

HITECO

HIGH TECHNOLOGY COMPONENTS

ELETTROMANDRINI ATC ATC ELECTROSPINDLES



**ADVANCED
MATERIALS**

PLASTIC

WOOD

ALLUMINIUM



Componenti **high tech** per produttori di macchine utensili.

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High-tech components for machine tool manufacturers.

Hiteco è specializzata nella progettazione e realizzazione di componenti elettromeccanici industriali ad alta tecnologia per le macchine utensili.

Elettromandri ATC, elettromandri MTC, teste birotative, teste di foratura ed aggregati.

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Hiteco is specialized in design and manufacture of high technology industrial electromechanical components for machine tools **ATC electrospindles, MTC electrospindles, birotary heads, boring units and aggregates.**



Hiteco si propone sul mercato internazionale con un'ampia gamma di prodotti per la lavorazione di: **legno, plastica, materiali avanzati, vetro, pietra e metallo.**

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Hiteco offers a wide range of products on international market for **wood, plastic, advanced materials, glass, stone and metal processing.**



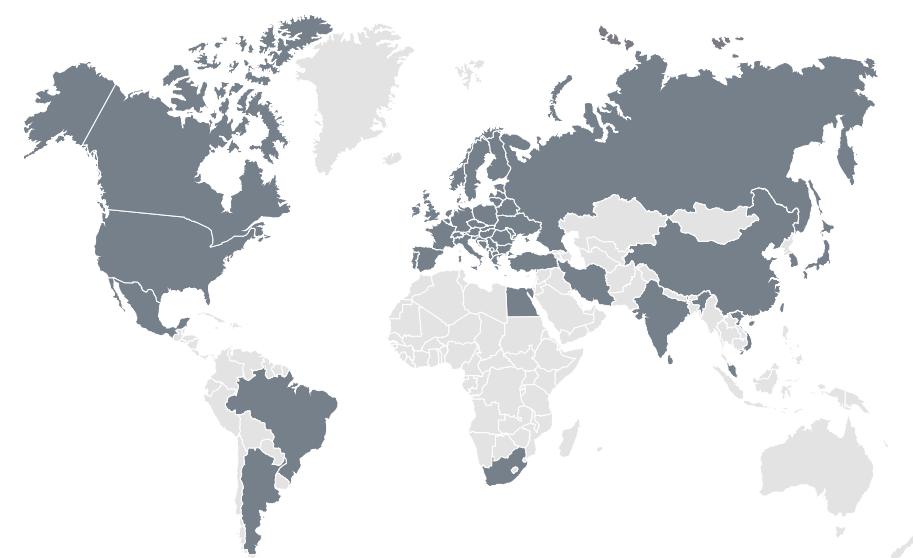
Hiteco nasce nel 1977 come divisione interna di **SCM Group**, azienda leader mondiale nella costruzione di macchine utensili per la lavorazione di una vasta gamma di materiali, realizzando un percorso di crescita esponenziale. Diventa nel 2008 un'unità di profitto per servire il mercato terzi. **Dal 1 Aprile 2023 nasce Hiteco S.r.l.** con l'obiettivo di incrementare ulteriormente l'**attenzione** e la **focalizzazione** alle **esigenze** del cliente nella continua **ricerca** di fornire i migliori prodotti e servizi. Oggi realizza prodotti di riferimento nel mercato dei componenti, diventando uno tra i più importanti player mondiali nel settore.

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Hiteco founded in 1977 as an internal division of the **SCM Group**, leading company in machine tools construction for processing a wide range of materials, had an increasingly exponential growth. In 2008 it become a profit unit for external customers. **On April 1 st 2023 Hiteco S.r.l.** was born with the aim of further **increase the attention** and **focus** on customer **needs** and in the continuous **search** to provide the best products and services. Today Hiteco offers key products for the components market, becoming one of the most important world players in the sector.



Una **presenza worldwide** per un **servizio best-in-class.**

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A worldwide presence for **a best-in-class service.**



La distribuzione capillare dell'azienda risponde alla volontà di Hiteco di essere vicina al cliente con la presenza sul territorio di **tecnici specializzati** che sono garanzia di una risposta estremamente rapida e professionale: non solo per ridurre fermi macchina e problemi alla produzione, ma anche per creare valore aggiunto con la proposta di soluzioni efficaci ed innovative. Questa attenzione, oltre ai ridotti tempi di consegna, è uno dei motivi che ha portato Hiteco ad avere la più alta **customer satisfaction** nel mercato internazionale.

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The widespread distribution of the company responds to the desire of Hiteco to be close to the customer with the presence of **specialized technicians** on the territory who guarantee an extremely rapid and professional response: not only to reduce machine downtimes and production problems, but also to create added value with the proposal of effective and innovative solutions. Such care, in addition to reduced delivery times, is one of the reason that led Hiteco to have the highest **customer satisfaction** on the international market.



	SPEEDTECH HS	
	HS -1F 1.7/24 24	HS -1F 1.7/24 30
SPECIFICHE TECNICHE / TECHNICAL SPECIFICATIONS		
Potenza (S1-S6) Power (S1-S6)	1.7/2.2 kW	1.7/2.2 kW
Assorbimento corrente (S1-S6) Current consumption (S1-S6)	4/5 A	4/5 A
Tensione Voltage	380 V	380 V
Coppia (S1-S6) Torque (S1-S6)	0.7/0.9 Nm	0.7/0.9 Nm
Tipologia elettromandrino Type of electrospindle	Asynchronous 2 Poles w/inverter	Asynchronous 2 Poles w/inverter
Velocità nominale Rated speed	24.000 rpm	24.000 rpm
Velocità massima Max speed	24.000 rpm	30.000 rpm
Attacco utensile Tool holder	ISO20	HSK 25E
Raffreddamento Cooling	Electrofan	Electrofan
Cambio utensile Type of tool changer	Pneumatic	Pneumatic
Lubrificazione cuscinetti Grease lubrication	Grease	Grease
Peso Weight	9 Kg	9 Kg

CARATTERISTICHE

	SPEEDTECH HS	
	HS -1F 1.7/24 24	HS -1F 1.7/24 30
LAYOUT	LAYOUT ISO 20 NC CC	
VISTA FRONTALE ELETTR. ELECTROS. FRONT VIEW		
EQUIPAGGIAMENTO EQUIPMENT	Labyrinth with air seal Ceramic ball bearings Sensors s1, s2, s3, s5 Taper cleaning Connector spindle & machine side Double effect pneumatic cylinder	
OPZIONALI OPTIONS	Single voltage 220V Vibration and speed monitoring 30,000 rpm	Single voltage 220V Vibration and speed monitoring

	SPEEDTECH HC	
	HC-2 3.3/27 40	HC-2 3.3/27 40
SPECIFICHE TECNICHE / TECHNICAL SPECIFICATIONS		
Potenza (S1-S6) Power (S1-S6)	3.3/4 kW	3.3/4 kW
Assorbimento corrente (S1-S6) Current consumption (S1-S6)	8/9 A	8/9 A
Tensione Voltage	380 V	380 V
Coppia (S1-S6) Torque (S1-S6)	1.2/1.4 Nm	1.2/1.4 Nm
Tipologia elettromandrino Type of electrospindle	Asynchronous 4 Poles w/inverter	Asynchronous 4 Poles w/inverter
Velocità nominale Rated speed	27.000 rpm	27.000 rpm
Velocità massima Max speed	40.000 rpm	40.000 rpm
Attacco utensile Tool holder	ISO20	HSK 25E
Raffreddamento Cooling	Liquid	Liquid
Cambio utensile Type of tool changer	Pneumatic	Pneumatic
Lubrificazione cuscinetti Grease lubrication	Grease	Grease
Peso Weight	8 Kg	8 Kg

