Sensata Technologies

KHM5 - KHK5 - KHO5

58MM SOLID - BLIND - HOLLOW SHAFT INCREMENTAL ENCODERS WITH COMMUTATION TRACKS

Features

Based on a proven solid and reliable mechanical and electrical platform, this product series was designed and built for reliability and robustness. Electrical protection is built-in to reduce "first installation" errors. Mechanically, the high precision sealed bearings were chosen for long life, even in harsh conditions. And the product is tested and rated to perform from -40° to 100°C. Standard commutation options go as high as 16 pole pairs to handle a range of commutation requirements. This is an excellent 58MM encoder for general use in heavy duty industrial environments.



Features

KH_5 Rotary Incremental Encoder:

- Robust and excellent resistance to shocks / vibrations
- High Protection Level IP65, IP67 Option with a Sealing Flange
- High Resolutions Available: Up to 500 000 ppr
- · Commutation channels up to 16 pole pairs
- Universal Electronic Circuits from 4.75 to 30 Vdc
- High Performance in Temperatures -40°C to 100°C
- High bandwidth: Up to 1MHz

Applications

- Industrial automation
- Automated guided vehicles
- Mills for lumber, steel & other metals
- Printing & packaging equipment
- Food processing equipment
- Forming & die presses

SPECIFICATIONS

Mechanical

		KHM5	KHK5	KH05				
Material		Cover: Zinc Alloy Body: Aluminium Shaft: Stainless Steel						
Bearings		6000 Series	6803	Series				
Maximum Loads	Axial	50 N	20 N					
	Radial	100 N	50 N					
Shaft inertia		2,5.10 ⁻⁶ kg.m ² (10mm)	2,9.10 ⁻⁶ kg.m ² (14mm)	3,2.10 ⁻⁶ kg.m ² (14mm)				
Torque		4.10 ⁻³ N.m	16.10 ⁻³ N.m	20.10 ⁻³ N.m				
Permissible Max. S	peed	12 000 min ⁻¹	6 000 min ⁻¹					
Continuous Max. Sp	peed	10 000 min ⁻¹	6 000 min ⁻¹					
Encoder Weight (Ap	oprox.)	0,300 kg						
Theoretical Mecha	nical Lifetime(F _{axial} / F _{radial})	26 X10 ⁹ turns	26 X10 ⁹ turns >36 X10 ⁹ turns					

Electrical

Ver.	Output Signals	Operating Voltage +V	Supply Current (no loads)	Current per Channel Pair	Short Circuit Proof	Reverse Polarity Tolerant	Frequency Capability	Resolutions category ⁽¹⁾	Operating Temperature Range ⁽²⁾⁽³⁾	
RG5	HTL	4,75-30V	<75mA	<40mA	Yes	Yes	Up to 1MHz	Standard	-40°C +100°C	
								Low		
RP5	HTL	4,75-30V	<75mA	<40mA	Yes	Yes	Up to 1MHz	Programmable	-40°C +100°C	
			75 4	<40mA				Standard	1000 10000	
2G2	262	TTL 5V ± 5%	5V ± 5% <75mA		Yes	Yes	Up to 1MHz	Low	-40°C +100°C	

⁽¹⁾See resolutions section for details.

⁽²⁾ Surface encoder temperature.
 ⁽³⁾ UL Listed: -20°C +80°C. Device must be supplied by a Class 2, LPS or SELV limited energy source 250mA.

Environmental

Shocks (EN 60068-2-27)	\leq 500 m.s ⁻² (during 6 ms)
Vibrations (EN 60068-2-6)	\leq 200 m.s ⁻² (102 000Hz))
EMC	EN 61000-6-2, EN 61000-6-4
Isolation	1 000V eff
Operating Temperature	See Electrical table above
Storage Temperature	- 40° + 100°C
Protection (EN 60529)	IP 65
Humidity	98% RH non-condensing at 20 °C



