

Renaud®

Broches de haute précision
Hochpräzisionsspindeln
High precision spindles
高精度主轴

HIGH PRECISION MADE IN SWITZERLAND

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High precision spindles
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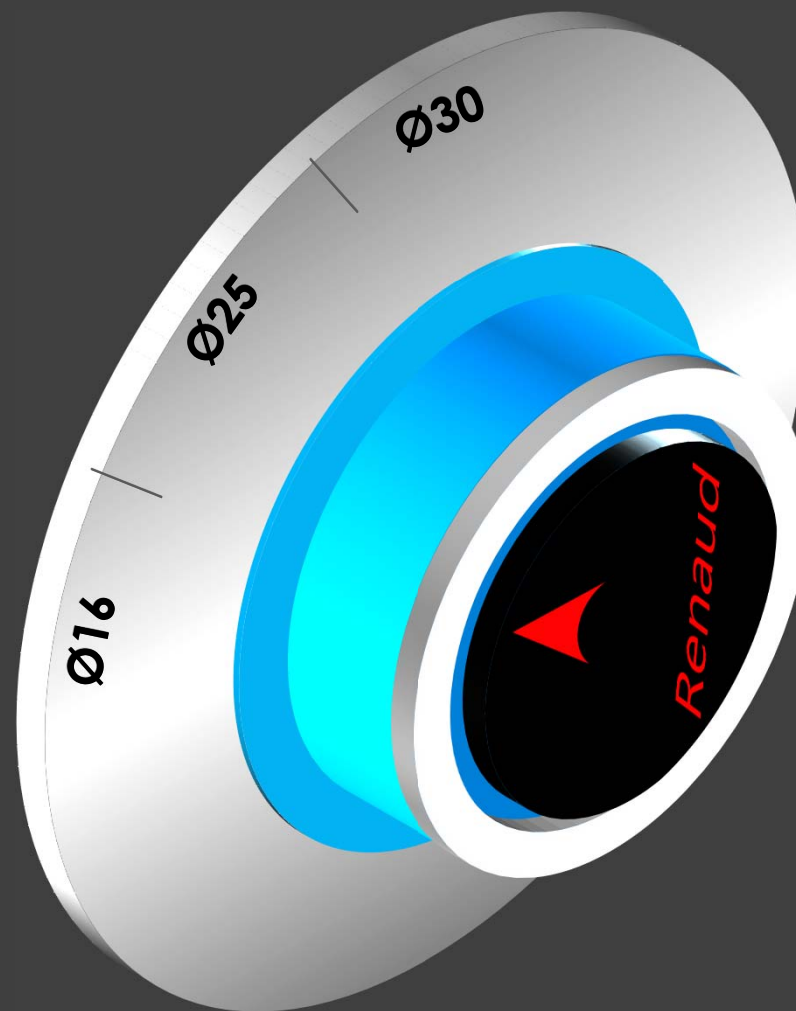
