



**BUILT TO CUT
BORN TO LEAD**

CARBIFORCE

AFFORDABLE TOOLING

ONE STOP SOLUTION FOR UNDER O



INNOVATION & EXCELLENCE

THE ROOF



CARBIFORCE

AFFORDABLE TOOLING

Carbiforce is committed to delivering world-class cutting tools at affordable prices for a wide range of applications. We provide comprehensive solutions — from cutting tools to coolant management & stock handling — making us the trusted partner for industries seeking efficient & cost-effective results.

Our mission is to deliver complete, end-to-end cutting tool solutions that empower industries with precision, reliability, and unmatched quality.



INDUSTRIES WE SERVE



Oil & Gas



Petrol Chemical



Wind Turbine



Thermal Power



Automobile



Aviation



Pharmaceutical



Construction



Research
& Development



Heavy
Engineering

WE'VE GOT SOLUTIONS FOR ALL

P

STEEL

M

STAINLESS
STEEL

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CAST
IRON

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NON
FERROUS

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SUPER
ALLOYS

H

HARDENED
STEEL

TURNING SERIES

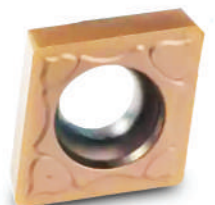
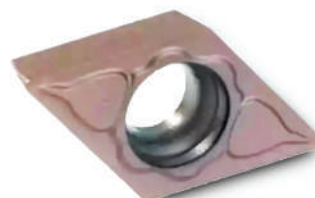
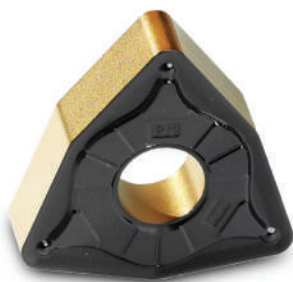


INSERTS RANGE

SS GRADE



STEEL GRADE



BORING BAR

Technical Highlights

- Designed for stable internal turning upto $3 \times D$ depth with minimal vibration.
- Precision-ground pocket maintains repeatability within ± 0.01 mm.
- Available in steel and carbide shank options with through-coolant design



TOOL HOLDERS



Technical Highlights

- Rigid alloy-steel body (≥ 45 HRC) ensures consistent insert seating accuracy.
- Compatible with negative rake angle inserts for all turning setups.
- Internal coolant channels improve chip evacuation and tool life.



MICRO/CARBIDE BORING BAR

Technical Highlights

- Solid micro-grain carbide construction ensures ± 0.005 mm bore accuracy.
- Ideal for micro bores $\varnothing 1.5$ –6 mm and precision finishing.
- Delivers stable performance at spindle speeds up to 12,000 rpm



