

# D2MILL43<sup>0</sup>ON

O C T A G O N A L

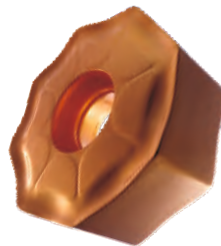
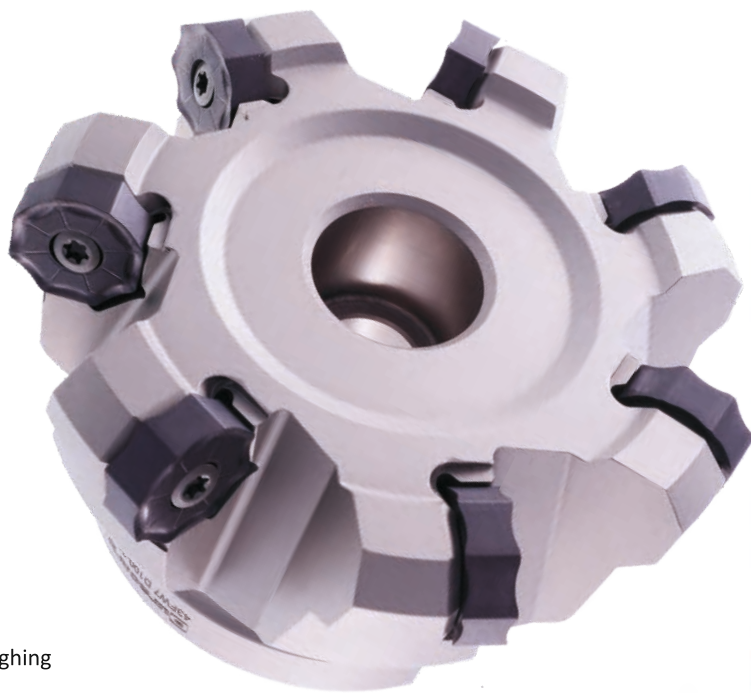
## 16 EDGE ECONOMY WITH SUPREME PERFORMANCE IN FACE MILLING

- 16 Cutting edge offers best in class economy
- Ideal for high performance face milling on cast iron and steel.
- 43° Approach angle results in balanced axial and radial loads for enhanced component edge quality on CI.
- Simple but Rigid screw clamping eliminates need of expensive spares.
- Positive geometry with helical edge result in smoother cutting action.
- Boarder wiping edge offers better surface finish.
- Offered in optimized geometries of M & ML for Roughing and Finishing.
- Available in wide- range of grades suited for CI, Steel, SS and heat resistant alloys.
- Cutters available with Fine pitch and normal pitch options.

### PROGRAM

INSERT	FACE MILL CUTTER RANGE	END MILL RANGE	MAXIMUM DEPTH OF CUT
ONMU 050505-M	Ø50, Ø63, Ø80, Ø100, Ø125.	Ø25, Ø32, Ø40.	2 mm
ONMU 070608-M ONHU 070608-ML	Ø63, Ø80, Ø100, Ø125, Ø160.	—	4 mm

Inserts available in popular grades of: DP5320, DC9200, DC9800, DP5035, DP7320



**16** EDGES  
*smart*  
milling  
AVAILABLE IN  
2 SIZES OF INSERTS  
TO OPTIMIZE YOUR  
MANUFACTURING COST



**8** EDGES  
*smart*  
milling  
AVAILABLE IN  
BOTH NORMAL AND  
FINE PITCH OPTIONS.

# D2MILL45<sup>0</sup>SN

S Q U A R E

## 8 EDGE ECONOMICAL AND RELIABLE SOLUTION FOR 45° FACE MILLING.

- 45° approach angle for balanced machining.
- Helical edge with positive rake for lower cutting forces.
- Unique Chip former for lowering chip contact area thus reducing operating temperature.
- Unique angled screw clamping gives secure insert clamping with higher pitch.
- DOC up to 6 mm.