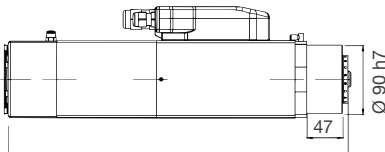
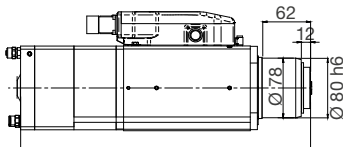
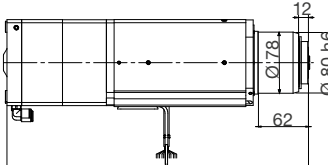
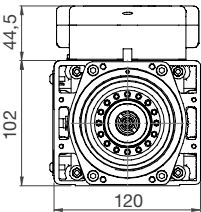
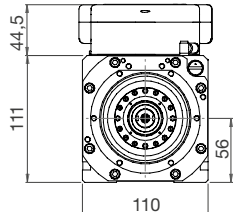
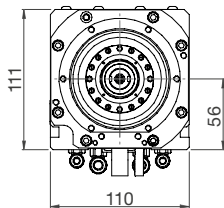
CARATTERISTICHE

	SPEEDTECH HC	
	HC-2 3.3/27 40	HC-2 3.3/27 40
LAYOUT	LAYOUT HSK 25E	
VISTA FRONTALE ELETTR. ELECTROS. FRONT VIEW		
EQUIPAGGIAMENTO EQUIPMENT	Labyrinth with air seal Ceramic ball bearings Sensors s1, s2, s3, s5 Taper cleaning Double effect pneumatic cylinder	
OPZIONALI OPTIONS	Circular connector CC Vibration and speed monitoring 50,000 rpm HSK 25E	Circular connector CC Vibration and speed monitoring Single voltage 220V 50,000 rpm



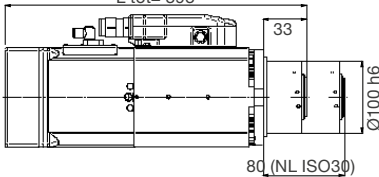
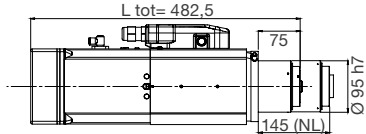
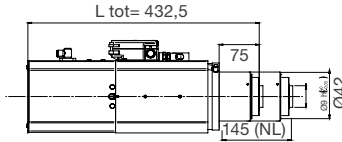
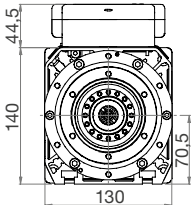
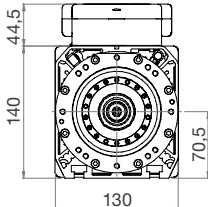
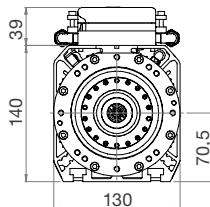
	POWERTECH 210	POWERTECH 260			
SPECIFICHE TECNICHE / TECHNICAL SPECIFICATIONS	QD-1F 4/12 24	QD-2 6.5/12 36	QD-2 6.5/12 40	QD-2 8/12 36	QD-2 8/12 40
Potenza (S1-S6) Power (S1-S6)	4/4.5 kW	6.5/8 kW	6.5/8 kW	8/9 kW	8/9 kW
Assorbimento corrente (S1-S6) Current consumption (S1-S6)	9/10.7 A	20.5/23 A	20.5/23 A	24/26 A	24/26 A
Tensione Voltage	380 V	380 V	380 V	380 V	380 V
Coppia (S1-S6) Torque (S1-S6)	3.2/3.6 Nm	5.2/6.4 Nm	5.2/6.4 Nm	6.4/7.2 Nm	6.4/7.2 Nm
Tipologia elettromandrino Type of electrospindle	Asynchronous 4 Poles w/ inverter	Asynchronous 4 Poles w/inverter	Asynchronous 4 Poles w/inverter	Asynchronous 4 poles w/inverter	Asynchronous 4 poles w/inverter
Velocità nominale Rated speed	12.000 rpm	12.000 rpm	12.000 rpm	12.000 rpm	12.000 rpm
Velocità massima Max speed	24.000 rpm	36.000 rpm	40.000 rpm	36.000 rpm	40.000 rpm
Attacco utensile Tool holder	ISO 30	HSK 40E	HSK 32E	HSK 40E	HSK 32E
Raffreddamento Cooling	Electrofan	Liquid	Liquid	Liquid	Liquid
Cambio utensile Type of tool changer	Automatic	Automatic	Automatic	Automatic	Automatic
Lubrificazione cuscinetti Grease lubrication	Ceramic Grease lubrication	Ceramic Grease lubrication	Ceramic Grease lubrication	Ceramic Grease lubrication	Ceramic Grease lubrication
Peso Weight	16 Kg	17 Kg	17 Kg	17 Kg	17 Kg

CARATTERISTICHE

POWERTECH 210		POWERTECH 260												
QD-1F 4/12 24		QD-2 6.5/12 36	QD-2 6.5/12 40	QD-2 8/12 36	QD-2 8/12 40									
LAYOUT	LAYOUT HSK 63F CB  L tot= 445,5 <table><tr><td>ALTRI LAYOUT / OTHER LAYOUTS</td><td>ΔL mm</td><td>L tot mm</td></tr><tr><td>Aria compressa / Compressed air</td><td>HSK 63F= -6,9</td><td>449,7</td></tr><tr><td></td><td>HSK 63F= -40,2</td><td>416,4</td></tr></table>	ALTRI LAYOUT / OTHER LAYOUTS	ΔL mm	L tot mm	Aria compressa / Compressed air	HSK 63F= -6,9	449,7		HSK 63F= -40,2	416,4	LAYOUT HSK40E / HSK32E CC  L tot=375		LAYOUT HSK40E / HSK32E SC  L tot=375	
	ALTRI LAYOUT / OTHER LAYOUTS	ΔL mm	L tot mm											
Aria compressa / Compressed air	HSK 63F= -6,9	449,7												
	HSK 63F= -40,2	416,4												
VISTA FRONTALE ELETT. ELECTROS. FRONT VIEW														
EQUIPAGGIAMENTO EQUIPMENT	 ISO 30	 Double effect pneumatic cylinder	 Taper cleaning											
	 Labyrinth with air seal	 Sensors s1, s2, s3	 Ceramic ball bearings											
OPZIONALI OPTIONS	 Circular connector CC	 Dual voltage 220V-380V	 Compressed air cooling											
	 Quick connection PP	 HSK 63F	 Anti-rotation sleeves											
		 Encoder	 Voltage 220V	 Dual voltage 220V-380V (@16000 rpm)	 Temperature, vibration and speed monitoring									
	 Quick connection PP	 Temperature sensor	 Anti-rotation sleeves											

