

NEW PRODUCT NEWS *RHINO•RUSH*



Four Cutting Edges DNUX Insert with Low Cutting Force



RHINO•RUSH

Four Cutting Edges DNUX Insert with Low Cutting Force

FEATURES

- **4 cutting edges for productivity and economy**
- **For medium light to medium applications**
- **Steel and stainless steel machining**
- **Decreased cutting forces due to high positive rake angle geometry**
- **Suitable for machining slender bar, thin-wall components**

TaeguTec has launched a new line for the RHINORUSH family, a DNUX insert type that significantly reduces cutting forces that occur during machining.

The DNUX has adopted a high positive rake and inclination angle at the cutting edge to minimize cutting forces and vibration that may occur during the machining.


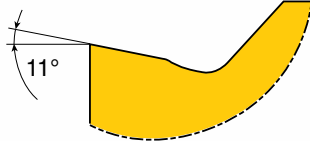
TaeguTec's DNUX insert works with much less cutting forces and vibration compared to the existing ISO-DNMG insert. Furthermore, the line guarantees the same performance as the KNUX insert.

A further advantage of the DNUX line is its four cutting edges over the KNUX with two cutting edges.

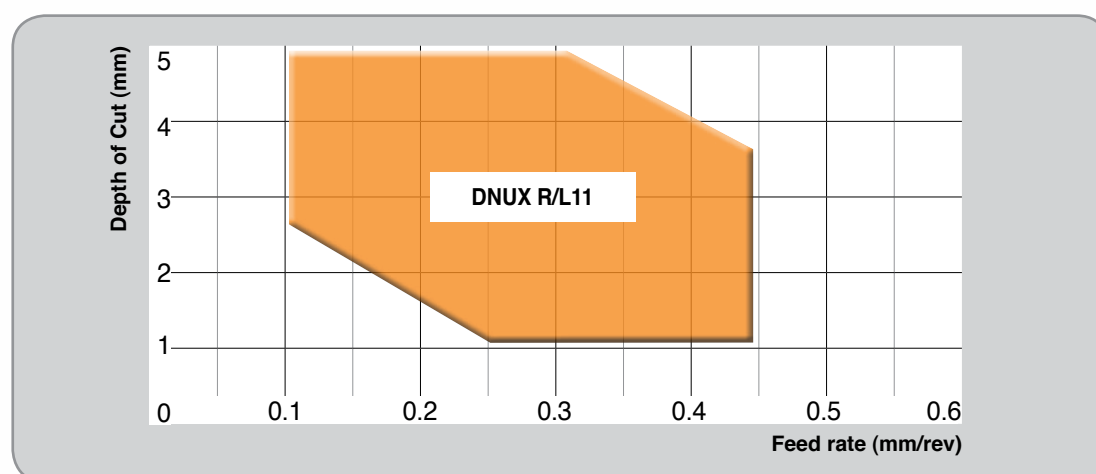
Designed to be mounted on DNMG insert type RHINORUSH tool holders, DNUX inserts eliminate the need for separate tool holders.

