

## 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
Diametro massimo lama / Max blade diameter	ø 210
Diametro massimo mola / Max grinding wheel diameter	ø 150
Attacco utensile / Tool holder	1/2 gas
Principali applicazioni / Main application	Taglio / Cutting Fresatura / Milling Molatura / Grinding Incisione / Engraving

### TWIN B210



with internal tool cooling

### 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

### ONE B350



with internal tool cooling

### 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 platorello / Polishing pads	ø 100
Attacco utensile / Tool holder	1/2 Gas
Principali applicazioni / Main application	Fresatura / Milling Lucidatura / Polishing Incisione / Engraving

### ONE 45 B250



### TWIN B250



with internal tool cooling

### 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

### TWIN G100



with internal tool cooling

### DSIDE GS H105



### 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	GI/4
Principali applicazioni / Main application	Foratura / Drilling

### BIS 5



### 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

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

Maximising machine productivity

Programming targeted maintenance interventions

Increase the electrospindle's life

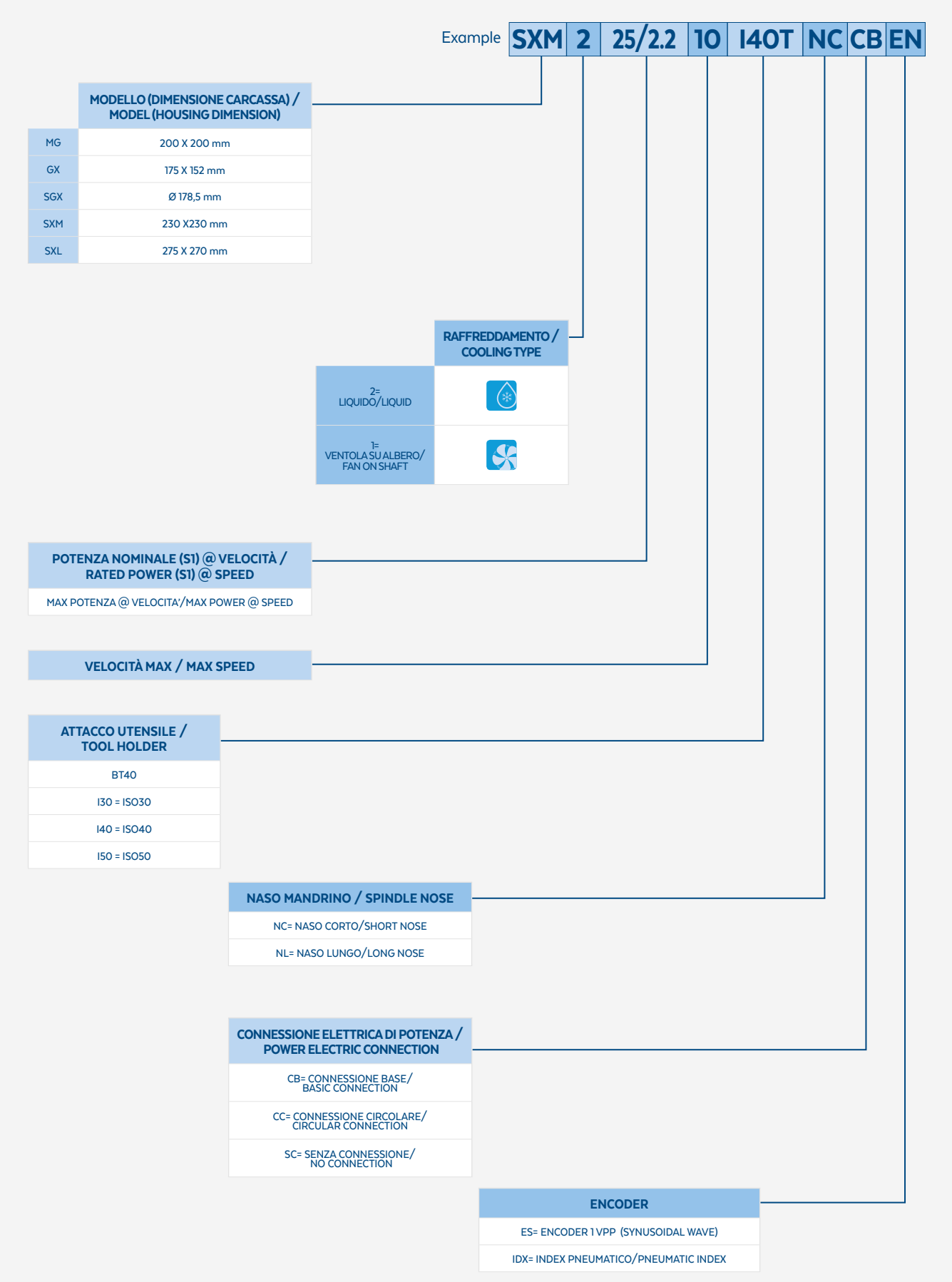
Increase the machine's safety levels



### GLASS & STONE RANGE



## IDENTIFICAZIONE ELETTROMANDRINI / ELECTROSPINDLE IDENTIFICATION KEY



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Via Marecchiese, 720 - 47923 Rimini - Italia  
tel. +39 0541 674940

www.hiteco.net





**EQUIPAGGIAMENTO / EQUIPMENT**

- ISO40 DIN
- Liquid cooling
- Sensors s1, s2
- Speed bearings
- Taper cleaning
- Labyrinth with air seal
- Automatic tool change (ATC)
- Housing
- Hydraulic single effect cylinder
- Grease lubrication

**OPZIONALI / OPTIONS**

- CTS lubrication
- Air tool
- iM Smart Sensor
- C-axis available
- Water tool cooling
- High load capacity bearings 12000 rpm

**ACCESSORI / ACCESSORIES**

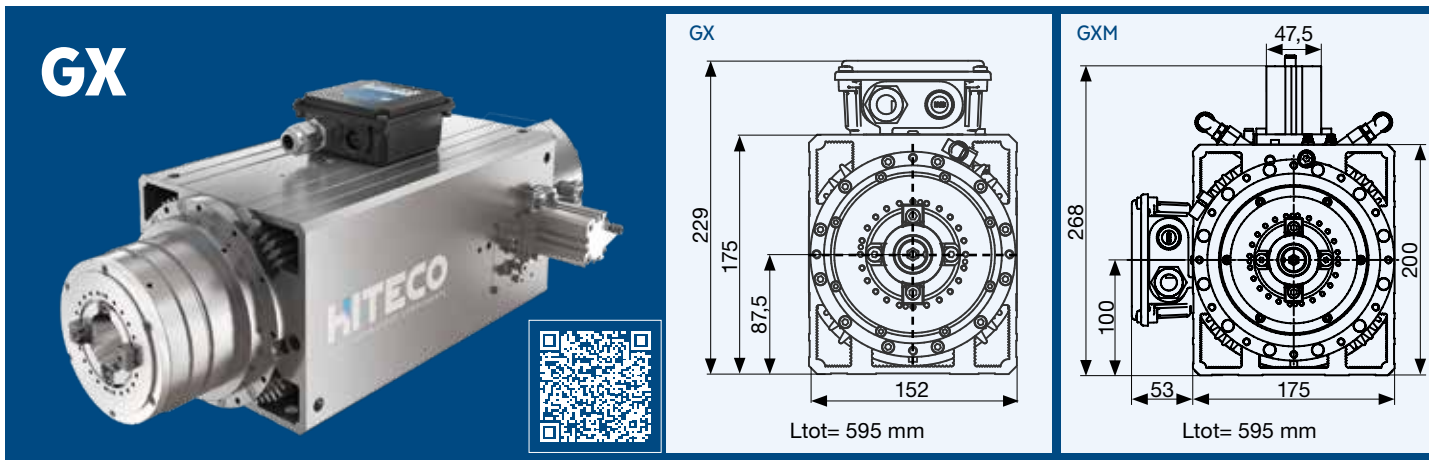
- Sleeve tool cooling
- C-axis available

