUNNEL**

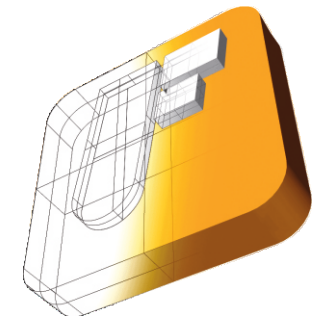
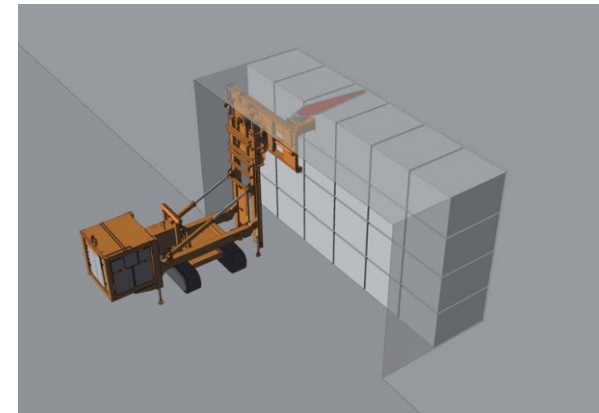


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**APERTURA DI VECCHI FRONTI IN GALLERIA**  
**NEW OPENING IN PRE-EXISTING GALLERIES**

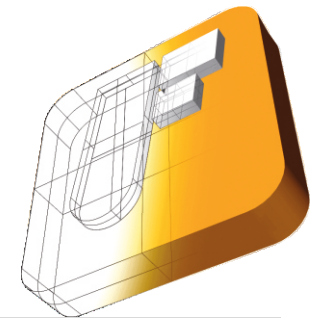


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**TAGLI ORIZZONTALI A PAVIMENTO**  
**CUTTING AT FLOOR LEVEL**

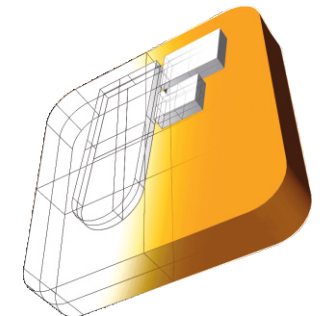


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**TAGLI ORIZZONTALI INTERMEDI**  
**ORIZZONTAL INTERMEDIATE CUTS**



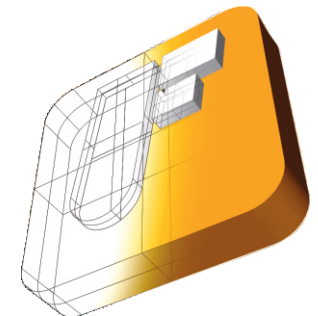
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**TAGLI ORIZZONTALI AL  
TETTO**

**HORIZONTAL CUTTING  
AT ROOF LEVEL**

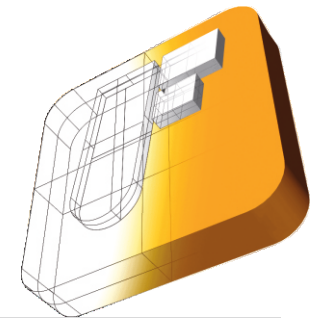


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**TAGLI VERTICALI A PARETE**  
**VERTICAL CUTTING AT WALL SIDE**

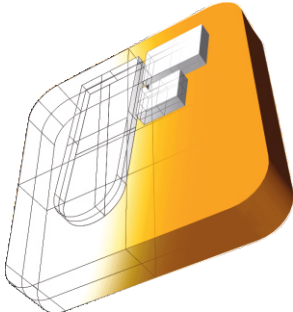


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**TAGLI VERTICALI INTERMEDI**  
**INTERMEDIATE VERTICAL CUT**

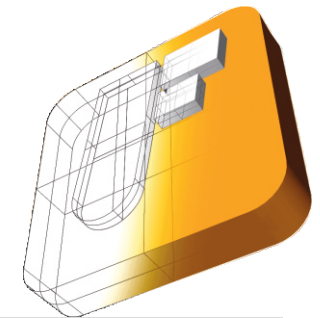


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**POSSIBILITÀ DI ISOLARE GRANDI  
VOLUMI DI ROCCIA**  
**POSSIBILITY TO ISOLATE GREAT  
VOLUMES OF ROCK**

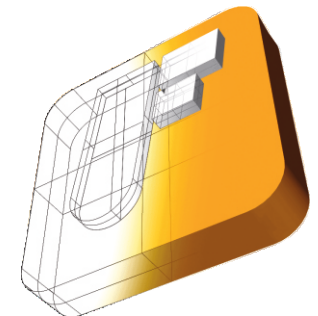


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**RETICOLO DI TAGLI COMPLANARI  
AI PRECEDENTI**  
CUTTING GRID WITH CUTS COM-  
PLANAR TO PREVIOUS ONES



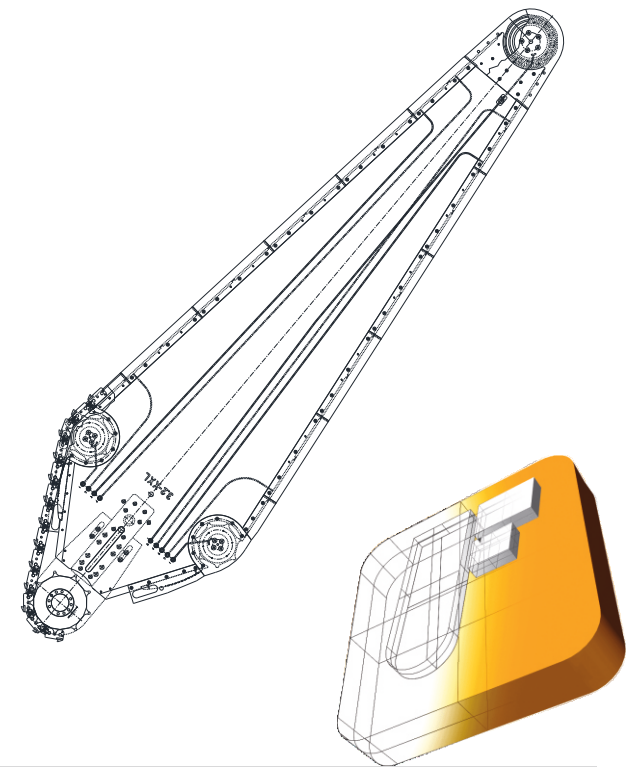
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**EQUIPAGGIAMENTO DI BRACCI CON  
GEOMETRIA XXL**

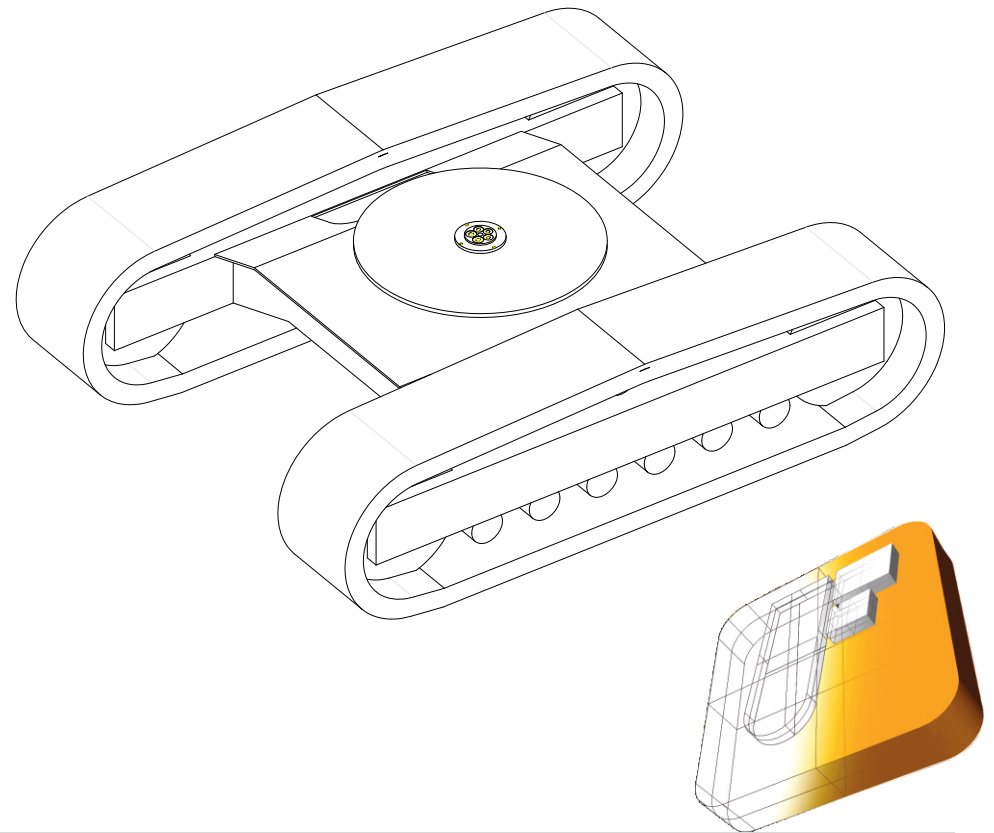
**ARM EQUIPMENTS WITH XXL GEOMETRY**



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**CINGOLI PER ARRIVARE NELLE ZONE PIÙ DIFFICILI**  
**TRACKS TO REACH DIFFICULT ENVIROMENTS**

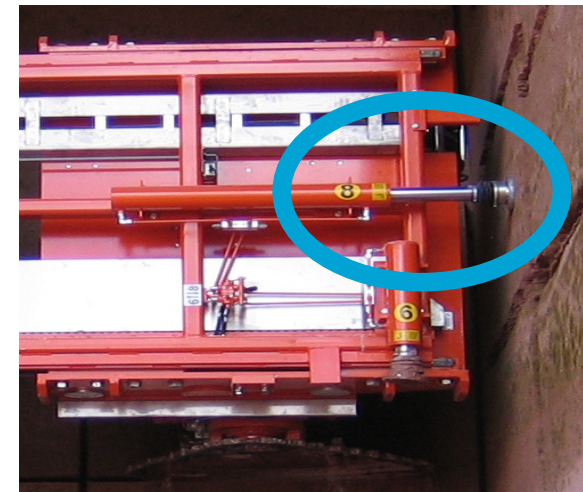


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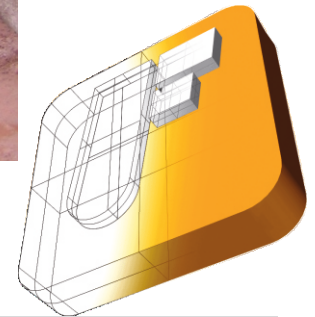


**PUNTELLI IDRAULICI (AUTOSTABILIZZANTI)**  
**HYDRAULIC JACKS (AUTO-STABILIZING)**



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**RALLA ROTAZIONE**  
**FIFTH WHEEL ROTATION**



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## PLC PER IL TAGLIO AUTOMATICO PLC FOR AUTOMATIC CUT

**MENU GENERALE -1-**


<b>Traslazione Verticale</b>	<b>Rotazione</b>	<b>Catena</b>
Set 0 %	0 %	0 %
Misura 0.00 m	0.0 °	
V reale 0.0 cm/min	0.0 °/min	<b>Lubrificazione</b>

