



## LINEA Smart Change

**Smart Change** è un sistema facile e innovativo, compatto nel design e veloce da utilizzare, che, grazie ad un triplo contatto, riesce a garantire una maggior rigidità e permette una miglior precisione durante la lavorazione. La modularità del sistema dà quindi la possibilità all'utilizzatore di poter usufruire di un'ampia gamma di adattori di diversa dimensione che possono essere pre-settati fuori macchina in tempo mascherato, aumentando così la produttività e diminuendo tempi e costi di attrezzamento macchina.

*Smart Change is an easy and innovative system, compact in design and quick to use, which, thanks to a triple contact, manages to ensure greater rigidity and allows better precision during the processing. The modularity of the system therefore gives the user the possibility to take advantage of a wide range of different size adapters that can be pre-set off the machine in masked time, thus increasing productivity and decreasing tooling times and costs machine.*

### **PRESETTAGGIO** fuori macchina.

#### *Outside presetting*

Una volta montato l'utensile è possibile **pre-settare la cartuccia utilizzando l'apposito adattatore.**

*Once the cutting tool is mounted, it is possible to preset the adapter in the presetter thanks to the Smart Change adapter.*



**Adattatori disponibili**

ISO -BT 40 / 50 -  
HSK 63 / 100

*Available adapters  
ISO -BT 40 / 50 -  
HSK 63 / 100*

Ciò permette di **ridurre i tempi e i costi** legati all'attrezzamento macchina che avverrà in tempo mascherato, **aumentando notevolmente la produttività.**