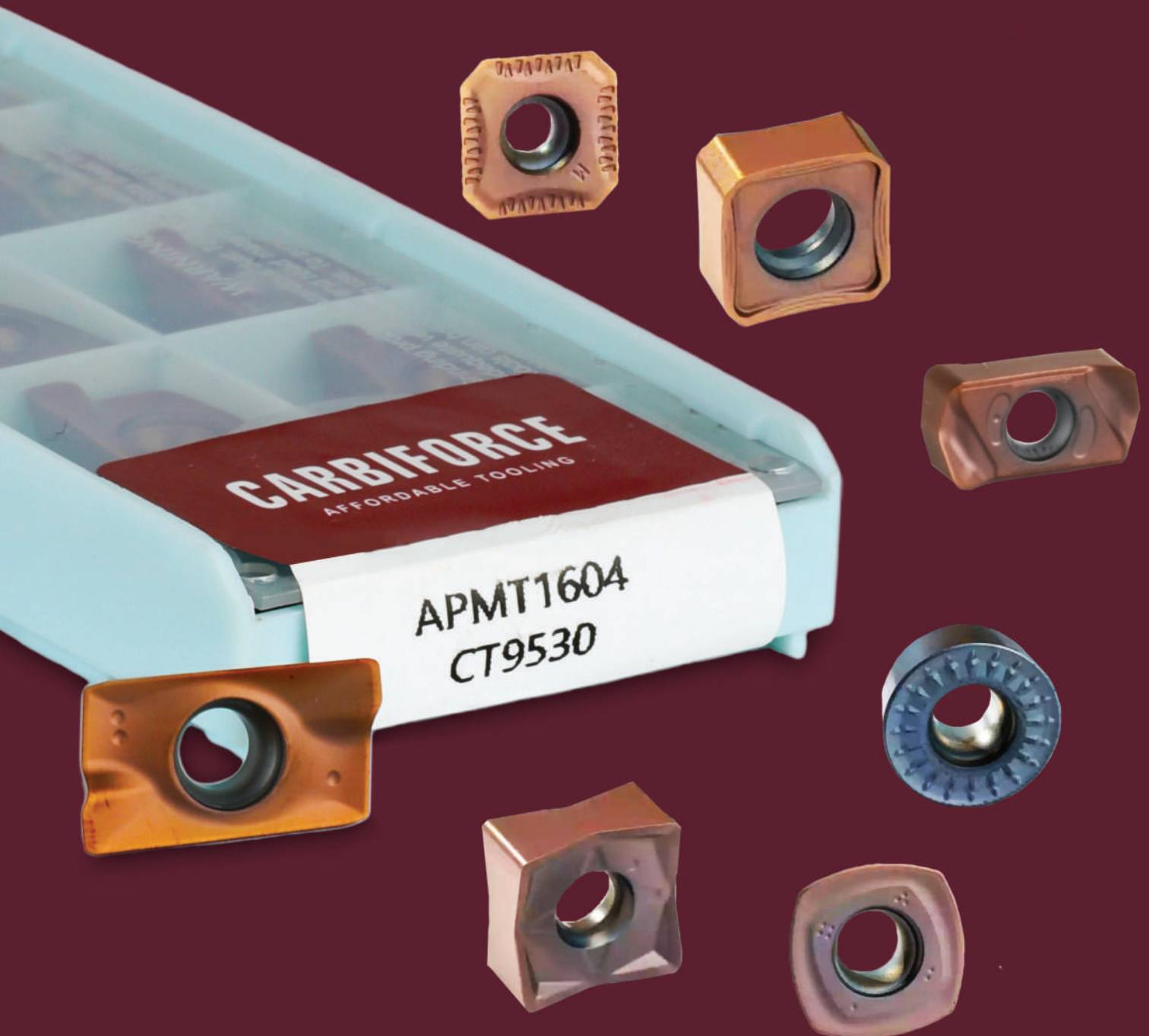
MILLING SERIES



MILLING INSERTS

Technical Highlights

- Feeds 0.10–0.50 mm/tooth with controlled vibration stability.
- Coating withstands 1050°C via CT-PVD multilayer stack.
- Performs across P/M/K upto 55HRC with uniform wear



THE PREMIUM CT600 ENDMILL

Technical Highlights

- 4-flute, 45° helix geometry for superior chip removal & contour accuracy.
- Coating: TiAlN / AlTiN, hardness up to 60–62 HRC for dry or wet cutting.
- Available in flat & ball nose for high-speed milling 200–350 m/min



INDEXABLE MILLING CUTTERS



Technical Highlights

- Balanced cutter bodies ($\leq G2.5$ @ 20,000 rpm) reduce vibration and noise.
- Multi-insert pockets support 0.10–0.30 mm/tooth feed at 5 mm DOC.
- Suitable for face, shoulder, and high-feed milling applications