RHINORUSH DNUX R/L11 chip breaker & cutting condition

Chip breaker geometry

Insert	Edge geometry
<p>DNUX R/L11</p>	
	

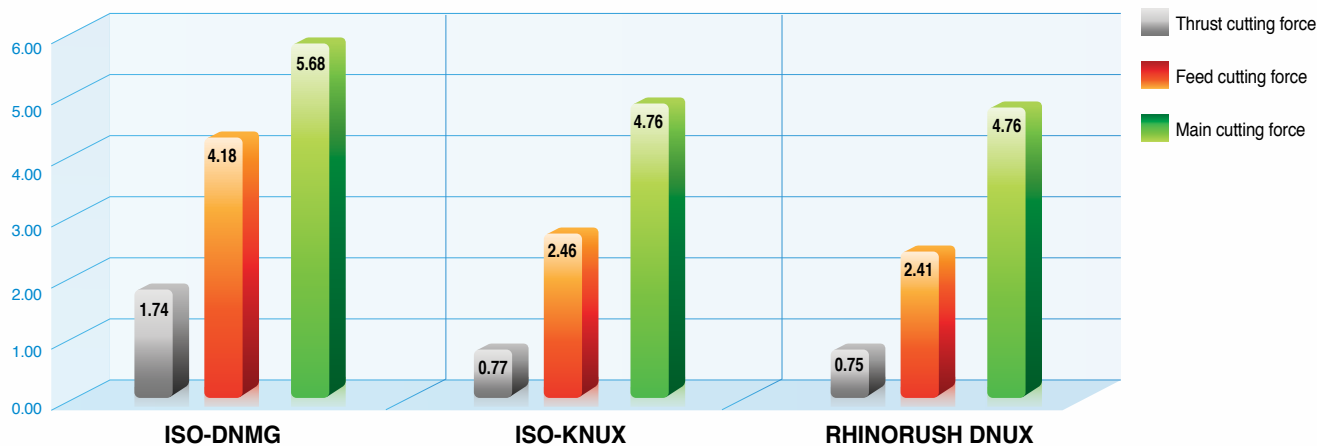
Chip breaker range



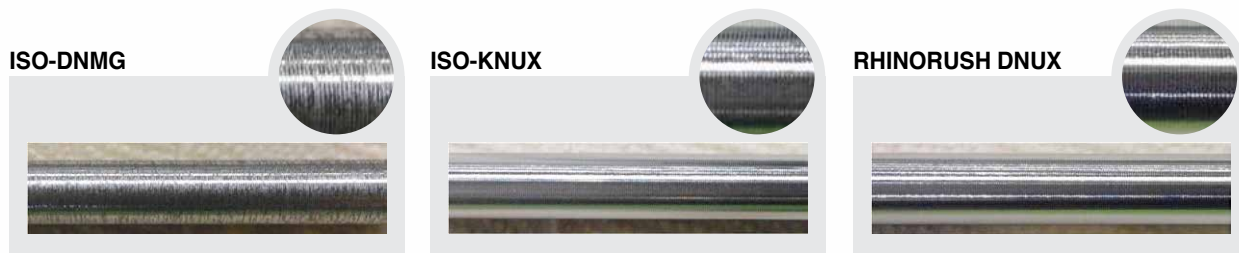
- Insert : DNUX 130404 R11
- Cutting speed (V) : 200m/min
- Material : 0.45% carbon steel (HB200~230)

Comparison of cutting force

Workpiece	Vc(m/min)	f(mm/rev)	Cutting depth	Coolant	Remark
0.45% Carbon steel (Ø20mm)	200 m/min	0.3 mm/rev	3.0 mm	Dry	External continuous

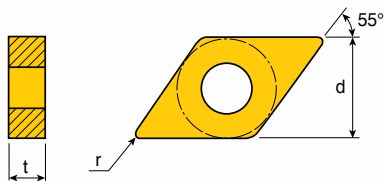


Surface roughness



Inserts

DNUX Negative 55° rhombic inserts



Size	Dimension (mm)		
	d	t	r
13	11.11	5.56	0.4-0.8

Insert	Designation	feed (mm/rev)	ap (mm)	CVD Coated				PVD Coated
				TT8115	TT8125	TT9225	TT5100	TT9080
<p>Right Hand Shown For Medium</p>	DNUX 130504 R11	0.15-0.35	1.5-5.0	●	●	●	●	●
	130504 L11	0.15-0.35	1.5-5.0	●	●	●	●	●
	130508 R11	0.21-0.45	2.0-5.0	●	●	●	●	●
	130508 L11	0.21-0.45	2.0-5.0	●	●	●	●	●

- : Standard items
- External holder : L-hand insert for L-Hand toolholder, R-hand insert for R-hand toolholder
- Internal holder : L-hand insert for R-Hand toolholder, R-hand insert for L-hand toolholder