<b>Inclinazione V</b>	<b>Inclinazione O</b>
Inizio T 0.0 °	0.0 °
Attuale 0.0 °	0.0 °

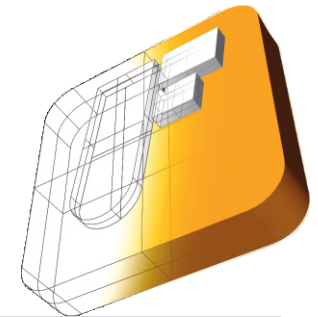
15 / 05 / 2014 14 : 26 : 53



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**CONTROLLO A MEZZO RADIOCOMANDO  
RADIO REMOTE CONTROL**

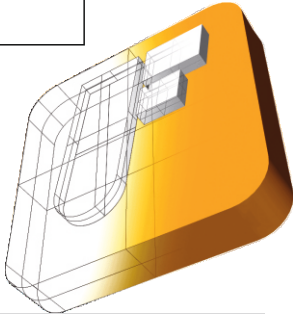


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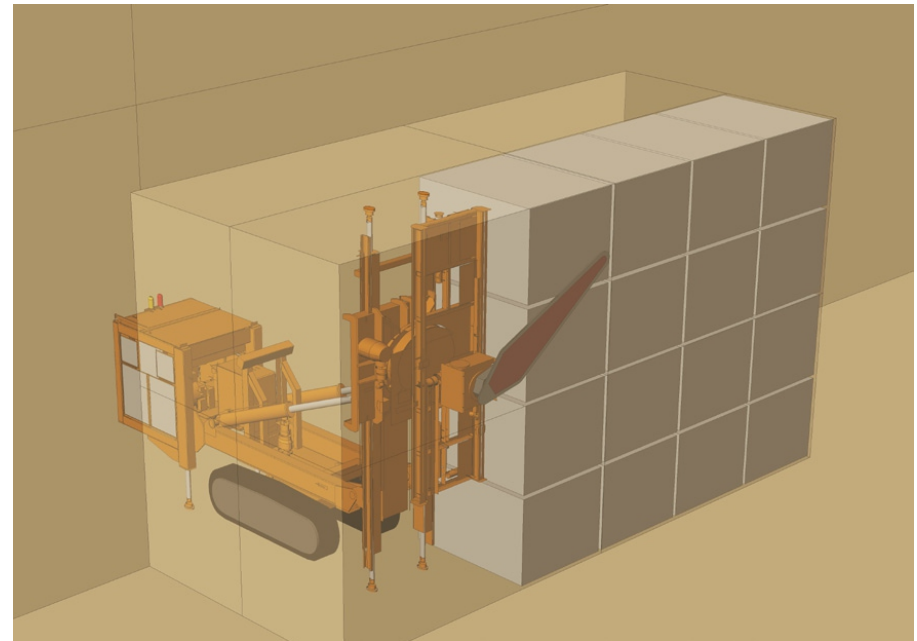
**FARI ANTERIORI  
FRONT LIGHTS**



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**PREDISPOSIZIONE PER IL TAGLIO POSTERIORE  
KIT FOR REAR CUT PREDISPOSITION**



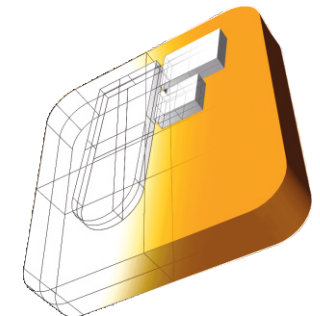
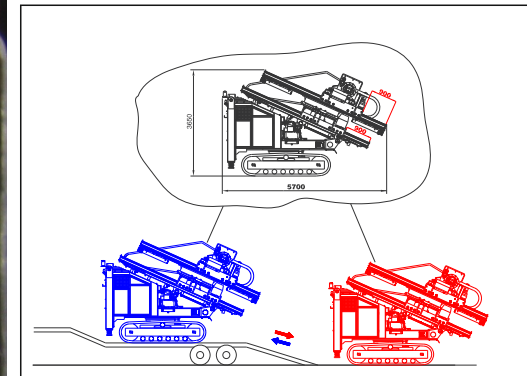
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**CONFIGURAZIONE DI TRASPORTO/  
SPOSTAMENTO COMPATTA**

**COMPACT MACHINE TRANSPORT/  
MOVEMENT CONFIGURATION**



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# DATI TECNICI TECHNICAL DATA

## DATI DI RIFERIMENTO

-Alimentazione elettrica .....	: 400 Volts 50 Hz trifase
-Potenza complessiva installata .....	: ≈ 56 KW
-Max assorbimento corrente .....	: 105 A
-Capacità serbatoio olio idraulico .....	: 450 litri
-Capacità serbatoio grasso .....	: 30 dn8
-Rotazione del braccio .....	: 360°
-Rotazione binario .....	: 270°
-Rotazione ralla cingoli .....	: 360°
-Orientamento puntone .....	: 24° ÷ 93°
-Corsa carrello porta-testa .....	: ≈ 3000 mm
-Corsa carrello verticale .....	: ≈ 3050 mm
-Corsa slitta portatesta .....	: ≈ 190 mm
-Profondità max taglio utile .....	: 3,2 m (tipo XXL)
-Larghezza taglio .....	: 38 mm
-Livello vibrazioni .....	: entro i limiti normativi previsti
-Livello rumore a regime <sup>1</sup> .....	: 85 dB(A) con rumore di fondo pari a 70 dB
-Livello di potenza sonora ponderato A	: 88 dB (A) - (a vuoto) 100 dB (A) - (a carico)
-Massa complessiva macchina .....	: 29.000 Kg

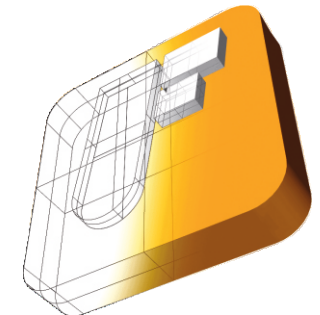
<sup>(1)</sup>Variabile in funzione delle caratteristiche del luogo di utilizzo della macchina

## REFERENCE DATA

-Electric supply .....	: 400 Volts 50 Hz trifase
-Total power installed .....	: ≈.56 KW
-Max current absorbtion .....	: 105 A
-Hydraulic oil tank capacity .....	: 450 litri
-Grease tank capacity .....	: 30.dn8
-Arm rotation .....	: 360°
-Rail rotation .....	: 270°
-Tracks rotation .....	: 360°
-Strut orientation .....	: 24° ÷ 93°
-Head holder trolley run .....	: ≈ 3000 mm
-Vertical trolley run .....	: ≈ 3050 mm
-Head holder slide run .....	: ≈ 190 mm
-Max cutting depth .....	: 3,2 m (type XXL)
-Cutting width .....	: 38 mm
-Vibration level .....	: according to law
-Running noise level <sup>1</sup> .....	: 85 dB(A) with background noise 70 dB
-Attentively considered noise level power A:	: 88 dB (A) - (empty) 100 dB (A) - (loaded)
-Total machine weight .....	: 29.000 Kg

<sup>(1)</sup>Variable according to the environment

I dati sopra elencati si riferiscono alle caratteristiche tecniche della segatrice a catena mod. GU 70-R-XC  
The data above are referred to chain saw machine mod. GU 70-R-XC



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# DATI TECNICI TECHNICAL DATA

## APPLICAZIONI E LIMITAZIONI

- Destinazione d'uso .....: Taglio di tutti i tipi di pietra (escluso il granito)
- Ambiente di utilizzo .....: Cave in sotterraneo (gallerie)
- Temperatura di stoccaggio .....:  $\geq -25^{\circ}\text{C}$
- Temperatura ambientale di funzionamento .....:  $\geq -10^{\circ}\text{C}$
- Temperatura olio idraulico .....:  $-20^{\circ}\text{C} \div +50^{\circ}\text{C}$
- Max pendenza superabile .....: 25%

## PRESTAZIONI

- Velocità rotazione catena .....:  $0 \div 1,2\text{ m/sec}$  (regolabile)
- Velocità di taglio .....:  $0 \div 10\text{ cm/min}$  (a seconda della velocità)
- Velocità spostamento su cingoli .....:  $1\text{ Km/h}$

## DIMENSIONI GALLERIA

- Altezza .....:  $5150 \div 5650\text{ mm}$
- Larghezza minima .....:  $7250\text{ mm}$

## APPLICATIONS AND LIMITS

- Use .....: Cutting of all types of stone (except granite)
- Enviroment of use .....: Underground quarry (gallerie)
- Stock weeping temperature .....:  $\geq -25^{\circ}\text{C}$
- Enviroment temperature operation condition .....:  $\geq -10^{\circ}\text{C}$
- Hydraulic oil temperature .....:  $-20^{\circ}\text{C} \div +50^{\circ}\text{C}$
- Max slope gradient .....: 25%

## PERFORMANCES

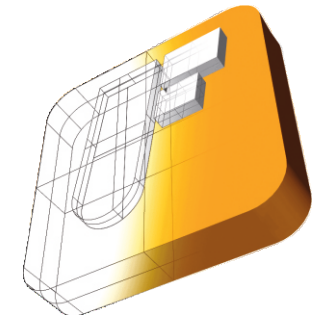
- Chain rotation speed .....:  $0 \div 1,2\text{ m/sec}$  (adjustable)
- Cutting speed .....:  $0 \div 10\text{ cm/min}$  (accoding to speed)
- Tracks moving speed .....:  $1\text{ Km/h}$