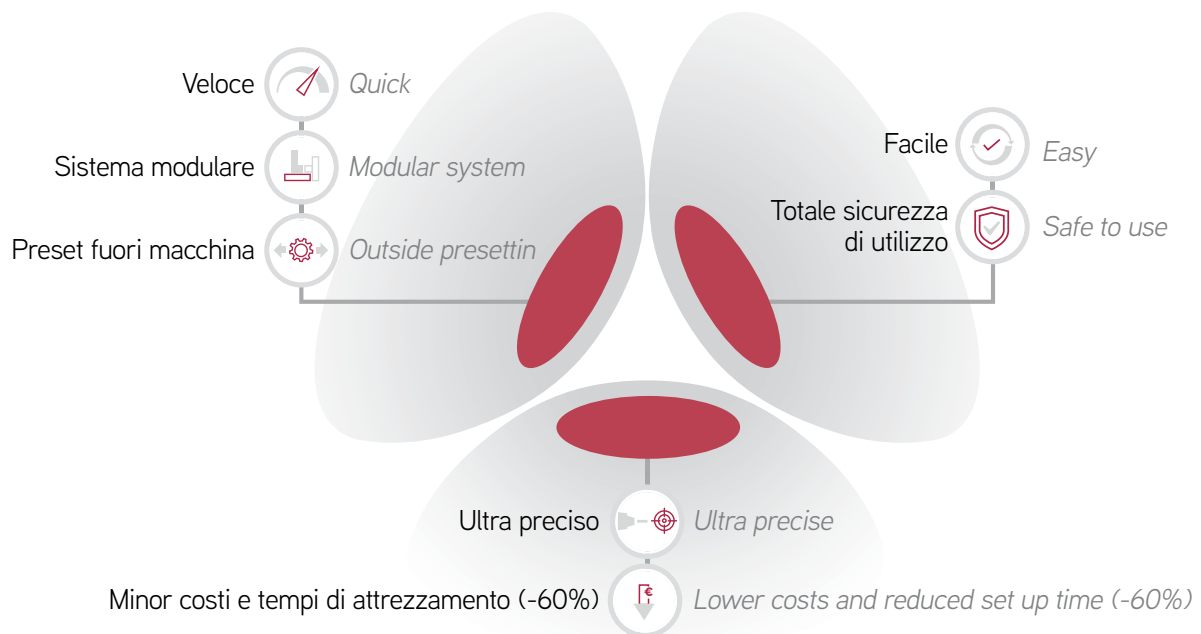
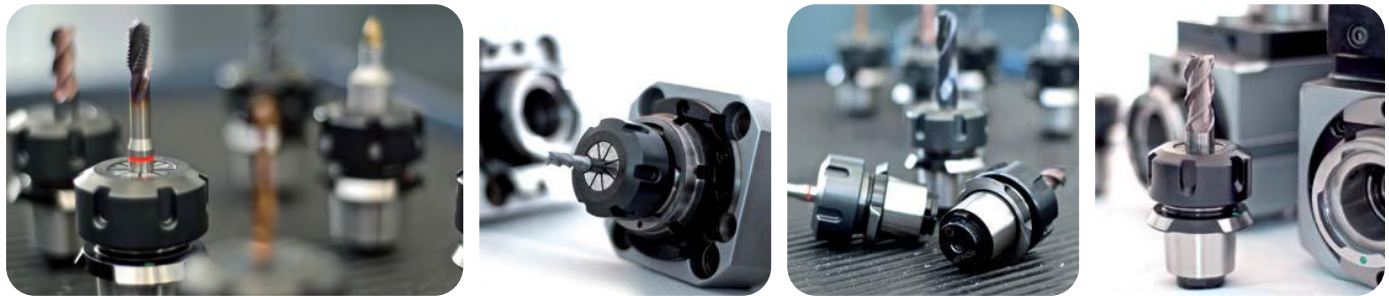
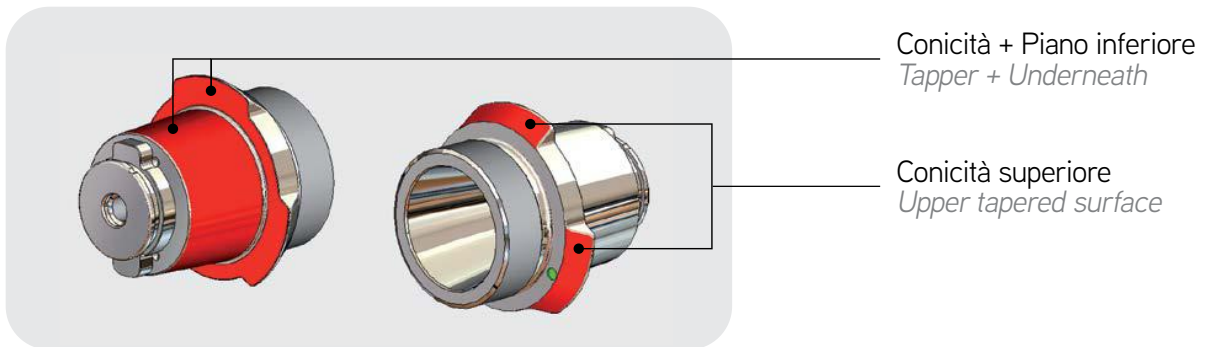
*This system allows to **reduce time and costs** for the set up with **tremendous increase in the productivity.***

# LINEA SMART CHANGE

## Perchè **3 VOLTE SMART...**

*Why 3 times smart...*

Il sistema **Smart Change** sfrutta ben **3 superfici di contatto** per una maggior precisione e ripetibilità.  
*Our Smart Change system features 3 contact surfaces as shown for a higher precision and accuracy.*



**INCREMENTO DELLA PRODUTTIVITÀ**  
*INCREASED PRODUCTIVITY*

## COME È FATTO

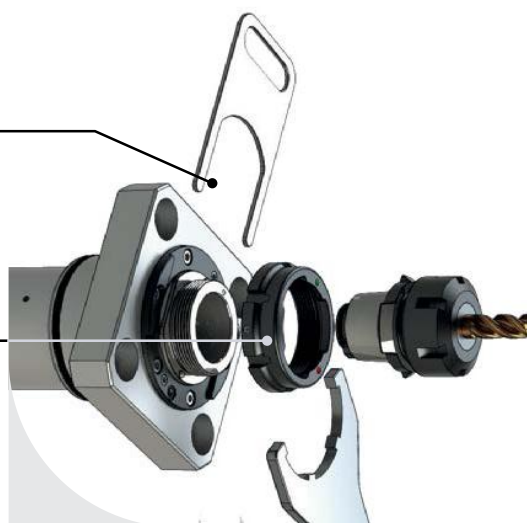
*How it is made*

- **Chiave di riscontro SmartChange**  
(permette montaggio con una sola mano)