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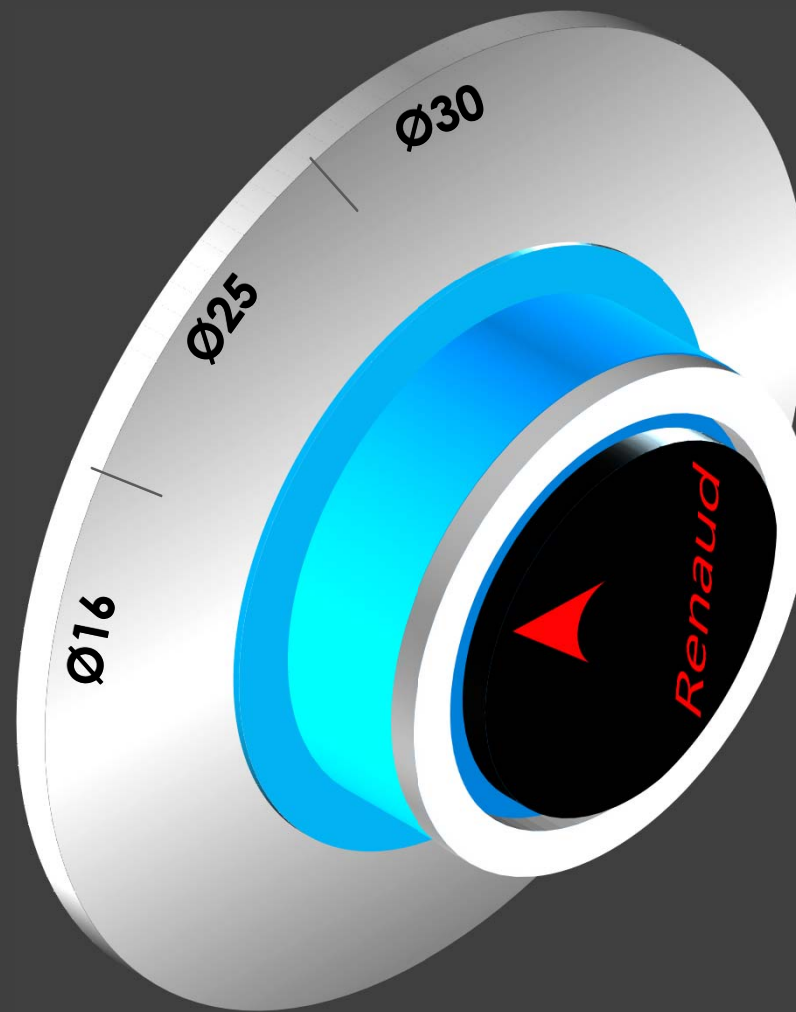
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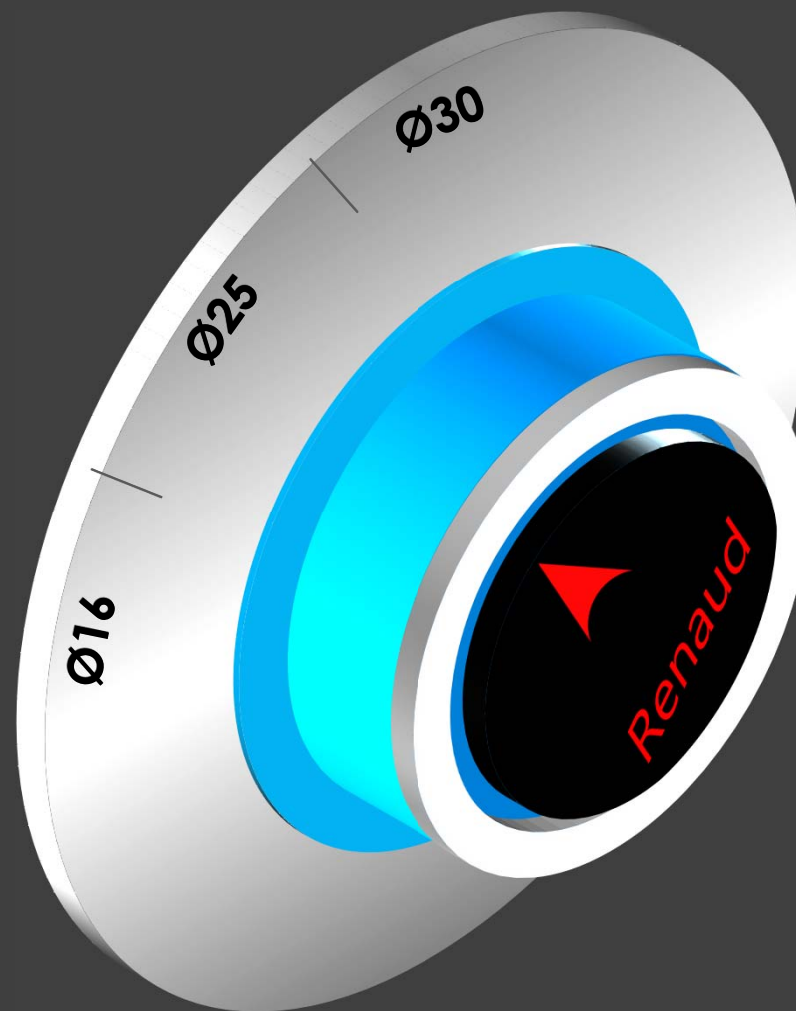
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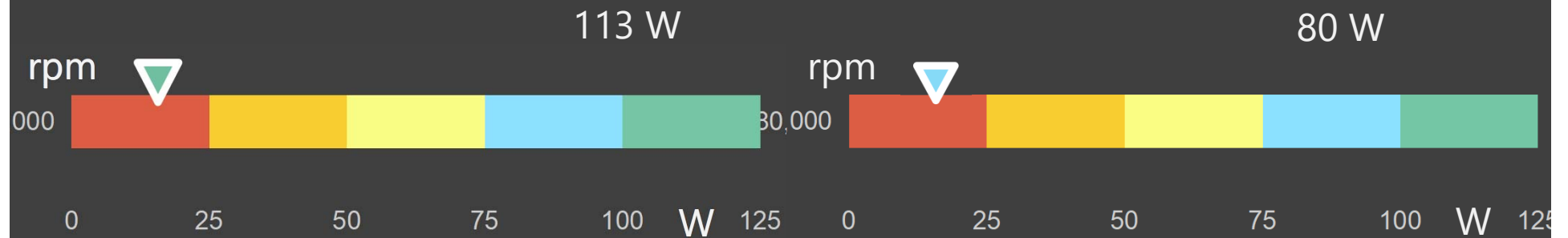