CARATTERISTICHE

	POWERTECH 300 COMPACT		POWERTECH 300		
SPECIFICHE TECNICHE / TECHNICAL SPECIFICATIONS	QE-1F 4/12 24	QE-1F 5.5/12 24	QE-1F 6.6/12 24	QE-1F 8/12 24	QE-2 9.5/12 24 LIQUID
Potenza (S1-S6) Power (S1-S6)	4/5 kW	5.5/6.5 kW	6.6/7.5 kW	8/9.5 kW	9.8/11 kW
Assorbimento corrente (S1-S6) Current consumption (S1-S6)	8.5/10 A	11/13 A	14.5/16 A	18.5/20.5 A	20.5/23 A
Tensione Voltage	380 V	380 V	380 V	380 V	380 V
Coppia (S1-S6) Torque (S1-S6)	3.2/4 Nm	4.3/5.2 Nm	5.3/5.9 Nm	6.4/7.6 Nm	7.6/8.8 Nm
Tipologia elettromandrino Type of electrospindle	Asynchronous 2 Poles w/inverter	Asynchronous 4 Pole w/inverter	Asynchronous 4 Poles w/inverter	Asynchronous 4 Poles w/inverterw	Asynchronous 4 Poles w/inverter
Velocità nominale Rated speed	12.000 rpm	12.000 rpm	12.000 rpm	12.000 rpm	12.000 rpm
Velocità massima Max speed	24.000 rpm	24.000 rpm	24.000 rpm	24.000 rpm	24.000 rpm
Attacco utensile Tool holder	ISO 30	ISO 30	HSK 63F	HSK 63F	ISO 30
Raffreddamento Cooling	Electrofan	Electrofan	Electrofan	Electrofan	Liquid
Cambio utensile Type of tool changer	Automatic	Automatic	Automatic	Automatic	Automatic
Lubrificazione cuscinetti Grease lubrication	Ceramic Grease lubrication	Ceramic Grease lubrication	Ceramic Grease lubrication	Ceramic Grease lubrication	Ceramic Grease lubrication
Peso Weight	19 Kg	19 Kg	21 Kg	23 Kg	21 Kg

	POWERTECH 300 COMPACT		POWERTECH 300																																									
	QE-1F 4/12 24	QE-1F 5.5/12 24	QE-1F 6.6/12 24	QE-1F 8/12 24	QE-2 9.5/12 24 LIQUID																																							
LAYOUT	LAYOUT ISO 30 CB  <table><tr><td>ALTRI LAYOUT / OTHER LAYOUTS</td><td>ΔL mm</td><td>L tot mm</td></tr><tr><td>Aria compresso / Compressed air</td><td>ISO 30= -44</td><td>349</td></tr><tr><td></td><td>HSK 63F=-44mm</td><td>34</td></tr></table>		ALTRI LAYOUT / OTHER LAYOUTS	ΔL mm	L tot mm	Aria compresso / Compressed air	ISO 30= -44	349		HSK 63F=-44mm	34	LAYOUT HSK 63F CB  <table><tr><td>ALTRI LAYOUT / OTHER LAYOUTS</td><td>ΔL mm</td><td>L tot mm</td></tr><tr><td>ISO 30</td><td>+6,9</td><td>489,4</td></tr><tr><td>Aria compressa / Compressed air</td><td>ISO30= -44</td><td>438,5</td></tr><tr><td></td><td>HSK 63F= -44</td><td>438,5</td></tr><tr><td>Encoder (1 V pp or TTL)</td><td>+7</td><td>489,5</td></tr><tr><td>Doppia tensione / Dual voltage</td><td>+31</td><td>513,5</td></tr></table>		ALTRI LAYOUT / OTHER LAYOUTS	ΔL mm	L tot mm	ISO 30	+6,9	489,4	Aria compressa / Compressed air	ISO30= -44	438,5		HSK 63F= -44	438,5	Encoder (1 V pp or TTL)	+7	489,5	Doppia tensione / Dual voltage	+31	513,5	LAYOUT ISO 30 PP  <table><tr><td>ALTRI LAYOUT / OTHER LAYOUTS</td><td>ΔL mm</td><td>L tot mm</td></tr><tr><td>Encoder (1 V pp or TTL)</td><td>ISO30= +7</td><td>439,5</td></tr><tr><td></td><td>HSK 63F= +7</td><td>432,5</td></tr><tr><td>HSK 63F</td><td>0</td><td>432,5</td></tr></table>	ALTRI LAYOUT / OTHER LAYOUTS	ΔL mm	L tot mm	Encoder (1 V pp or TTL)	ISO30= +7	439,5		HSK 63F= +7	432,5	HSK 63F	0	432,5
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VISTA FRONTALE ELETT. ELECTROS. FRONT VIEW																																												
EQUIPAGGIAMENTO EQUIPMENT	ISO 30 Single effect pneumatic cylinder Taper cleaning Labyrinth with air seal Sensors s1, s2, s3, s5 Ceramic ball bearings		HSK 63F Labyrinth with air seal Sensors s1, s2, s3, s5 Taper cleaning Double effect pneumatic cylinder Ceramic ball bearings																																									
OPZIONALI OPTIONS	Encoder Compressed air cooling HSK 63F Anti-rotation sleeves Circular connector CC Long nose (L=73 mm) Temperature, vibration and speed monitoring		Encoder ISO 30 Anti-rotation sleeves Long nose (L=145 mm) Air tool for HSK 63F Temperature, vibration and speed monitoring BT 30 Circular connector CC Dual voltage 220V-380V C-axis available Compressed air cooling Quick connection PP		* Solo per versione a liquido * Only for liquid version																																							



	POWERTECH 400 SPEED			
SPECIFICHE TECNICHE / TECHNICAL SPECIFICATIONS	QE-1F 10/11 24	QE-1F 12/12 24	QE-2 13/12 24	QE-2 16/12 24
Potenza (S1-S6) Power (S1-S6)	10/12 kW	12/14 kW	13/15 kW	16/19.5 kW
Assorbimento corrente (S1-S6) Current consumption (S1-S6)	25/27 A	23/27 A	28/31 A	31/36 A
Tensione Voltage	380 V	380 V	380 V	380 V
Coppia (S1-S6) Torque (S1-S6)	10.8/11.5 Nm	10.9/11.6 Nm	10.3/11.9 Nm	12.7/15.5 Nm
Tipologia elettromandrino Type of electrospindle	Asynchronous 4 Poles w/inverter	Asynchronous 4 Poles w/inverter	Asynchronous 4 Poles w/inverter	Asynchronous 4 Poles w/inverter
Velocità nominale Rated speed	11.000 rpm	12.000 rpm	12.000 rpm	12.000 rpm
Velocità massima Max speed	24.000 rpm	24.000 rpm	24.000 rpm	24.000 rpm
Attacco utensile Tool holder	HSK 63F	HSK 63F	HSK 63F	HSK 63F
Raffreddamento Cooling	Electrofan	Electrofan	Liquid	Liquid
Cambio utensile Type of tool changer	Automatic	Automatic	Automatic	Automatic
Lubrificazione cuscinetti Grease lubrication	Ceramic Grease lubrication	Ceramic Grease lubrication	Ceramic Grease lubrication	Ceramic Grease lubrication
Peso Weight	23 Kg	23 Kg	23 Kg	23 Kg

