

La più **completa gamma** di prodotti per centri di taglio **vetro e pietra**

The most **complete product range** for **glass and stone cutting centers**

**ELETTROMANDRINO
ELECTROSPINDLE**



**ASSE C
C-AXIS**



**AGGREGATO
AGGREGATE UNIT**



Hiteco propone il pacchetto completo per equipaggiare i centri di lavoro che lavorano vetro e pietra in grado di aumentare la flessibilità della macchina ed eseguire le lavorazioni più gravose: elettromandrino, asse C e aggregati.

Hiteco offers the complete bundle for equipping glass and stone CNC to increase the machine flexibility and process the most heavy operations: electrospindle, C-axis and aggregate units.

Maximize the **productivity** of your machine and increase the **life** of your electrospindle with **iM Smart Sensor** and **Joint Monitoring Sensor**

iM Smart Sensor



The **iM Smart Sensor** is an intelligent sensor that constantly monitors the machining conditions of the spindle it is installed on. It can support the whole production process, monitoring the main quantities that the spindle works on: **vibration and temperature**. This process monitoring instrument lets users easily identify malfunctions and consequently reduce unexpected machine down times.



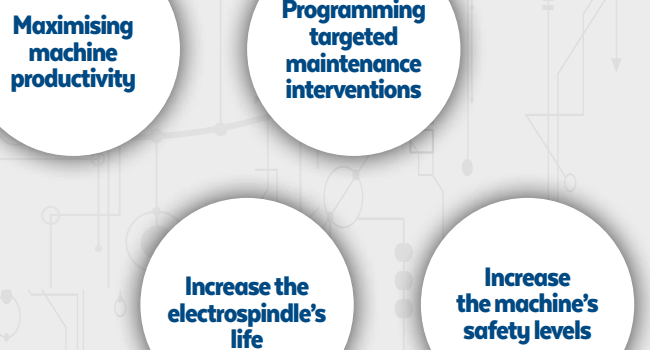
Joint Monitoring Sensor



JMS is the new sensor for joint monitoring powered by Hiteco. Hiteco has designed a sensor to detect the loss of the joint, planning its eventual maintenance or replacement.



Sensors Kit Industry 4.0
ready by Hiteco



HITECO
HIGH TECHNOLOGY COMPONENTS

**GAMMA VETRO & PIETRA
GLASS & STONE RANGE**



STONE GLASS

**AGGREGATI PER ELETTROMANDRINI GLASS & STONE
AGGREGATE UNITS FOR GLASS & STONE SPINDLES**

SPECIFICHE TECNICHE / TECHNICAL SPECIFICATIONS

Attacco mandrino / Spindle coupling	ISO40
Velocità rotazione utensile / Max tool speed	5000 rpm
Rapporto di trasmissione / Gear ratio	1:1
Attacco utensile / Tool holder	1/2 gas
Principali applicazioni / Main application	Fresatura / Milling, Incisione / Engraving

ONE GS H130



TWIN GS B250



SPECIFICHE TECNICHE / TECHNICAL SPECIFICATIONS

Attacco mandrino / Spindle coupling	ISO40
Velocità rotazione utensile / Max tool speed	5000 rpm
Rapporto di trasmissione / Gear ratio	1:1
Diametro massimo lama / Max blade diameter	ø 250
Attacco utensile / Tool holder	1/2 Gas
Principali applicazioni / Main application	Taglio / Cutting, Fresatura / Milling, Incisione / Engraving

SPECIFICHE TECNICHE / TECHNICAL SPECIFICATIONS

Attacco mandrino / Spindle coupling	ISO40
Velocità rotazione utensile / Max tool speed	3300 rpm
Rapporto di trasmissione / Gear ratio	1/1.5
Diametro massimo lama / Max blade diameter	ø 350
Principali applicazioni / Main application	Taglio / Cutting

ONE GS B350



TWIN GS P100



SPECIFICHE TECNICHE / TECHNICAL SPECIFICATIONS

Attacco mandrino / Spindle coupling	ISO40
Velocità rotazione utensile / Max tool speed	5000 rpm
Rapporto di trasmissione / Gear ratio	1:1
Diametro piatto / Polishing pads	ø 100
Attacco utensile / Tool holder	1/2 Gas
Principali applicazioni / Main application	Fresatura / Milling, Lucidatura / Polishing, Incisione / Engraving