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Ø16 Comparison : *Power at maximum speed*

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Competitor A



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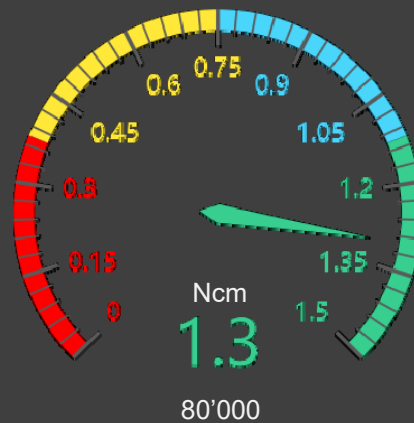


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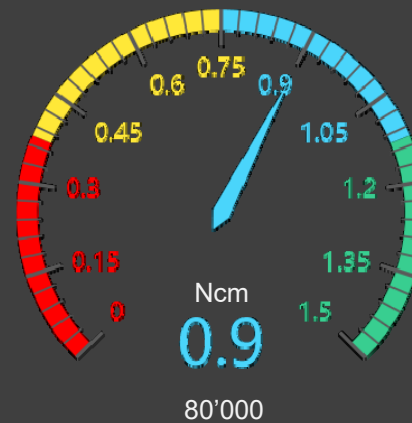


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Ø16 Comparison : *Torque at maximum speed*



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Competitor A



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Ø16 Comparison : Renaud – Competitor A

	Dimensions	Max speed Grease	Max speed Air-oil	Max power at max speed	Torque	Bearings
Renaud	Ø16h5	80'000 min-1		113 W	1.3 Ncm	2+2
Competitor A	Ø16h5 x 65		80'000 min-1	0.9 W	0.9 Ncm	1+1