CARATTERISTICHE

POWERTECH 400 SPEED																														
QE-1F 10/11 24		QE-1F 12/12 24	QE-2 13/12 24	QE-2 16/12 24																										
LAYOUT	LAYOUT HSK 63F CB		LAYOUT HSK 63F CB																											
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EQUIPAGGIAMENTO EQUIPMENT	HSK 63F Sensors s1, s2, s3, s5 Taper cleaning Labyrinth with air seal Double effect pneumatic cylinder Ceramic ball bearings																													
OPZIONALI OPTIONS	Encoder ISO 30 Dual voltage 220V-380V Temperature, vibration and speed monitoring Long nose (L=145 mm) Quick connection PP Circular connector CC Anti-rotation sleeves C-axis available Compressed air cooling Air tool for HSK 63F * Non valido per 12 kW e 16 kW * Not valid for 12 kW and 16 kW																													

	POWERTECH 400 TORQUE			
SPECIFICHE TECNICHE / TECHNICAL SPECIFICATIONS	QE-1F 5.5/6 20	QE-1F 8.5/6 24	QE-2 9/6 24	QE-2 11/6 24
Potenza (S1-S6) Power (S1-S6)	5.5/6.6 kW	8.5/10.5 kW	9/10,5 kW	11/13 kW
Assorbimento corrente (S1-S6) Current consumption (S1-S6)	12/13 A	20/25 A	13.5/14.5 A	14.5/16 A
Tensione Voltage	380 V	380 V	380 V	380 V
Coppia (S1-S6) Torque (S1-S6)	8.8/10.5 Nm	13.5/16.7 Nm	14.3/16.7 Nm	17.5/20.7 Nm
Tipologia elettromandrino Type of electrospindle	Asynchronous 4 Poles w/inverter	Asynchronous 4 Poles w/inverter	Asynchronous 4 Poles w/inverter	Asynchronous 4 Poles w/inverter
Velocità nominale Rated speed	6.000 rpm	6.000 rpm	6.000 rpm	6.000 rpm
Velocità massima Max speed	20.000 rpm	24.000 rpm	24.000 rpm	24.000 rpm
Attacco utensile Tool holder	HSK 63F	HSK 63F	HSK 63F	HSK 63F
Raffreddamento Cooling	Electrofan	Electrofan	Liquid	Liquid
Cambio utensile Type of tool changer	Automatic	Automatic	Automatic	Automatic
Lubrificazione cuscinetti Grease lubrication	Ceramic Grease lubrication	Ceramic Grease lubrication	Ceramic Grease lubrication	Ceramic Grease lubrication
Peso Weight	23 Kg	23 Kg	21 Kg	21 Kg

CARATTERISTICHE

POWERTECH 400 TORQUE																															
QE-1F 5.5/6 20		QE-1F 8.5/6 24	QE-2 9/6 24	QE-2 11/6 24																											
LAYOUT	LAYOUT HSK 63F CB <table><tr><td>ALTRI LAYOUT / OTHER LAYOUTS</td><td>ΔL mm</td><td>L tot mm</td></tr><tr><td>ISO 30</td><td>+6,9</td><td>520,6</td></tr><tr><td>Aria compressa / Compressed air</td><td>ISO30= -44</td><td>469,5</td></tr><tr><td></td><td>HSK 63F= -44</td><td>469,5</td></tr><tr><td>Encoder (1 V pp or TTL)</td><td>+7</td><td>520,5</td></tr><tr><td></td><td>+7</td><td>470,5</td></tr></table>		ALTRI LAYOUT / OTHER LAYOUTS	ΔL mm	L tot mm	ISO 30	+6,9	520,6	Aria compressa / Compressed air	ISO30= -44	469,5		HSK 63F= -44	469,5	Encoder (1 V pp or TTL)	+7	520,5		+7	470,5	LAYOUT HSK 63F CB <table><tr><td>ALTRI LAYOUT / OTHER LAYOUTS</td><td>ΔL mm</td><td>L tot mm</td></tr><tr><td>Encoder (1 V pp or TTL)</td><td>+7</td><td>470,5</td></tr><tr><td>ISO 30</td><td>+7</td><td>470,5</td></tr></table>		ALTRI LAYOUT / OTHER LAYOUTS	ΔL mm	L tot mm	Encoder (1 V pp or TTL)	+7	470,5	ISO 30	+7	470,5
	ALTRI LAYOUT / OTHER LAYOUTS	ΔL mm	L tot mm																												
ISO 30	+6,9	520,6																													
Aria compressa / Compressed air	ISO30= -44	469,5																													
	HSK 63F= -44	469,5																													
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ALTRI LAYOUT / OTHER LAYOUTS	ΔL mm	L tot mm																													
Encoder (1 V pp or TTL)	+7	470,5																													
ISO 30	+7	470,5																													
VISTA FRONTALE ELETT. ELECTROS. FRONT VIEW																															
EQUIPAGGIAMENTO EQUIPMENT	HSK 63F Sensors s1, s2, s3, s5 Taper cleaning Labyrinth with air seal Double effect pneumatic cylinder Ceramic ball bearings																														
OPZIONALI OPTIONS	Encoder ISO 30 Temperature, vibration and speed monitoring Long nose Quick connection PP Circular connector CC Anti-rotation sleeves C-axis available *Compressed air cooling Air tool for HSK 63F * Non valido per 8,5 kW * Not valid for 8,5 kW																														



	POWERTECH 500				
SPECIFICHE TECNICHE / TECHNICAL SPECIFICATIONS	QF-1F 8/9 18	QF-1F 11/12 20	QF-1F 13/7 18	QF-2 12/6 18	QF-2 18/12 20
Potenza (S1-S6) Power (S1-S6)	8/10 kW	11/13.5 kW	13.3/16 kW	12/15 kW	18/21 kW
Assorbimento corrente (S1-S6) Current consumption (S1-S6)	20/24 A	28/32 A	20.5/23 A	28/35 A	36/41 A
Tensione Voltage	380 V	380 V	380 V	380 V	380 V
Coppia (S1-S6) Torque (S1-S6)	11.9/14.6 Nm	8.8/10.7 Nm	16.9/20.4 Nm	19.1/23.9 Nm	14.3/16.7 Nm
Tipologia elettromandrino Type of electrospindle	Asynchronous 4 Poles w/inverter	Asynchronous 4 Poles w/inverter	Asynchronous 4 Poles w/inverter	Asynchronous 4 Poles w/inverter	Asynchronous 4 poles w/inverter
Velocità nominale Rated speed	9.000 rpm	12.000 rpm	7.000 rpm	6.000 rpm	12.000 rpm
Velocità massima Max speed	18.000 rpm	20.000 rpm	18.000 rpm	18.000 rpm	20.000 rpm
Attacco utensile Tool holder	HSK 63F	HSK 63F	HSK 63F	HSK 63F	HSK 63F
Raffreddamento Cooling	Electrofan	Electrofan	Electrofan	Liquid	Liquid
Cambio utensile Type of tool changer	Automatic	Automatic	Automatic	Automatic	Automatic
Lubrificazione cuscinetti Grease lubrication	Ceramic Grease lubrication	Ceramic Grease lubrication	Ceramic Grease lubrication	Ceramic Grease lubrication	Ceramic Grease lubrication
Peso Weight	35 Kg	35 Kg	35 Kg	35 Kg	35 Kg