### PROGRAM

INSERT	FACE MILL CUTTER RANGE	MAXIMUM DEPTH OF CUT
SNKU 1205 XTN SNGX 1205 XTN	Ø50, Ø63, Ø80, Ø100, Ø125	6 mm

Inserts available in popular grades of: DP5320, DC9200, DC9800, DP5035, DP7320

# D-MILL45°SD

S Q U A R E

**HIGH PERFORMANCE GUARANTEED  
EVEN WITH LOW POWERED MACHINES**

- Thick and unique geometry for high strength cutting.
- Ideal for low powered machines.
- Available in grades suited for CI, Steel, SS and heat resistant alloys.
- Effective cutting depth up to 4mm.
- Available in options of normal and close pitches.

## PROGRAM

INSERT	FACE MILL CUTTER RANGE	MAXIMUM DEPTH OF CUT
SDKT 1305 XTR-M	Ø50, Ø63, Ø80, Ø100, Ø125.	4 mm

Inserts available in popular grades of: DC9200, DC9300, DC9800, DP5035, DP7320



**4** EDGES  
**smart**  
milling  
AVAILABLE IN  
BOTH NORMAL AND  
CLOSE PITCH OPTIONS.

# D2MILL90°SN

S Q U A R E

**8 EDGE ECONOMICAL AND RELIABLE  
SOLUTION FOR 90° FACE MILLING.**

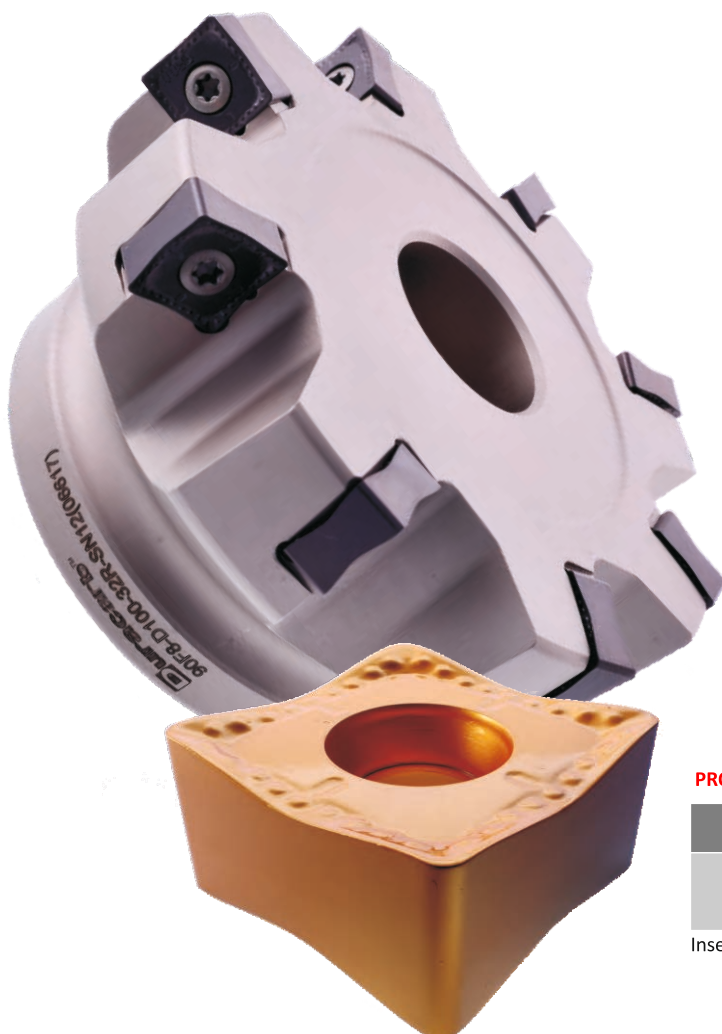
- 8 corners for cost effective machining.
- Tougher cutting edge for larger depths up to 6mm.
- Helical edge provides for smooth and chatter free operation.
- Unique Chip former for lowering chip contact area thus reducing operating temperature.
- Unique angled screw clamping gives secure insert clamping with higher pitch.
- Available in Specialized grades for use on steel, SS, cast iron and Heat resistant alloys.

