

CATÁLOGO DE MOTORES SPINDLES
MANUAL TOOL CHANGE ELECTROSPINDLES



INOVAÇÃO + CONFIANÇA + RESPEITO

TECMAF

SUCESSO ATRAVÉS DE NOSSOS CLIENTES

Success through our customers

A TECMAF foi fundada em 1995. Trabalhando inicialmente com manutenção de Equipamentos de Alta Frequência, logo expandiu sua área de atuação, acompanhando o crescimento do setor industrial brasileiro nos segmentos de usinagem, fundição e caldeiraria.

Para oferecer novas soluções ao mercado, a TECMAF desenvolveu sua própria linha de produtos, tornando-se a primeira empresa brasileira a fabricar Spindles de Alta Frequência. Com a execução de grandes projetos e vários lançamentos nos últimos anos, vem percorrendo uma trajetória de crescimento constante e excelência nos serviços.

Em abril de 2009, a TECMAF conquistou a certificação ISO 9001, resultado do trabalho contínuo de seus colaboradores e parceiros para a melhoria do Sistema de Gestão da Qualidade e o aprimoramento de seus processos, produtos e serviços.

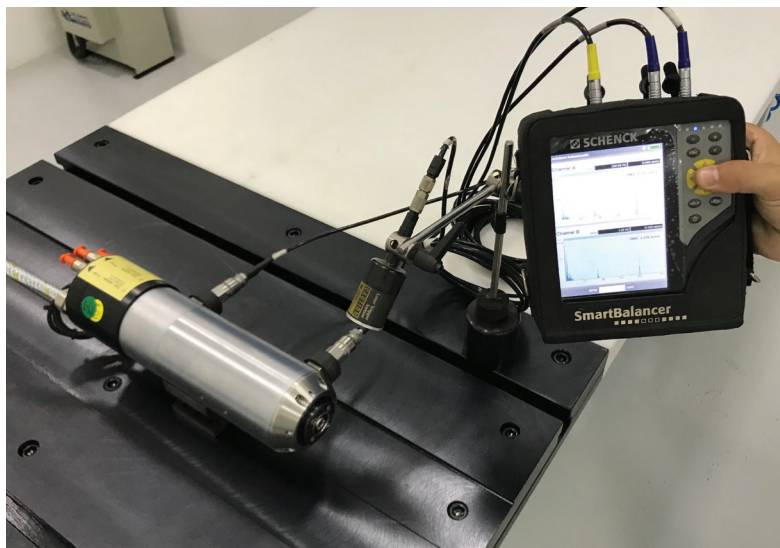
A empresa possui infraestrutura completa para prestar assistência técnica e atender ao mercado de reposição de peças. Em mais de 20 anos de história, a TECMAF conquistou solidez e confiabilidade que se estendem aos seus produtos e ao relacionamento com os clientes.

TECMAF was founded in 1995. Working initially with maintenance of High Frequency Equipment, it soon expanded its area of activity, following the growth of the Brazilian industrial sector in the machining, casting and boiler segments.

In order to offer new solutions to the market, TECMAF developed its own product line, becoming the first Brazilian company to manufacture High Frequency Spindles. With the execution of large projects and several launches in recent years, it has been following a path of constant growth and excellence in services.

In April 2009, TECMAF achieved the ISO 9001 certification, a result of the continuous work of its employees and partners to improve the Quality Management System and to improve its processes, products and services.

The company has complete infrastructure to provide technical assistance and to meet the parts replacement market. In more than 20 years of history, TECMAF has achieved solidity and reliability that extends to its products and customer relationships.



LABORATÓRIO DE MANUTENCAO EM SPINDLES

A TECMAF é especializada em manutenção de Spindles de Alta Rotação. Nosso Centro de Reparo de Spindles possui sala específica para montagem e testes em ambiente fechado e ultra limpo. Nossa equipe é formada por técnicos e engenheiros treinados e altamente capacitados para:

- Análise dos spindles
- Análise de vibração dos equipamentos (smart balancer)
- Análise e conferência das peças em mesa tridimensional
- Sistema power check
- Pré-carga dos rolamentos de precisão
- Montagem dinâmica térmica
- Balanceamento dinâmico
- Garantia de qualidade para manter as especificações de fábrica

Nossa estrutura possui salas de temperatura e umidade controladas para a montagem dos Spindles. Estes ambientes garantem que a poeira e contaminantes sejam mantidos fora de todo o processo de montagem.

