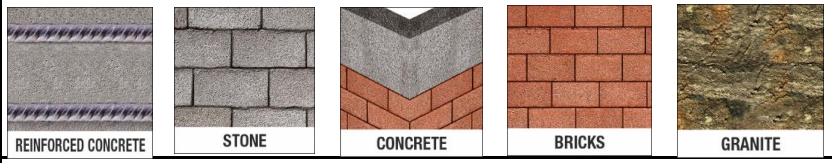
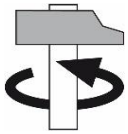
TECHNICAL SPECIFICATIONS
CONSTRUCTION TOOLS

FAMILY CLASSIFICATION	05590
DESCRIPTION	"TIGER 2.0" SDS PLUS DRILL BIT FOR ROTARY HAMMERS < 5 KG, DOUBLE MILLED SPIRAL FLUTE - 4 CUTTING EDGES AND SELF-CENTERING POINT
PRODUCT IMAGE	
KIND OF STEEL	Cr40 - EN 10083-2
STEEL COMPOSITION %	C 0,38-0,45 - Si ≤ 0,40 - Mn 0,60-0,90 - P ≤ 0.035 - S ≤ 0,035 - Cr ≤ 0,90-1,10 Ni ≤ 0,30 - Mo ≤ 0,10 -Cu ≤ 0,030 C=Carbon - Si=Silicon - Mn=Manganese - P=Phosphorus - S=Sulfur - Cr=Chrome - Mo=Molybdenum Ni=Nickel - Cu=Copper - Tin=Titanium - Al=Aluminum
HARD METAL OF THE TIPS	YG8 - K30 cemented carbide
CARBIDE TIPS COMPOSITION %	WC 92% - Co 8% WC=Tungsten carbide Co= Cobalt DENSITY = 14,70 (g/cm³) HRA=88,5 2300 N/mm²
HARDENING TEMP.	1120°
SPECIFICITY OF THE MONOBLOCK CARBIDE TIP GEOMETRY ON THE HEAD OF THE DRILL BIT	**MONOBLOCK CARBIDE TIP with 4 CUTTING EDGES** • Concentric holes for better fixing of the anchors • High speed, great power and precision. Chiseling effect thanks to the large head. • The one-piece tip is inserted and welded in such a way as to withstand high temperatures during drilling. • 4x90°Geometry - the cutting edges of the tip are drawn at the same height to create more cutting strength and precision. • The self-centering design of the central guide of the tip keeps the drill bit straight when drilling even against the steel bars.  
ADVANTAGES OF THE MONOBLOCK TIP AND THE DOUBLE HELIX FLUTE BODY	• The combination of the head with 4 sturdy 90° shoulders and the body with reinforced core and double spiral flute guarantees: • to cross any bar without crashing • reduced vibration during the use - perfect alignment • very fast removal of dust and debris. 
Shank HARDNESS	44 - 46 HRC
DIN - ISO	8039 - 5468
EXECUTION	Double spiral flute for a rapid evacuation of the debris
KIND OF SHANK	SDS-PLUS ≃ Ø 10 mm  
MANUFACTURING PROCESS	hot-milled body, fully ground, with deep helicoidal flute. The hard metal tips have self-centering geometry for resisting to hard percussion as deeply anchored to the body and welded at high temperature.
SHARPENING	a 4 cutting edges with a sturdy self-centering guide tip

ECEF TECHNICAL SPECIFICATIONS

CONSTRUCTION TOOLS

FAMILY CLASSIFICATION	05590
SURFACE TREATMENT	Natural steel - milled - smooth - New sanblasted anticorrosion finishing, it It provides greater resistance to torsion and a longer tool life
USE BY ROTATION AND PERCUSSION	REINFORCED CONCRETE - HARD STONES AND ROCKS - CONCRETE - SOLID AND HOLLOW BRICKS - GRANITE  
REFERENCE POWER TOOL	Power drilling machines with SDS+ connection with percussion function enabled, high speed and good pressure. Rotary hammers below 5 KG 
PACKAGE	PLASTIC HANGER with PERSONALIZED LABEL 5,00 - 32,00 mm = 1 pc.