CARATTERISTICHE

POWERTECH 500																				
QF-1F 8/9 18		QF-1F 11/12 20		QF-1F 13/7 18		QF-2 12/6 18		QF-2 18/12 20												
LAYOUT	LAYOUT HSK 63F CC				LAYOUT HSK 63F CC															
	L tot= 597,8 <table><tr><td>ALTRI LAYOUT / OTHER LAYOUTS</td><td>ΔL mm</td><td>L tot mm</td></tr><tr><td>HSK 63E</td><td>+21</td><td>547,5</td></tr></table>				ALTRI LAYOUT / OTHER LAYOUTS	ΔL mm	L tot mm	HSK 63E	+21	547,5	L tot= 529,5 <table><tr><td>ALTRI LAYOUT / OTHER LAYOUTS</td><td>ΔL mm</td><td>L tot mm</td></tr><tr><td>HSK 63E</td><td>+21</td><td>547,5</td></tr></table>					ALTRI LAYOUT / OTHER LAYOUTS	ΔL mm	L tot mm	HSK 63E	+21
ALTRI LAYOUT / OTHER LAYOUTS	ΔL mm	L tot mm																		
HSK 63E	+21	547,5																		
ALTRI LAYOUT / OTHER LAYOUTS	ΔL mm	L tot mm																		
HSK 63E	+21	547,5																		
VISTA FRONTALE ELETT. ELECTROS. FRONT VIEW																				
EQUIPAGGIAMENTO EQUIPMENT	HSK 63F Sensors s1, s2, s3 Taper cleaning Labyrinth with air seal Double effect pneumatic cylinder Ceramic ball bearings Circular connector CC																			
OPZIONALI OPTIONS	HSK 63E Quick connection PP Temperature, vibration and speed monitoring																			

	POWERTECH 600	
SPECIFICHE TECNICHE / TECHNICAL SPECIFICATIONS	QM-1F 11/6 10	QM-1F 18/6 12
Potenza (S1-S6) Power (S1-S6)	11/13 kW	18/21 kW
Assorbimento corrente (S1-S6) Current consumption (S1-S6)	25/33 A	37/42 A
Tensione Voltage	380 V	380 V
Coppia (S1-S6) Torque (S1-S6)	19.1/24.6 Nm	30/33.6 Nm
Tipologia elettromandrino Type of electrospindle	Asynchronous 4 Poles w/inverter	Asynchronous 4 Poles w/inverter
Velocità nominale Rated speed	6.000 rpm	6.000 rpm
Velocità massima Max speed	10.000 rpm	12.000 rpm
Attacco utensile Tool holder	HSK 80F	HSK 80F
Raffreddamento Cooling	Electrofan	Electrofan
Cambio utensile Type of tool changer	Automatic	Automatic
Lubrificazione cuscinetti Grease lubrication	Ceramic Grease lubrication	Ceramic Grease lubrication
Peso Weight	70 Kg	70 Kg

CARATTERISTICHE

	POWERTECH 600	
	QM-1F 11/6 10	QM-1F 18/6 12
LAYOUT	LAYOUT HSK 80F CC L tot= 597,5	
VISTA FRONTALE ELETT. ELECTROS. FRONT VIEW		
EQUIPAGGIAMENTO EQUIPMENT	HSK 80F Sensors s1, s2, s3 Taper cleaning Labyrinth with air seal Single effect pneumatic cylinder Circular connector CC	
OPZIONALI OPTIONS	HSK 85S Quick connection PP Temperature, vibration and speed monitoring	

SPEEDTECH



POWERTECH 210



POWERTECH 260



POWERTECH 300 COMPACT



POWERTECH 300



POWERTECH 400



POWERTECH 500

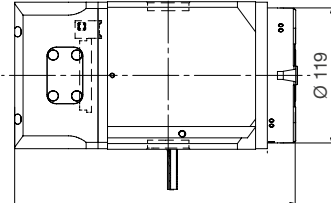
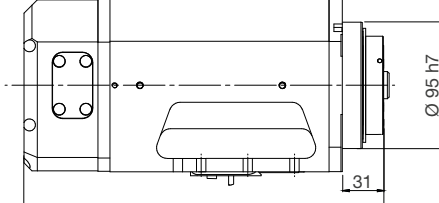
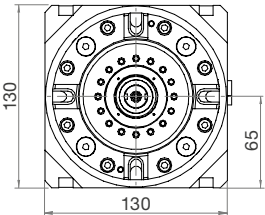
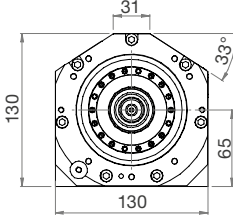


POWERTECH 600



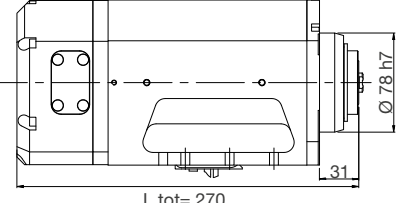
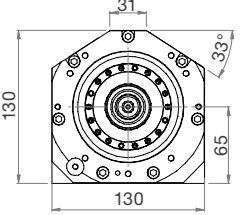
	ROBOTECH HD	ROBOTECH QX			
SPECIFICHE TECNICHE / TECHNICAL SPECIFICATIONS	HD-2 5.6/18 20	QX-1C 5/12 21	QX-2 8.5/12 24	QX-2 11/12 24	QX-2 11/10 24
Potenza (S1-S6) Power (S1-S6)	5.6/7 kW	5/7 kW	8.5/10 kW	11/13.5 kW	11/12 kW
Assorbimento corrente (S1-S6) Current consumption (S1-S6)	12/14 A	11/13.5 A	20/22 A	24.5/29.5 A	29/31 A
Tensione Voltage	380 V	380 V	380 V	380 V	380 V
Coppia (S1-S6) Torque (S1-S6)	3/3.7 Nm	4/5.6 Nm	6.8/8 Nm	8.8/10.7 Nm	10,5/11,7 Nm
Tipologia elettromandrino Type of electrospindle	Asynchronous 4 poles	Asynchronous 4 poles w/inverter	Asynchronous 4 poles w/inverter	Asynchronous 4 poles w/inverter	Asynchronous 6 poles w/inverter
Velocità nominale Rated speed	18.000 rpm	12.000 rpm	12.000 rpm	12.000 rpm	10.000 rpm
Velocità massima Max speed	20.000 rpm	21.000 rpm	24.000 rpm	24.000 rpm	24.000 rpm
Attacco utensile Tool holder	HSK 50F/40E	HSK 63F	HSK 63F	HSK 63F	HSK 63F
Raffreddamento Cooling	Liquid	Compressed air	Liquid	Liquid	Liquid
Cambio utensile Type of tool changer	Automatic	Automatic	Automatic	Automatic	Automatic
Lubrificazione cuscinetti Grease lubrication	Ceramic Grease lubrication	Ceramic Grease lubrication	Ceramic Grease lubrication	Ceramic Grease lubrication	Ceramic Grease lubrication
Peso Weight	18 Kg	19 Kg	19 Kg	19 Kg	19 Kg