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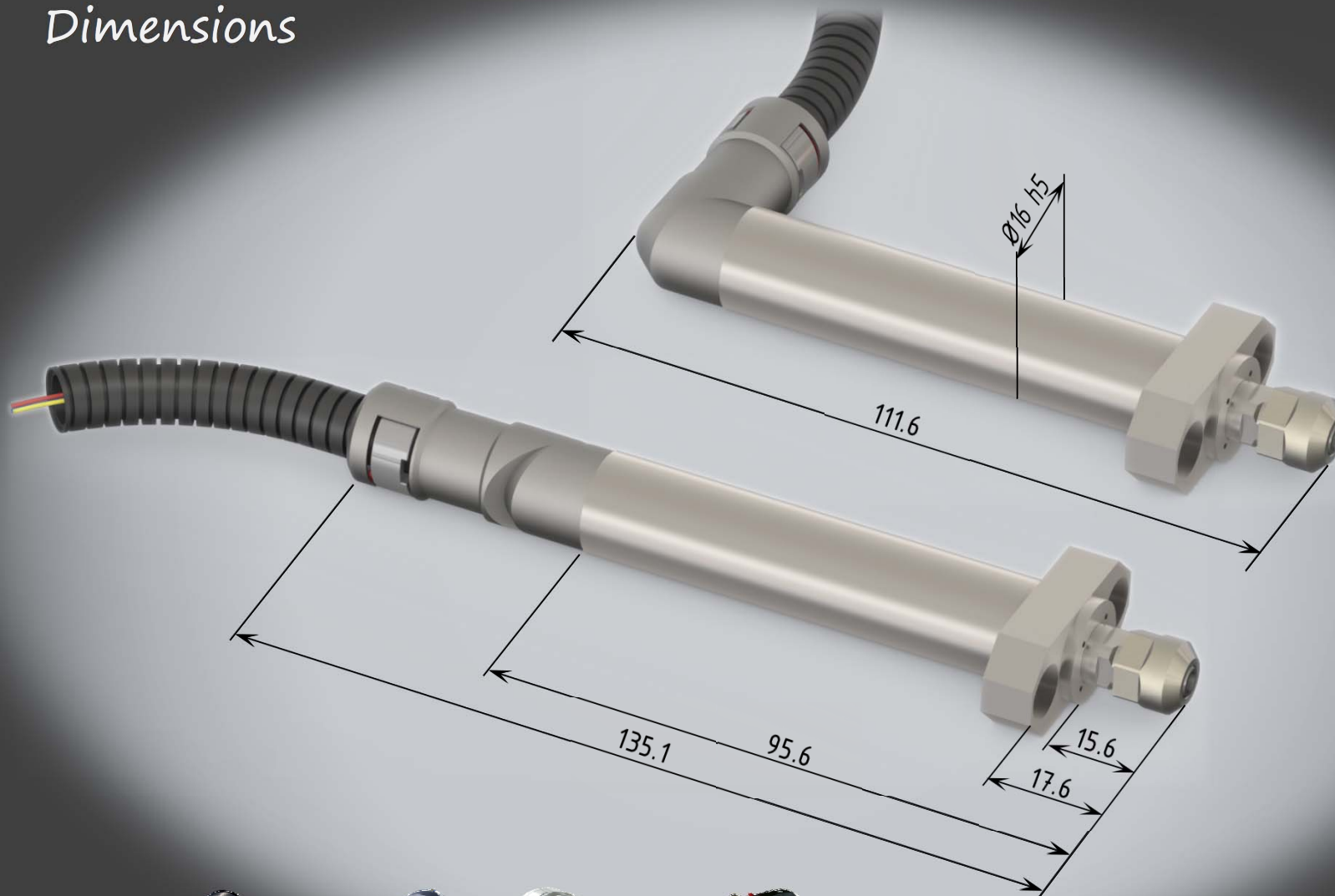


