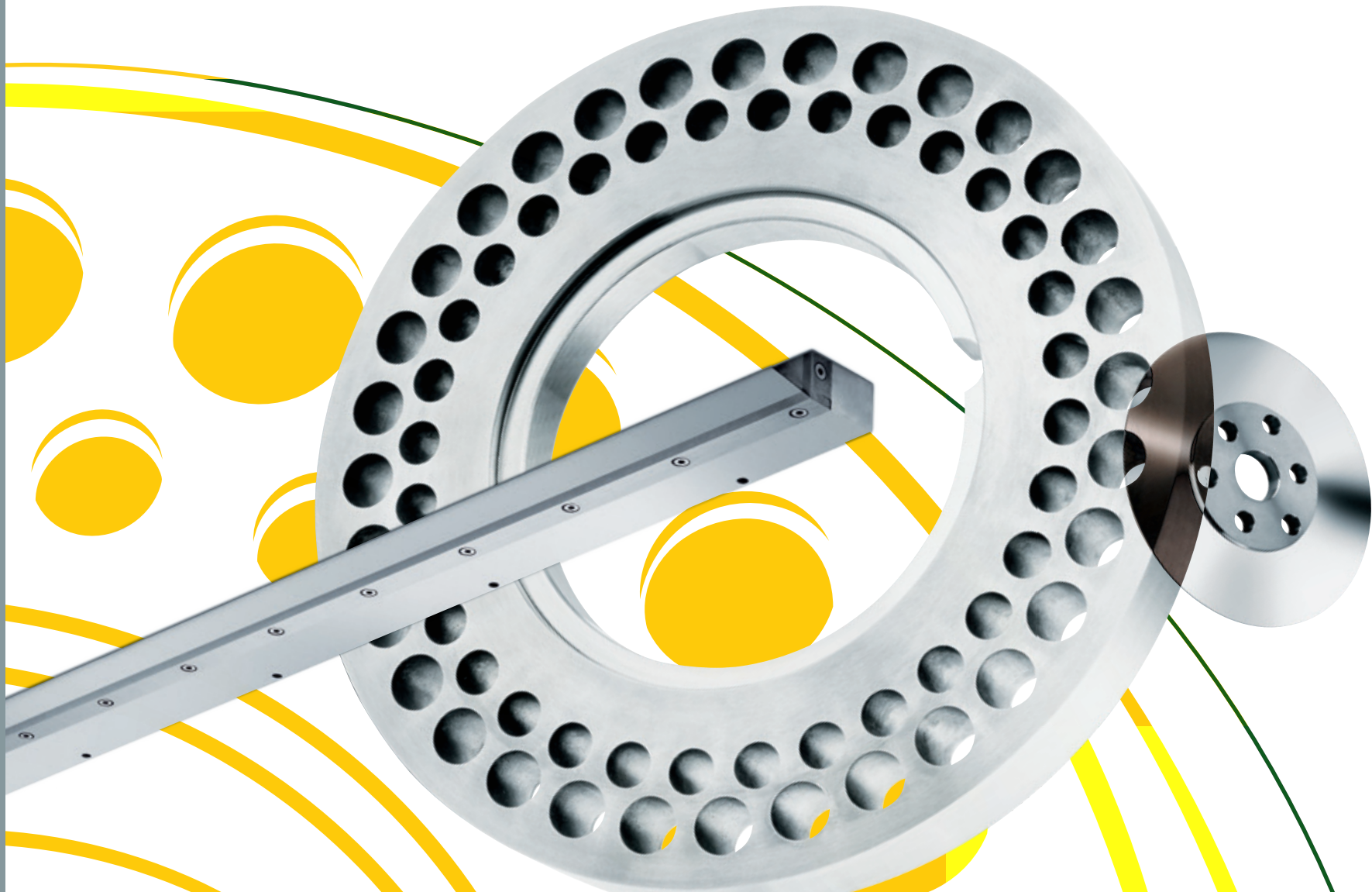


» CARBIDE AND COATINGS

INDUSTRIAL KNIVES

Sharp. Clean. Precise.

DURIT





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

» 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**



» WEAR-RESISTANT INDUSTRIAL KNIVES

Carbide industrial knives impress with **high cutting edge stability and permanent dimensional accuracy**. They are successfully applied in paper and sheet metal industries. Further sectors are recycling and shredding technology as well as food industry. Compared to conventional materials, industrial knives made of cemented carbide provide better cutting results—in all relevant fields of application.

» WE SOLVE WEAR PROBLEMS

The large variety of possible applications in the cutting industry does not only require comprehensive expertise in cemented carbide, but also industry-specific knowledge and **specialized know-how**. Due to long-term experience in this challenging segment, DURIT stands for the perfect cut.