DSIDE GS H105



BIS 5



ONE 45 GS B250



SPECIFICHE TECNICHE / TECHNICAL SPECIFICATIONS

Attacco mandrino / Spindle coupling	ISO40
Velocità rotazione utensile / Max tool speed	6750 rpm
Rapporto di trasmissione / Gear ratio	1/0.74
Attacco utensile / Tool holder	G1/4
Principali applicazioni / Main application	Foratura / Drilling

SPECIFICHE TECNICHE / TECHNICAL SPECIFICATIONS

Attacco mandrino / Spindle coupling	ISO40
Velocità rotazione utensile / Max tool speed	5000 rpm
Rapporto di trasmissione / Gear ratio	1/1
Attacco utensile / Tool holder	M16
Angolo / Angle	5°
Principali applicazioni / Main application	Bisellatura / Beveling

SPECIFICHE TECNICHE / TECHNICAL SPECIFICATIONS

Attacco mandrino / Spindle coupling	ISO40
Velocità rotazione utensile / Max tool speed	5000 rpm
Rapporto di trasmissione / Gear ratio	1/1
Diametro massimo lama / Max blade diameter	ø 250
Principali applicazioni / Main application	Taglio / Cutting

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IDENTIFICAZIONE ELETTROMANDRINI / ELECTROSPINDLE IDENTIFICATION KEY

Example **SXM 2 25/2.2 10 I40T NC CBEN**

MODELLO (DIMENSIONE CARCASSA) / MODEL (HOUSING DIMENSION)	
MG	200 X 200 mm
GX	175 X 152 mm
SGX	Ø 178,5 mm
SXM	230 X 230 mm
SXL	275 X 270 mm

RAFFREDDAMENTO / COOLING TYPE

LIQUIDO/LIQUID
 VENTOLA SU ALBERO / FAN ON SHAFT

POTENZA NOMINALE (S1) @ VELOCITÀ / RATED POWER (S1) @ SPEED	
MAX POTENZA @ VELOCITÀ / MAX POWER @ SPEED	

VELOCITÀ MAX / MAX SPEED

ATTACCO UTENSILE / TOOL HOLDER	
ISO40	
ISO = ISO30	
I40 = ISO40	
ISO = ISO50	

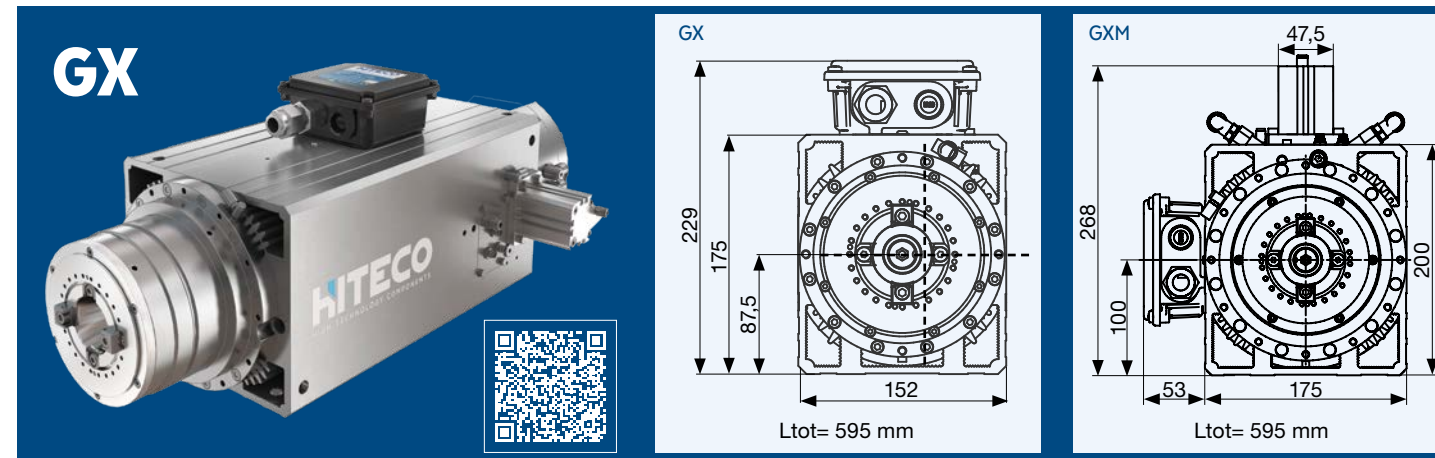
NASO MANDRINO / SPINDLE NOSE

- NC= NASO CORTO/SHORT NOSE
- NL= NASO LUNGO/LONG NOSE

CONNESSIONE ELETTRICA DI POTENZA / POWER ELECTRIC CONNECTION

- CB= CONNESSIONE BASE/ BASIC CONNECTION
- CC= CONNESSIONE CIRCOLARE/ CIRCULAR CONNECTION
- SC= SENZA CONNESSIONE/ NO CONNECTION

