

Tailor Made Tools

Rorschacherberg, 25/04/2017

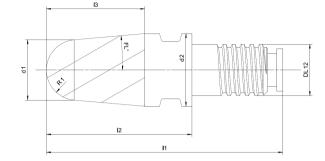
Starrag Duo-Lock™ Solutions for Aerospace Energy Transportation Industrial

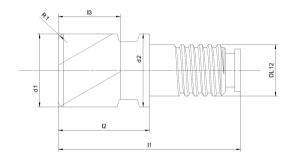
New products

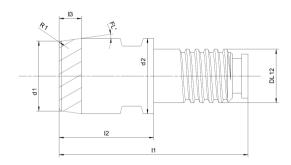


Screwable cutters

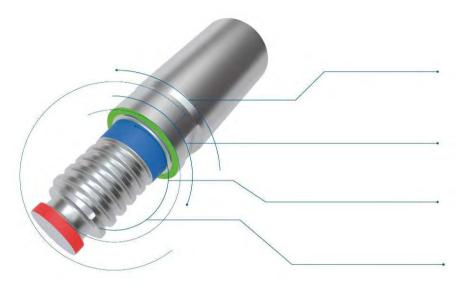
- Reduction of carbide costs
- High repeat accuracy
- Haimer Duo-Lock[™] System
- Proven Starrag micro geometry
- Complete process development from one source
- Reduce cost per part through optimized tools
- Solutions for thin walled workpieces
- Better (improved) surface quality and longer tool life
- Pilot lots and small batches cost-effectively produced
- Short delivery times
- ▼ Diameter d2 = 10-32mm







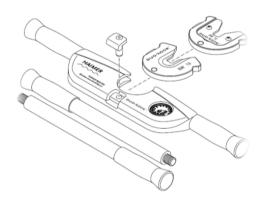
Duo-Lock™ Interface



Double cone contact area, headcone for high accure positioning and secure outrigger from machining forces.

Optimized distribution of strength throughout the whole thread.

Additional supporting area to take bending moments.





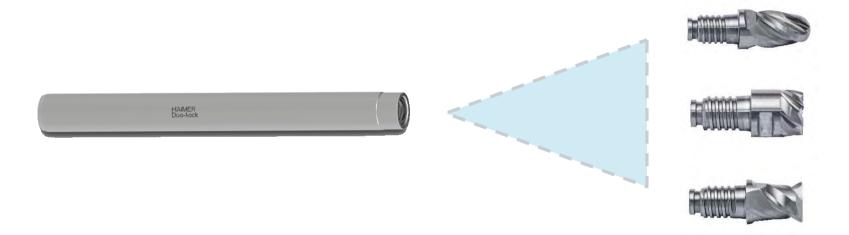
Interface runout accuracy 5 µm



Duo-Lock™ Interface

Lenght accuracy +/- 10 μm (pending on manufacturing process)

Runout accuracy < 10 µm (Based on a short extension, pending on manufacturing process)



The lenght accuracy allows a reduction of setup times

More precision and maximum tool life

Duo-Lock™ Holders for maximum flexibility

- Interfaces HSK, SK, BT, CAT
- Central coolant hole
- Ultra short version
- Balanced G 2.5 / 25000 U/min.



- h5 shank tolerance
- Central coolant hole
- Safe-LockTM shank (short version)
- Cylindrical version starting from 55mm to 250mm
- Conical version starting from 65mm to 250mm
- Overall length based on customer requirements
- Option for vibration dampening





Thank you for your attention!