*SmartChange Wrench  
(one-hand handling)*

- **Ghiera SmartChange brevettata**  
(fissata al corpo principale)

*Patented SmartChange nut  
(fixed on the main body)*



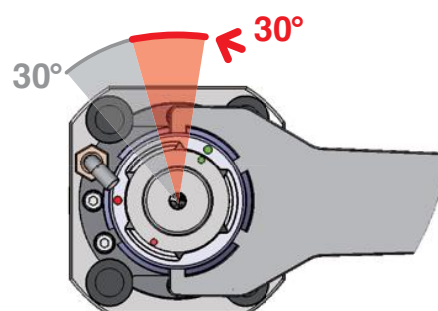
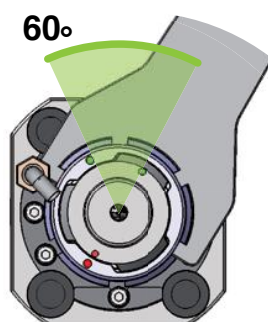
## COME FUNZIONA

*How it works*

- **Bloccaggio Ghiera**  
*Clamping nut*

- **Sbloccaggio**  
*Unclamping*

- **Estrazione**  
*Pull out*



Tempo massimo di sostituzione cartucce  
*Time to change front end*

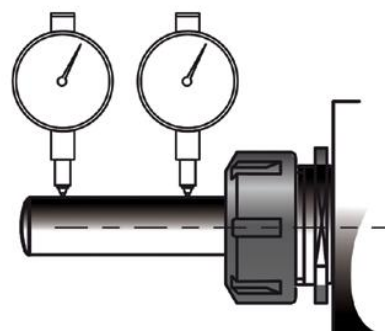
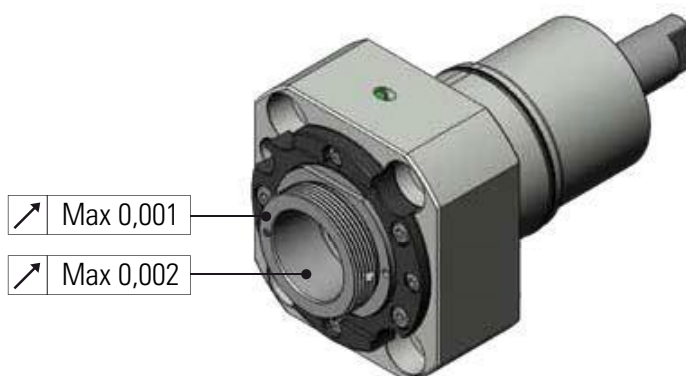
**20"**

Precisione con barra inserita nel mandrino  
*Accuracy with gauge bar inserted in the collet chuck*

Ripetibilità / *Repeatability*

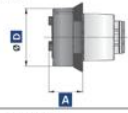
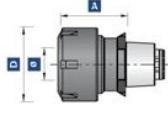
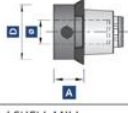
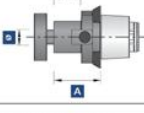
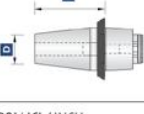
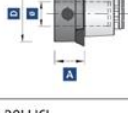
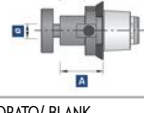
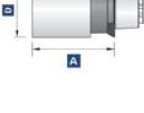
**0,003 mm**