ENCODER	
ES= ENCODER 1VPP (SYNUSOIDAL WAVE)	
IDX= INDEX PNEUMATIC/PNEUMATIC INDEX	



EQUIPAGGIAMENTO / EQUIPMENT

ISO30 DIN o ISO40 HITECO
 Double effect Pneumatic cylinder
 Automatic tool change (ATC)
 Labyrinth with air seal
 Grease lubrication
 Water tool cooling
 Cooling by shaft-driven fan
 Sensors s1, s2, s3, s5

OPZIONALI / OPTIONS

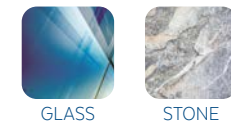
iM Smart Sensor
 Encoder 1Vpp or TTL
 Speed
 Pneumatic index
 Joint Monitoring Sensor
 Ceramic ball bearings

ACCESSORI / ACCESSORIES

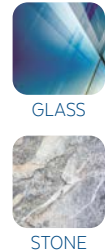
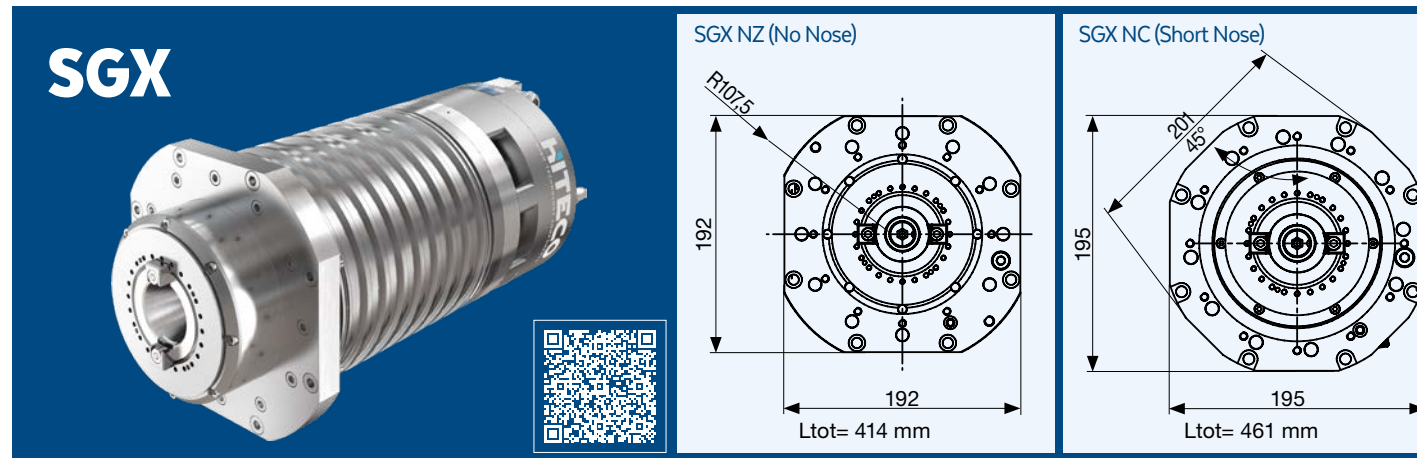
Sleeve tool cooling
 C-axis available