STANDARD CONNECTIONS

		-	+	Α	В	Z	A /	B/	Z/	U	V	W	U/	V/	W/	Ground
KN	PVC cable 16 wires	WH (White)	BN (Brown)	GN (Green)	YE (Yellow)	GY (Gray)	OR (Orange)	BU (Blue)	RD (Red)	WH-GN (White- Green)	WH-YE (White- Yellow)	WH-BK (White- Black)	WH-OR (White- Orange)	WH-RD (White- Red)	WH-BN (White- Brown)	General shielding



Standard resolutions:

- Incremental channels (AA/ BB/ ZZ/): 1000, 1024, 2000, 2048, 2500, 4000, 4096, 5000, 10000
- Commutation tracks (UU/ VV/ WW/): 4 poles pair

Low resolutions⁽⁴⁾: (not found in the Standard resolutions range):

- Incremental channels (AA/ BB/ ZZ/): any resolution within the 1-2500ppr range.
- Commutation tracks (UU/ VV/ WW/): 1 to 16 poles pair

Programmable resolutions ⁽⁴⁾ (RP5 electronics):

Incremental channels (AA/ BB/): from 1 to 10kppr

Index tracks ZZ/:

Standard index tracks configuration (EPROG in ordering key) Alternate index tracks configuration (XPROG in ordering key)

Commutation tracks (UU/ VV/ WW/): 1 to 16 poles pairs

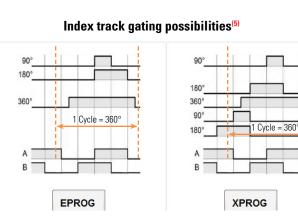
Direction:

A before B with U before V before W

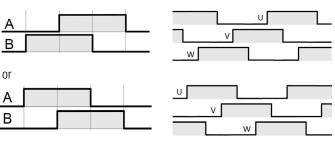
B before A with W before V before U

RP5 electronics can be configured with the programming tool P/N EAP-001

(ordered separately). Programming procedure available in Instruction Manual.



Directions Possibilities⁽⁵⁾



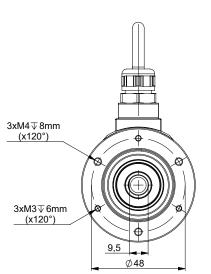
⁽⁴⁾Signal tolerances available in Instructions Manual

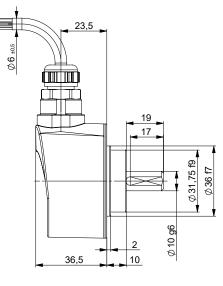
⁽⁵⁾ Signals are shown for CW rotation when viewed from the face side of the encoder

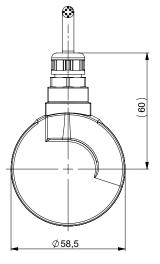
DIMENSIONS

All dimensions are in millimeters.

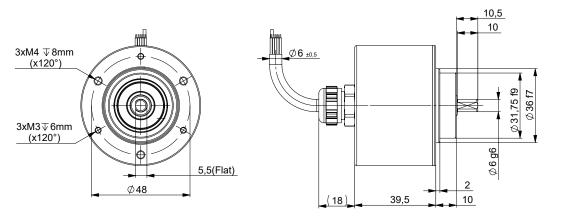
KHM5_10 Connection KNR (Radial cable)

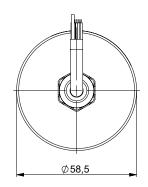




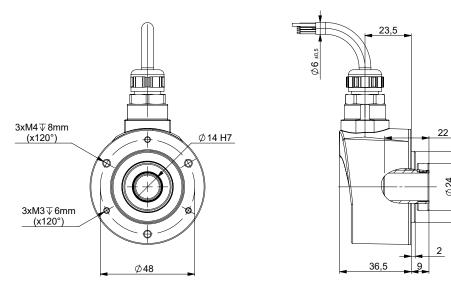


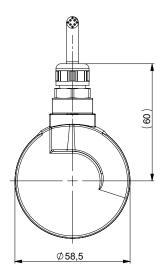
KHM5_06 Connection KNA (Axial cable)





KHK5_14 Connection KNR (Radial cable)