a 40mm = 0.008 mm | at 40mm = 0.008 mm  
a 120mm = 0.01 mm | at 120mm = 0.01 mm



# DATI TECNICI

## Technical Data

PORTAPINZA INCASSATO IN-BUILT COLLET 	ER-20A (Ø1/13mm)			ER-25A (Ø1/16mm)																						
	Ø	A	D	Ø	A	D																				
	1/13	21.5	36.8	1/16	32.4	41																				
PORTAPINZA / COLLET 	ER-20 (Ø1/13mm)			ER-25 (Ø1/17mm)			ER-32 (Ø2/22mm)			PORTAPINZA / COLLET			ERC20 (Ø1/13mm)			ERC25 (Ø1/16mm)			ERC32 (Ø2/20mm)							
	Ø	A	D	Ø	A	D	Ø	A	D	Ø	A	D	Ø	A	D	Ø	A	D	Ø	A	D	Ø	A	D		
1/13	28.5	34	1/16	30.5	42	2/20	41.5	50	1/13	33.5	34	1/16	35.5	42	2/20	46.5	50									
WELDON 	(Ø6)			(Ø5)			(Ø10)			(Ø12)			(Ø16)													
	Ø	A	D	Ø	A	D	Ø	A	D	Ø	A	D	Ø	A	D	Ø	A	D	Ø	A	D	Ø	A	D		
6	20	36.8	8	20	36.8	10	20	36.8	12	20	36.8	16	20	36.8												
PORTAFRESA / SHELL MILL 	(Ø13)			(Ø16)			(Ø22)																			
	Ø	A	H	Ø	A	H	Ø	A	H	Ø	A	H														
13	24.5	13	16	30.5	17	22	32.5	19																		
CALETTAMENTO / SHRINK FIT 	(Ø3mm)			(Ø4mm)			(Ø6mm)			(Ø8mm)			(Ø10mm)			(Ø12)			(Ø16)							
	Ø	A	D	Ø	A	D	Ø	A	D	Ø	A	D	Ø	A	D	Ø	A	D	Ø	A	D	Ø	A	D	Ø	A
3	40	13	4	40	15	6	40	21	8	40	21	10	40	24	12	40	24	16	45	27						
WELDON POLLICI / INCH 	(Ø1/4")			(Ø3/8")			ER-20 (Ø1/2")			(Ø5/8")			(Ø3/4")													
	Ø	A	D	Ø	A	D	Ø	A	D	Ø	A	D	Ø	A	D	Ø	A	D	Ø	A	D	Ø	A	D		
1/4"	20	36,8	3/8"	20	36,8	1/2"	20	36,8	5/8"	20	36,8	3/4"	20	36,8												
PORTAFRESA POLLICI SHELL MILL INCH 	(Ø3/4")			(Ø1")																						
	Ø	A	H	Ø	A	H																				
3/4"	31	17,5	1"	30,77	17,27																					
SEMILAVORATO / BLANK 	BLANK																									
	Ø	A	D																							
/	81	52																								