GLASS STONE LIGHT ALLOY

\* Altre configurazioni su richiesta / Other configurations on request

	MG-2 9/6 15	MG-2 13.5/6 15	MG-2 17/5,2 15	MG-2 30/7.5 12
Potenza (S1-S6) Power (S1-S6)	9 - 14 kW	13.6 - 21 kW	17 - 19 kW	30 - 36 kW
Assorbimento corrente (S1-S6) Current consumption (S1-S6)	24 - 33 A	32 - 49 A	36 - 41 A	66 - 78 A
Coppia (S1-S6) Torque (S1-S6)	14 - 22 Nm	21,5 - 33 Nm	31 - 35 Nm	39 - 47 Nm
Poli Poles	4	4	4	4
Velocità nominale Rated speed	6.000 rpm	6.000 rpm	5.200 rpm	7.500 rpm
Velocità massima Max speed	15.000 rpm	15.000 rpm	15.000 rpm	15.000 rpm
Attacco utensile Tool holder	ISO 40	ISO 40	ISO 40	ISO 40
Raffreddamento Cooling	Liquid	Liquid	Liquid	Liquid
Pressione sblocco utensile (bar) Tool release pressure (bar)	80 (hydraulic)	80 (hydraulic)	80 (hydraulic)	80 (hydraulic)
Lubrificazione cuscinetti Bearings lubrication	Grease	Grease	Grease	Grease
Peso Weight	65 Kg	65 Kg	65 Kg	65 Kg

MANDRINO DISPONIBILE ANCHE SENZA SUPPORTO / 5-AXES SPINDLE AVAILABLE ALSO WITHOUT SUPPORT



**EQUIPAGGIAMENTO / EQUIPMENT**

- 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
- Joint Monitoring Sensor
- Speed
- Pneumatic index
- ISO40 DIN
- Ceramic ball bearings

**ACCESSORI / ACCESSORIES**

- Sleeve tool cooling
- C-axis available

GLASS STONE

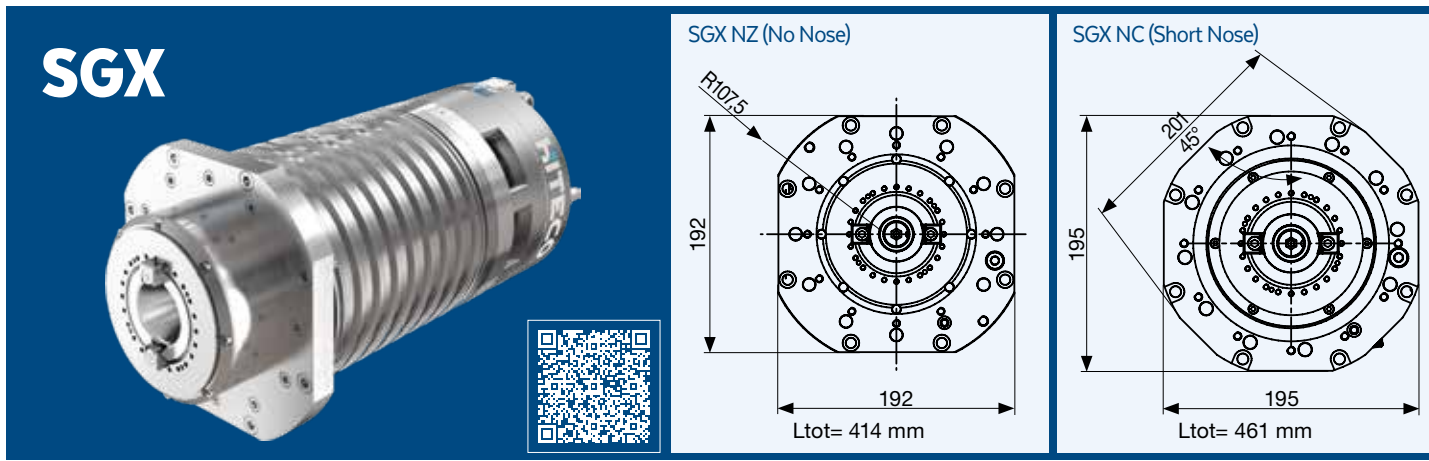
	GX-40 I30	GX-40 I40	GX-60 I30	GX-60 I40	GX-80 I40	GXM-95 I40	GXM-115 I40	GXM-30 I40	GXM-170 I40
Potenza (S1-S6) Power (S1-S6)	4 - 4,5 kW		6 - 7 kW		8 - 9,5 kW	9,5 - 11,5 kW	11,5 - 14 kW	13 - 15,5 kW	17 - 19 kW
Assorbimento corrente (S1-S6) Current consumption (S1-S6)	7,5 - 9 A		14 - 16 A		17 - 20 A	21 - 24 A	24 - 28 A	30 - 33 A	36 - 41 A
Coppia (S1-S6) Torque (S1-S6)	6 - 7 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	ISO 30	ISO40	ISO 30	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