## GALLERY DIMENSION

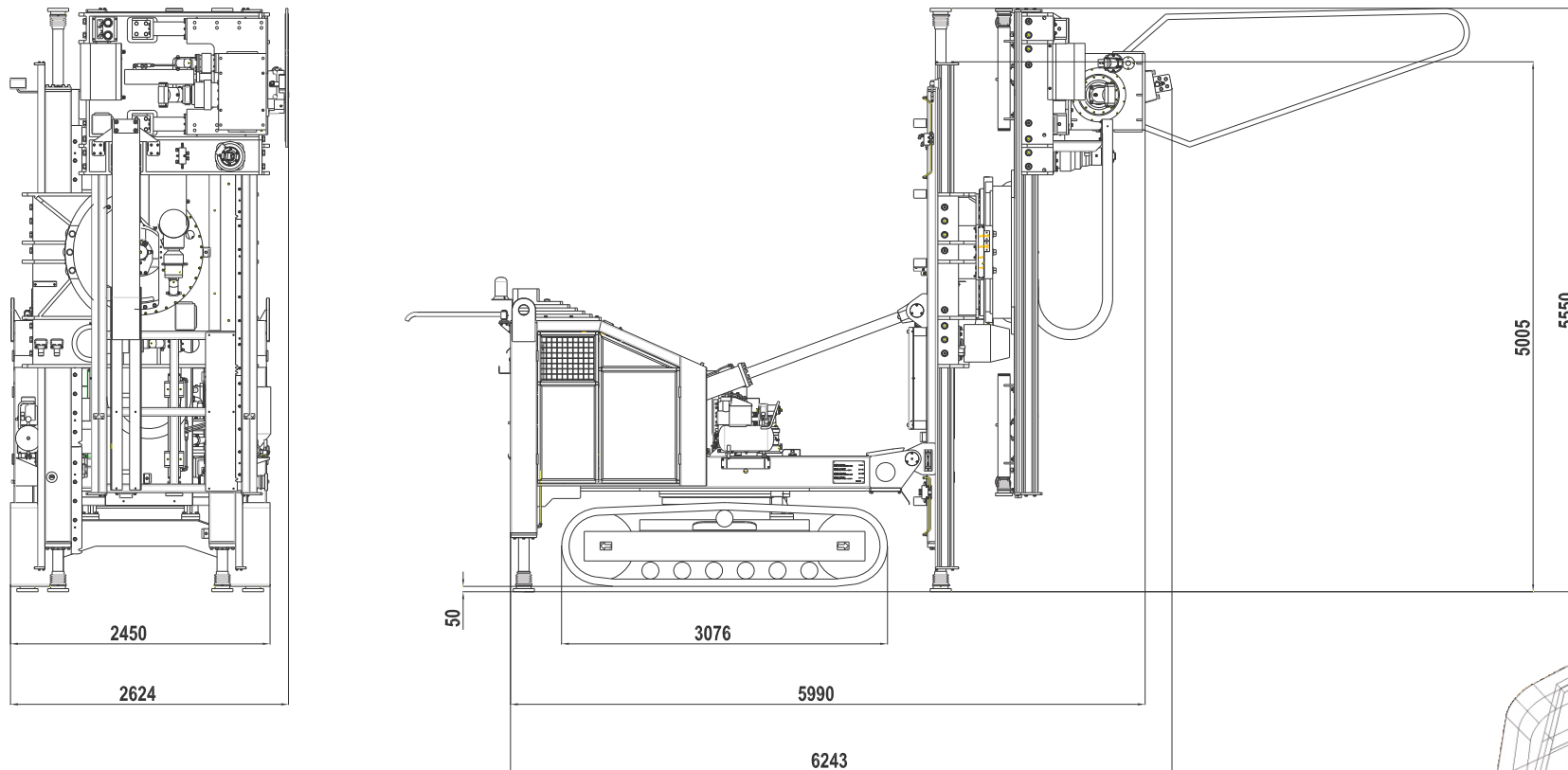
- Height .....:  $5150 \div 5650\text{ mm}$
- Minimum width .....:  $7250\text{ mm}$

I dati sopra elencati si riferiscono alle caratteristiche tecniche della segatrice a catena mod. GU 70-R-XC  
He data above are referred to chain saw machine mod. GU 70-R-XC

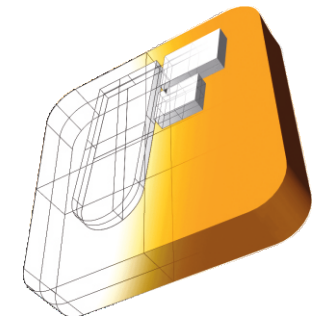
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# DIMENSIONI DI INGOMBRO PER TAGLIO VERTICALE (\*) MACHINE ENCUBRANCE FOR VERTICAL CUT (\*)



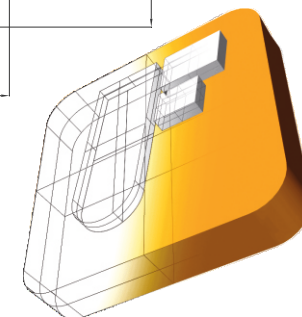
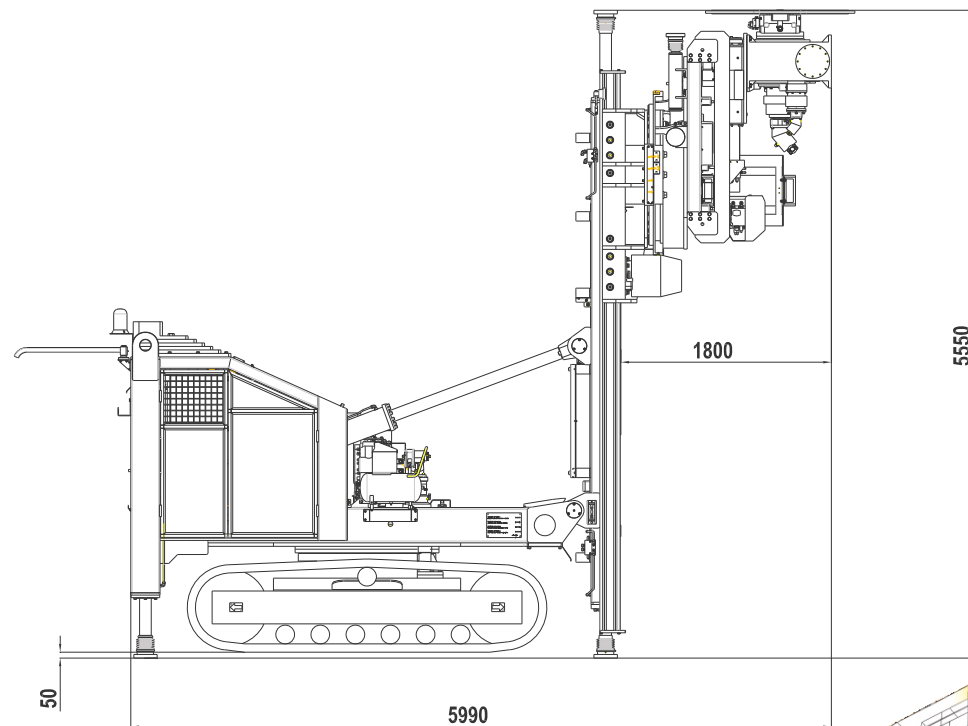
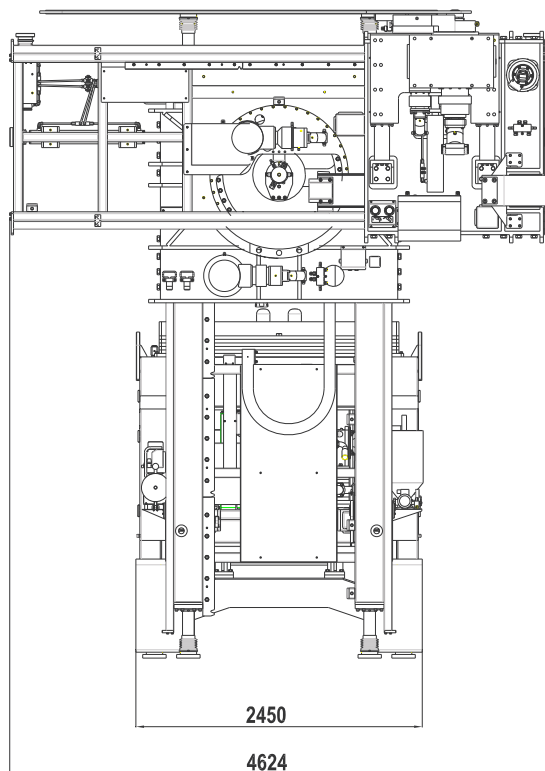
(\*) La macchina può essere dimensionata in base alle esigenze del cliente  
(\*) The machine can be dimensioned according to the client's need



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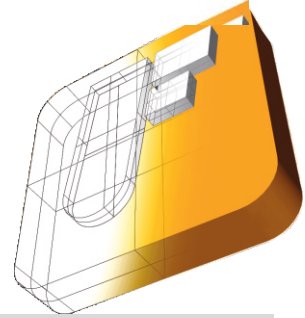
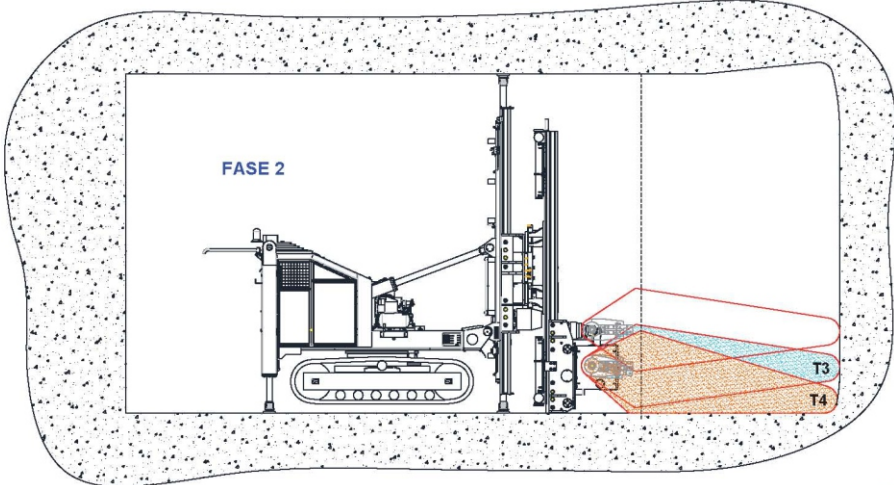
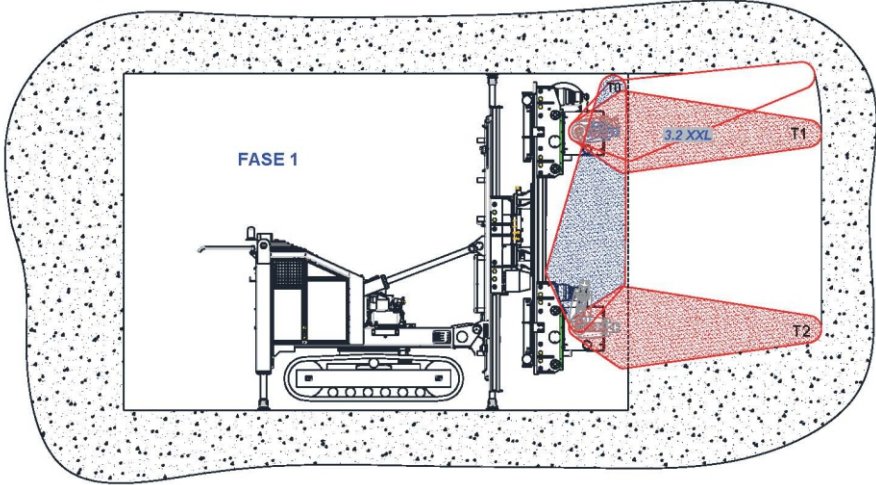
## DIMENSIONI DI INGOMBRO PER TAGLIO ORIZZONTALE<sup>(\*)</sup> MACHINE ENCUBRANCE FOR HORIZONTAL CUT<sup>(\*)</sup>



<sup>(\*)</sup> La macchina può essere dimensionata in base alle esigenze del cliente  
<sup>(\*)</sup> He machine can be dimensioned according to the client's need