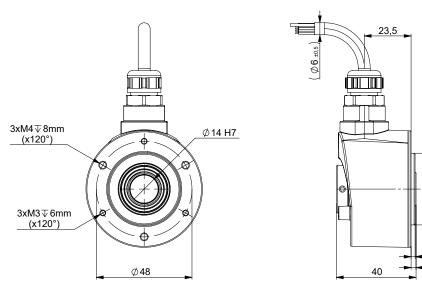


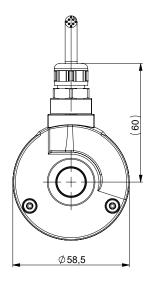
KH05_14 standard clamping, Connection KNR (Radial cable)

φ24 φ36 f9

Ø 36 f9

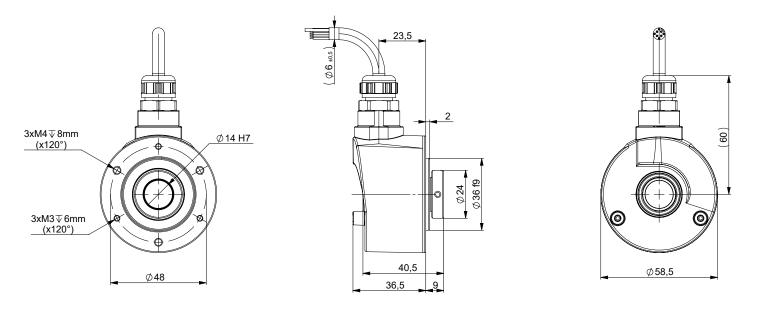
2 2,5





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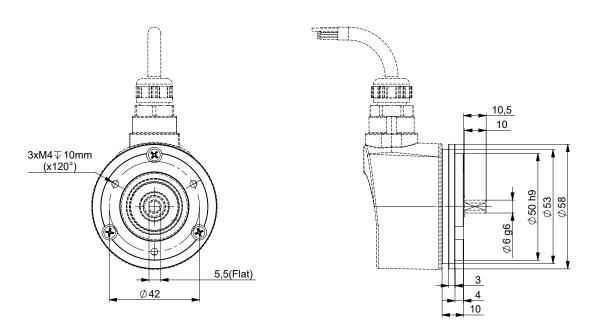
KH05S14/OM/ Flange side clamping, Connection KNR (Radial cable)



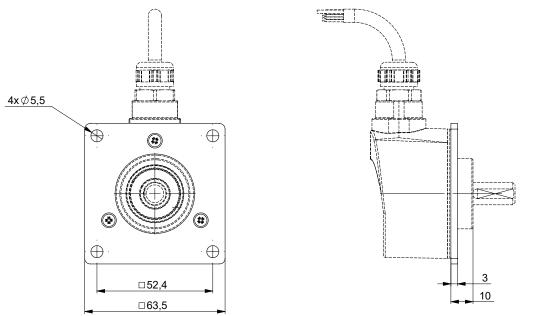
FLANGE AND COUPLING INTERFACES

The flange or coupling configurations can be defined in the ordering options. Selections are installed on the encoder at the factory. Flange or coupling kits can also be ordered separately (see Accessories section).

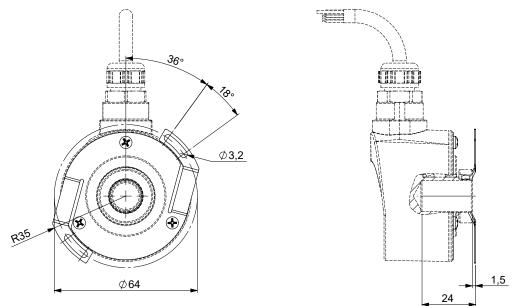
KHM5_06 Connection KNR (Radial cable), flange 9500/003 mounted on the body