**8** EDGES  
**smart**  
milling  
AVAILABLE IN  
BOTH NORMAL AND  
FINE PITCH OPTIONS.

## PROGRAM

INSERT	FACE MILL CUTTER RANGE	MAXIMUM DEPTH OF CUT
SNGU 120508-M	Ø50, Ø63, Ø80, Ø100, Ø125.	6 mm

Inserts available in popular grades of: DP5320, DC9200, DC9800, DP5035



# D2MILL90°GN

## R E C T A N G L E

**HIGH PERFORMANCE SOLUTION FOR  
FULL DEPTH 90° SLOT/SHOULDER MILLING.**

- True 90° Shoulder generation capability with 4 corners.
- High productivity inserts characterized by thicker and stronger cutting edges.
- High helix on cutting edge ensures smoother cutting.
- Double sided durable insert with high positive rake angle for low cutting loads and temperature.
- Can be used on low to medium powered machines.
- Available in both Face mill and End mill options.



**4** EDGES  
*smart*  
milling  
AVAILABLE IN  
BOTH FACE MILL AND  
END MILL OPTIONS.

### PROGRAM

INSERT	FACE MILL CUTTER RANGE	END MILL RANGE	MAXIMUM DEPTH OF CUT
GNMU 110605R-M GNHU 110608R-M	Ø40, Ø50, Ø63, Ø80, Ø100	Ø20, Ø25, Ø32.	10 mm
GNMU 161008R-M	Ø50, Ø63, Ø80, Ø100	Ø32, Ø40.	14.5 mm

Inserts available in popular grades of: DP5320, DC9200, DC9800, DP5035, DP7320.

# D-MILL90°SO

## S Q U A R E

**90° FACE MILL FOR LOW POWER AND  
LESS RIGID APPLICATIONS**

- Innovative cutting edge for effective chip evacuation.
- Super high positive axial rake that generates low cutting forces.
- Wider wiping edge for enhanced surface finish quality.
- Offers 90° shoulder for full 7mm DOC.
- Suitable for low powered machines and less rigid setups.
- Available in variety of grades for use on steel, SS, cast iron, Aluminum\*\* and Heat resistant alloys

### PROGRAM

INSERT	FACE MILL CUTTER RANGE	MAXIMUM DEPTH OF CUT
SOMX 120508 PEER-DM SOMX 120508 PEER-A	Ø50, Ø63, Ø80, Ø100, Ø125	7 mm

Inserts available in popular grades of: DC9200, DC9300, DC7800, DP5035, DC210



**4** EDGES  
*smart*  
milling  
AVAILABLE FOR  
STEEL, SS, CAST IRON  
ALUMINIUM AND  
HEAT RESISTANT ALLOYS.





## D-MILL90°TO

T R I A N G L E

### SUPER HIGH POSITIVE INSERT FOR SHOULDER MILLING

- Super high double positive rake angles for low cutting forces.
- Wider wiping edge for enhanced surface finish quality.
- True 90° cutting edge guarantees squareness and accuracy.
- High density cutter maximizes Productivity.
- Available in variety of grades for use on steel, SS, cast iron, Aluminum and Heat resistant alloys



**NEW**

#### PROGRAM

INSERT	FACE MILL CUTTER RANGE	END MILL RANGE	MAXIMUM DEPTH OF CUT
TOMX 100408PDTR-DM	Ø40, Ø50, Ø63, Ø80.	Ø20, Ø25, Ø32, Ø40.	6 mm

Inserts available in popular grades of: DP5320, DC9200, DC9800, DP5035, DP7320

**3** CORNERS  
**smart**  
milling  
TRUE SHOULDER  
GENERATION CAPABILITY  
WITH 3 CORNERS

## D-MILL90°AP

R E C T A N G L E

### PERFECT 90° SHOULDER MILLING SOLUTION

- 90° True Shoulder generation capability for full depth.
- Highly positive rake angle for smooth and chatter free machining.
- Thicker and stronger insert design.
- Higher helix angles ensure smoother cutting.
- Step less machining in multiple axial pass operations.
- Best suited for low to medium powered machines.
- Available in both Face mill and End mill options.
- Suitable for Die and Mold applications with DM range of cutter bodies.