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**FASI TAGLIO VERTICALE**  
**VERTICAL CUT PHASES**

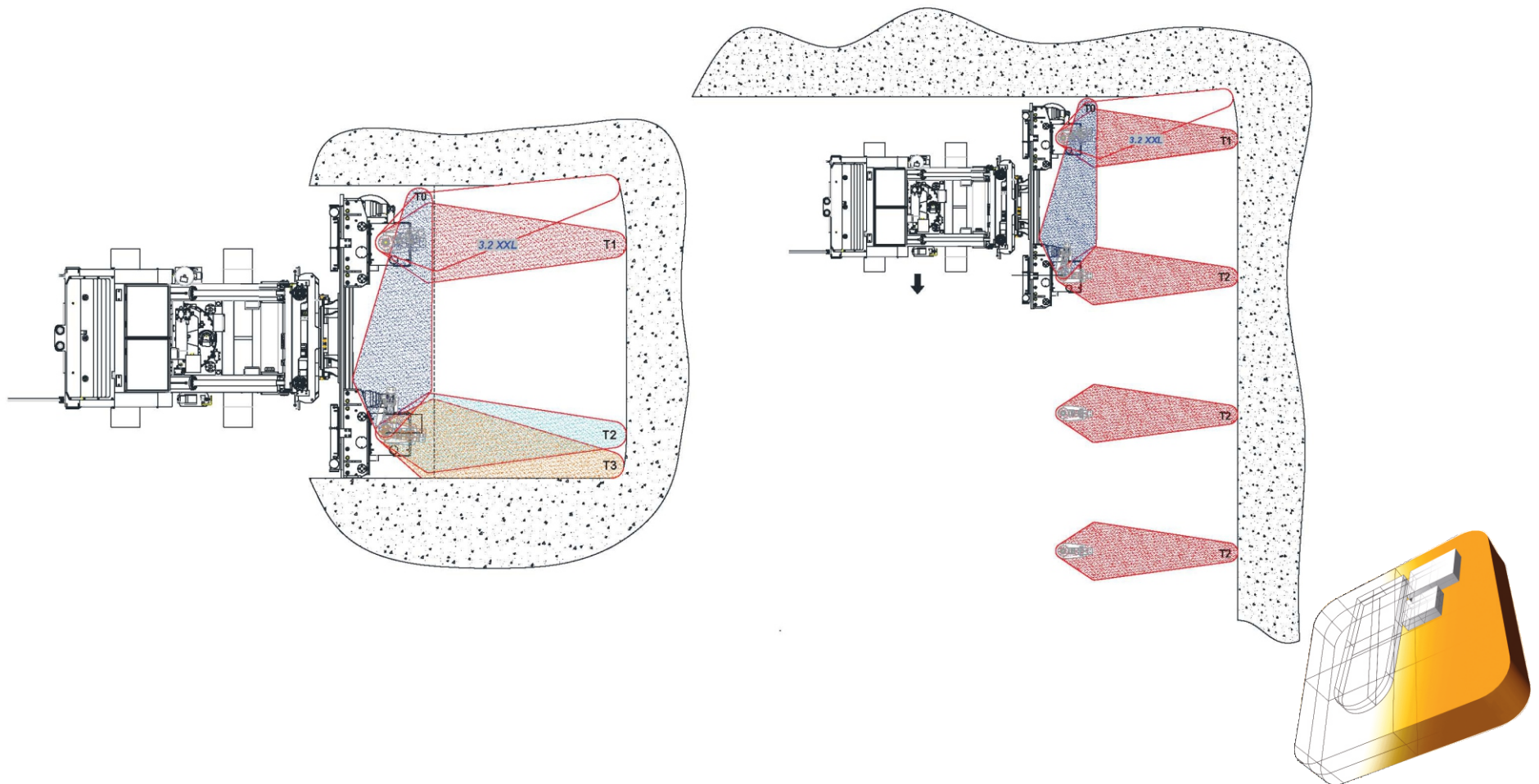


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# RIPOSIZIONAMENTI PER TAGLIO ORIZZONTALE

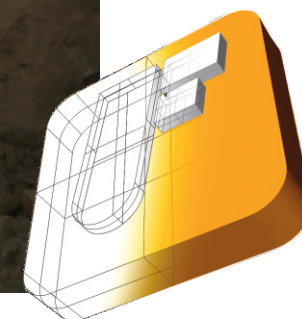
## RE-POSITIONING FOR HORIZONTAL CUT



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**F** *fantini*®

**GU 50-R-SC-T**

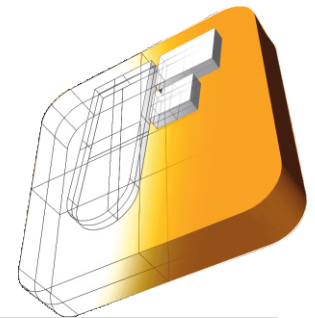


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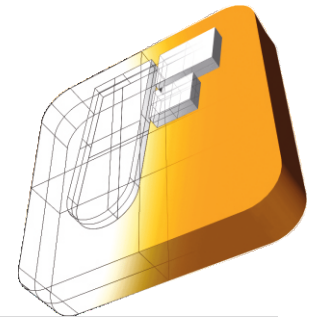
**APERTURA DI GALLERIE PER L'ESCAVAZIONE  
IN SOTTERRANEO**  
GALLERY OPENING FOR UNDERGROUND  
EXCAVATION



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**APERTURA DI GALLERIE PER  
L'ESCAVAZIONE IN SOTTERRANEO**  
GALLERY OPENINGS FOR UNDERGROND  
EXCAVATION

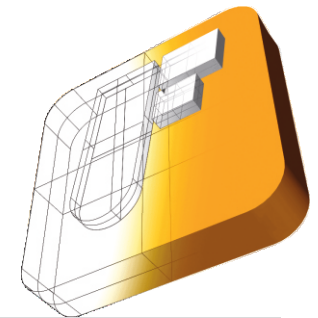


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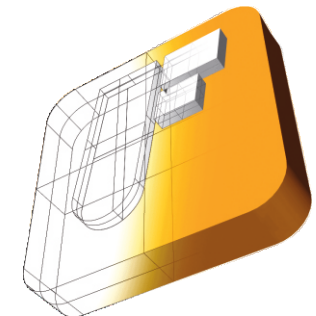
**DIMENSIONI RIDOTTE PER ACCEDERE A GALLERIE  
MOLTO STRETTE**  
NARROW SIZED MACHINE FOR LIMITED GALLERY  
DIMENSIONS



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**AVANZAMENTI IN GALLERIA**  
**GALLERY FORWARDING PROCESS**

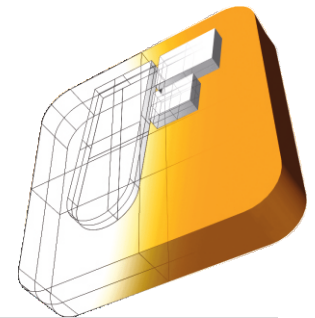


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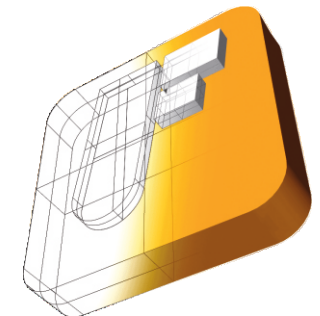
**TAGLI ORIZZONTALI INTERMEDI**  
**INTERMEDIATE HORIZONT CUTS**



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**TAGLI ORIZZONTALI AL TETTO**  
**HORIZONTAL CUTS AT ROOF LEVEL**

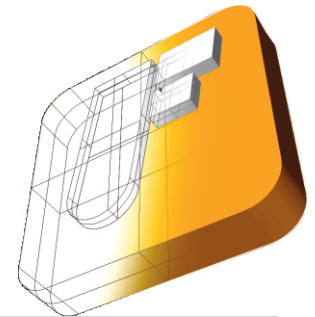


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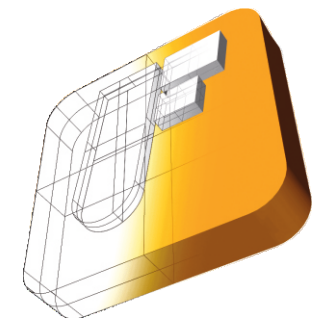
**RIPRESA DI VECCHI FRONTI ESTRATTIVI  
CUTTING PRE-EXISTING WALL EXCAVATIONS**



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**AMPLIAMENTO DI VECCHIE GALLERIE  
ENLARGING OLD GALLERIES**

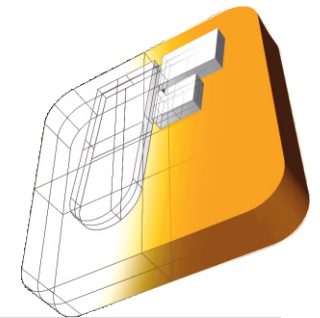


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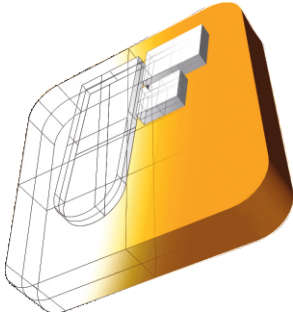
**TAGLI ORIZZONTALI CONTINUI**  
**COMPLANAR HORIZONTAL CUTS**



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**RIQUADRATURA DI BANCATE**  
**BENCH SQUARING**

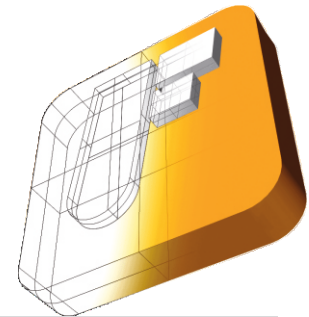


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**FARI ANTERIORI  
FRONT LIGHTS**



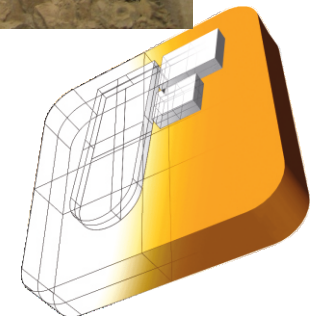
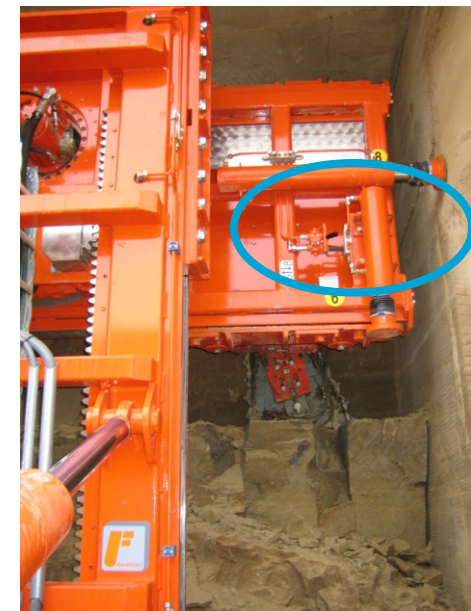
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**PUNTELLI IDRAULICI  
(AUTOSTABILIZZANTI)**

**HYDRAULIC JACKS (AUTO-STABILIZING)**



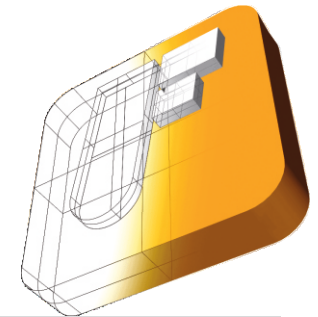
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**SPOSTAMENTO/LAVORO TRAMITE  
RADIOCOMANDO**

