

**SANDVIK**  
Coromant

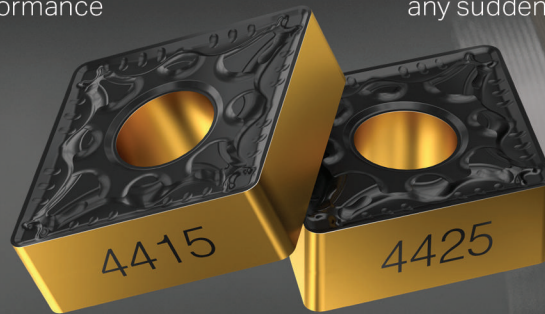
# New steel turning grades

GC4425 and GC4415

Refined in every aspect

New substrates with a unique combination of good toughness and resistance against plastic deformation provide reliable performance

New post-treatment enhances performance in intermittent cutting operations, avoiding any sudden breakages



Second-generation Inveio® technology contributes to even more consistent performance, delivering significantly improved wear resistance and tool life

An average of 25% tool life increase combined with reliable and predictable performance helps minimize both insert and workpiece material waste



**STELLAR** INDUSTRIAL SUPPLY

## Benefits

- Increase metal removal rates
- Reduce cycle times
- Secure mass production
- Optimize inventory levels

## Application

- Low-alloyed and unalloyed steels
- Mass and batch production
- External and internal machining
- Finishing to roughing in applications with continuous cuts and light interruptions

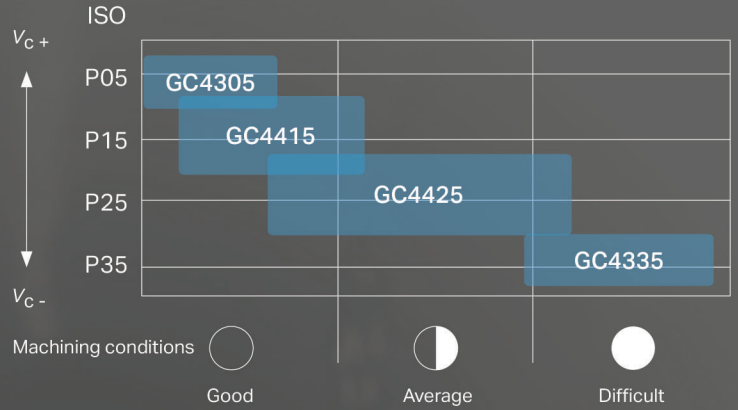
## Performance

**Customer case:** Automotive

**Component:** Main shaft

**Material:** Forged, P1.1.Z.AN (SAE 1026), 172 HB

**Operation:** Continuous external turning, roughing and semi-finishing



### Cutting data

$v_c$ , m/min (ft/min)	192 (630)
$f_n$ , mm/rev (in/rev)	0.32 (0.013)
$a_p$ , mm (inch)	1.2 (0.047)

	Competitor	Sandvik Coromant
Insert, ISO (ANSI)	-	TNMG160408 (TNMG 332) -PR
Grade	-	GC4425
Tool life, pcs	150	270

80%  
Productivity  
increase



# STELLAR INDUSTRIAL SUPPLY

<b>ALBANY</b> (541) 967-8500	<b>BILLINGS</b> (406) 896-0066	<b>EVERETT</b> (425) 259-9241	<b>PORTLAND</b> (503) 253-3100	<b>SAN LUIS OBISPO</b> (805) 543-5177
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