**2** CORNERS  
**smart**  
milling  
TRUE SHOULDER  
GENERATION CAPABILITY  
WITH 4 CORNERS

#### PROGRAM

INSERT	FACE MILL CUTTER RANGE	END MILL RANGE	MAXIMUM DEPTH OF CUT
APKT 080308R APKT 080316R	—	Ø16, Ø20, Ø25, Ø32.	6.5 mm
APKT 160408 PDSR	Ø40, Ø50, Ø63, Ø80, Ø100.	Ø25, Ø32.	13 mm

Inserts available in popular grades of: DP5320, DP7320, DC9300, DC9800, DC9200





**smart**  
tools

FOR DIE & MOLD

THE D&M INDUSTRY HAS UNIQUE REQUIREMENTS/ CHALLENGES, INCLUDING:

- Profile milling/ copy milling.
- High metal removal rates.
- Difficult to machine materials.
- Complex machining strategy.

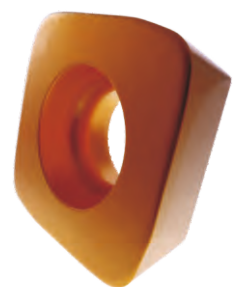
No matter what the challenges are, Duracarb is always up to the task. Duracarb offers solutions for high feed milling and conventional profile milling.

The choice of geometry and grades will enable you to optimize your machining strategies.

## D-HIFEED S Q U A R E

### HIGH FEED FOR HIGH PRODUCTIVITY

- Four corner positive insert for high feed milling.
- Innovative edge for stable machining under high feed rates.
- Integrated wiper flat for improved surface finish.
- Higher thickness for better endurance under high feed conditions.
- Excellent choice for high feed milling in D&M, Aerospace and Power industries.
- Available in End mill and Face mill options.



**4** CORNERS  
**smart**  
milling  
AVAILABLE IN  
BOTH FACE MILL AND  
END MILL OPTIONS.

#### PROGRAM

INSERT	FACE MILL CUTTER RANGE	END MILL RANGE	MAXIMUM DEPTH OF CUT
SDMW 1004-DR	Ø40, Ø50, Ø52, Ø63	Ø25, Ø32, Ø40	1.2mm

Inserts available in popular grades of: DP8330, DP7320, DP5320



# D-MOLD

R O U N D

## ROUND INSERTS FOR ECONOMICAL MACHINING

- Ideal for copy profile and radius milling.
- Double positive cutters for smooth operation.
- Reliable machining under demanding conditions.
- Suitable for Aerospace, Die & Mold industry.
- Double positive cutters for smooth operation.
- Available in end mill and face mill options

### PROGRAM

INSERT	FACE MILL CUTTER RANGE	END MILL RANGE	MAXIMUM DEPTH OF CUT
RDMT 1003-DM RDMT 1003-DR	—	Ø20, Ø25.	5 mm
RDMT 12T3-DM RDMT 12T3-DR	Ø50, Ø52.	Ø32	6 mm

Inserts available in popular grades of: DC9300, DC9800, DP5035

**smart**  
*milling*  
AVAILABLE IN  
BOTH FACE MILL AND  
END MILL OPTIONS.

# D-ENDMILL

S O L I D C A R B I D E

## HIGH PERFORMANCE SOLID CARBIDE END MILLS.

- Available for wide range of application and various configurations of shank and lengths.
- Unique geometry for smoother cutting superior surface quality.
- Advanced grades and coating enables for higher feed rates of up to 1.5Xd in slotting.
- Precision tolerated tools for better dimensional control.
- Optimally designed geometry for both rough and finish applications.

**DURACARB** is to die for! Get it today.