### Accessori / Accessories



Adattatore preset ISO/BT  
Preset adapter ISO/BT



Adattatore preset HSK  
Preset adapter HSK



Tool boy



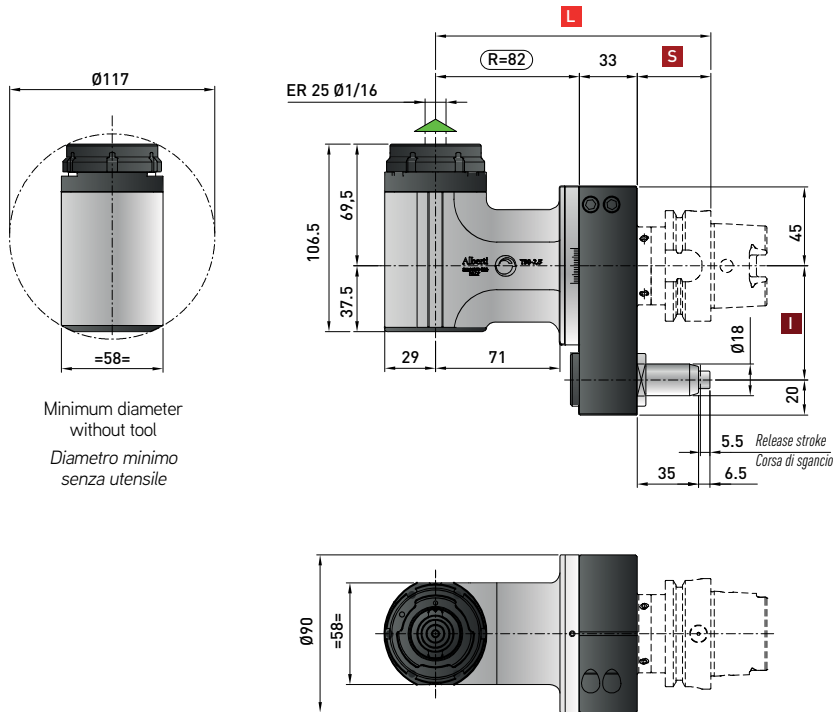
TOOL ID



# T90cn-2.5C Neo

## SMART CHANGE

AST9025C



Minimum diameter without tool  
Diametro minimo senza utensile

### Technical data

Caratteristiche tecniche



Ratio  
Rapporto  
1:1



RPM  
Velocità  
6.000 min<sup>-1</sup>



Max. axial load  
Max. carico assiale  
510 N



Torque  
Momento torcente  
50 Nm



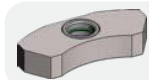
Weight  
Peso  
5.4 kg



Tapping  
Maschiatura  
Max. M12

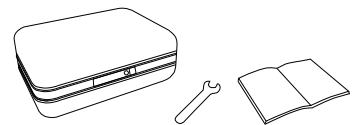


Collet  
Pinza  
Smart Change



Retaining block / Tassello di ritegno / Stop-Block  
**NOT INCLUDED - NON INCLUSO**

Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino



**\* STANDARD EQUIPMENT includes:**

Spindle / Cono	DIN 69871-CAT		MAS-BT		HSK		CAPTO	
	40-50	40-50	40	50	63-80	100	C5-C6	C8
I	65-80-(110*)	80-(110*)	65-80-(110*)	80-(110*)	65-80-(110*)	80-(110*)	65-80-(110*)	80-(110*)
S	35	35	35	41	42	45	38	40
L	150	150	150	156	157	160	153	155

Dual contact spindles available / Disponibilità coni a doppio contatto

\*optional

### Option / Opzione



bar max  
**12**

Coolant through pin  
Adduzione refrigerante attraverso il perno



bar max  
**100**

Coolant through spindle  
Refrigerante attraverso il cono

## T90cn-3.5 Neo

AST9035C

### SMART CHANGE

#### Technical data

Caratteristiche tecniche



Ratio  
Rapporto  
1:1



RPM  
Velocità  
5.000 min<sup>-1</sup>



Max. axial load  
Max. carico assiale  
1.250 N



Torque  
Momento torcente  
70 Nm



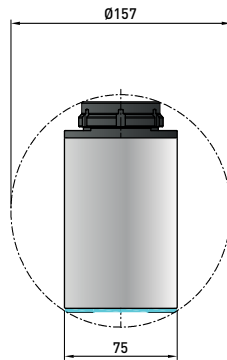
Weight  
Peso  
11 kg



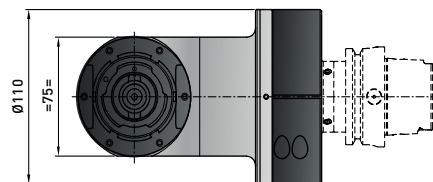
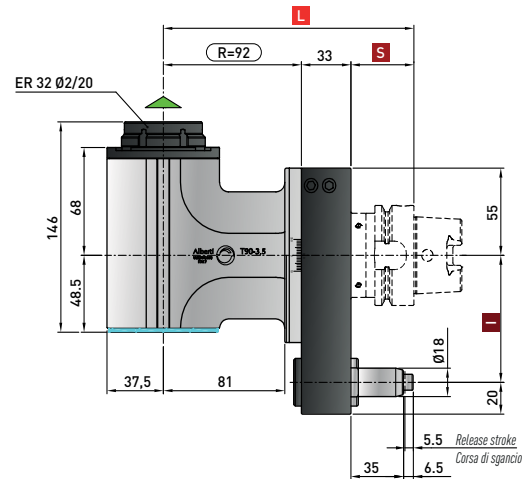
Tapping  
Maschiatura  
Max. M16



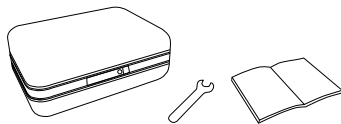
Collet  
Pinza  
Smart Change



Minimum diameter  
without tool  
Diametro minimo  
senza utensile



#### \* STANDARD EQUIPMENT includes:



Retaining block / Tassello di ritegno / Stop-Block  
**NOT INCLUDED - NON INCLUSO**



Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino

Spindle / Cono	DIN 69871-CAT	MAS-BT	HSK		CAPTO	
Size / Grandezza	50	50	63-80	100	C6	C8
<b>I</b>	80-110	80-110	80-110	80-110	80-110	80-110
<b>S</b>	35	41	42	45	38	40
<b>L</b>	160	166	167	170	163	165

Dual contact spindles available / Disponibilità coni a doppio contatto  
\*optional

Non interchangeable input drive shank / Coni di attacco non intercambiabili

#### Option / Opzione



bar max  
**12**

Coolant through pin and spindle  
Refrigerante interno attraverso utensile



bar max  
**100**

Coolant through spindle  
Refrigerante attraverso il cono



min<sup>-1</sup>  
**9.000**

High speed optional RPM max.  
Opzione alta velocità RPM max.

# THRcn-3.5 Neo IC

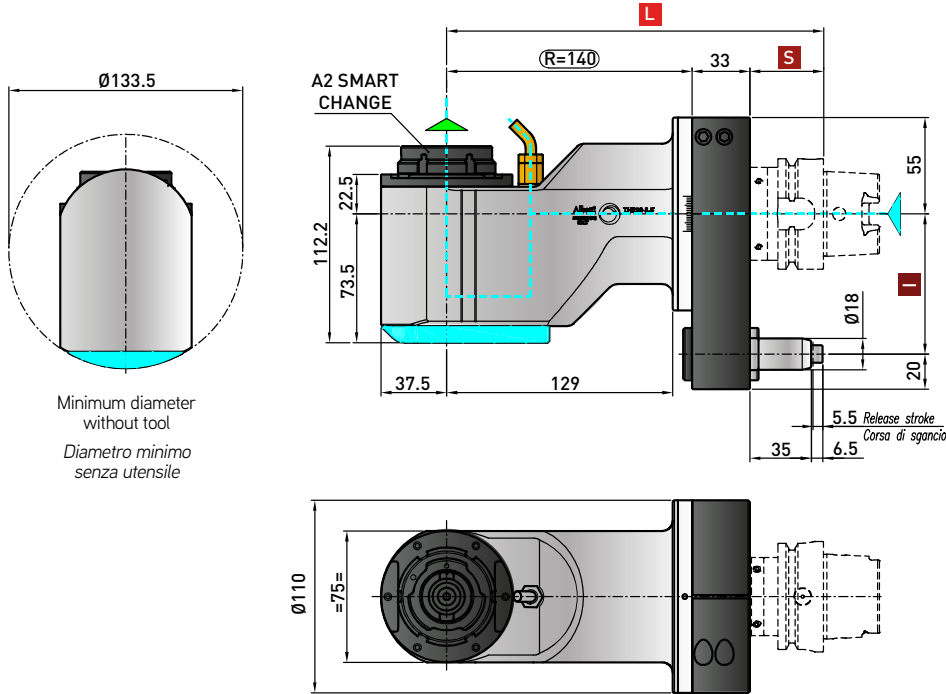
## SMART CHANGE

### ASTHR935C.IC

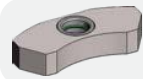
#### Technical data

Caratteristiche tecniche

- Ratio**  
Rapporto  
**1:1**
- RPM**  
Velocità  
**8.000 min<sup>-1</sup>** | **DRY Running**  
**5.000 min<sup>-1</sup>**
- Max. axial load**  
Max. carico assiale  
**1250 N**
- Torque**  
Momento torcente  
**70 Nm**
- Weight**  
Peso  
**11.5 kg**
- Tapping**  
Maschiatura  
**Max. M16**
- Collet**  
Pinza  
**Smart Change**



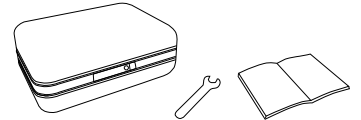
Minimum diameter without tool  
Diametro minimo senza utensile



Retaining block / Tassello di ritegno / Stop-Block  
**NOT INCLUDED - NON INCLUSO**

- Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino
- Input coolant max. 1450 PSI / ingresso refrigerante max. 100 bar  
Dry rotation is possible / rotazione a secco possibile

