

**FISCHER PRECISE USA, Inc.**

3715 Blue River Avenue  
 Racine, WI 53405

Tel: (262) 632-6173; Fax: (262) 632-6730

**HIGH-FREQUENCY FISCHER Spindle FEZP-145x145**

- Fitting set for grease lubrication
- Bearings designed for maximum load and speed
- Compact and high-powered
- Ultimate precision
- For high-speed cutting (HSC) on machine tools and machining centres

**TYPE:** FEZP-145x145  
**RPM:** 24'000  
**POWER:** 12.5 kW (16.75 HP)  
**LUBRICATION:** Grease  
**BEARINGS:** Hybrid bearings

Pos.	Article No.	Description
10	1013xx	<b>FISCHER Spindle FEZP-145x145</b>

**1.1 Data for HF FISCHER Spindle FEZP-145x145**

Acc.to drawing no.:	001-085		
Housing dimension:	<b>190 X 190mm</b>		
Weight	40kg +/- 5%		
Front bearing type:	3x hybrid Ø 55		
Rear bearing type:	2x hybrid Ø 45		
Rotation:	Right and left hand		
Working position:	vertical and horizontal		
Lubrication:	Grease		
Speed max.:	24'000 min-1		
Motor data:	4 poles		
n(min-1):	8'650 -	16'400-	23'700
f(Hz):	300 -	550 -	800
U (V):	212 -	380 -	380
<b>P (kW):</b>	<b>11 -</b>	<b>11 -</b>	<b>11 (14.74 HP)</b>
I (A):	45 -	30 -	27,5
M (Nm):	12.1 -	6.4 -	4.4
<b>P (kW) ts=2min.:</b>	<b>12.5 -</b>	<b>12.5 -</b>	<b>12.5 (16.75 HP)</b>
<b>I (A) ts= 2min.:</b>	50 -	32 -	29.5
<b>M (Nm)ts=2min.:</b>	13.8 -	7.2 -	5

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Cooling system:	Liquid cooling, "coolant-F" (Motorex) required filtration <0.150mm
Process cooling	coolant/air, max. 6 bar
Taper:	HSK-F63
Taper blow out:	By air 5 bar
Front seal:	By air curtain P2 2-3 bar
Cylinder:	pneumatic, 6 bar min.
Clamping system:	Type Ott for cooling lubricant/air
Tool detection:	PNP sensor-control
	S1 spindle speed detection
	S2 tool released
	S3 clamped without tool
	S4 tool clamped

**1.1 Data for HF FISCHER Spindle FEZP-145x145**

Standard access:	2 Legris-connections	Ø 10, cooling
	2 Legris-connections	Ø 10, cylinder
	1 Legris-connection	Ø 8, nozzles
	1 Legris-connection	Ø 8, air curtain
	1 Legris-connections	Ø 6, taper blowout
	3 El. Power cable, L=2m,	(motor shielded)
	1 cable, L=2m,	(earthing)
	1 cable for sensors (motor PTC)	
	1 cable for sensors (S1-S4)	
Operat.instruction:	FEZP-145x145, 101464	
Packed:	Wooden box FEZP-145x145	

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RACINE / WISCONSIN