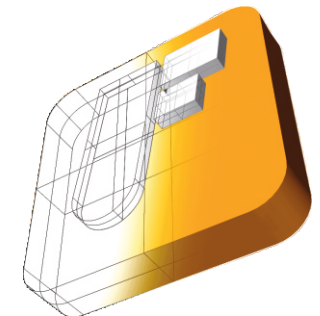
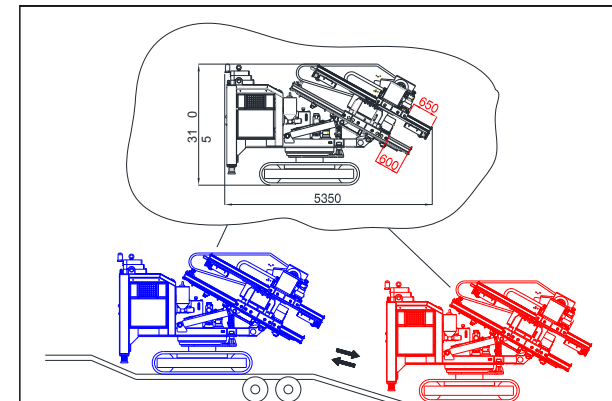
**MOVEMENT/WORK WITH RADIO  
REMOTE CONTROL**



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**CONFIGURAZIONE DI TRASPORTO COMPATTA**  
**COMPACT TRANSPORT CONFIGURATION**



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# DATI TECNICI TECHNICAL DATA

## DATI DI RIFERIMENTO

-Alimentazione elettrica .....	: 400 Volts 50 Hz trifase
-Potenza complessiva installata .....	: ≈ 56 KW
-Max assorbimento corrente .....	: 100 A
-Capacità serbatoio olio idraulico .....	: 300 litri
-Capacità serbatoio grasso .....	: 30 dm <sup>3</sup>
-Rotazione del braccio .....	: 360°
-Rotazione binario .....	: 270°
-Ribaltamento testa portabraccio <sup>1</sup> .....	: 90°
-Rotazione ralla cingoli .....	: 360°
-Orientamento puntone .....	: 30° ÷ 93°
-Corsa carrello porta-testa .....	: 2380 mm
-Corsa carrello verticale .....	: 2100 mm
-Corsa slitta portatesta .....	: 200 mm
-Profondità max taglio utile .....	: 1,8 m (tipo XXL)
-Larghezza taglio .....	: 38 mm
-Livello vibrazioni .....	: entro i limiti normativi previsti
-Livello rumore a regime <sup>2</sup> .....	: 85 dB(A) con rumore di fondo pari a 70 dB
-Massa complessiva macchina.....	: ≈ 17,500 Kg

<sup>1</sup> Opzionale

<sup>2</sup> Variabile in funzione delle caratteristiche del luogo di utilizzo della macchina

## REFERENCE DATA

-Electric supply .....	: 400 Volts 50 Hz trifase
-Total power installed .....	: ≈ 56 KW
-Max current absorbtion .....	: 100 A
-Hydraulic oil tank capacity .....	: 300 litri
-Grease tank capacity .....	: 30 dm <sup>3</sup>
-Arm rotation .....	: 360°
-Rail rotation .....	: 270°
-Arm head holder turn over .....	: 90°
-Tracks rotation .....	: 360°
-Strut orientation .....	: 30° ÷ 93°
-Head holder trolley run .....	: 2380 mm
-Vertical trolley run .....	: 2100 mm
-Head holder slide run .....	: 200 mm
-Max cutting depth .....	: 1,8 m (type XXL)
-Cutting width .....	: 38 mm
-Vibration level .....	: according to law
-Running noise level <sup>2</sup> .....	: 85 dB(A) with background noise 70 dB
-Total machine weight .....	: ≈ 17,500 Kg

<sup>1</sup> Optional

<sup>2</sup> Variable according to the environment

I dati sopra elencati si riferiscono alle caratteristiche tecniche della segatrice a catena mod. GU 50-R-SC-T

The data above are referred to chain saw machine mod. GU 50-R-SC-T

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# DATI TECNICI TECHNICAL DATA

## APPLICAZIONI E LIMITAZIONI

- Destinazione d'uso ..... : Taglio di tutti i tipi di pietra (escluso il granito)
- Ambiente di utilizzo ..... : Cave in sotterraneo (gallerie)
- Temperatura di stoccaggio ..... :  $\geq -25^{\circ}\text{C}$
- Temperatura ambientale di funzionamento. :  $\geq -10^{\circ}\text{C}$
- Temperatura olio idraulico ..... :  $-20^{\circ}\text{C} \div +70^{\circ}\text{C}$
- Max pendenza superabile ..... : 25%

## PRESTAZIONI

- Velocità rotazione catena ..... :  $0 \div 1,7\text{ m/sec}$  (regolabile)
- Velocità di taglio ..... :  $0 \div 20\text{ cm/min}$  (a seconda della velocità)
- Velocità spostamento su cingoli ..... : max 1 Km/h

## DIMENSIONI GALLERIA

- Altezza ..... :  $\approx 3700 \div 4200\text{ mm}$
- Larghezza minima ..... :  $\approx 6500\text{ mm}$

I dati sopra elencati si riferiscono alle caratteristiche tecniche della segatrice a catena mod. GU 50-R-SC-T  
The data above are referred to chain saw machine mod. GU 50-R-SC-T

## APPLICATIONS AND LIMITS

- Use ..... : Cutting of all types of stone (except granite)
- Environment of use ..... : Underground quarry (galleries)
- Stock keeping temperature ..... :  $\geq -25^{\circ}\text{C}$
- Environment temperature operation conditions :  $\geq -10^{\circ}\text{C}$
- Hydraulic oil temperature ..... :  $-20^{\circ}\text{C} \div +70^{\circ}\text{C}$
- Max slope gradient ..... : 25%

## PERFORMANCES

- Chain rotation speed ..... :  $0 \div 1,7\text{ m/sec}$  (adjustable)
- Cutting speed ..... :  $0 \div 20\text{ cm/min}$  (according to speed)
- Tracks moving speed ..... : max 1 Km/h

## GALLERY DIMENSION

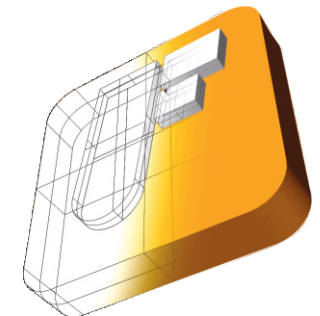
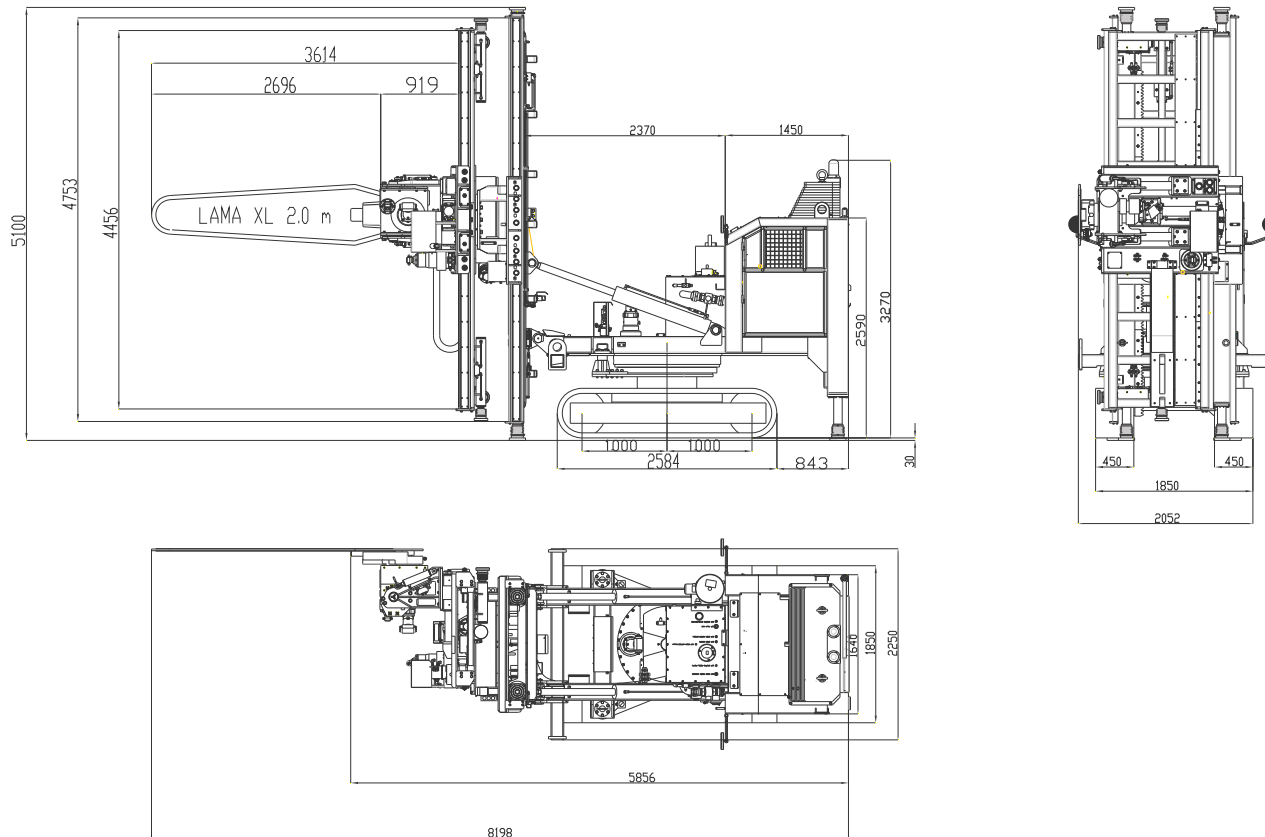
- Height ..... :  $\approx 3700 \div 4200\text{ mm}$
- Minimum width ..... :  $\approx 6500\text{ mm}$

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# DIMENSIONI DI INGOMBRO PER TAGLIO VERTICALE<sup>(\*)</sup>

