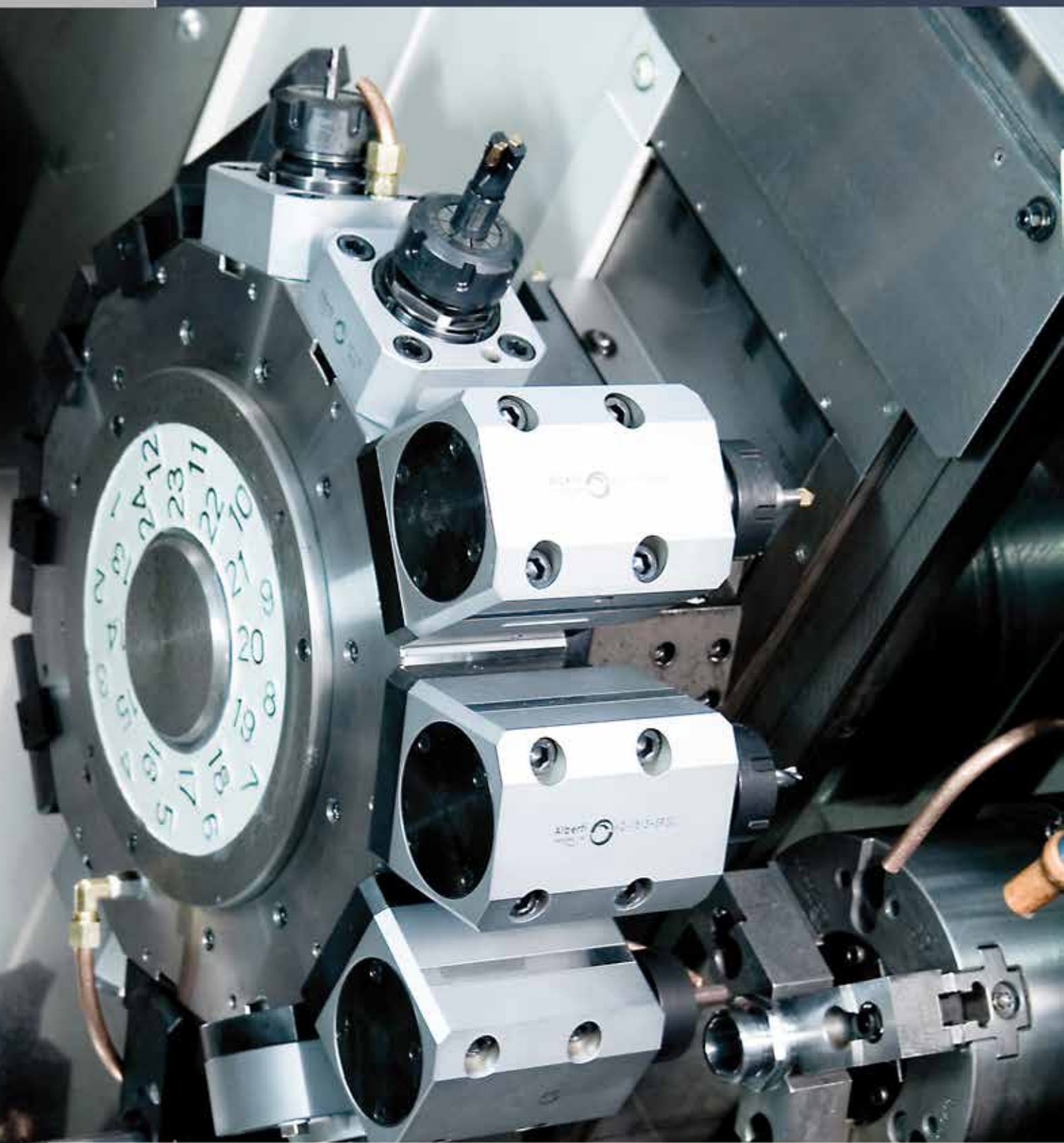




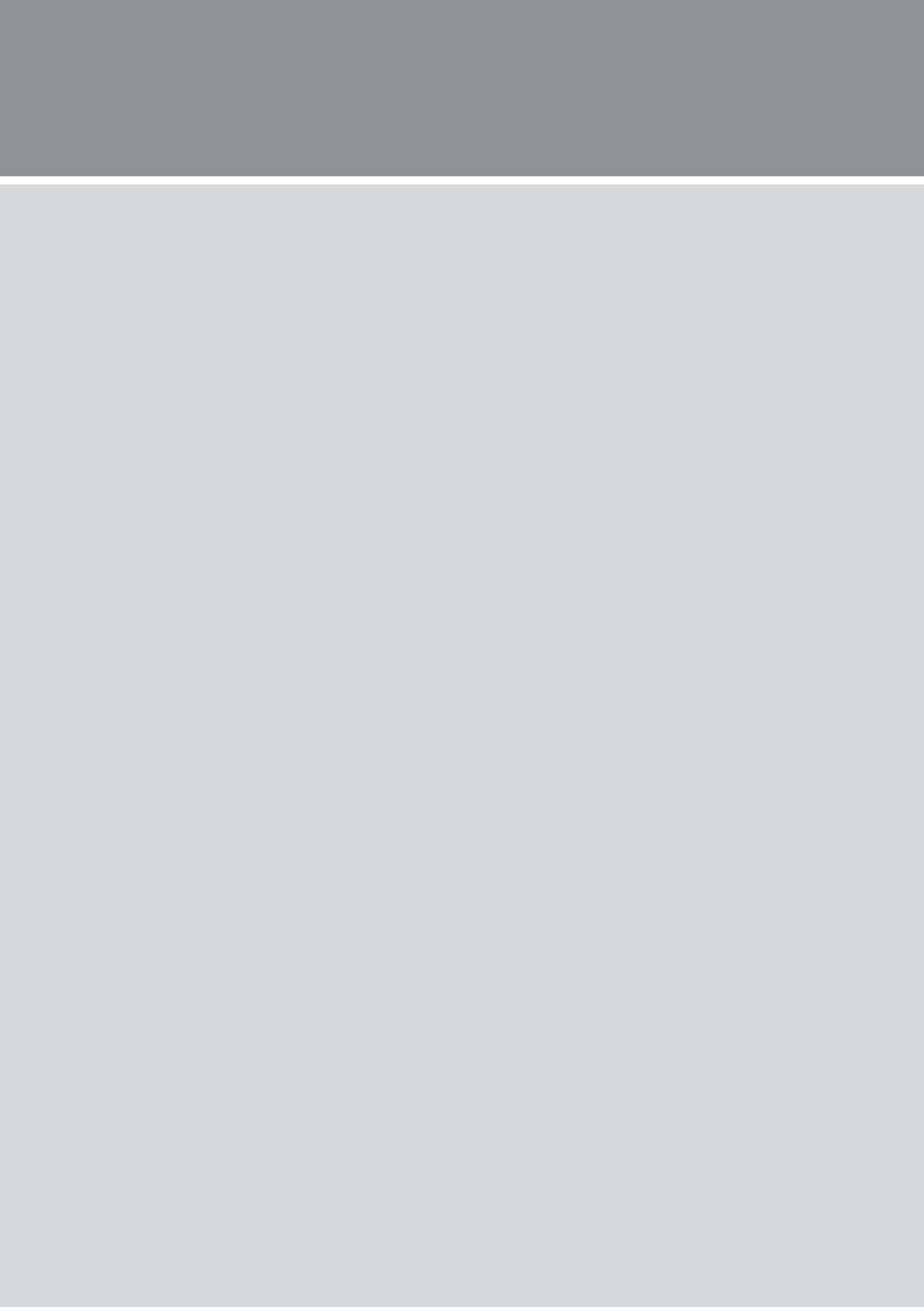
NAKAMURA TOME

torni/lathes



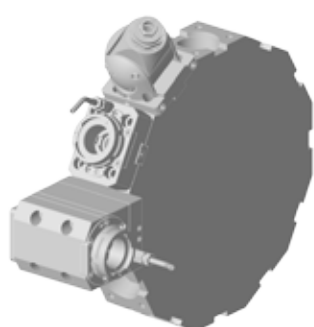
Serie completa per torni Nakamura
Complete series for Nakamura's lathes