» WITHSTANDS MOST EXTREME DEMANDS

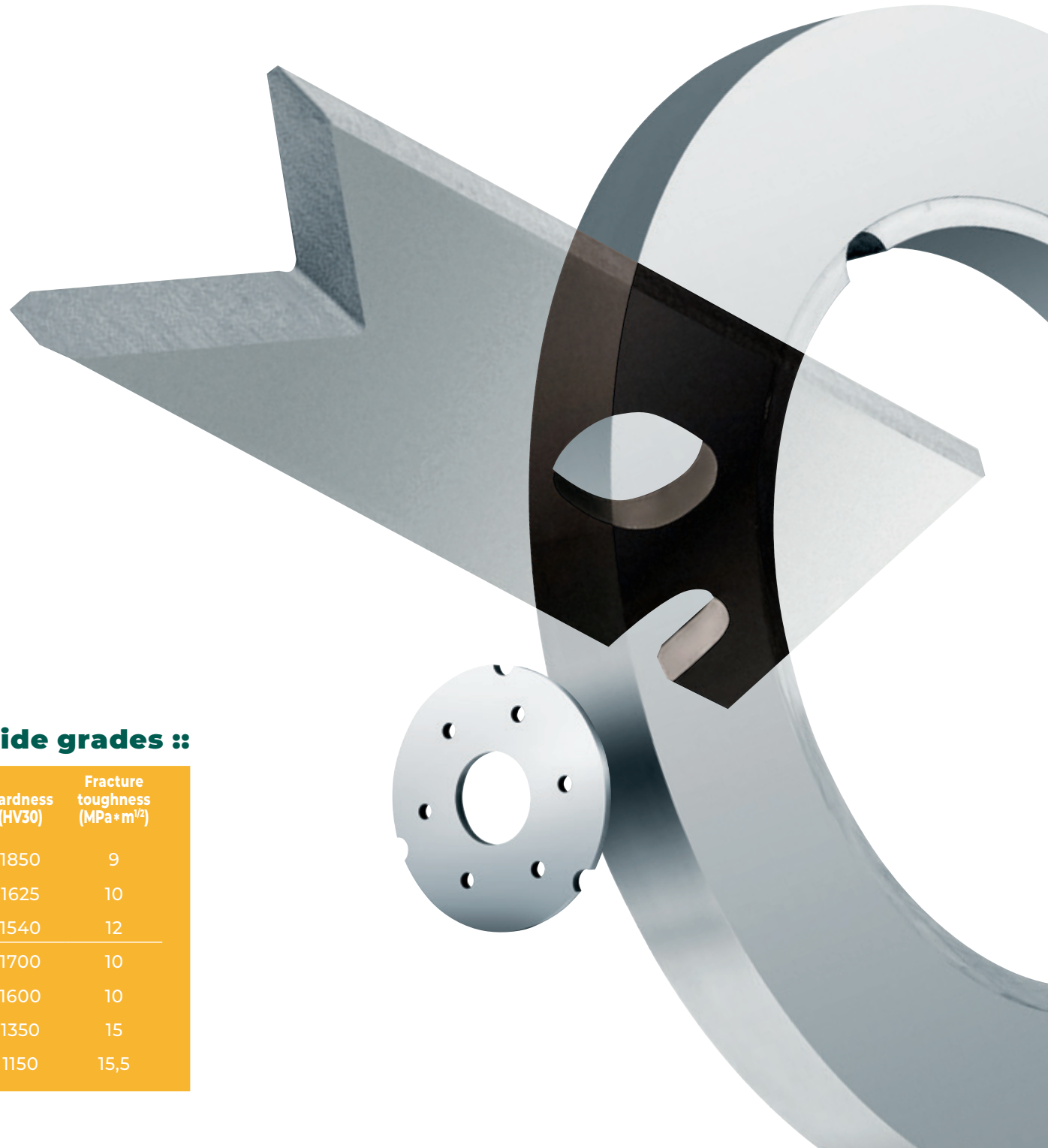
Products ::

roll shear knives · rotary slit knives · circular knives · rotating blades · granulating blades · chopping blades · scoring blades · cutting knives · perforating blades · special purpose knives · knife segments · cutter bars · shear parts

Typical applications ::

paper and printing industries · sheet metal industry · plastics industry · food industry · hygiene industry · glass industry · wood industry · tobacco industry · textile industry





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 |
| GD05 | WC-Co | 5,50 | fine | 1700 | 10 |
| GD10 | WC-Co | 6,00 | medium | 1600 | 10 |
| GD20 | WC-Co | 10,00 | medium | 1350 | 15 |
| GD30 | WC-Co | 15,00 | medium | 1150 | 15,5 |

