

» CARBIDE AND COATINGS

DRAWING TOOLS

Perfect geometry. Perfect draw.

DURIT
HARTMETALL



» CARBIDE TECHNOLOGY

Parts, tools and components made of cemented carbide are **the ultimate in wear resistance and longevity** and **ensure utmost versatility**. DURIT carbide solutions stand up to the toughest demands.

» DEDICATED TO CARBIDE

Carbide from a single source—from blanks to high-precision final products. DURIT produces **customized parts** and realizes **individual shapes** as well as **complex geometries**.

» WE OFFER FULL-SERVICE CARBIDE

HARDFACTS

» DURIT HARTMETALL

» SINCE 1982

Successful and solution-oriented

» OVER 500 EMPLOYEES

Worldwide

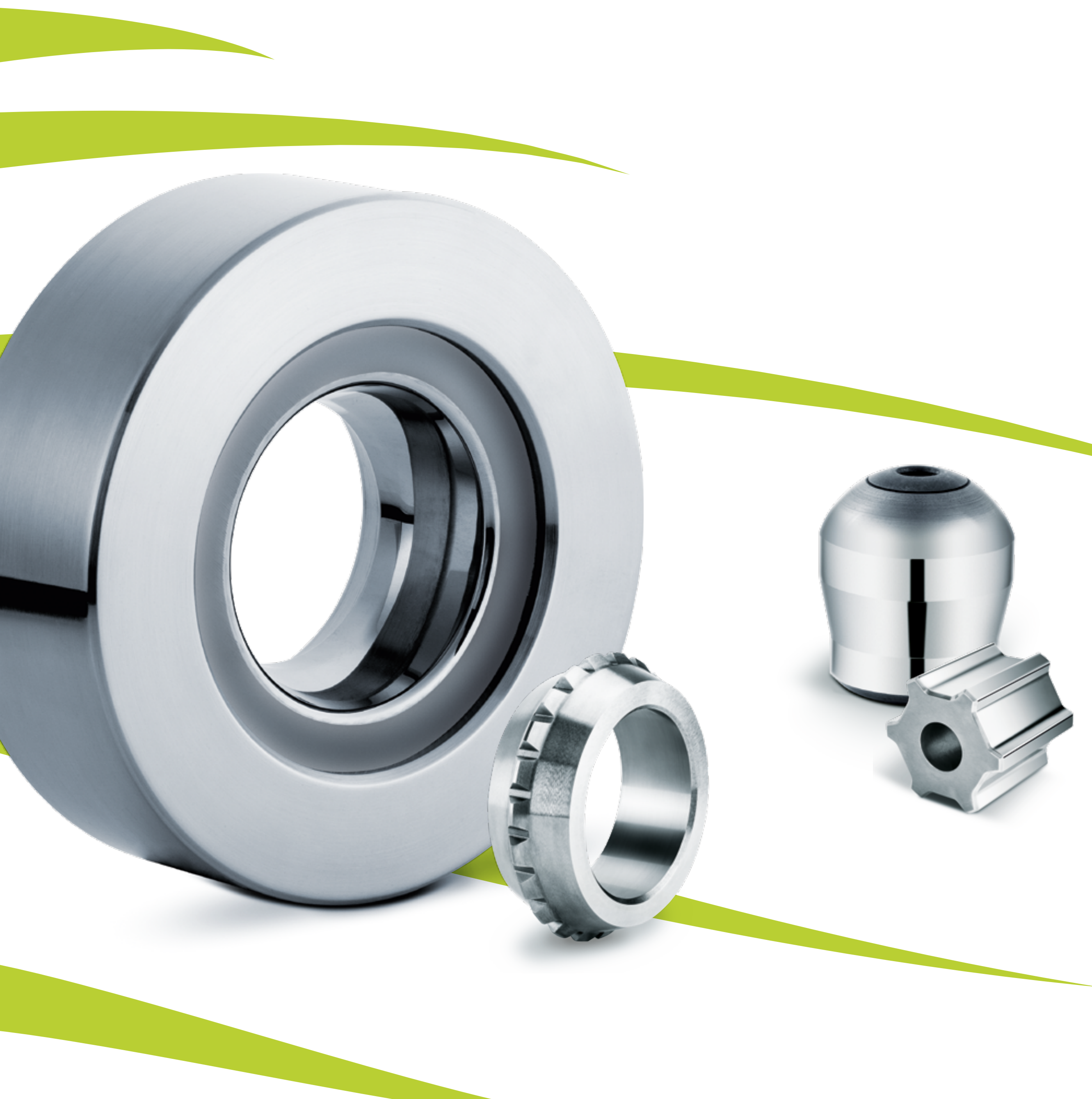
» MORE THAN 60 CARBIDE GRADES

For wear protection and metal forming

» 100 % COATING EXPERTISE

HVOF, APS, EAWS, Laser Cladding, PVD and CVD





» WEAR-RESISTANT DRAWING TOOLS

Process-optimized drawing operations place the highest demands on the tools used. With **specific grades of carbide**, DURIT realizes effective solutions that impress with their **durability** and **economy** for high-end drawing operations.

» WE SOLVE WEAR PROBLEMS

The DURIT product range includes the area of application around drawing of tubes, bars and profiles. With optimally adapted grades for the respective process, our experts create **individual solutions** that permanently meet the **highest requirements**. Effective coatings complete the DURIT portfolio.