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Dimensions



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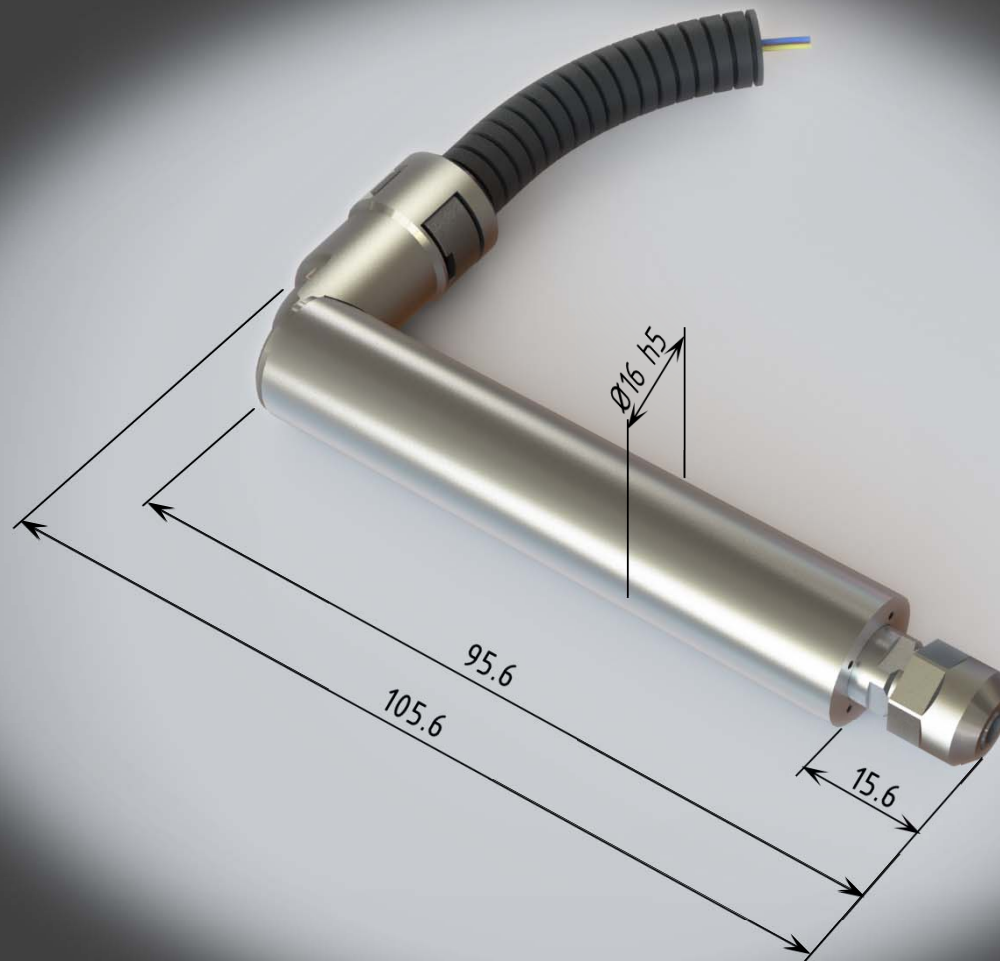


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Dimensions



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- ➔ Stainless steel
- ➔ Synchronous motor 80'000rpm
- ➔ 113W under constant load
- ➔ Air cooling system
- ➔ Hermetic casing encloses air and electrical circuit
- ➔ Patented rear coupling rotates from 0° to 90° or is fixed at 90°
- ➔ 4 ceramic bearings
- ➔ Power up by 25%



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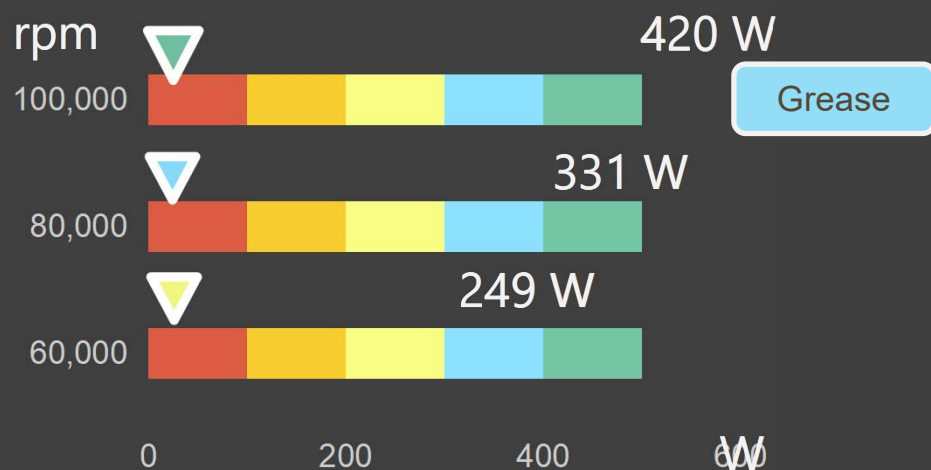
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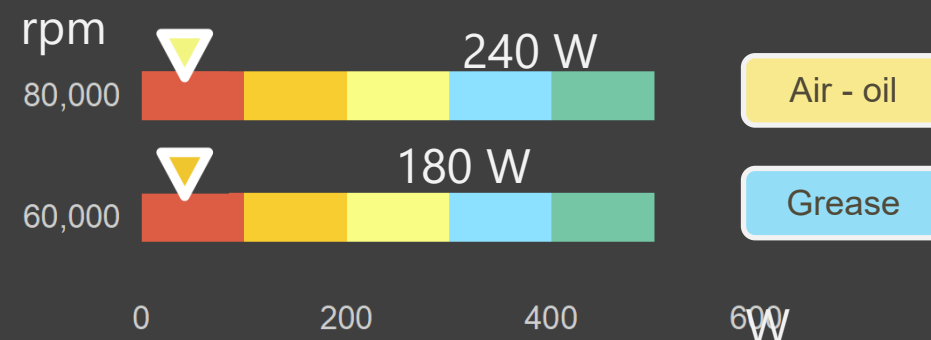
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Ø25 Comparison : *Power at maximum speed*