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 aggregato / Inlet water pressure for aggregate	< 3,5 bar
Peso / Weight	19 kg

MANDRINO DISPONIBILE ANCHE CON SUPPORTO / 5-AXES SPINDLE AVAILABLE ALSO WITH SUPPORT



**EQUIPAGGIAMENTO / EQUIPMENT**

- ISO40 HITECO
- Water tool cooling
- Liquid cooling
- Labyrinth with air seal
- Sensors s1, s2, s3, s5
- Grease lubrication
- Encoder 1Vpp or TTL

**OPZIONALI / OPTIONS**

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

**ACCESSORI / ACCESSORIES**

- Sleeve tool cooling
- C-axis available

GLASS STONE

	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	4.500 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

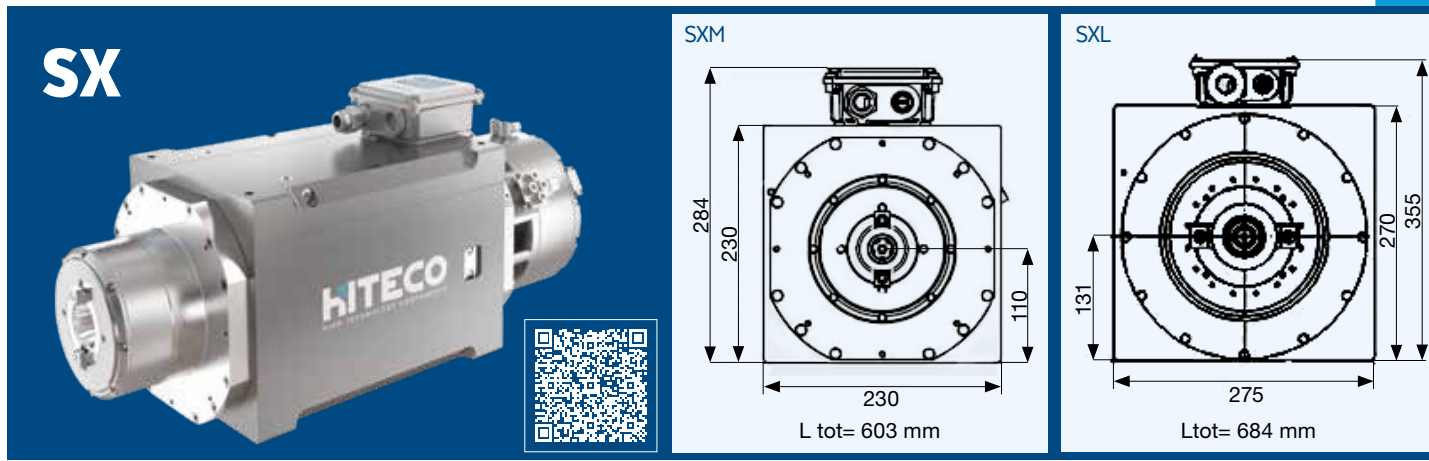
**ACCESSORI / ACCESSORIES**

- C-axis available
- Sleeve tool cooling
- Housing

**ASSE C MONTABILE SULLA LINEA SGX NASO CORTO E NASO LUNGO**

**C-AXIS AVAILABLE ON SGX LONG AND SHORT NOSE**

MANDRINO DISPONIBILE ANCHE CON SUPPORTO / 5-AXES SPINDLE AVAILABLE ALSO WITH SUPPORT



**EQUIPAGGIAMENTO / EQUIPMENT**

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

**OPZIONALI / OPTIONS**

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

**ACCESSORI / ACCESSORIES**

- C-axis available
- Sleeve tool cooling

GLASS STONE

	SXM-250 I40	SXL-350 I50
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	ISO 40 HITECO	ISO 50 DIN
Raffreddamento Cooling	liquid	liquid
Pressione sblocco utensile Tool release pressure	12 bar	12 bar
Lubrificazione cuscinetti Bearings lubrication	Grease	Grease
Peso Weight	120 Kg	180 Kg

**ACCESSORI / ACCESSORIES**

- C-axis available
- Sleeve tool cooling

**ONLY FOR SXM**

MANDRINO DISPONIBILE ANCHE CON SUPPORTO / 5-AXES SPINDLE AVAILABLE ALSO WITH SUPPORT

**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.)