Nossos serviços de manutenção seguem normas internacionais, onde oferecemos total garantia de qualidade para manter as especificações de fábrica.

MANUTENÇÃO EM TODAS AS MARCAS E MODELOS DE SPINDLES PARA MÁQUINAS CNC

Nosso Centro de Reparo de Spindles é apto para atender as mais variadas marcas e modelos de equipamentos utilizados em processos de usinagem de madeira, compósitos, plásticos e metais em geral:

- Inspeção e avaliação
- Análise de falhas especializadas
- Serviços de emergência para reparos urgentes

ALL MAKES AND MODELS OF SPINDLES FOR CNC MACHINES

Our Spindles Repair Center is able to meet the most varied brands and models of equipment used for machining wood, composites, plastics and metals.

- Inspection and evaluation
- Expert failure analysis
- Emergency services for urgent repairs



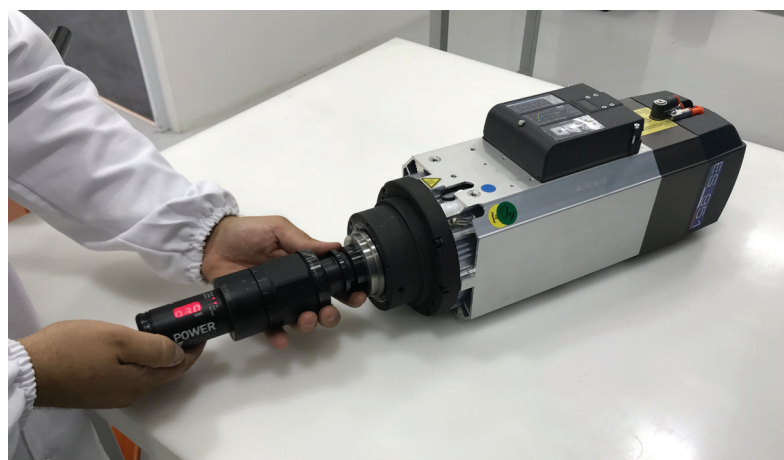
SPINDLES REPAIR SERVICES

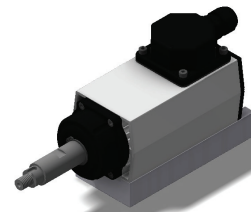
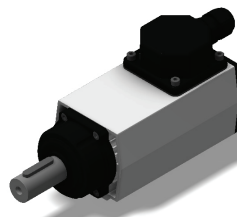
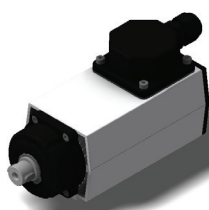
TECMAF is specialized in maintenance of High Speed Electric Spindles. Our Spindles Repair Center includes specific rooms for assembly and testing in enclosed and ultra clean environment and it's formed by highly skilled and trained technicians and engineers to:

- Spindles analysis
- Equipment vibration analysis (smart balancer)
- Power check system
- Preload in precision bearings
- Thermal dynamic assembly
- Dynamic balancing
- Quality assurance to maintain the factory specifications

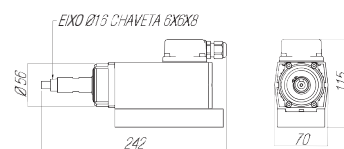
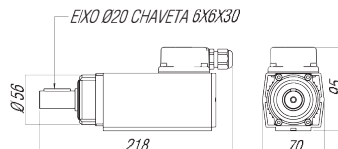
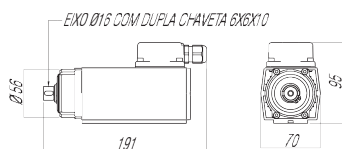
Our Spindles Repair Center includes a temperature and humidity controlled room. This environment ensures that the dust and contaminants are kept off the whole assembly process.