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Competitor A



Competitor B



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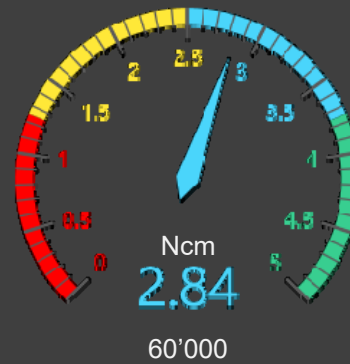


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Ø25 Comparison : *Torque at maximum speed*



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Competitor A



Competitor B



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Ø25 Comparison : Renaud – Competitor A – Competitor B

	Dimensions	Max speed Grease	Max speed Air - oil	Max power	Torque	Max power at max speed	Bearings
Renaud	Ø25h5x91.5	100'000 min-1		331 W à 80'000 249 W à 60'000	4 Ncm	420 W	2+2
Competitor A	Ø25h5x89.5	60'000 min-1	80'000 min-1	180 W	2.84 Ncm	240 W	2+1
Competitor B	Ø25h5x61.5	80'000 min-1	100'000 min-1	112 W	1.34 Ncm	140 W	1+1



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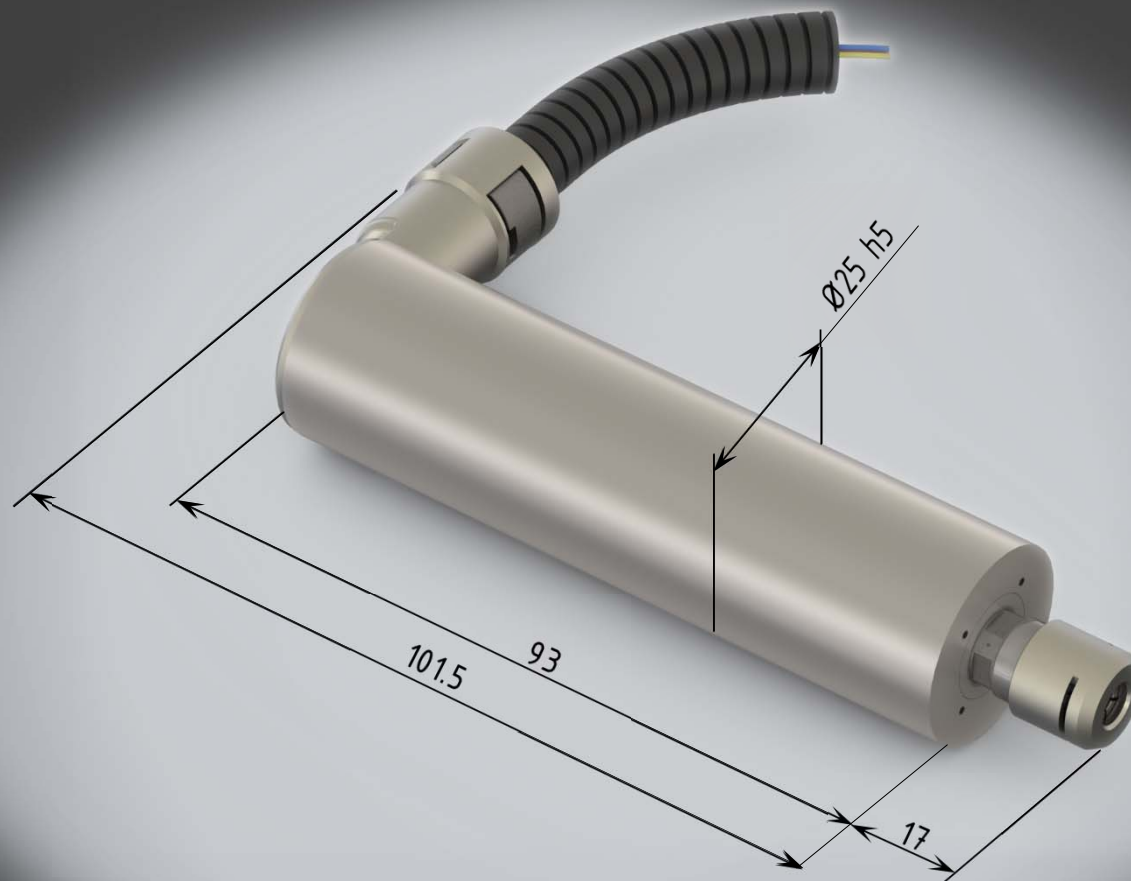