KHM5_10 Connection KNR (Radial cable), flange 9500/005 mounted on the body

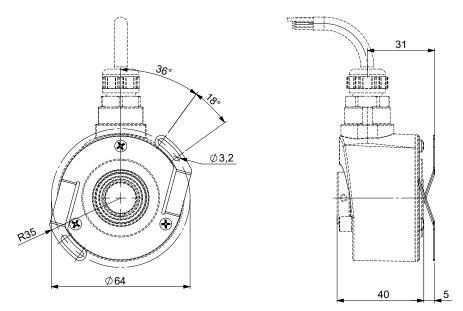


KHK5_14 Connection KNR (Radial cable), coupling 9445/016 mounted on the body

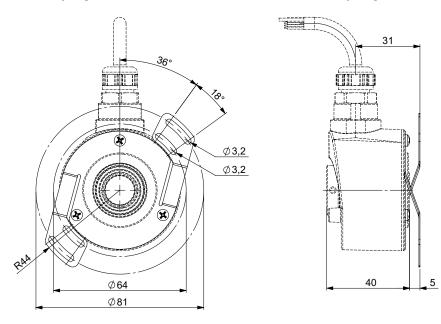


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KH05_14 Standard clamping, Connection KNR (Radial Cable), coupling 9445/012 mounted on the body

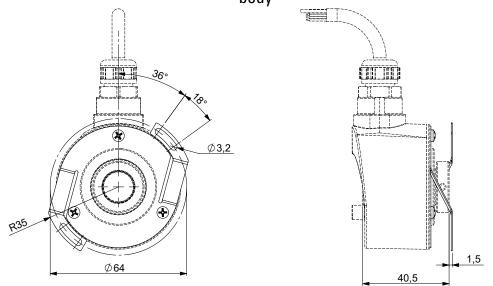


KH05_14 Standard clamping, Connection KNR (Radial Cable), coupling 9445/015 mounted on the body

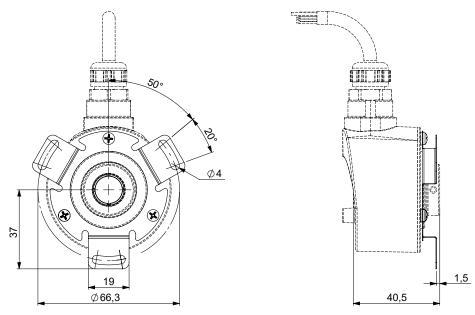


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KH05S14/OM/ Flange side clamping, Connection KNR (Radial cable), coupling 9445/016 mounted on the body



KH05E4 Flange side clamping, Connection KNR (Radial cable), coupling 9445/068 mounted on the body



Note: 9445/068 coupling is available for replacing the previous HS22 model.



For an optimized installation meeting industrial standards, refer to the Installation Manual. The Installation Manual provides the technical information (drawings, electrical data, etc...) for a proper integration.