» WITHSTANDS MOST EXTREME DEMANDS

Products ::

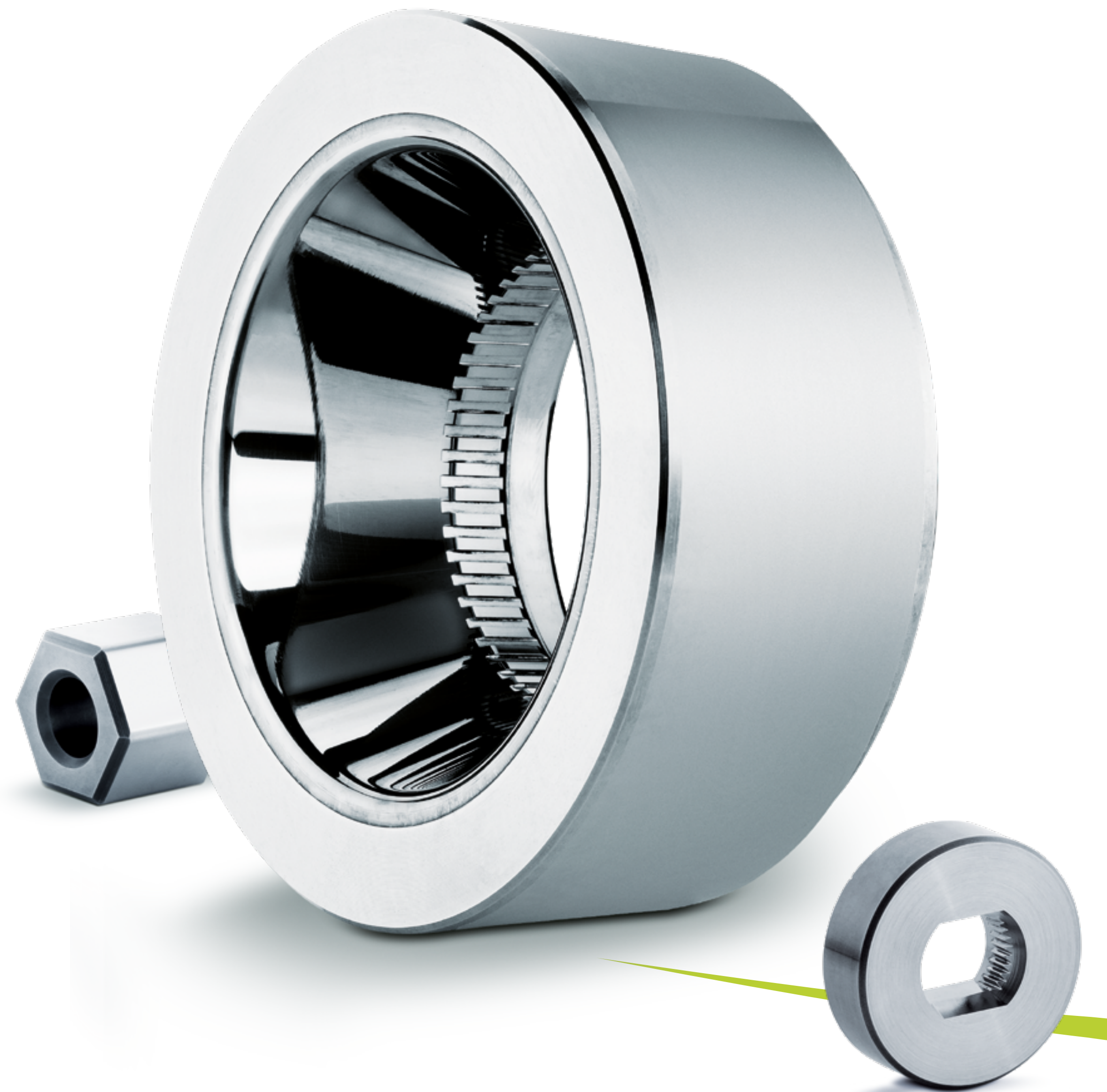
draw rings · nibs · plugs · rotating mandrels · drawing jaws · straightening tools · feed tools · peeling inserts for welded seams · profile tools · sizing rolls · flat rollers · profile rollers · guides · expansion pins

Typical applications ::

tube and bar drawing · cold rolling technology as well as processing industries

Selection of application-specific carbide grades ::

GRADE	Composition	Binder (%)	Grain size	Hardness (HV30)	Fracture toughness (MPa·m ^{1/2})
GD03F	WC-Co	5,75	submicron	1850	9
GD08F	WC-Co	8,00	submicron	1625	10
GD13F	WC-Co	10,00	submicron	1540	12
GD16F	WC-Co	13,00	submicron	1390	13
GD18F	WC-Co	15,00	submicron	1285	14
GD05	WC-Co	5,50	fine	1700	10
GD10	WC-Co	6,00	medium	1600	10
GD15	WC-Co	8,00	medium	1460	12
GD20	WC-Co	10,00	medium	1350	15
GD30	WC-Co	15,00	medium	1150	15,5





» DURIT QUALITY REPRESENTS BEST RESULTS

As one of few **complete suppliers in the market**, DURIT offers an all-encompassing concept from consultation, development and design, all the way to production of highly accurate components.

» CARBIDE FROM A SINGLE SOURCE

Our products are designed with a focus on **dimensional accuracy, continuity** and **value enhancement**. Therefore, all our production sites are equipped with **state-of-the-art** technology. In particular, we attach great importance to our **process-oriented quality management**.

» QUALITY AND ADDED VALUE THROUGH CERTIFIED PROCESSES



» PVD HardSilk®



» CVD TiC/TiN



» PVD UltraImpact EXCELL®

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takes you to EXTREMES