CARATTERISTICHE

	ROBOTECH HD	ROBOTECH QX									
	HD-2 5.6/18 20	QX-1C 5/12 21	QX-2 8.5/12 24	QX-2 11/12 24	QX-2 11/10 24						
LAYOUT	LAYOUT HSK 50F  L tot= 238	LAYOUT HSK 63F  L tot= 270 <table><tr><td>ALTRI LAYOUT / OTHER LAYOUTS</td><td>ΔL mm</td><td>L tot mm</td></tr><tr><td>Encoder (1 Vpp or TTL)</td><td>+25</td><td>295</td></tr></table>				ALTRI LAYOUT / OTHER LAYOUTS	ΔL mm	L tot mm	Encoder (1 Vpp or TTL)	+25	295
ALTRI LAYOUT / OTHER LAYOUTS	ΔL mm	L tot mm									
Encoder (1 Vpp or TTL)	+25	295									
VISTA FRONTALE ELETTR. ELECTROS. FRONT VIEW	 130 65 130	 130 65 31 33°									
EQUIPAGGIAMENTO EQUIPMENT	HSK 50F Sensors s1, s2, s3, s5 Taper cleaning Labyrinth with air seal Single effect pneumatic cylinder Anti-rotation sleeves	HSK 63F Sensors s1, s2, s3, s5 Taper cleaning Single effect pneumatic cylinder Labyrinth with air seal									
OPZIONALI OPTIONS	Encoder HSK 40E	Encoder Anti-rotation sleeves Temperature, vibration and speed monitoring			Encoder Anti-rotation sleeves Temperature, vibration and speed monitoring						
		Voltage 220V									

	ROBOTECH QX HIGH SPEED	
SPECIFICHE TECNICHE / TECHNICAL SPECIFICATIONS	QX-2 8/15 36	QX-2 8/15 40
Potenza (S1-S6) Power (S1-S6)	8/9 kW	8/9 kW
Assorbimento corrente (S1-S6) Current consumption (S1-S6)	23/25 A	23/25 A
Tensione Voltage	380 V	380 V
Coppia (S1-S6) Torque (S1-S6)	5.2/6 Nm	5.2/6 Nm
Tipologia elettromandrino Type of electrospindle	Asynchronous 4 Poles w/inverter	Asynchronous 4 Poles w/inverter
Velocità nominale Rated speed	15.000 rpm	15.000 rpm
Velocità massima Max speed	36.000 rpm	40.000 rpm
Attacco utensile Tool holder	HSK 40E	HSK 32E
Raffreddamento Cooling	Liquid	Liquid
Cambio utensile Type of tool changer	Automatic	Automatic
Lubrificazione cuscinetti Grease lubrication	Ceramic Grease lubrication	Ceramic Grease lubrication
Peso Weight	18 Kg	18 Kg

CARATTERISTICHE

	ROBOTECH QX HIGH SPEED							
	QX-2 8/15 36	QX-2 8/15 40						
LAYOUT	LAYOUT HSK 32E / HSK 40E  <table><tr><td>ALTRI LAYOUT / OTHER LAYOUTS</td><td>ΔL mm</td><td>L tot mm</td></tr><tr><td>Encoder (1 Vpp or TTL)</td><td>+25</td><td>295</td></tr></table>		ALTRI LAYOUT / OTHER LAYOUTS	ΔL mm	L tot mm	Encoder (1 Vpp or TTL)	+25	295
ALTRI LAYOUT / OTHER LAYOUTS	ΔL mm	L tot mm						
Encoder (1 Vpp or TTL)	+25	295						
VISTA FRONTALE ELETTR. ELECTROS. FRONT VIEW								
EQUIPAGGIAMENTO EQUIPMENT	HSK 32E / HSK 40E Labyrinth with air seal Sensors s1, s2, s3, s5 Taper cleaning Single effect pneumatic cylinder Ceramic ball bearings							
OPZIONALI OPTIONS	Encoder Anti-rotation sleeves Temperature, vibration and speed monitoring							



	ROBOTECH PX/HX/HX 3C			
SPECIFICHE TECNICHE / TECHNICAL SPECIFICATIONS	10/7 24	12/12 24	13/7 24	15/12 24
Potenza (S1-S6) Power (S1-S6)	10/12 kW	12/14 kW	13/16 kW	15/17 kW
Assorbimento corrente (S1-S6) Current consumption (S1-S6)	21/25 A	26/29 A	35/39 A	30/33 A
Tensione Voltage	380 V	380 V	380 V	380 V
Coppia (S1-S6) Torque (S1-S6)	13.6/16.4 Nm	9.5/11 Nm	17/19 Nm	11.9/13.8 Nm
Tipologia elettromandrino Type of electrospindle	Asynchronous 4 poles	Asynchronous 4 poles	Asynchronous 6 Poles	Asynchronous 4 Poles
Velocità nominale Rated speed	7.000 rpm	12.000 rpm	7.000 rpm	12.000 rpm
Velocità massima Max speed	24.000 rpm	24.000 rpm	24.000 rpm	24.000 rpm
Attacco utensile Tool holder	HSK 63F	HSK 63F	HSK 63F	HSK 63F
Raffreddamento Cooling	Liquid	Liquid	Liquid	Liquid
Cambio utensile Type of tool changer	Automatic	Automatic	Automatic	Automatic
Lubrificazione cuscinetti Grease lubrication	Ceramic Grease lubrication	Ceramic Grease lubrication	Ceramic Grease lubrication	Ceramic Grease lubrication
Peso Weight	25 Kg	25 Kg	25 Kg	25 Kg

CARATTERISTICHE

	ROBOTECH PX/HX/HX 3C			
	10/7 24	12/12 24	13/7 24	15/12 24
LAYOUT	LAYOUT PX NC/NL 	LAYOUT HX NC/NL 	LAYOUT PX NC/NL 	
VISTA FRONTALE ELETTR. ELECTROS. FRONT VIEW				
EQUIPAGGIAMENTO EQUIPMENT	HSK 63F Labyrinth with air seal Sensors s1, s2, s3, s5 Taper cleaning Single effect pneumatic cylinder Ceramic ball bearings Circular connector cc (only for 3c version)			
OPZIONALI OPTIONS	Encoder Long nose (L=113 mm) HSK 63E/63A Rotary union CTS/MQL/Air Tool Anti-rotation sleeves HSK plus Temperature, vibration and speed monitoring			

	ROBOTECH PX/HX/HX 3C		
SPECIFICHE TECNICHE / TECHNICAL SPECIFICATIONS	18/12 24	20/10 24 (SYNCHRONOUS)	24/10 24 (SYNCHRONOUS)
Potenza (S1-S6) Power (S1-S6)	18/20 kW	20/22.3 kW	24/30 kW
Assorbimento corrente (S1-S6) Current consumption (S1-S6)	35/38.5 A	48/50A	56/70 A
Tensione Voltage	380 V	380 V	400 V
Coppia (S1-S6) Torque (S1-S6)	14.3/15.9 Nm	17.8/20.1 Nm	23.4/29 Nm
Tipologia elettromandrino Type of electrospindle	Asynchronous 4 poles	Synchronous 4 Poles	Synchronous 6 Poles
Velocità nominale Rated speed	12.000 rpm	10.000 rpm	10.000 rpm
Velocità massima Max speed	24.000 rpm	24.000 rpm	24.000 rpm
Attacco utensile Tool holder	HSK 63F	HSK 63F	HSK 63F
Raffreddamento Cooling	Liquid	Liquid	Liquid
Cambio utensile Type of tool changer	Automatic	Automatic	Automatic
Lubrificazione cuscinetti Grease lubrication	Ceramic Grease lubrication	Ceramic Grease lubrication	Ceramic Grease lubrication
Peso Weight	25 Kg	25 Kg	26 Kg