Family Image: Selection of the sector in the s		KH05 14	/	2G2	L//	01024	K4 //	KN	R	020 /	DOD9**
NHKK: Gindo Sheft Funder Image: Sheft Sheet Autor Image: Sheft Sh	Family										
KHMS KHMS of KHO2: Image: Comparing the second of the	KHK5: Blind Shaft I	Encoder									
KHMS KHMS of VADE: Image: Comparing the	Shaft Size —										
098. 83.2 mm 12.12 mm		KHK5 or KHO5:									
Mechanical Option Image of the option Image of the option Image of the option We Reare side champing Image of the option Image of the option Image of the option Image of the option Voltage Output Image of the option Signals Image of the option Signals of the option Image of the option	09: 9.52 mm 10: 10 mm	12: 12 mm 14: 14 mm 15: 15mm (Option) E2: 1/4" (6.35 mm) E3: 3/8" (9.52 mm)									
Blank: No option MR: Plange side champing MR: Plange side champing MR: Plange side champing Voltage Output MR: Plange side champing MR: Plange sid	Contact factory for	other configurations									
OM: Flange side clamping Image side clamping Image side clamping Image side clamping Voltage Output Image side clamping Image side clamping Image side clamping Image side clamping Voltage Output Image side clamping Image side clamping Image side clamping Image side clamping Voltage Output Image side clamping Image side clamping Image side clamping Image side clamping Voltage Output Voltage Side clamping Image side clamping Image side clamping Image side clamping Voltage Output Voltage Side clamping Image side clamping Image side clamping Image side clamping Voltage Side Clamping Image side clamping Image side clamping Image side clamping Image side clamping Voltage Side Clamping Image side clamping Image side clamping Image side clamping Image side clamping Voltage Voltag	Mechanical Op	tion									
282: SV TIL MSX: A7-330V HIL PRSX: A7-30V HIL PRSX: A7-3		amping									
RBS: 47:530V HTL RPS: 47:530V HTL <td< td=""><td>Voltage Output</td><th></th><td></td><th></th><td></td><td></td><th></th><td></td><td></td><td></td><td></td></td<>	Voltage Output										
To fail configurations AA/ BB/ ZZ / & UU/ VW/ WW/ signals are referenced to CW ritation when viewed from the face side of the encoder G/C Be before A. W before V before U. 2 gated with A&B high G/US: B before A. W before V before U. 2 gated with A&B high C/US: A before B. U before V before W. 2 gated with A&B high P/E before A. U before V before W. 2 gated with A&B high V/US: B before A. U before V before W. 2 gated with A&B high C/US: B before A. U before V before U. 2 gated with A&B high P/E before A. U before V before W. 2 gated with A&B high P/E before A. U before V before U. 2 gated with A&B high P/E before A. U before V before U. 2 gated with A&B high P/E before A. U before V before U. 2 gated with ABB low V/R B before A. W before V before U. 2 gated with ABB low V/R B before A. W before V before U. 2 gated with ABB low P/E before A. W before V before U. 2 gated with Bow (for replacing the previous HS22 model) X/P expansible channels (RPS electronics) Cycles / Turn Eener Cycles Standard and low resolutions. See available resolutions' section. EPROG: Full programmable 1-10kpr (standard index tracks configurations). XFPOG cable Commutation Tracks KI to KIB: 10 foplose pairs (K4 = 4 pole pairs = 8 pole motor) See possibilities in "Resolutions' section. Contact factory for other pole pair configurations. Output Termination Re Radial (All configurations) A: Avail (KHMS and KHS only) Cable Length A: Avail (KHS and KHS only) Cable Length A: Avail (KHS and KHS only) Cable Length S: Avail (KHS And A KHS Only) Cable Length S: Avail	RG5: 4.75-30V HTL	Programmable									
rotation when viewed from the face side of the encoder G/R B before A, W before V before U, 2 gated with A&B Bigh G/US/: B before A, W before V before W, 2 gated with A&B Bow L/C A before B, U before V before W, 2 gated with A&B Bow L/C A before B, U before V before W, 2 gated with A&B bow P/R B before A, U before V before W, 2 gated with A&B bow P/R B before A, U before V before U, 2 gated with A&B bow P/R B before A, U before V before U, 2 gated with A&B bow P/R B before A, W before V before U, 2 gated with B Bigh P/WS: B before A, W before V before U, 2 gated with B Bigh P/WS: B before A, W before V before U, 2 gated with B Bigh P/WS: B before A, W before V before U, 2 gated with B Bigh P/WS: B before A, W before V before U, 2 gated with B Bigh P/WS: B before A, W before V before U, 2 gated with A&B Bow P/R B before A, W before V before U, 2 gated with B Bow P/R B before A, W before V before U, 2 gated with B Bow P/R B before A, W before V before U, 2 gated with B Bow P/R B before A, W before V before U, 2 gated with B Bow P/R B before A, W before V before U, 2 gated with B Bow P/R B before A, W before V before U, 2 gated with B Bow P/R B before A, W before V before U, 2 gated with B Bow P/R B before A, W before V before U, 2 gated with B Bow P/R B before A, W before V before U, 2 gated with B Bow P/R B before A, W before V before U, 2 gated with B Bow P/R B before A, W before V before U, 2 gated with B Bow P/R B before A, W before V before U, 2 gated with B Bow P/R B before A, W before V before U, 2 gated with B Bow P/R Before H I topper paire Configurations. P/R Before H I topper paire A, W before V	Signals										