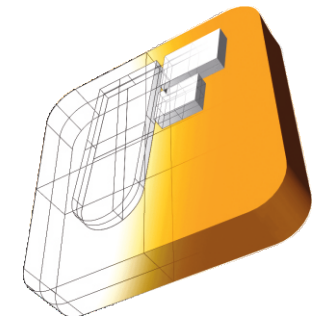
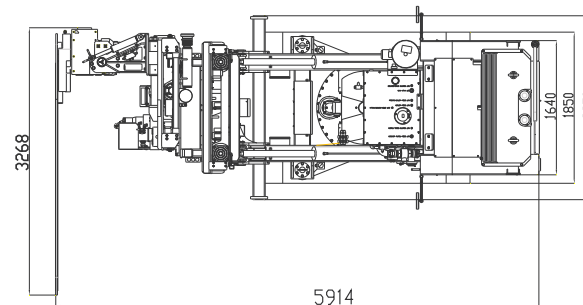
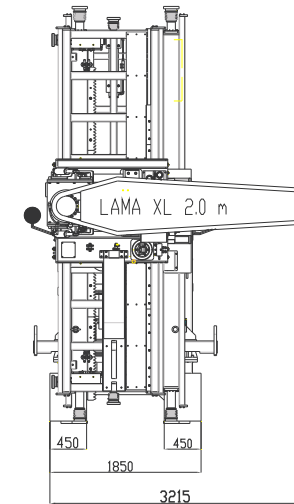
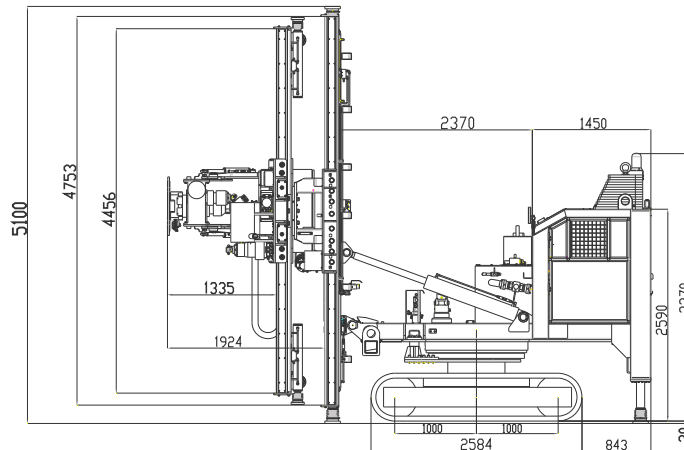
## MACHINE ENCUBRANCE FOR VERTICAL CUT<sup>(\*)</sup>



<sup>(\*)</sup> La macchina può essere dimensionata in base alle esigenze del cliente  
<sup>(\*)</sup> He machine can be dimensioned according to the client's need

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# DIMENSIONI DI INGOMBRO PER TAGLIO ORIZZONTALE (\*) MACHINE ENCUBRANCE FOT HORIZONTAL CUT (\*)



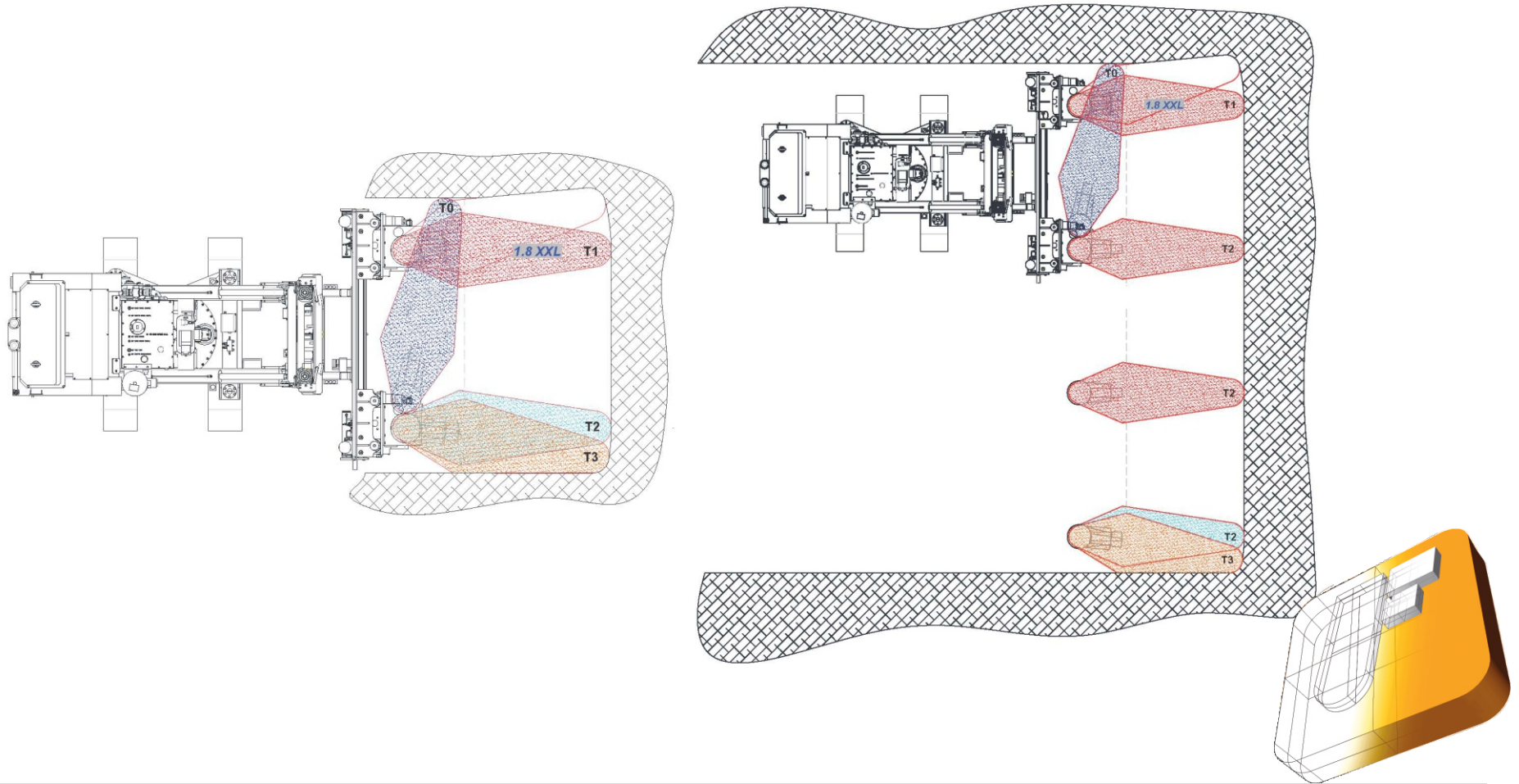
(\*) La macchina può essere dimensionata in base alle esigenze del cliente  
(\*) He machine can be dimensioned according to the client's need

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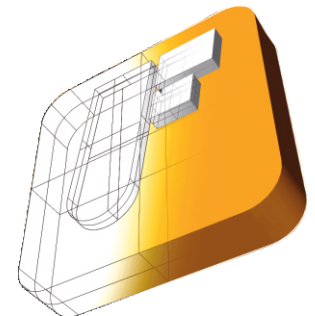
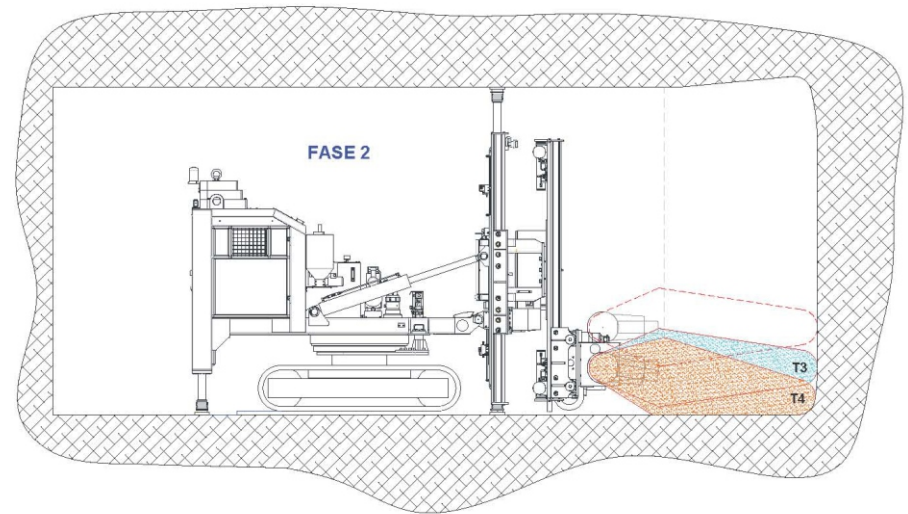
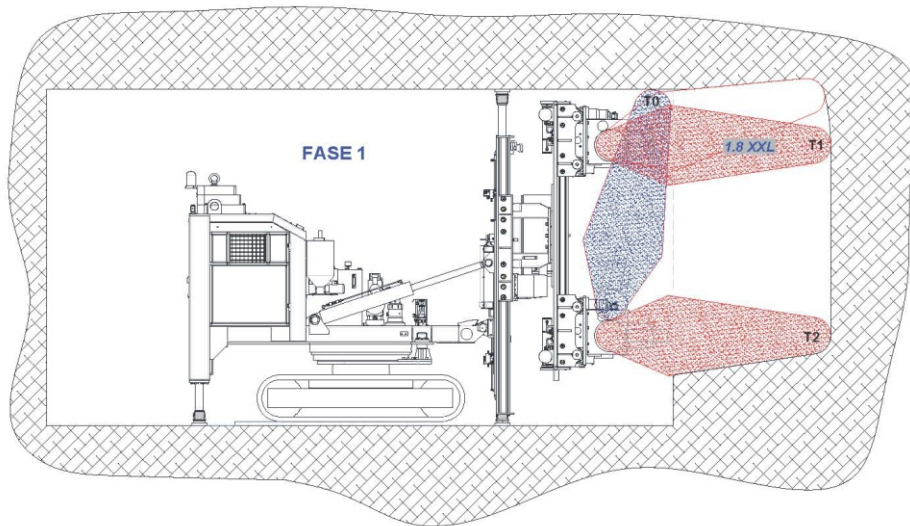
# RIPOSIZIONAMENTI PER TAGLIO ORIZZONTALE

## RE-POSITIONING FOR HORIZONTAL CUT



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# FASE TAGLIO VERTICALE VERTICAL CUT PHASES

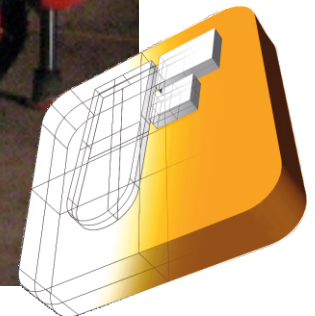


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 ***fantini***<sup>®</sup>

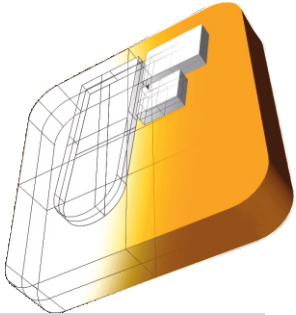
**GU 50-SC**



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**TAGLI ORIZZONTALI  
HORIZONTAL CUTS**

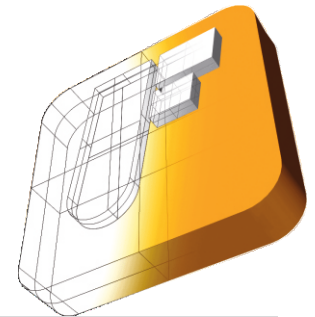


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**ESECUZIONE DI TAGLI PERPENDICOLARI TRA LORO  
PERPENDICULAR CUTS**

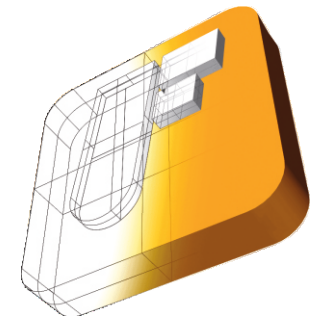


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**INGOMBRO MACCHINE RIDOTTO PER  
PERMETTERE LAVORI IN AMBIENTI  
RISTRETTI**