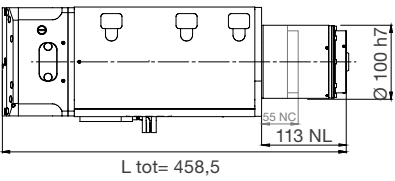
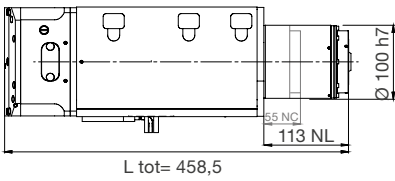
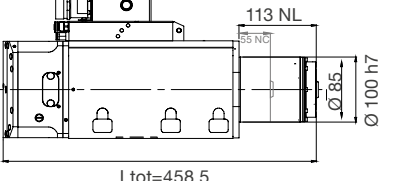
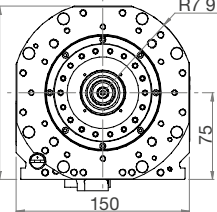
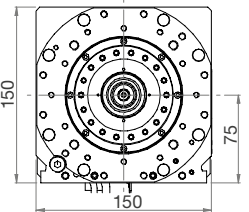
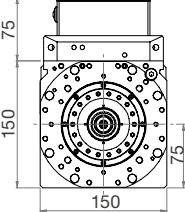
CARATTERISTICHE

	ROBOTECH PX/HX/HX 3C		
	18/12 24	20/10 24 (SYNCHRONOUS)	24/10 24 (SYNCHRONOUS)
LAYOUT	LAYOUT PX NC/NL 	LAYOUT HX NC/NL 	LAYOUT HX 3C NC/NL
VISTA FRONTALE ELETTR. ELECTROS. FRONT VIEW			
EQUIPAGGIAMENTO EQUIPMENT	HSK 63F Labyrinth with air seal Sensors s1, s2, s3, s5 Taper cleaning Single effect pneumatic cylinder Ceramic ball bearings Circular connector cc (only for 3c version)		
OPZIONALI OPTIONS	Encoder Long nose (L=113 mm) Circular connector cc machine side HSK 63E/63A Rotary union CTS/MQL/Air Tool Anti-rotation sleeves HSK plus Temperature, vibration and speed monitoring		



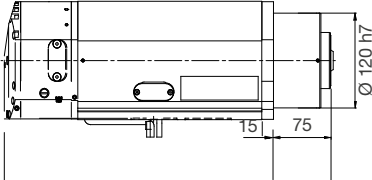
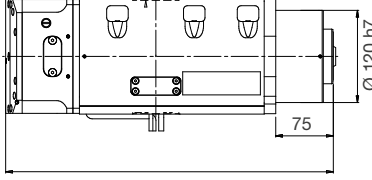
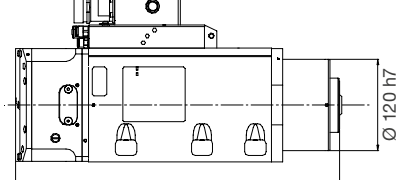
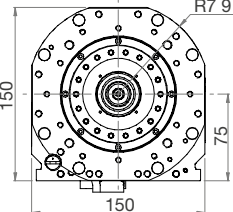
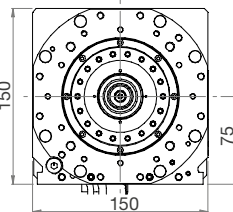
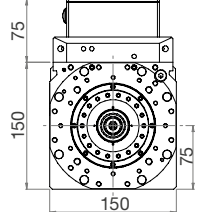
	ROBOTECH PT/HT/HT 3C			
SPECIFICHE TECNICHE / TECHNICAL SPECIFICATIONS	18/6 18 NC	18/6 24 NL	25/10 18 NC	25/10 24 NL
Potenza (S1-S6) Power (S1-S6)	18/21.5 kW	18/21,5 kW	25/30 kW	25/30 kW
Assorbimento corrente (S1-S6) Current consumption (S1-S6)	53/63 A	53/63 A	53/60 A	53/63 A
Tensione Voltage	380 V	380 V	380 V	380 V
Coppia (S1-S6) Torque (S1-S6)	30/34 Nm	30/34 Nm	24.2/26.6 Nm	23.9/28.7 Nm
Tipologia elettromandrino Type of electrospindle	Asynchronous 6 poles	Asynchronous 6 Poles	Asynchronous 4 Poles	Asynchronous 4 Poles
Velocità nominale Rated speed	6.000 rpm	6.000 rpm	10.000 rpm	10.000 rpm
Velocità massima Max speed	18.000 rpm	24.000 rpm	18.000 rpm	24.000 rpm
Attacco utensile Tool holder	HSK 63F+	HSK 63F+	HSK 63F+	HSK 63F+
Raffreddamento Cooling	Liquid	Liquid	Liquid	Liquid
Cambio utensile Type of tool changer	Automatic	Automatic	Automatic	Automatic
Lubrificazione cuscinetti Grease lubrication	Ceramic Grease lubrication	Ceramic Grease lubrication	Ceramic Grease lubrication	Ceramic Grease lubrication
Peso Weight	44 Kg	42 Kg	44 Kg	42 Kg

CARATTERISTICHE

	ROBOTECH PT/HT/HT 3C			
	18/6 18 NC	18/6 24 NL	25/10 18 NC	25/10 24 NL
LAYOUT	LAYOUT HT NC 	LAYOUT HT NL 	LAYOUT HT 3C NL 	
VISTA FRONTALE ELETTR. ELECTROS. FRONT VIEW				
EQUIPAGGIAMENTO EQUIPMENT	HSK 63F PLUS Labyrinth with air seal Sensors s1, s2, s3, s5 Taper cleaning Single effect pneumatic cylinder Ceramic ball bearings Short/long nose Circular connector cc (only for 3C version)			
OPZIONALI OPTIONS	Encoder Rotary union CTS/MQL/Air Tool Anti-rotation sleeves HSK 63E PLUS HSK 63A PLUS Temperature, vibration and speed monitoring			