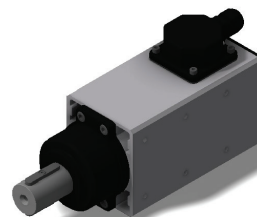
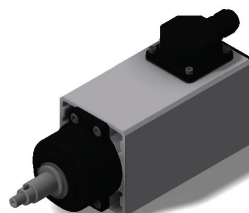
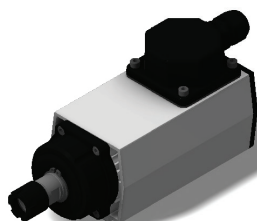
Our maintenance service is in accordance with international standards, where we offer total quality assurance to maintain the factory specifications.



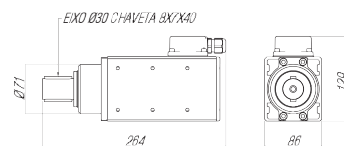
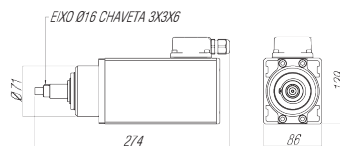
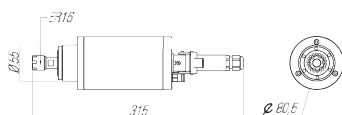
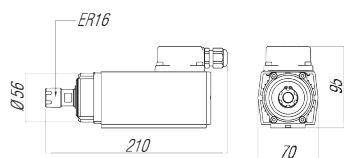


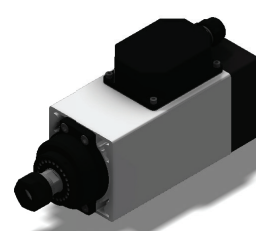
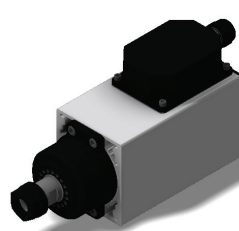
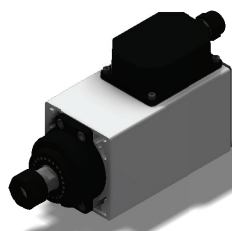
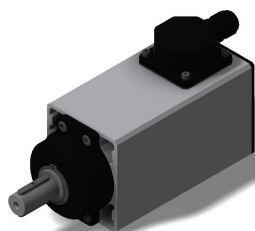
Modelo Model	TVS.1Z2E.12	TVS.1Z2E.17	TVS.1Z3E.18
Potência Nominal Rated Power	0,55 kW - 0,75 HP	0,55 kW - 0,75 HP	0,75 kW -1,0 HP
Fixação Ferramenta Taper	Ø16x13mm	Ø20x40mm	Ø16x9mm
Rotação Nominal Rated Speed	12000 RPM	12000 RPM	18000 RPM
Rotação Máxima Max Speed	12000 RPM	12000 RPM	18000 RPM
Frequência Nominal Rated Frequency	200 Hz	200 Hz	300 Hz
Tensão Nominal Rated Voltage	220 / 380 Volts	220 / 380 Volts	165 Volts
Corrente Nominal Rated Current	2,0 / 1,3 Amp	2,0 / 1,3 Amp	2,0 Amp
Refrigeração Cooling	Ventoinha Shaft Driven Fan	Ventoinha Shaft Driven Fan	Ventoinha Shaft Driven Fan
Peso Weighth	~ 2,1 kg	~ 2,1 kg	~ 2,3 kg



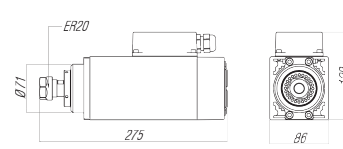
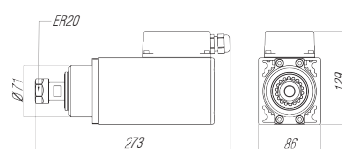
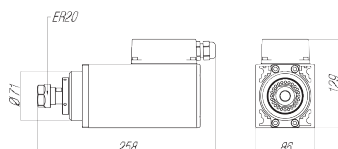
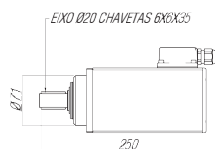