**COMPACT SIZES MACHINES TO  
WORK IN NARROW ENVIROMENTS**

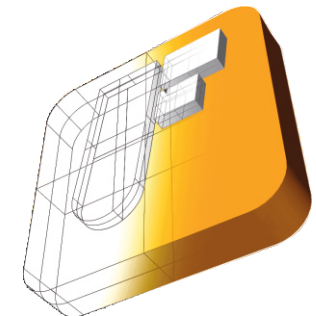


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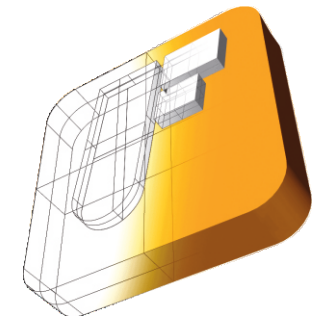
**MACCHINA RADIOCOMANDATA**  
**RADIO REMOTE CONTROL**



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**FUNZIONAMENTO ANALOGO ALLE  
ALTRE SEGATRICI DELLA SERIE GU**  
SIMILAR WORKING OPERATIONS  
AS THE OTHER GU MACHINES



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# DATI TECNICI TECHNICAL DATA

## DATI DI RIFERIMENTO

-Alimentazione elettrica .....	: 400 Volts 50 Hz trifase
-Potenza complessiva installata .....	: ≈ 46 KW
-Max assorbimento corrente .....	: 86 A
-Capacità serbatoio olio idraulico .....	: 300 litri
-Capacità serbatoio grasso .....	: 30 dn³
-Rotazione del braccio .....	: 360°
-Rotazione binario .....	: 270°
-Ribaltamento testa (opzionale) .....	: 90°
-Orientamento puntone .....	: 50°±93°
-Corsa carrello porta-testa .....	: ≈1700 mm
-Corsa carrello verticale .....	: ≈1350 mm
-Corsa slitta portatesta .....	: ≈280 mm
-Profondità max taglio utile .....	: 1,8 m (tipo XXL)
-Larghezza taglio .....	: 38 mm
-Livello vibrazioni .....	: entro i limiti normativi previsti
-Livello rumore a regime <sup>1</sup> .....	: 85 dB(A) con rumore di fondo pari a 70 dB
-Massa complessiva macchina .....	: 12000 Kg

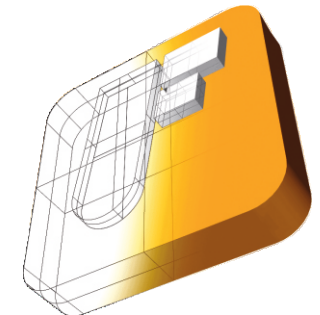
<sup>2</sup>Variable in funzione delle caratteristiche del luogo di utilizzo della macchina

## REFERENCE DATA

-Electric supply .....	: 400 Volts 50 Hz trifase
-Total power installed .....	: ≈ 46 KW
-Max current absorbtion .....	: 100 A
-Hydraulic oil tank capacity .....	: 300 litri
-Grease tank capacity .....	: 30 dn³
-Arm rotation .....	: 360°
-Rail rotation .....	: 270°
-Arm head holder turn over .....	: 90°
-Tracks rotation .....	: 50°±93°
-Strut orientation .....	: ≈1700 mm
-Head holder trolley run .....	: ≈1350 mm
-Vertical trolley run .....	: 280 mm
-Head holder slide run .....	: 1,8 m (..... XXL)
-Max cutting depth .....	: 38 mm
-Cutting width .....	: according to law
-Vibration level .....	: 85 dB(A) with background noise 70 dB
-Running noise level.....	: ≈ 12000 Kg

<sup>2</sup>Variable according to the environment

I dati sopra elencati si riferiscono alle caratteristiche tecniche della segatrice a catena mod. GU 50-SC  
The data above are referred to chain saw machine mod. GU 50-SC



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# DATI TECNICI TECHNICAL DATA

## APPLICAZIONI E LIMITAZIONI

- Destinazione d'uso ..... : Taglio di tutti i tipi di pietra (escluso il granito)
- Ambiente di utilizzo ..... : Cave in sotterraneo (gallerie)
- Temperatura di stoccaggio ..... :  $\geq -25^{\circ}\text{C}$
- Temperatura ambientale di funzionamento ..... :  $\geq -10^{\circ}\text{C}$
- Temperatura olio idraulico ..... :  $-20^{\circ}\text{C} \div +50^{\circ}\text{C}$
- Max pendenza superabile ..... : 25%

## PRESTAZIONI

- Velocità rotazione catena ..... :  $0 \div 1,1\text{ m/sec}$  (regolabile)
- Velocità di taglio ..... :  $0 \div 30\text{ cm/min}$  (a seconda della velocità)
- Velocità spostamento su cingoli ..... : max 1 Km/h

## DIMENSIONI GALLERIA

- Altezza ..... :  $\approx 3000 \div 3400\text{ mm}$
- Larghezza minima ..... :  $\approx 5500\text{ mm}$

## APPLICATIONS AND LIMITS

- Use ..... : Cutting of all types of stone (except granite)
- Environment of use ..... : Underground quarry (galleries)
- Stock keeping temperature ..... :  $\geq -25^{\circ}\text{C}$
- Environment temperature operation conditions ..... :  $\geq -10^{\circ}\text{C}$
- Hydraulic oil temperature ..... :  $-20^{\circ}\text{C} \div +70^{\circ}\text{C}$
- Max slope gradient ..... : 25%

## PERFORMANCES

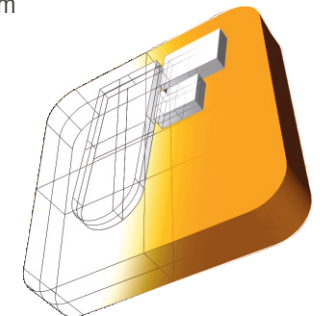
- Chain rotation speed ..... :  $0 \div 1,7\text{ m/sec}$  (adjustable)
- Cutting speed ..... :  $0 \div 20\text{ cm/min}$  (according to speed)
- Tracks moving speed ..... : max 1 Km/h

## GALLERY DIMENSION

- Height ..... :  $\approx 3000 \div 3400\text{ mm}$
- Minimum width ..... :  $\approx 5500\text{ mm}$

I dati sopra elencati si riferiscono alle caratteristiche tecniche della segatrice a catena mod. GU 50-SC  
The data above are referred to chain saw machine mod. GU 50-SC

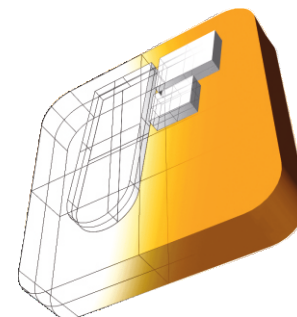
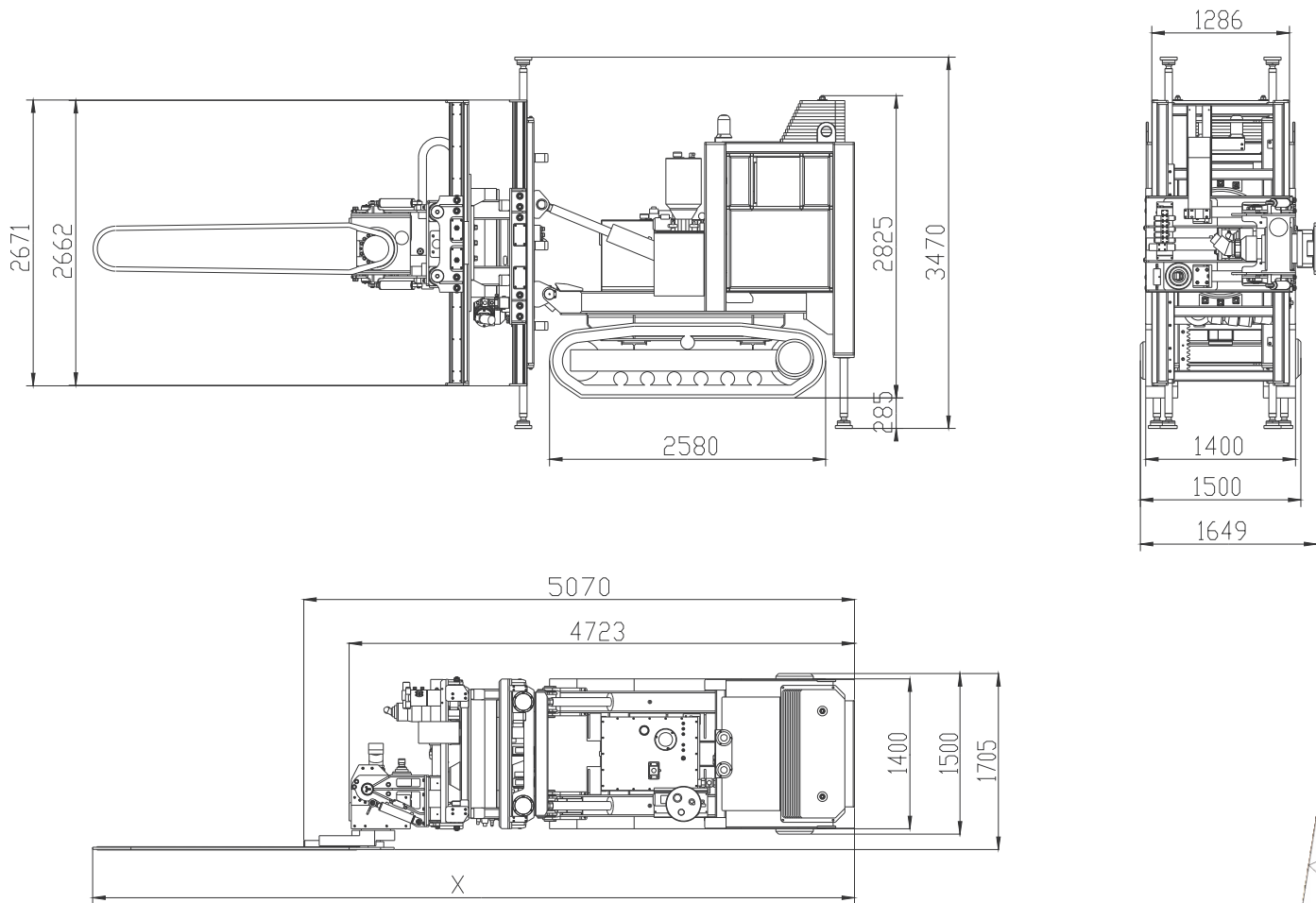
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# DIMENSIONI DI INGOMBRO PER TAGLIO POSTERIORE <sup>(\*)</sup>