GX-S	
ΔL mm	L tot mm
114	481



	GX-40 ISO	GX-40 I40	GX-60 ISO	GX-60 I40	GX-80 I40	GXM-95 I40	GXM-115 I40	GXM-130 I40	GXM-170 I40
Potenza (S1-S6) Power (S1-S6)	4-5 kW		6-7 kW		8-9.5 kW	9.5-11.5 kW	11.5-14 kW	13-15.5 kW	17-19 kW
Assorbimento corrente (S1-S6) Current consumption (S1-S6)	9-10 A		14-16 A		17-20 A	21-24 A	24-28 A	30-33 A	36-41 A
Coppia (S1-S6) Torque (S1-S6)	6.5-8 Nm		9.5-11.5 Nm		13-15 Nm	15-18 Nm	18-22 Nm	28-33 Nm	31-35 Nm
Poli Poles	4	4	4	4	4	4	4	4	4
Velocità nominale Rated speed	6.000 rpm	6.000 rpm	6.000 rpm	6.000 rpm	6.000 rpm	6.000 rpm	6.000 rpm	4.500 rpm	5.200 rpm
Velocità massima Max speed	15.000 rpm	12.000 rpm	15.000 rpm	12.000 rpm	12.000 rpm	12.000 rpm	12.000 rpm	12.000 rpm	12.000 rpm
Attacco utensile Tool holder	ISO30	ISO40	ISO30	ISO40	ISO40	ISO40	ISO40	ISO40	ISO40
Raffreddamento Cooling	Shaft-driven fan	Shaft-driven fan	Shaft-driven fan	Shaft-driven fan	Shaft-driven fan	Shaft-driven fan	Shaft-driven fan	Liquid	Liquid
Pressione sblocco utensile (bar) Tool release pressure (bar)	6	6	6	6	6	6	6	6	6
Lubrificazione cuscinetti Bearings lubrication	Grease	Grease	Grease	Grease	Grease	Grease	Grease	Grease	Grease
Peso Weight	55 Kg	58 Kg	55 Kg	58 Kg	58 Kg	65 Kg	65 Kg	65 Kg	65 Kg



EQUIPAGGIAMENTO / EQUIPMENT

ISO40 HITECO
 Labyrinth with air seal
 Grease lubrication
 Water tool cooling
 Sensors s1, s2, s3, s5
 Encoder 1Vpp or TTL
 Liquid cooling
 Double effect pneumatic cylinder
 178

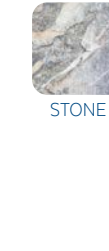
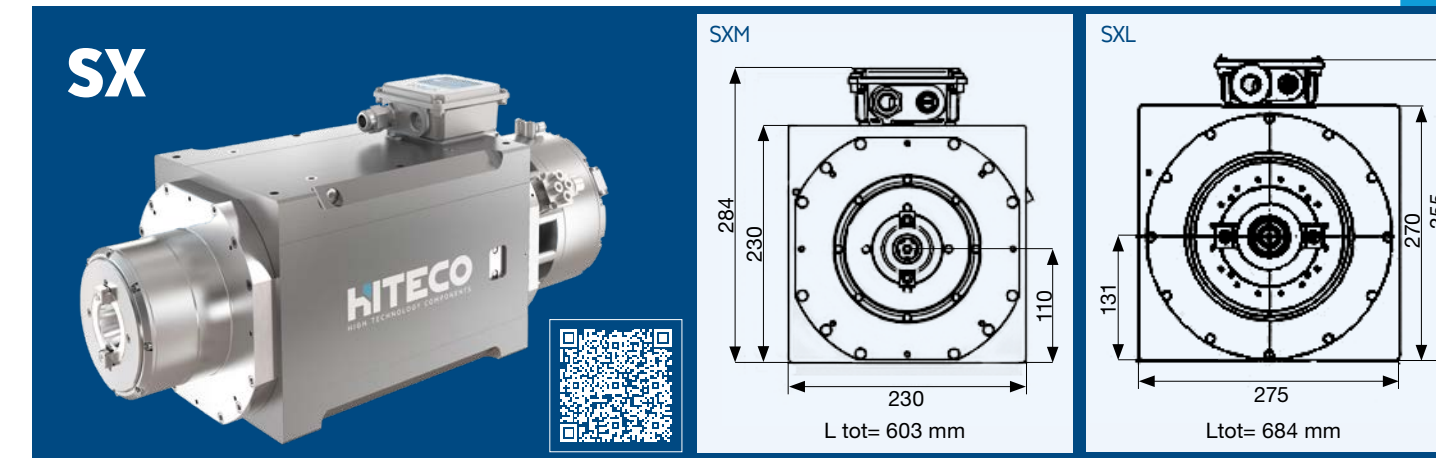
OPZIONALI / OPTIONS

iM Smart Sensor
 Joint Monitoring Sensor
 Short nose (L=94 mm)
 Speed
 Ceramic ball bearings

