

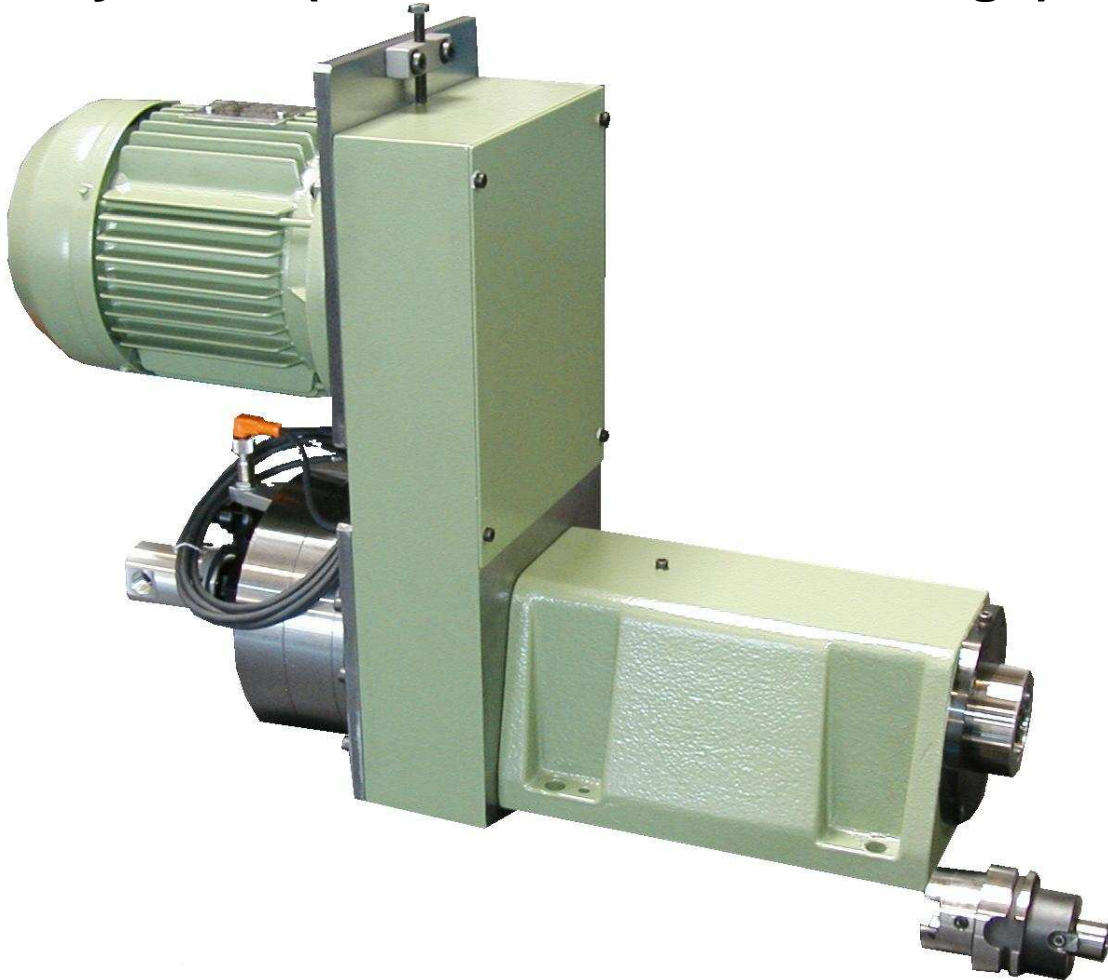


HAGEN & GOEBEL

Werkzeugmaschinen GmbH

Unit - Sample HG – 829

Spindle unit type BF 4 for tooling system HSK-A size 63 and pneumatic tool unclamp cylinder (for automatic tool change)



Spindle unit type BF 4

Motor:	3 phases norm motor 400Volt / 50Hz, motor power up to 5,5 KW, 3.000 rpm
Spindle bearing:	2 set high precision spindle bearing in front, i.D. 60 mm 1 set high precision spindle bearing in rear, i.D. 50 mm
Protection:	Labyrinth collar with air protection
Spindle nose:	HSK-A size 63 in connection with pneumatic tool unclamp cylinder. Tool clamp will be realised by disc spring system. Clamp and unclamp position will be checked by sensor
Coolant:	modified for inner coolant system (coolant through spindle)
Motor fixture:	in Z – or U – fixture
Belt system:	teeth power belt, exchangeable
Ratio:	between $i = 2 : 1$ into faster or slower speed
Mounting pos.:	horizontal or vertical spindle nose to floor

other specifications possible

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