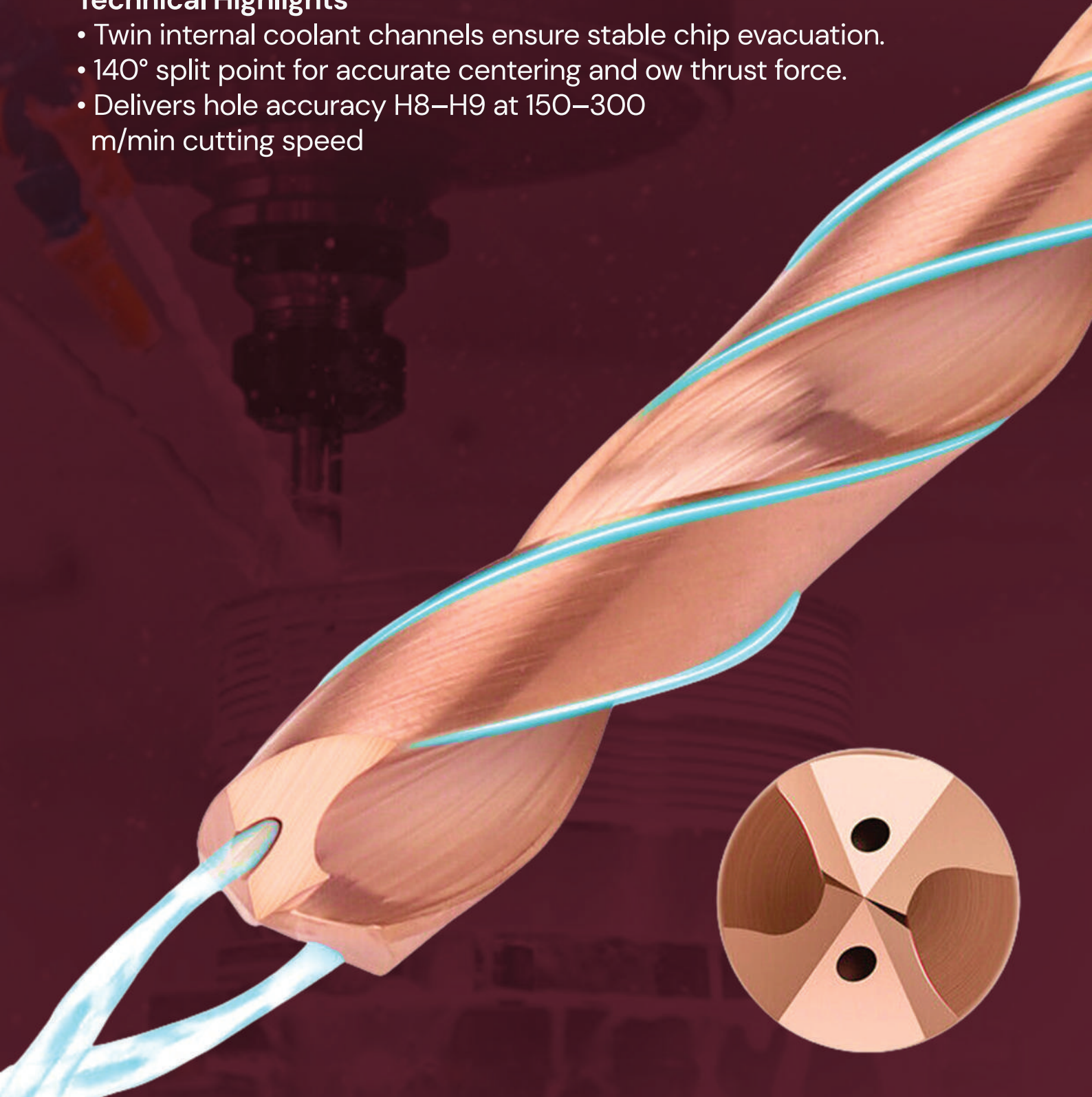
DRILLING SERIES



CARBIDE INTERNAL COOLANT DRILL BIT (3XD 5XD)

Technical Highlights

- Twin internal coolant channels ensure stable chip evacuation.
- 140° split point for accurate centering and low thrust force.
- Delivers hole accuracy H8–H9 at 150–300 m/min cutting speed





U-DRILL

(HARDENED STEEL – SPMG)

Technical Highlights

- Body hardness 45–50 HRC guarantees rigidity under high feed conditions.
- Uses SPMG inserts for drilling depth $2 \times D$ – $5 \times D$ with through-coolant.
- Performs efficiently at 120–200 m/min in medium-carbon steels.



U-DRILL

(H13 BODY – SPMG)

Technical Highlights

- Constructed from H13 tool steel for strength and thermal endurance.
- Spiral flute geometry ensures chip evacuation in 2×D–5×D depth holes.
 - Excellent for alloy steel and cast iron at 150–300 m/min.



CROWN DRILL

Technical Highlights

- Modular design with replaceable carbide crown for Ø10 – 60 mm range.
- Achieves precision hole tolerance IT8–IT9 with fast indexing.
- Ideal for large-diameter holes in steel, CI, and non-ferrous materials.

BTA & INDEXABLE GUN DRILL

Technical Highlights

- Deep-hole capacity up to 1000 mm with internal high-pressure coolant.
- Indexable carbide inserts maintain hole straightness ≤ 0.05 mm/100 mm.
- Used for mold, die, and automotive deep boring applications.



THREADING TOOLS



Technical Highlights

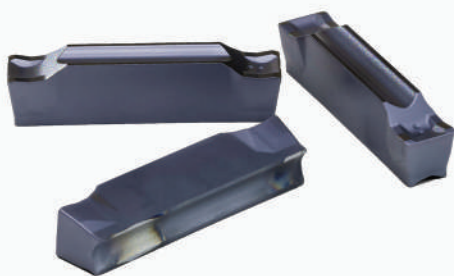
- Precision-ground inserts maintain thread pitch accuracy ± 0.01 mm.
- TiAlN-coated carbide ensures durability at 120–250 m/min.
- Supports ISO, UN, Metric profiles with external or internal holders

PARTING & GROOVING TOOLS

Technical Highlights

- Insert widths 1.5–6.0 mm with sharp, positive rake geometry.
- Feed range 0.05–0.20 mm/rev, DOC up to 3 mm.
- Rigid clamping design ensures burr-free parting and consistent accuracy.

TDC RANGE



MGMN RANGE



CARBIFORCE

A F F O R D A B L E T O O L I N G

CARBIFORCE PRIVATE LIMITED



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