ACCESSORI / ACCESSORIES

C-axis available
 Sleeve tool cooling
 Housing

	SGX-130 I40	SGX-170 I40
Potenza (S1-S6) Power (S1-S6)	13-15.5 kW	17-19 kW
Assorbimento corrente (S1-S6) Current consumption (S1-S6)	30-33 A	36-41 A
Coppia (S1-S6) Torque (S1-S6)	28-33 Nm	31-35 Nm
Poli Poles	4	4
Velocità nominale Rated speed	5.000 rpm	5.200 rpm
Velocità massima Max speed	12.000 rpm	12.000 rpm
Attacco utensile Tool holder	ISO40	ISO40
Raffreddamento Cooling	liquid	liquid
Pressione sblocco utensile (bar) Tool release pressure (bar)	10	10
Lubrificazione cuscinetti Bearings lubrication	Grease	Grease
Peso Weight	42 Kg	43 Kg



EQUIPAGGIAMENTO / EQUIPMENT

ISO40 HITECO o ISO 50 DIN
 Labyrinth with air seal
 Encoder 1Vpp or TTL
 Water tool cooling
 Sensors s1, s2, s3, s5
 Automatic tool change (ATC)
 Liquid cooling
 Double effect pneumatic cylinder
 Grease lubrication

OPZIONALI / OPTIONS

iM Smart Sensor
 Increased max speed (from 10000 rpm to 12000 rpm)
 Increased max speed (from 8000 rpm to 10000 rpm)

	SXM-250 I40	SXL-350 ISO
Potenza (S1-S6) Power (S1-S6)	25-28 kW	35-40 kW
Assorbimento corrente (S1-S6) Current consumption (S1-S6)	46-55 A	72-86 A
Coppia (S1-S6) Torque (S1-S6)	109-123 Nm	239-273 Nm
Poli Poles	4	6
Velocità nominale Rated speed	2.200 rpm	1.400 rpm
Velocità massima Max speed	10.000 rpm	8.000 rpm
Attacco utensile Tool holder	ISO40 HITECO	ISO 50 DIN
Raffreddamento Cooling	liquid	liquid
Pressione sblocco utensile Tool release pressure	6 bar	12 bar
Lubrificazione cuscinetti Bearings lubrication	Grease	Grease
Peso Weight	120 Kg	180 Kg

ONLY FOR SXM
 Sleeve tool cooling

FOCUS ON

- Giunto Hiteco integrato per raffreddamento utensile / Hiteco rotating water joint for tools cooling
- Manutenzione semplificata / Easy maintenance
- Design estremamente compatto / Very compact design
- Elevata velocità di lavorazione / High speed processing
- Principali componenti in acciaio INOX / Main components in INOX steel
- Sensore accelerometrico iM Smart Sensor (opz.) / Accelerometric sensor iM Smart Sensor (opt.)
- Distributore liquido refrigerante utensile / Sleeve tool cooling
- Encoder integrato 1Vpp o TTL (opz.) / Integrated 1Vpp or TTL encoder (opt.)
- Sensore Monitoraggio Giunto (opz.) / Joint Monitoring Sensor (opt.)

ASSE C MONTABILE SULLA LINEA GXM C-AXIS AVAILABLE ON GXM LINE

SPECIFICHE TECNICHE / TECHNICAL SPECIFICATIONS	
Rapporto trasmissione / Transmission ratio	1:200
Velocità nominale di rotazione / Rated output speed	20 rpm
Velocità nominale ingresso / Rated input speed	4000 rpm
Coppia nominale in uscita / Output rated torque	200 Nm
Coppia di accelerazione massima / Max. acceleration torque	400 Nm
Precisione di posizionamento / Position accuracy	< 5 arcmin
Pressione ingresso acqua aggregata / Inlet water pressure for aggregate	< 3,5 bar
Peso / Weight	19 kg



MANDRINO DISPONIBILE ANCHE CON CARCASSA VERSIONE 3 O 5 ASSI SPINDLE ALSO AVAILABLE WITH 3 OR 5 AXES HOUSING



MANDRINO DISPONIBILE ANCHE CON FLANGIA PER LAMA SPINDLE ALSO AVAILABLE WITH BLADE DISCS



DIAMETRO MASSIMO LAMA MONTABILE SU FLANGIA: D1300 mm. MAX DIAMETER SAW BLADE MOUNTED ON DISCS: D1300 mm.