Cycles / Turn (Enter Cycles) Standard and low resolutions. See available resolutions in "Resolutions" section. EPROG: Full programmable 1-10kprg (standard index tracks configurations). Commutation Tracks Commutation Tracks Commutation Section. See possibilities in "Resolutions" section. Conter tracks of the poles pairs (K4 = 4 pole pairs = 8 pole motor) See possibilities in "Resolutions" section. Contract factory for other pole pair configurations. Output Termination KN: PVC cable Output Orientation Se Radial (All configurations) A: Xial (KHMS and KHKS only) Cable Length Xx:: Cable Length (ax: 020 = 2 Meters) Accessories Dot***: KH05 with aluminum reduction sleeve Dp****: KH05 With insulated reduction sleeve Dp****: KH05 With insulated reduction sleeve ************************************	L//: A before B, U b L/US/: A before B, I P//: B before A, U b P/US/: B before A, Y//: B before A, W I Y/US/: B before A,	efore V before W, Z gated wit J before V before W, Z gated efore V before W, Z gated wi U before V before W, Z gated before V before U, Z gated wi W before V before U, Z gated	h A&B high with A&B low th A&B high with A&B low th B high	replacing the p	previous HS22	2 model)					
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Commutation Tracks K1 to K16: 1 to 16 poles pairs (K4 = 4 pole pairs = 8 pole motor) See possibilities in "Resolutions" section. Contact factory for other pole pair configurations. Output Termination KN: PVC cable Output Orientation R: Radial (All configurations) A: Axial (KHM5 and KHK5 only) Cable Length xxx: Cable Length (ex.: 020 = 2 Metrs) Accessories D0****: KH05 with aluminum reduction sleeve D1****: KH05 with aluminum reduction sleeve ***D5***: 9445/015 KH05 Stator coupling ***D5**: 9445/015 KH05 Stator coupling ***D0**: 9445/015 KH05 Stator coupling ***D4**: 9445/015 KH05 Stator coupling ***D5**: 9445/016 KHK5 & KH05/OM/ Stator coupling ***D6**: 9445/016 KHK5 & KH05/OM/ Stator coupling ***D6**: 9445/016 KHK5 & KH05/OM/ Stator coupling	(Enter Cycles) Sta EPROG: Full progra	mmable 1-10kppr (standard i	ndex tracks conf	igurations).	solutions" sec	tion.					
See possibilities in "Resolutions" section. Contact factory for other pole pair configurations. Output Termination		••									
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Output Orientation R: Radial (All configurations) A: Axial (KHM5 and KHK5 only) Ai (KHM5 and KHK5 only) Cable Length xxx: Cable Length (ex.: 020 = 2 Meters) Accessories Do****: KH05 with aluminum reduction sleeve D0****: KH05 with aluminum reduction sleeve Sinther Sinther Sinther Sinther Sinther Coupling **D5**: 9445/015 KH05 Stator coupling **D5**: 9445/015 KH05 Stator coupling (for replacing previous HS22 model) **DK**: 9445/016 KHK5 & KH05/OM/ Stator coupling **03**: 9500/003 Synchro flange	Output Termina	tion									
R: Aadial (All configurations) A: Axial (KHM5 and KHK5 only) Cable Length xxx: Cable Length (ex.: 020 = 2 Meters) Accessories D0****: KH05 with aluminum reduction sleeve D1****: KH05 with aluminum reduction sleeve D2****: KHK5 with aluminum reduction sleeve **DS**: 9445/012 KH05 Stator coupling **DD**: 9445/015 KH05 Stator coupling **D9**: 9445/068 KH05 stator coupling **D9**: 9445/016 KHK5 & KH05/OM/ Stator coupling **D8**: 9445/016 KHK5 & KH05/OM/ Stator coupling **O8**: 9445/016 KHK5 & KH05/OM/ Stator coupling **03**: 9500/003 Synchro flange	KN: PVC cable										
A: Axial (KHM5 and KHK5 only) Cable Length xxx: Cable Length (ex.: 020 = 2 Meters) Accessories D0****: KH05 with aluminum reduction sleeve D1****: KH05 with insulated reduction sleeve D2****: KH05 with aluminum reduction sleeve **DS**: 9445/012 KH05 Stator coupling **DD**: 9445/015 KH05 Stator coupling **D9**: 9445/016 KHK5 & KH05/OM/ Stator coupling **D8**: 9445/016 KHK5 & KH05/OM/ Stator coupling **O3**: 9500/003 Synchro flange	Output Orientat	ion									
xxx: Cable Length (ex.: 020 = 2 Meters) Accessories D0****: KH05 with aluminum reduction sleeve D1****: KH05 with insulated reduction sleeve 22****: KHK5 with aluminum reduction sleeve **DS**: 9445/012 KH05 Stator coupling **DD**: 9445/015 KH05 Stator coupling **D9**: 9445/016 KH05 stator coupling (for replacing previous HS22 model) **DK**: 9445/016 KHK5 & KH05/OM/ Stator coupling **03**: 9500/003 Synchro flange											
Accessories D0****: KH05 with aluminum reduction sleeve D1****: KH05 with insulated reduction sleeve D2****: KHK5 with aluminum reduction sleeve **DS**: 9445/012 KH05 Stator coupling **DD**: 9445/012 KH05 Stator coupling **D9**: 9445/068 KH05 stator coupling (for replacing previous HS22 model) **DK**: 9445/016 KHK5 & KH05/OM/ Stator coupling **03**: 9500/003 Synchro flange	Cable Length										
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D1****: KH05 with insulated reduction sleeve D2****: KHK5 with aluminum reduction sleeve **DS**: 9445/012 KH05 Stator coupling **DD**: 9445/015 KH05 Stator coupling **D9**: 9445/068 KH05 stator coupling (for replacing previous HS22 model) **DK**: 9445/016 KHK5 & KH05/OM/ Stator coupling **03**: 9500/003 Synchro flange	Accessories										
05: 9500/005 Square flange	D1****: KH05 with D2****: KHK5 with **DS**: 9445/012 **DD**: 9445/015 **D9**: 9445/068 **DK**: 9445/016 **03**: 9500/003 \$	insulated reduction sleeve aluminum reduction sleeve KHO5 Stator coupling KHO5 Stator coupling KHO5 stator coupling (for repl KHK5 & KHO5/OM/ Stator Synchro flange		HS22 model)							