www.albertiumberto.it



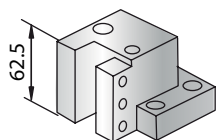
WT 100 / NTY3 / WY100

Nakamura-Tome

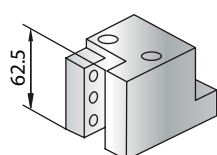


STATIC TOOLS

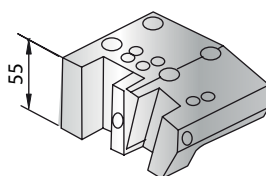
1) O.D. Cutting holder RH



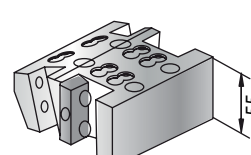
2) O.D. Cutting holder LH



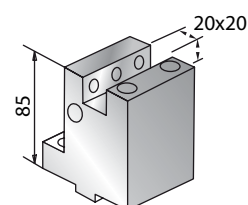
3) Double O.D. cutting holder



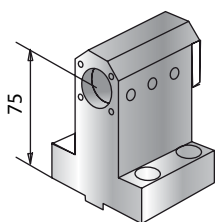
4) Quad O.D. cutting holder



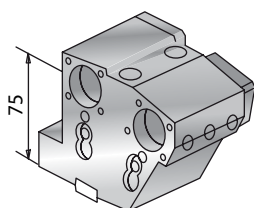
5) I.D. Cutting holder



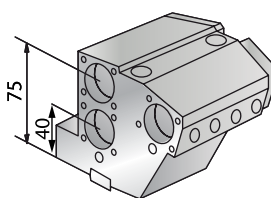
6) Boring bar holder



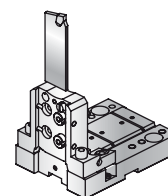
7) Double boring bar holder



8) Triple boring bar holder



9) Cut-off holder



10) Boring bar sleeve



Technical Data / Dati Tecnici

Code
Codice

1) O.D. CUTTING HOLDER RH 20X20mm

1) Portautensile per esterni destro 20x20mm

ANK.W10.OD20.R

2) O.D. CUTTING HOLDER LH 20X20mm

2) Portautensile per esterni sinistro 20x20mm

ANK.W10.OD20.L

3) DOUBLE O.D. HOLDER 20x20mm

3) Portautensili per esterni doppio 20x20mm

ANK.W10.OD20.2

4) QUAD O.D. CUTTING HOLDER 20x20mm

4) Portautensile esterno quadruplo 20x20mm

ANK.W10.OD20.Q

5) I.D. CUTTING HOLDER 20x20mm

5) Portautensile per interni 20x20mm

ANK.W10.ID20

Technical Data / Dati Tecnici

Code
Codice

6) BORING BAR HOLDER 25mm

6) Portabareno 25mm

ANK.W10.BB25

7) DOUBLE BORING BAR HOLDER 25mm

7) Portabareno doppio 25mm

ANK.W10.BB25.2

8) TRIPLE BORING BAR HOLDER ø 20mm

8) Portabareno triplo ø 20mm

ANK.W10.BB20.3

9) CUT-OFF HOLDER 26mm

9) Portalama 26mm

ANK.W10.CO26

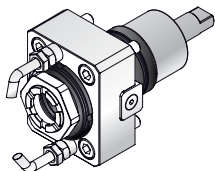
10) BORING BAR SLEEVE

10) Bussole di riduzione

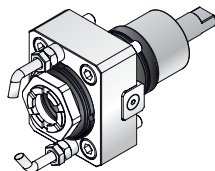
ANK.W10.RDX

LIVE TOOLS

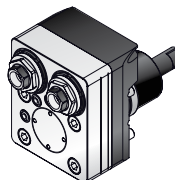
1A) Axial MA-2,5



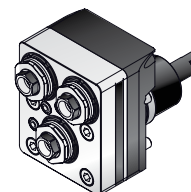
1B) Axial MA-2,5 C 70 Bar