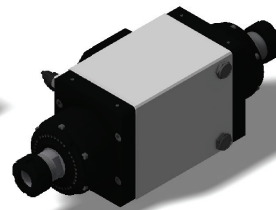
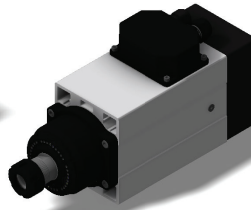
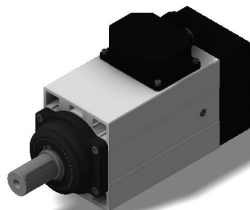
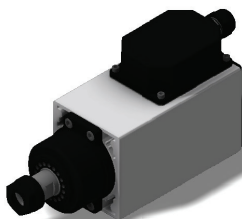
TVS.1Z3M.12	TLO.1Z3M.01	TVS.2Z2E.08	TVS.2Z2E.09
0,75 kW -1,0 HP	0,9 kW -1,2 HP	1,5 kW -2,0 HP	1,5 kW -2,0 HP
ER-16	ER-16	Ø16x9mm	Ø30x45mm
18000 RPM	18000 RPM	12000 RPM	12000 RPM
18000 RPM	24000 RPM	12000 RPM	12000 RPM
300 Hz	300 Hz	200 Hz	200 Hz
220 / 380 Volts	220 ou 380 Volts 220 or 380 Volts	220 / 380 Volts	220 / 380 Volts
3,5 / 2,0 Amp	3,8 / 2,1 Amp	5,3 / 3,1 Amp	5,3 / 3,1 Amp
Ventoinha Shaft Driven Fan	Líquida Liquid	Ventoinha Shaft Driven Fan	Ventoinha Shaft Driven Fan
~ 2,3 kg	~ 2,5 kg	~ 5,4 kg	~ 5,4 kg



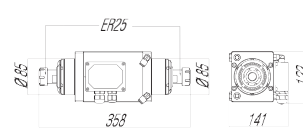
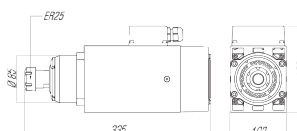
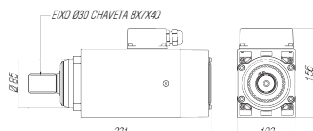
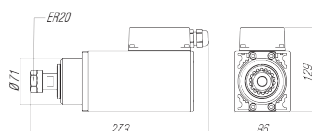


TVS.2Z2E.10	TVS.3Z3M.10	TVS.3Z3M.02	TFS.3Z3M.01
1,5 kW -2,0 HP	2,2 kW -3,0 HP	2,2 kW -3,0 HP	2,2 kW -3,0 HP
Ø20x40mm	ER-20	ER-20	ER-20
12000 RPM	18000 RPM	18000 RPM	18000 RPM
12000 RPM	18000 RPM	18000 RPM	18000 RPM
200 Hz	300 Hz	300 Hz	300 Hz
220 / 380 Volts	220 / 380 Volts	220 / 380 Volts	220 / 380 Volts
5,3 / 3,1 Amp	6,2 / 4,0 Amp	6,2 / 4,0 Amp	6,2 / 4,0 Amp
Ventoinha Shaft Driven Fan	Ventoinha Shaft Driven Fan	Ventoinha Shaft Driven Fan	Ventoinha Elétrica Electric Fan
~ 4,7 kg	~ 5,0 kg	~ 5,8 kg	~ 5,1 kg





TVS.3A3M.02	TFS.4Z2E.02	TFS.4A3M.05	TAC.4A3M.03-DS
2,2 kW -3,0 HP	3,0 kW -4,0 HP	3,0 kW -4,0 HP	3,0 kW -4,0 HP
ER-20	Ø30x50mm	ER-25	ER-25 (2X)
18000 RPM	12000 RPM	18000 RPM	18000 RPM
24000 RPM	12000 RPM	24000 RPM	24000 RPM
300 Hz / 400 Hz	200 Hz	300 Hz / 400 Hz	300 Hz / 400 Hz
220 / 380 Volts	220 / 380 Volts	220 / 380 Volts	220 / 380 Volts
6,2 / 4,0 Amp	7,1 / 4,1 Amp	10,7 / 6,2 Amp	10,7 / 6,2 Amp
Ventoinha Shaft Driven Fan	Ventoinha Elétrica Electric Fan	Ventoinha Elétrica Electric Fan	Ar Comprimido Compressed Air
~ 5,8 kg	~ 9,0 kg	~ 9,4 kg	~ 12,5 kg





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