REV. 01 - 02/26

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

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

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**

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**

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.

- Bearings temperature monitoring
- Speed monitoring
- Vibration sensor

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.

JMS Joint Monitoring Sensor

Dati tecnici e illustrazioni non sono vincolanti e, per il costante sviluppo di prodotti e servizi, HITECO si riserva il diritto di effettuare modifiche senza preavviso.

Technical data and illustrations are not binding and, for the constant development of products and services, HITECO reserves the right to make modifications without prior notice.

Copyright © Hiteco. Tutti i diritti riservati. / Copyright © Hiteco. All rights reserved.

HITECO
HIGH TECHNOLOGY COMPONENTS
Via Marecchiese, 720 - 47923 Rimini - Italia
tel. +39 0541 674940

www.hiteco.net/en

STONE GLASS

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

ONE GS H130

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
Attacco utensile / Tool holder		1/2 gas
Principali applicazioni / Main application	Fresatura / Milling	Incisione / Engraving

TWIN GS B250

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 GS B350

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 GS P100

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

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	G1/4
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 / Bevelling

ONE 45 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
Principali applicazioni / Main application	Taglio / Cutting

IDENTIFICAZIONE ELETTROMANDRINI / ELECTROSPINDLE IDENTIFICATION KEY

Example: **SXM 2 25/2.2 10 I40T NC CB EN**

MODELLO (DIMENSIONE CARCASSA) / MODEL (HOUSING DIMENSION)

MG	200 X 200 mm
GX	175 X 152 mm
SGX	Ø 178,5 mm
SXM	230 X230 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 @ VELOCITA'/MAX POWER @ SPEED

VELOCITÀ MAX / MAX SPEED

ATTACCO UTENSILE / TOOL HOLDER

- I50
- I30 = ISO30
- I40 = ISO40
- I50 = 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

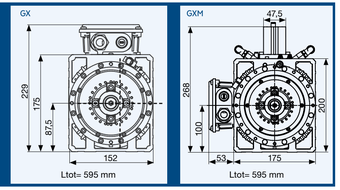
ENCODER

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

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 acellerometrico 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.)

GX



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

ACCESSORI / ACCESSORIES

- Sleeve tool cooling
- C-axis available

GX-S	
ΔL mm	L tot mm
114	481

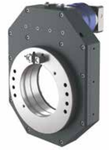
GLASS

GLASS STONE

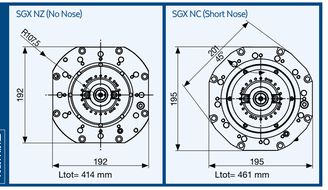
	GX-40 I30	GX-40 I40	GX-60 I30	GX-60 I40	GX-80 I40	GXM-95 I40	GXM-115 I40	GXM-130 I40	GXM-170 I40
Potenza (S1-S6) / Power (S1-S6)	4-5 kW		6 - 7 kW		8 - 9.5 kW	9,5 - 11,5 kW	11,5 - 14 kW	13 - 15,5 kW	17 - 19 kW
Assorbimento corrente (S1-S6) / Current consumption (S1-S6)	9 - 10 A		14 - 16 A		17 - 20 A	21 - 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

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



SGX



GLASS

STONE

EQUIPAGGIAMENTO / EQUIPMENT

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

OPZIONALI / OPTIONS

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

	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

ACCESSORI / ACCESSORIES

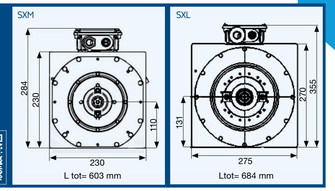
- C-axis available
- Sleeve tool cooling
- Housing

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

5-AXES HOUSING

3-AXES AND ROBOT

SX



STONE

EQUIPAGGIAMENTO / EQUIPMENT

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

	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	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

ACCESSORI / ACCESSORIES

- Sleeve tool cooling

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

DIAMETRO MASSIMO LAMA MONTABILE SU FLANGE: D1300 mm.

MAX DIAMETER SAW BLADE MOUNTED ON DISCS: D1300 mm.