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*Dimension
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- ➔ Stainless steel
- ➔ Synchronous motor 80'000rpm
- ➔ 331W under constant load
- ➔ Air cooling system
- ➔ Hermetic casing encloses air and electrical circuit
- ➔ 4 ceramic bearings
- ➔ Power up by 38%



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Additional advantages

- Stator cooling does not flow through the bearings
- D collet as an option ; it prevents axial movements of the tool upon clamping → accuracy - enhancing
- Low voltage installation with elastic preload << >>, Competitor A <> > ; substantial increase in axial stiffness and load capacity, radial stiffness similar when assembling <> >
- In comparison with Competitor A, at 80'000 min⁻¹, no additional lubrication unit is needed → reduction of costs (purchase, operating, no lubrication supply)



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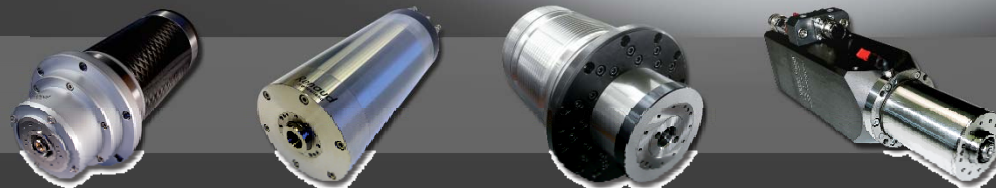
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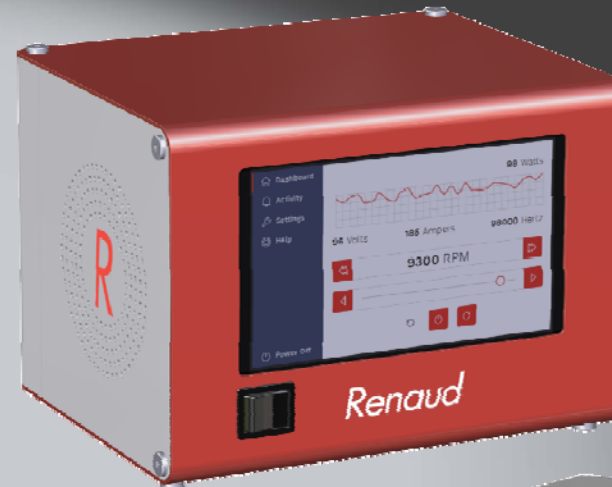


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- ➔ Micro-pc
- ➔ Ergonomic Interface
- ➔ Color touchscreen
- ➔ Ethernet
- ➔ Air presence sensor
- ➔ Detailed alerts–
Troubleshooting guide
- ➔ High frequency current
slicing(80kHz) – optimal
torque – ideal sinus curve ➔
minimum temperature
- ➔ Encoder input(sin,TTL, ...)



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- ➔ Built-in braking resistor
- ➔ Passive components → without a fan
- ➔ Built-in, touchscreen oscilloscope
- ➔ Selection of internal voltage (24 à 72 V)
- ➔ Detection of spindle parameters upon connection
- ➔ Easy to install
- ➔ Built-in or external



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