

MOTOR SPINDLES FOR CAD/CAM MACHINERY

Ø 33mm - 62mm

HF/HT motor spindles for CAD/CAM grinding, cutting and drilling application with state of the art motor technology.

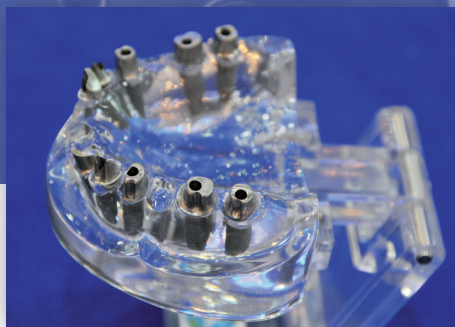
IBAG SilverEdition motor spindles have been developed for use on CAD/CAM machines in dental industries. Resulting with dramatically improved cutting efficiencies in medical and micro-manufacturing technologies.

IBAG spindles deliver the highest productivity and quality for all manufacturing processes, including finishing, grinding, micro-drilling, engraving and high speed cutting.

Typical applications include works on dental blanks made of wax, zirconium, steel, titanium or cobalt chrome. Models are available with maximum speed up to 80.000 RPM and a power of either 1.2 kW (uncooled) or 2.6 kW (watercooled).

IBAG CAD/CAM motor spindles are supplied as a complete package insuring the best high speed performance, installed on a new machine by the OEM, or as a retrofit on existing equipment.

The complete system includes the HF/HT motor spindle, supply unit, frequency converter and all necessary cables, tubes and connectors. All components have a two year warranty.



CAD/CAM MOTOR SPINDLES

Technical Specification

Many IBAG spindles use high-frequency AC motors. If higher power and torque are required, IBAG CAD/CAM motor spindles are also available with DC synchronous motor technology, providing the highest productivity and quality possible for finishing, grinding, micro-drilling, engraving and high speed milling.

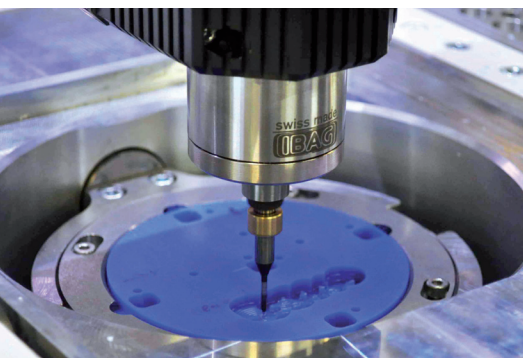
The spindle housing dimensions are optimized to fit on most dental CAD/CAM machines. The complete system provided by IBAG guarantees an easy, fast, „Plug & Go“ installation.

Type	Speed in RPM	Power S6 40% in W	Power S1 in W	Torque S1 in Ncm	Shaft Ø in mm	Ø / length in mm	Weight in kg
HF 33 D/S 60	80'000	260	200	3.5	0.5 - 5.0	33 / 162.0	0.700
HT 33 D/S 60	80'000	520	400	4.8	0.5 - 5.0	33 / 162.0	0.700
HF 33 A 50	60'000	260	200	3.5	1.0 - 4.0	33 / 171.4	0.900
HF 33 A 60	60'000	260	200	3.5	1.0 - 4.0	33 / 205.5	0.900
HF 45 S 60	60'000	975	750	11.9	0.5 - 7.0	45 / 185.1	1.3
HF 45 S 80	90'000	1'300*	1'000*	16.0	0.5 - 7.0	45 / 185.1	1.3
HF 45 A 50	80'000	975	750	8.9	3.0 - 6.35	45 / 235.5	2.3
HF 45 A 60	60'000	975	750	11.9	3.0 - 6.35	45 / 235.5	2.3
HF 62 A 60	60'000	2.6*	2.0*	0.33	1.0 - 8.0	61.9 / 249.5	4.4
HF 62 A 70	70'000	1.2	0.9	0.15	1.0 - 6.0	61.9 / 239.5	3.7
HF 62 A 70	70'000	2.0*	1.5*	0.25	1.0 - 6.0	61.9 / 239.5	3.7
HF 62 A 80	80'000	1.3*	1.0*	0.12	1.0 - 6.0	61.9 / 239.5	3.7

* spindle housing with water cooling

EQUIPMENT

- > Hybrid Ceramic Ball Bearings with Lifetime Grease Lubrication
- > 2, 3 or 4 Ball Bearings
- > Optional: Self Cleaning Collet System
- > Advanced Protection using Double Labyrinth Air Seal
- > Lowest Vibration < 1mm/s
- > Highest Accuracy < 1µm Run-Out
- > Tooling Interface with High Precision Collets. HF 33 A, HF 45 A and HF 62 A with Automatic Tool Change (ATC)
- > Shaft with Spring-Preload for Higher Axial Stiffness
- > Hardened and Ground Spindle Parts
- > All Rotating Parts Balanced < G1 at Maximum Speed
- > Electrical Equipment: 230V/115V, 1 phase, 50/60Hz, Internally Fused, Power Transformer on Request
- > Supplied Documentation includes Operation Manual, Maintenance Instructions and Complete Troubleshooting Guide



2 YEAR
WARRANTY
acc. IBAG GBC

COMPLETE SYSTEM

The complete system consists of:

HF/HT Motor Spindle > Supply Unit > Frequency Converter



SWITZERLAND

IBAG Switzerland AG
Oberfeldstrasse 20
CH-8302 Kloten

t. +41 43 888 33 33
f. +41 43 888 90 90
ibag@ibag.ch
www.ibag.ch

GERMANY

IBAG Deutschland GmbH
Schreinerweg 10
DE-51789 Lindlar

t. +49 2266 47 80 0
f. +49 2266 47 80 69
ibag@ibag-hsc.de
www.ibag-hsc.de

FRANCE

IBAG HSC Technology Sàrl
ZA du Sandholz
FR-67110 Niederbronn-les-Bains
t. +33 3 88 80 93 30
f. +33 3 88 80 38 37
ibag@ibag.fr
www.ibag.fr

CZECH REPUBLIC

IBAG CZ sro
ibag@ibag.cz
www.ibag.cz

SCANDINAVIA

IBAG Scandinavia AB
eva@ibag.se
www.ibag.se

USA

IBAG North America
80, Republic Drive
North Haven, CT 06473

t. +1 203 407 0397
f. +1 203 407 0516
sales@ibagna.com
www.ibagnorthamerica.com

CHINA

IBAG China
Unit 706, 7F, A Mansion
291 Fumin Road
CN-200031 Shanghai PRC
t. +86 21 5442 5827
f. +86 21 6170 1389
a.graf@ibag.ch
www.ibag.ch