

Brass means business.

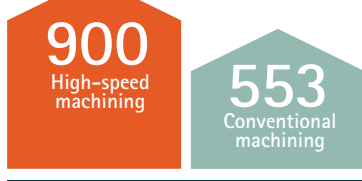
High-speed machining with brass unlocks major savings.

Speed and productivity increase

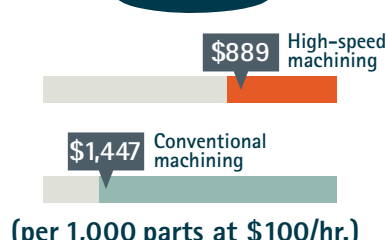
when creating a brass hose coupling on a CNC Swiss lathe at high-speed versus conventional speed



► Time per part



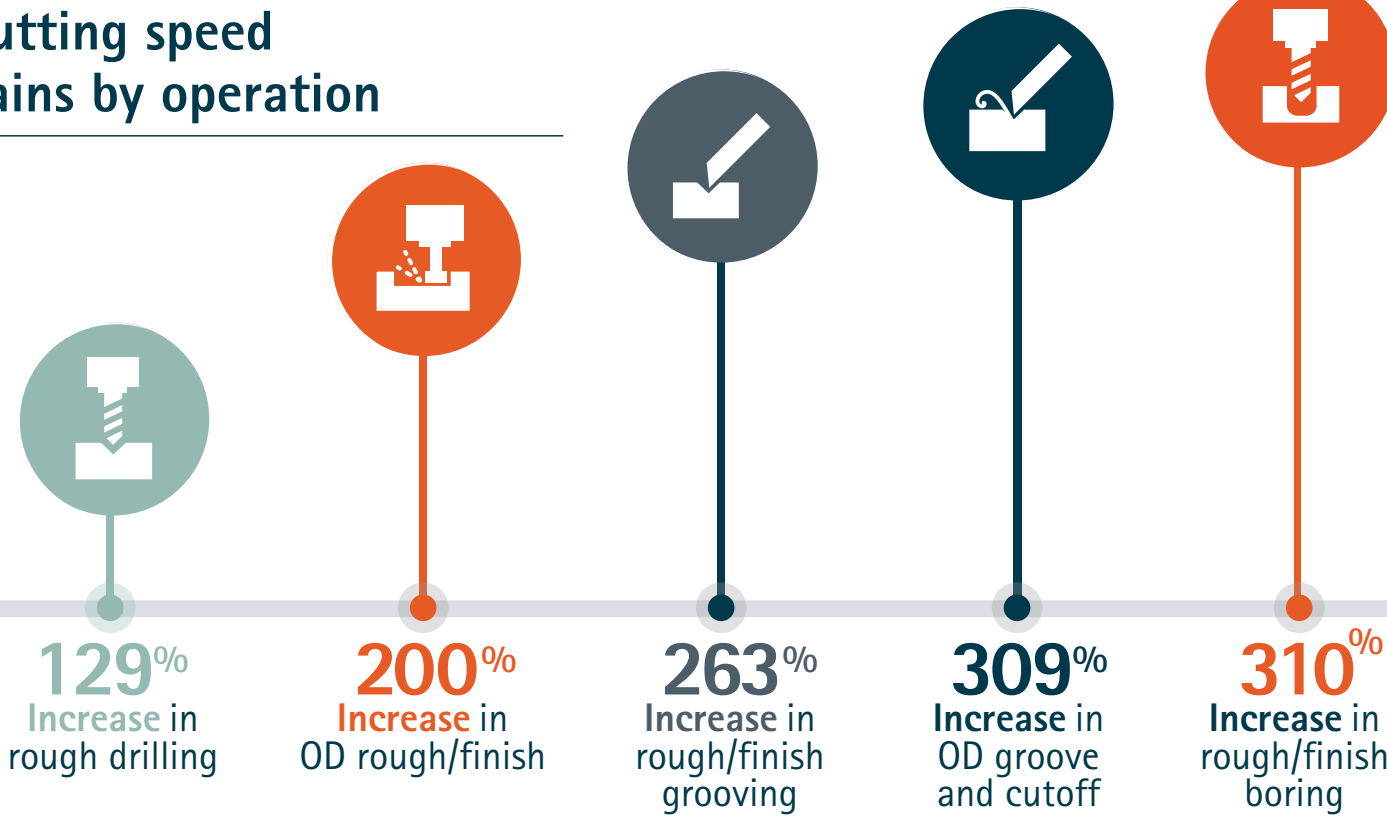
► Parts productivity



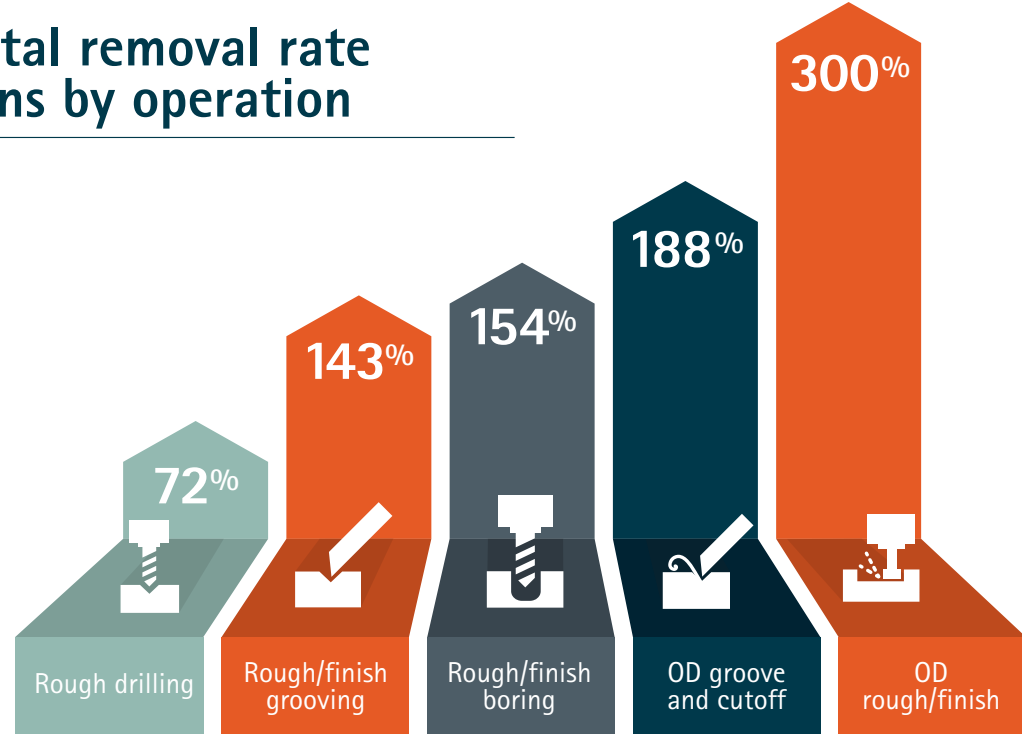
(per 1,000 parts at \$100/hr.)

► Machining cost

Cutting speed gains by operation



Metal removal rate gains by operation



Brass achieves **ALL** these advantages with no impact on tool life, surface finish or chip control.