**\* STANDARD EQUIPMENT includes:**



Spindle / Cono	DIN 69871-CAT	MAS-BT	HSK		CAPTO	
Size / Grandezza	50	50	63-80	100	C6	C8
<b>I</b>	80-110	80-110	80-110	80-110	80-110	80-110
<b>S</b>	35	41	42	45	38	40
<b>L</b>	208	214	215	218	211	213

Dual contact spindles available / Disponibilità coni a doppio contatto  
\*optional

#### Option / Opzione



bar max  
**12**

Coolant through pin  
Adduzione refrigerante attraverso il perno



bar max  
**100**

Coolant through spindle  
Refrigerante attraverso il cono

## TCUcn-3.5 Neo

ASTCU35C

SMART CHANGE

### Technical data

Caratteristiche tecniche



Ratio  
Rapporto  
1:1



RPM  
Velocità  
4.000 min<sup>-1</sup>



Max. axial load  
Max. carico assiale  
700 N



Torque  
Momento torcente  
50 Nm



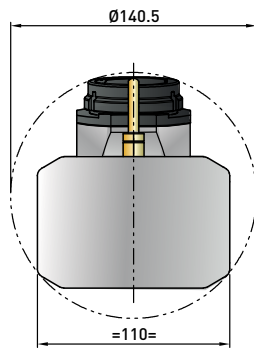
Weight  
Peso  
13 kg



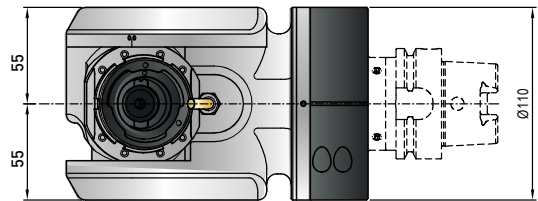
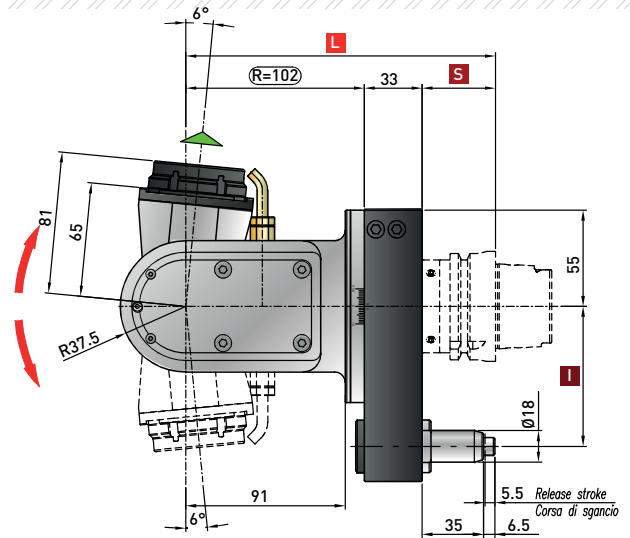
Tapping  
Maschiatura  
Max. M16



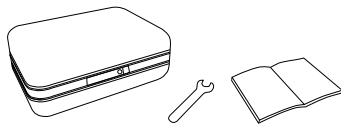
Collet  
Pinza  
Smart Change



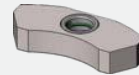
Minimum diameter  
without tool  
Diametro minimo  
senza utensile



### \* STANDARD EQUIPMENT includes:



Retaining block / Tassello di ritegno / Stop-Block  
**NOT INCLUDED - NON INCLUSO**



▲ Direction of rotation opposite as machine spindle / senso di rotazione contrario al mandrino

Spindle / Cono	DIN 69871-CAT	MAS-BT	HSK		CAPTO	
Size / Grandezza	50	50	63-80	100	C6	C8
<b>I</b>	80-110	80-110	80-110	80-110	80-110	80-110
<b>S</b>	35	41	42	45	38	40
<b>L</b>	170	176	177	180	173	175

Dual contact spindles available / Disponibilità coni a doppio contatto

\*optional

Non interchangeable input drive shank / Coni di attacco non intercambiabili

### Option / Opzione



bar max  
**12**

Coolant through pin  
Refrigerante attraverso il perno



bar max  
**100**

Coolant through spindle  
Adduzione refrigerante interna



**+/- 95°**

Angle  
Angolo



every  
**5°**

Fixed positioning  
Posizionamento fisso