## MACHINE ENCUBRANCE FOR BACK CUT <sup>(\*)</sup>



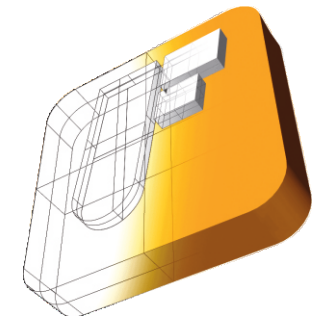
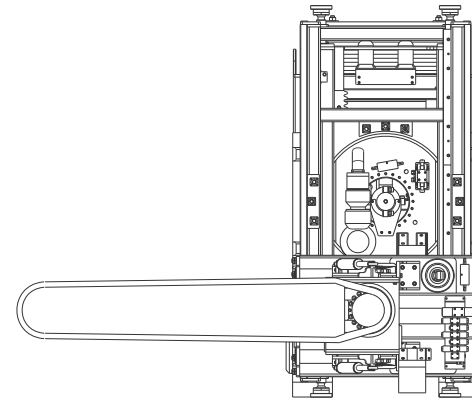
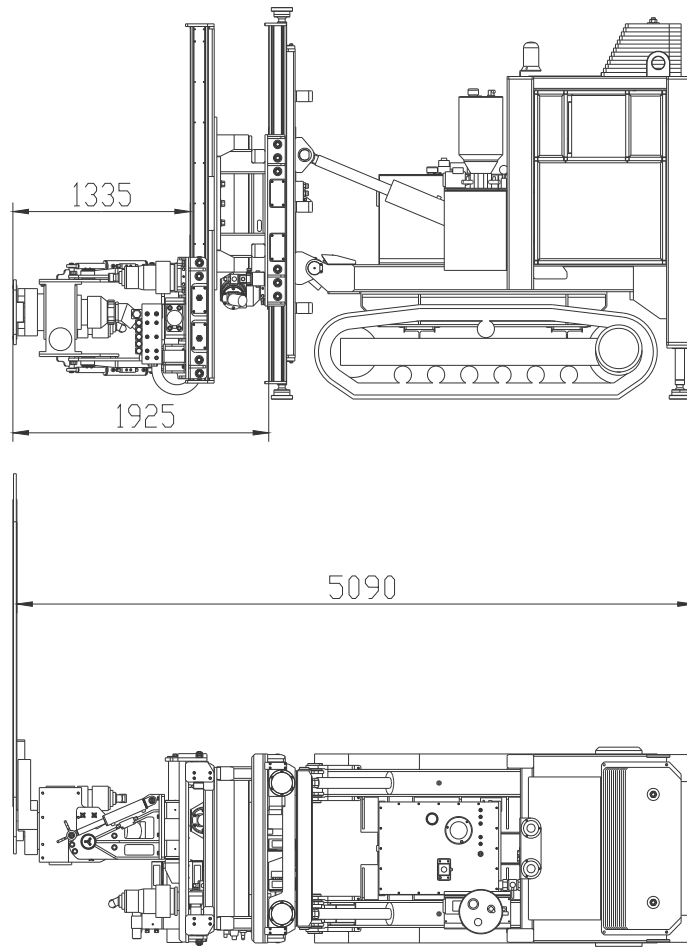
<sup>(\*)</sup> La macchina può essere dimensionata in base alle esigenze del cliente

<sup>(\*)</sup> He machine can be dimensioned according to the client's need

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## DIMENSIONI DI INGOMBRO PER TAGLIO POSTERIORE <sup>(\*)</sup>

## MACHINE ENCUBRANCE FOR BACK CUT <sup>(\*)</sup>

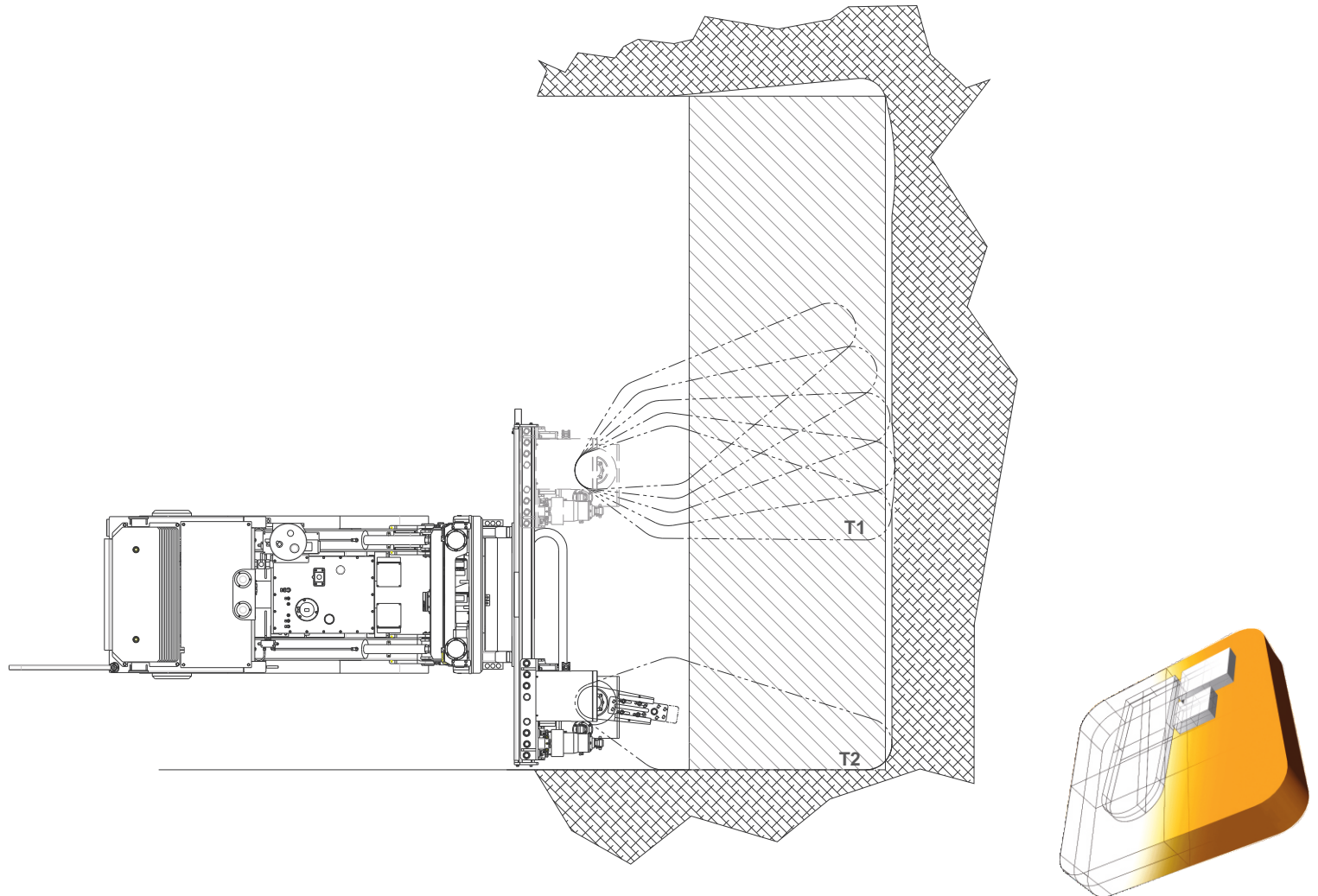


<sup>(\*)</sup> La macchina può essere dimensionata in base alle esigenze del cliente  
<sup>(\*)</sup> He machine can be dimensioned according to the client's need

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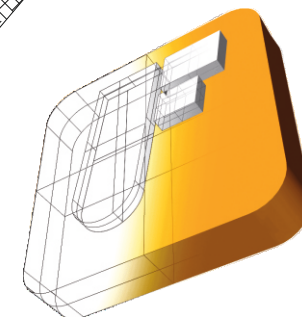
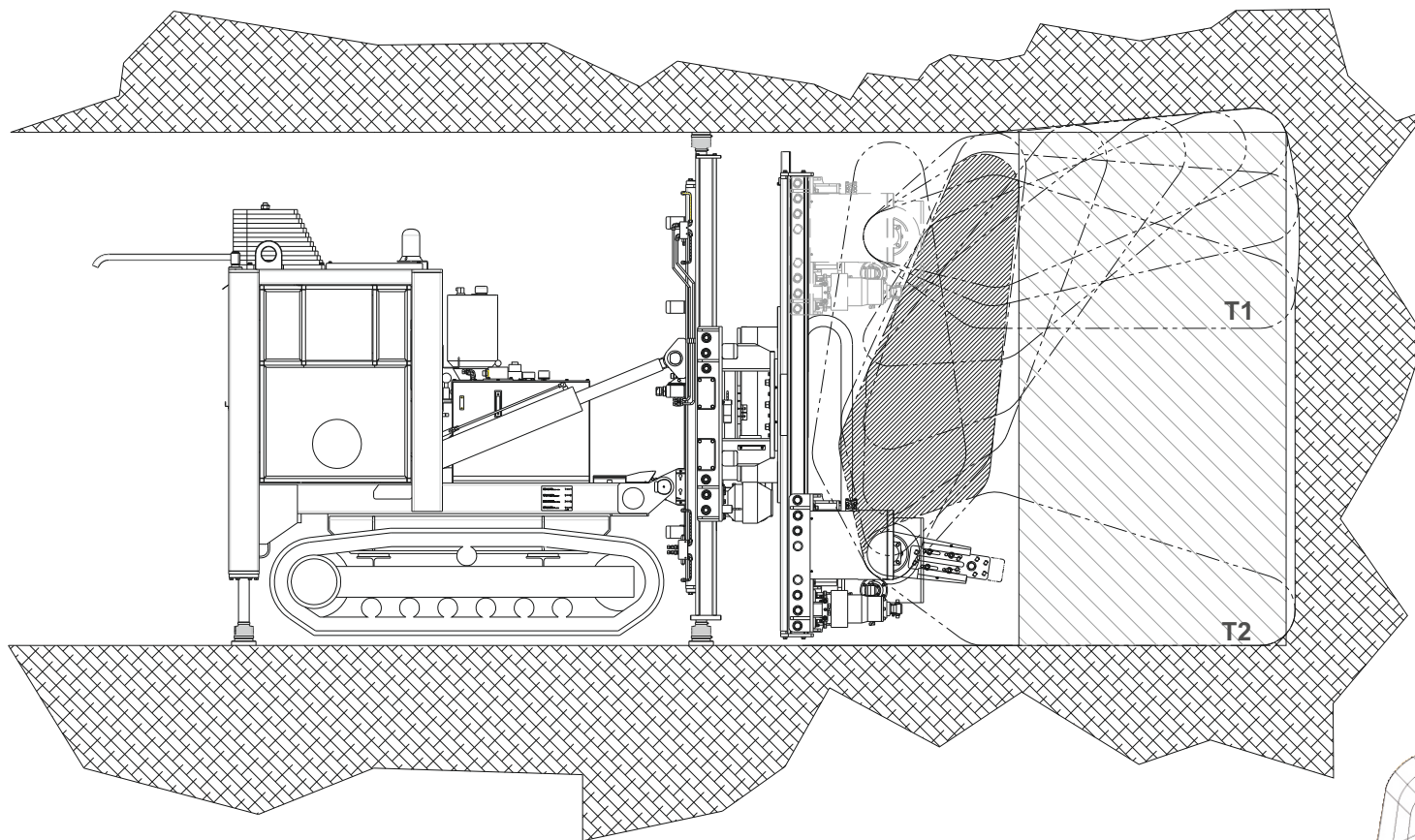


# RIPOSIZIONAMENTI PER TAGLIO ORIZZONTALE RE-POSITIONING FOR HORIZONTAL CUT



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# FASI TAGLIO VERTICALE VERTICAL CUT PHASES



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