






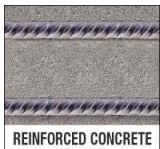

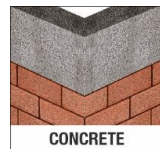



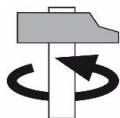


FAMILY CLASSIFICATION	06510
DESCRIPTION	"TIGER 4.0" SDS-MAX HAMMER DRILL BITS WITH 4 CUTTING EDGES: • ONE PIECE MONOBLOCK CARBIDE TIP WITH SELF-CENTERING POINT • 3 PIECES CARBIDE TIPS WITH SELF CENTERING POINT Ø 30-52 mm
PRODUCT IMAGE	
KIND OF STEEL	Cr40 - EN 10083-2
STEEL COMPOSITION %	C 0,38-0,45 - 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 <small>C=Carbon - Si=Silicon - Mn=Manganese - P=Phosphorus - S=Sulfur - Cr=Chrome - Mo=Molybdenum Ni=Nickel - Cu=Copper - Tin=Titanium - Al=Aluminum</small>
HARD METAL OF THE TIPS	YG8 - K30 cemented carbide
CARBIDE TIPS COMPOSITION %	WC 92% - Co 8% <small>WC=Tungsten carbide Co=Cobalt</small> DENSITY = 14,70 (g/cm ³) HRA=88,5 2300 N/mm ²
HARDENING TEMP.	1120°
SPECIFICITY OF THE MONOBLOCK CARBIDE TIP GEOMETRY ON THE HEAD OF THE DRILL BIT	MONOBLOCK CARBIDE TIP with 4 CUTTING EDGES up to Ø 28mm • The sturdy monoblock carbide tip pierces the reinforced concrete with constant strength and precision. • 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.  
SPECIFICITY OF THE CARBIDE TIPS WITH 4 CUTTING EGES	3 STURDY TIPS with 4 CUTTING EDGES from Ø 30mm to Ø 52mm • Radial-shaped edges for protection against reinforcements, they avoid blockages and increase the life of the tip. • 4x90° Geometry - the cutting edges of the tip are drawn at the same height to create more cutting strength and precision. 
ADVANTAGES OF 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	42- 44 HRC
DIN - ISO	8039 - 5468
EXECUTION	Flexible body with double spiral flute for rapid evacuation of debris
KIND OF SHANK	SDS-max ≈ Ø 18 mm  

ECEF TECHNICAL SPECIFICATIONS

CONSTRUCTION TOOLS

FAMILY CLASSIFICATION	06510
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	4 cutting edges with a sturdy central self-centering guide tip
SURFACE TREATMENT	Natural steel - milled - smooth - New sandblasted anticorrosion finish. It provides greater resistance to torsion and a longer tool life
USE BY ROTATION AND PERCUSSION	REINFORCED CONCRETE - HARD STONES AND ROCKS - CONCRETE - SOLID BRICKS - GRANITE     
REFERENCE POWER TOOL	SDS-max hammer drilling machines above than 5 KG  
PACKAGE	PLASTIC HANGER with PERSONALIZED LABEL 12,00 - 52,00 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 certified 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



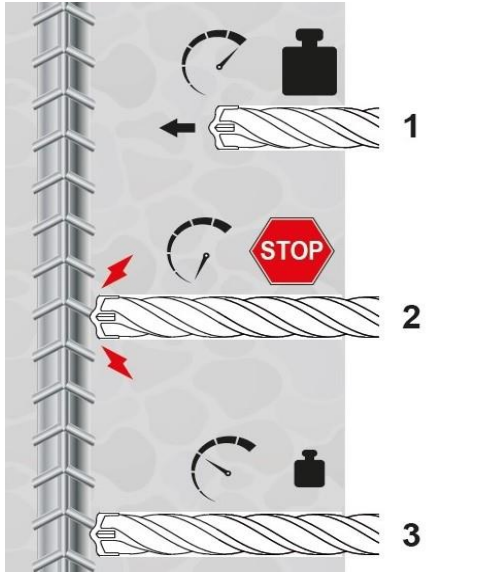
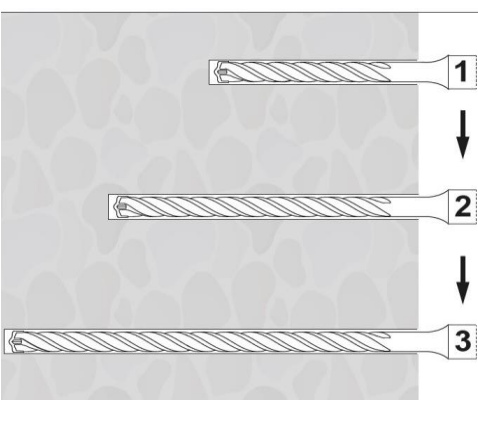
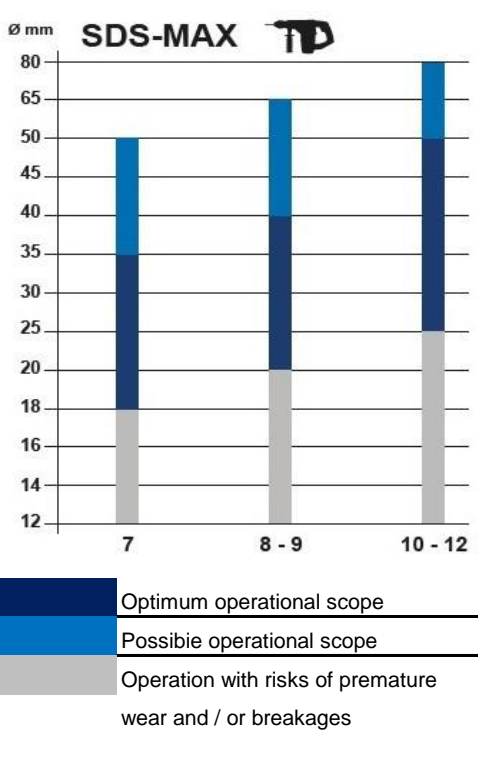
Always wear protective gloves



Always wear the protection mask

ECEF TECHNICAL SPECIFICATIONS

CONSTRUCTION TOOLS

FAMILY CLASSIFICATION	05600
INSTRUCTIONS FOR THE DRILLING OF THE REBARS	 <p>1 Start the drilling of the concrete with high speed using percussion and constant pressure</p> <p>2 stop the drilling when you touch the reinforcement bar to avoid breaking of the carbide tip</p> <p>3 begin to drill again without percussion, light pressure and using a reduced speed up to the complete drilling of the bar</p>
INSTRUCTIONS FOR DEEP HOLE DRILLING	 <p>1 It is recommended to start to drill with a drill bit of a predetermined diameter, but with an inferior length.</p> <p>2 Continue to drill the hole using a longer length drill bit with the same diameter.</p> <p>3 Finish the hole with the longest drill bit.</p>
RECOMMENDATIONS FOR THE USE OF HAMMER DRILLS	 <p>Modern heavy SDS-max hammer drills have a great impact force; therefore it is important to use the right machine for each tool.</p> <p>Also the difficult work situation such as the drilling on reinforced concrete requires specific handling of tools and machines.</p> <p>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</p>