Brass runs fast.

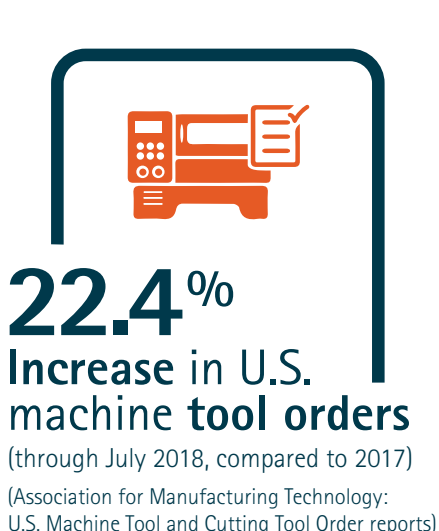
Machining speed and cost comparison*

	Turning		
	304L stainless steel	12L14 steel	Brass
Optimized Cutting Speed (surface feet per minute; carbide inserts)	800	1,200	4,000
Machining Cost (per 1,000 in ³ of material removed at \$100/hr.)	\$550	\$370	\$80

	Drilling		
	304L stainless steel	12L14 steel	Brass
Optimized Cutting Speed (surface feet per minute; carbide drills)	250	800	2,000
Machining Cost (per 1,000 holes at \$100/hr.)	\$253	\$78	\$32

*High-speed machining material optimization testing and analysis performed by TechSolve, Inc.