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D	escription	Part Number							
Synchro flange kit Hardware included	Ø,	M9500/003 Other synchro flanges dimensions available on request							
Square flange kit Hardware included		Other	M9500/005 square flanges dimensions available on re	quest					
Mounting bracket Hardware included			M9202 (Compatible with all models)						
Reduction sleeve		Insulated (PEEK) KH05 9431/l06 9431/l08 9431/l10 9431/l10	Non insulated (Aluminum) KH05 KHK5 9431/A06 9431/K06 9431/A08 9431/K08 9431/A01 9431/K08 9431/A10 9431/K10 9431/A12 9431/K12	Bore size (H7) 6 mm 1/4" (6.35 mm) 8 mm 3/8" (9.52 mm) 10 mm 1/2" (12.7 mm) 12 mm					
Stator coupling kit Hardware included		P/N M9445/012 M9445/015 M9445/016 M9445/068	Recommended use/Compatibility KH05 KHK5 & KH05 KHK5 & KH05 with /OM/ option KHK5 & KH05 retrofit for HS22	Fixing points 2 4 2 3					
Tether arm kit Hardware included		Other stator coupling configurations available on request M9445/047 (Compatible with KHK5 and KH05 models)							
Bellows coupling		9403/xx-yy with: xx = 06 to 12 (side 1 bore diameter in mm) yy = 06 to 12 (side 2 bore diameter in mm) + Imperial sizes available: 6.35, 9.52, 12.7 (mm) Installation: Refer to Instruction Manual							

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