DRILLING MANUAL

REINFORCED CONCRETE	CONCRETE	GRANITE	ROCKS STONES	SOLID BRICKS	CELLULAR CONCRETE (light concrete)	BREEZE BLOCKS hollow concr.	HOLLOWS BRICKS

CAPTION

- OPTIMAL PERFORMANCE
- VERY GOOD PERFORMANCE
- POSSIBLE DRILLING

The Prüfgemeinschaft or PGM is an independent body which certifies the hammer drills with SDS Plus and SDS-Max shank since 1978.
It checks the standards and controls products and policies of quality monitoring made by quality monitoring of the producers. Drill bits must meet the requirements of a rigorous specification with the purpose of allow safe anchoring.
These checks are also carried out on the diameter, on the centering of the carbide tip, on the straightness of the drill bits. All the certificed hammerdrill bits have the PGM logo marked on the shank with the manufacturer number.

PERSONAL SECURITY WARNINGS

Always use safety glasses

In case of loud noise wear ear protection

Always wear protective gloves

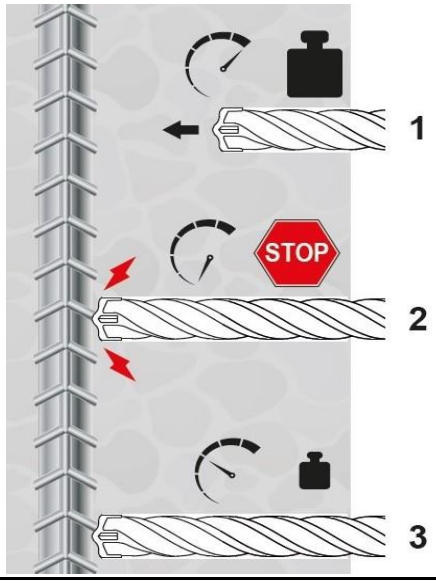
Always wear the protection mask

TECHNICAL SPECIFICATIONS

CONSTRUCTION TOOLS

FAMILY CLASSIFICATION	05590

INSTRUCTIONS FOR THE DRILLING OF THE REBARS

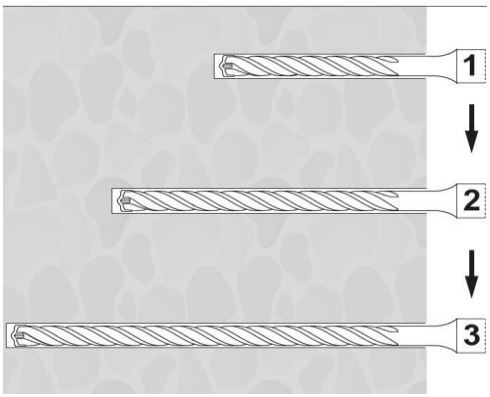


Start the drilling of the concrete with high speed using percussion and constant pressure

stop the drilling when you touch the reinforcement bar to avoid breaking of the carbide tip

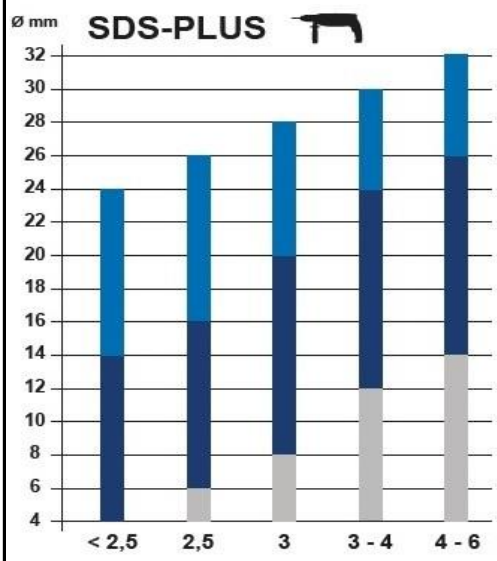
begin to drill again without percussion, light pressure and using a reduced speed up to the complete drilling of the bar

INSTRUCTIONS FOR DEEP HOLE DRILLING



It is recommended to start to drill with a drill bit of a predermined diameter, but with an inferior length. Continue to drill the hole using a longer length drill bit with the same diameter. Finish the hole with the longest drill bit.

RECOMMENDATIONS FOR THE USE OF HAMMER DRILLS



Optimum operational scope

Possibie operational scope

Operation with risks of premature wear and / or breakages

Modern rotary hammers have a great impact force; therefore it is important to use the right machine for each tool.

In the same way, difficult work situatons such as drilling hard stones or reinforced concrete require specific use of drill bits and machines

The diagram beside suggests the use of the machines according to their weight, to the diameter of the drill bits and to the depth of the holes