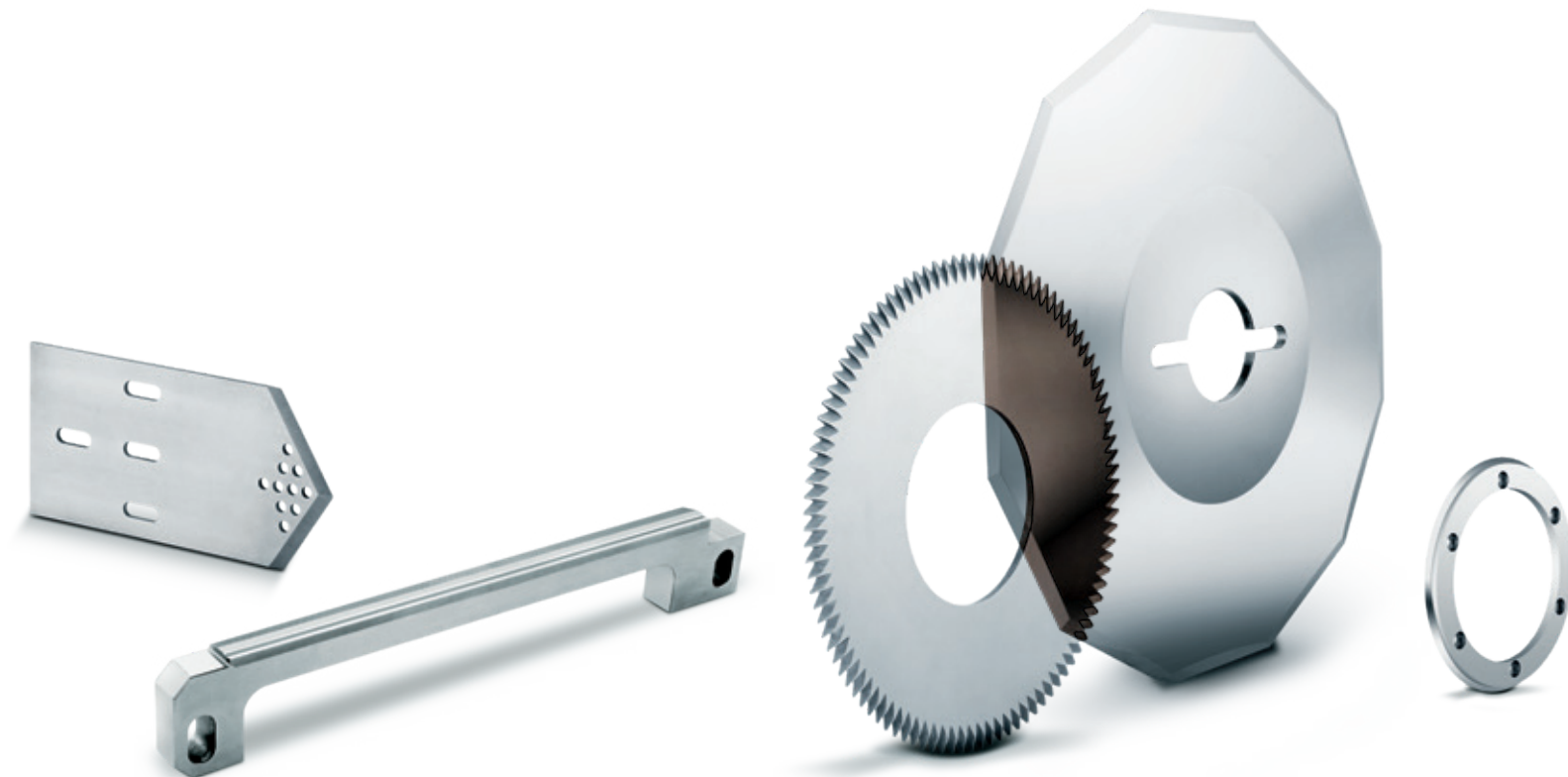
» DURIT QUALITY REPRESENTS BEST RESULTS

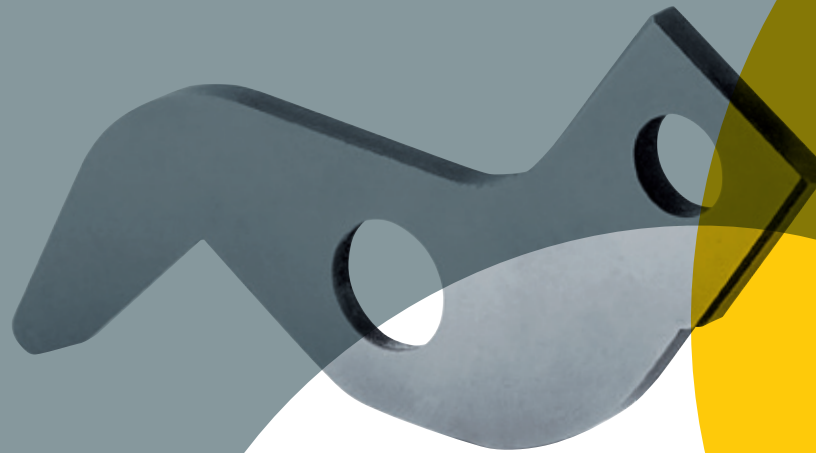
As one of few **complete suppliers in the market**, DURIT offers an all-encompassing concept from consultation, development and design, all the way to production of highly accurate components.

» 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





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takes you to EXTREMES