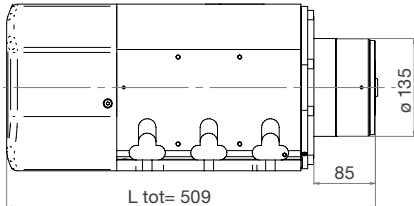
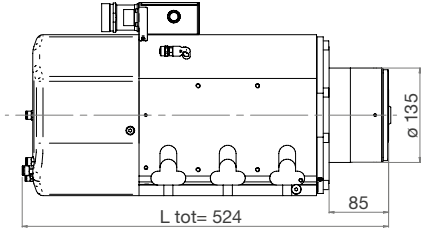
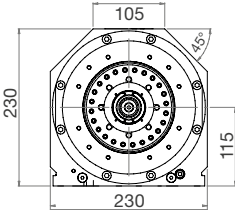
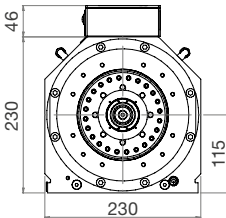
	ROBOTECH PT/HT/HT 3C HEAVY NOSE		
SPECIFICHE TECNICHE / TECHNICAL SPECIFICATIONS	18/6 18 NH	25/10 18 NH	25/4 16 NH
Potenza (S1-S6) Power (S1-S6)	18/21.5 kW	25/30 kW	25/30 kW
Assorbimento corrente (S1-S6) Current consumption (S1-S6)	53/63 A	53/60 A	54/74 A
Tensione Voltage	380 V	380 V	380 V
Coppia (S1-S6) Torque (S1-S6)	30/34 Nm	24.2/26.6 Nm	56.6/70.7 Nm
Tipologia elettromandrino Type of electrospindle	Asynchronous 6 poles	Asynchronous 4 Poles	Synchronous 8 Poles
Velocità nominale Rated speed	6.000 rpm	10.000 rpm	4.000 rpm
Velocità massima Max speed	18.000 rpm	18.000 rpm	16.000 rpm
Attacco utensile Tool holder	HSK 63F+	HSK 63F+	HSK63F+
Raffreddamento Cooling	Liquid	Liquid	Liquid
Cambio utensile Type of tool changer	Automatic	Automatic	Automatic
Lubrificazione cuscinetti Grease lubrication	Ceramic Grease lubrication	Ceramic Grease lubrication	Ceramic Grease long life
Peso Weight	44 Kg	44 Kg	44 Kg

CARATTERISTICHE

	ROBOTECH PT/HT/HT 3C HEAVY NOSE		
	18/6 18 NH	25/10 18 NH	25/4 16 NH
LAYOUT	LAYOUT PT NH 	LAYOUT HT NH 	LAYOUT HT 3C NH 
VISTA FRONTALE ELETTR. ELECTROS. FRONT VIEW			
EQUIPAGGIAMENTO EQUIPMENT	HSK 63F PLUS Labyrinth with air seal Sensors s1, s2, s3, s5 Taper cleaning Single effect pneumatic cylinder Heavy nose (NH) Circular connector		
OPZIONALI OPTIONS	Encoder Rotary union CTS/MQL/Air Tool Anti-rotation sleeves HSK 63E PLUS HSK 63A PLUS Temperature, vibration and speed monitoring		

	ROBOTECH QM/QM 3C	
SPECIFICHE TECNICHE / TECHNICAL SPECIFICATIONS	QM-2 30/6 13	QM-2 34/6 13
Potenza (S1-S6) Power (S1-S6)	30/35 kW	34/40 kW
Assorbimento corrente (S1-S6) Current consumption (S1-S6)	59/65 A	61/72 A
Tensione Voltage	380 V	380 V
Coppia (S1-S6) Torque (S1-S6)	47.7/55.7 Nm	54/63 Nm
Tipologia elettromandrino Type of electros spindle	Asynchronous 4 poles w/inverter	Asynchronous 4 poles w/inverter
Velocità nominale Rated speed	6.000 rpm	6.000 rpm
Velocità massima Max speed	13.000 rpm	13.000 rpm
Attacco utensile Tool holder	HSK 63A	HSK 63A
Raffreddamento Cooling	Liquid	Liquid
Cambio utensile Type of tool changer	Automatic	Automatic
Lubrificazione cuscinetti Grease lubrication	Ceramic Grease lubrication	Ceramic Grease lubrication
Peso Weight	75 Kg	75 Kg

CARATTERISTICHE

ROBOTECH QM/ QM 3C		
	QM-2 30/6 13	QM-2 34/6 13
LAYOUT	LAYOUT HSK 63A 	LAYOUT HSK 63A 3C 
VISTA FRONTALE ELETTR. ELECTROS. FRONT VIEW		
EQUIPAGGIAMENTO EQUIPMENT	 HSK 63A  Labyrinth with air seal  Sensors s1, s2, s3, s5  Taper cleaning  Single effect pneumatic cylinder  Encoder	
OPZIONALI OPTIONS	 Rotary union GTS/MQL/ Air Tool  HSK 80F  HSK 85S  Temperature, vibration and speed monitoring	

ROBOTECH HX 3C	ROBOTECH PX
ROBOTECH QX HS	ROBOTECH HT
ROBOTECH PT	ROBOTECH HT NH
ROBOTECH HD	ROBOTECH HT 3C
ROBOTECH HX	ROBOTECH QM
ROBOTECH QX	ROBOTECH QM 3C

IDENTIFICAZIONE ELETTROMANDRINI / ELECTROSPINDLE IDENTIFICATION KEY

Example

QE

IF

10/TI

24

63F

NC

CB

EN

BT

OQ

IM

MODELLO (DIMENSIONE CARCASSA) /
MODEL (HOUSING DIMENSION)

QD

102 X 119,5 mm

QE

110 X 111 mm

QF

130 X 140 mm

QF

150 X 160 mm

QM

215 X 245 mm, 230x230 mm

QX

130 X 130 mm

PX

150 X 150 mm

HX

150 X 150 mm

PT

150 X 150 mm

HT

150 X 150 mm

HD

130 X 130 mm

RAFFREDDAMENTO /
COOLING TYPE

1F=

ELETTROVENTOLA/
ELECTROFAN



1C=

ARIA COMPRESSA/
COMPRESSED AIR



2=

LIQUIDO/LIQUID



1=

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

63F = HSK63F

63F+ = HSK63F PLUS

32E = HSK32E

40E = HSK40E

63E = HSK63E

63E+ = HSK63E PLUS

50F = HSK50F

63A = HSK63A

63A+ = HSK63A PLUS

I30 = ISO30

NASO MANDRINO / SPINDLE NOSE

NC = NASO CORTO/SHORT NOSE

NL = NASO LUNGO/LONG NOSE

NH = HEAVY NOSE

CONNESSIONE ELETTRICA /
ELECTRIC CONNECTION

CB = CONNESSIONE BASE/
BASIC CONNECTION

CC = CONNESSIONE CIRCOLARE/
CIRCULAR CONNECTION

PP = CONNESSIONE RAPIDA/
PLUG AND PLAY CONNECTION

ENCODER

ES = ENCODER 1 VPP (SYNUSOIDAL WAVE)

EN = ENCODER TTL (SQUARE WAVE)

VOLTAGGIO / VOLTAGE

BT = BITENSIONE / DUAL VOLTAGE 220V/380V

220 V

OPTIONAL

OQ = OIL MIST + MQL (Minimal Quantity
Lubrication)

AT = AIR TOOL

OM = OIL MIST

CTS = LUBRIFICAZIONE CTS/
COOLANT THROUGH THE SHAFT

ALTRE VARIANTI/
OTHER VARIANTS

SENSORE DI VIBRAZIONE/
VIBRATION SENSOR





MONITORAGGIO TEMPERATURA CUSCINETTI/
BEARING TEMPERATURE MONITORING





MISURATORE DI VELOCITÀ/
SPEED MONITORING





S5 - SENSORE RITORNO PISTONE/
PISTON BACK SENSOR



SENSORE S5

SENSORE DI TEMPERATURA/
TEMPERATURE SENSOR





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