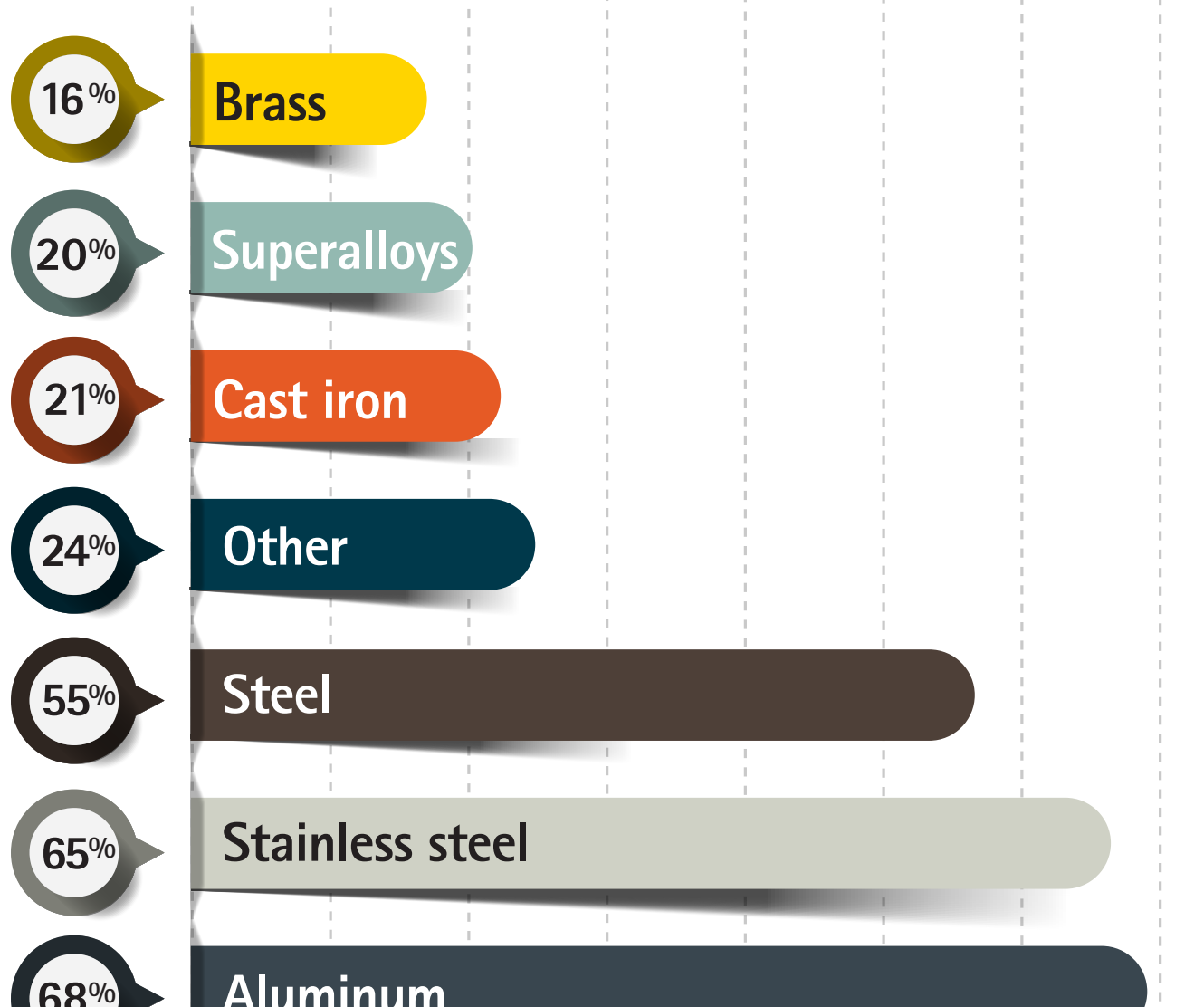
Advanced manufacturing technology unlocks new competitive advantages for brass



"The current growth rate in manufacturing technology orders is outstanding in the face of marketing uncertainty due to trade tensions"
— Doug Woods: President, Association for Manufacturing Technology, September 2018



Materials commonly specified for machined components



(2018 CDA Survey, N=374)

Brass makes sense. Now's the time.

For more information, visit our website at highspeedmachiningbrass.com