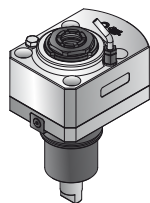
2) Axial MA-1,5 2U Front



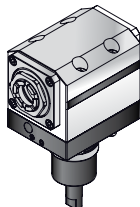
3) Axial MA-1,5 3U Front



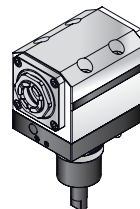
4) Axial MA-2,5S Speeder



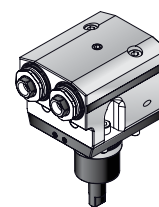
5A) Radial M90-2,5



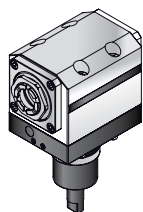
5B) Radial M90-2,5C 70 Bar



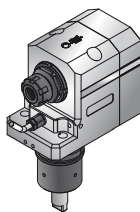
6) Radial M90-1,5 2U Front



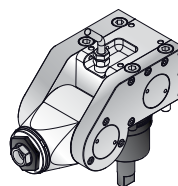
7) Radial M90-2,5 2U Oppos.



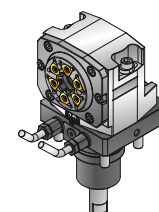
8) Radial M90-2,5S Speeder



9) Adjustable MCU-1,5



10) Thread Whirling



Technical Data / Dati Tecnici

Code Codice

1A) AXIAL MA-2,5
1A) Assiale MA-2,5

ANK.W10.0100

1B) AXIAL MA-2,5 C 70 Bar
1B) Assiale MA-2,5 C 70 Bar

ANK.W10.010C

2) AXIAL MA-1,5 2U FRONT
2) Assiale MA 1,5 2U Frontale

ANK.W10.0120

3) AXIAL MA-1,5 3U FRONT
3) Assiale MA 1,5 3U Frontale

ANK.W10.0130

4) AXIAL MA-2,5S SPEEDER
4) Assiale MA-2,5S speeder

ANK.W10.010S

5A) RADIAL M90-2,5
5A) Radiale M90-2,5

ANK.W10.0200

Technical Data / Dati Tecnici

Code Codice

5B) RADIAL M90 -2,5 C 70 Bar
5B) Radiale M90-2,5 C 70 Bar

ANK.W10. 020C

6) RADIAL M90-1,5 2U FRONT
6) Radiale M90-1,5 2U Frontale

ANK.W10. 0220

7) RADIAL M90-2,5 2U OPPOSITE
7) Radiale M90-2,5 2U Contrapposto

ANK.W10.0300

8) RADIAL M90-2,5 S SPEEDER
8) Radiale M90-2,5 S Speeder

ANK.W10.020S

9) ADJUSTABLE MCU-1,5
9) Orientabile MCU-1,5

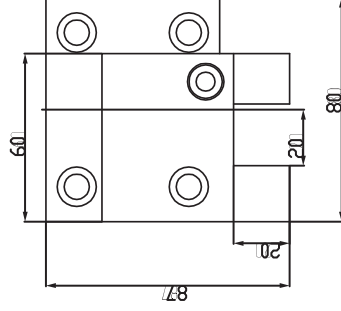
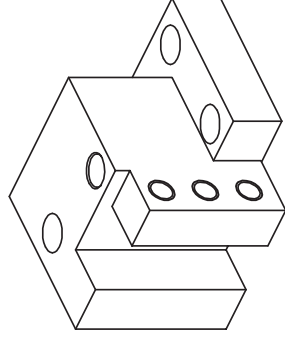
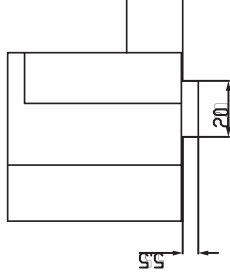
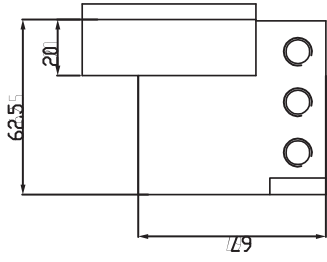
ANK.W10.0500

10) THREAD WHIRLING M90-2,5T
10) Turbofilettare M90-2,5T

ANK.W10.0800



SmartChange
Ref. part E / Rif. Sez E



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Costitutore/Builder/Hersteller

NAKAMURA

Modello/Model

WT 100/ NTY3/ WY100

Descrizione/Description/Beschreibung

C21410

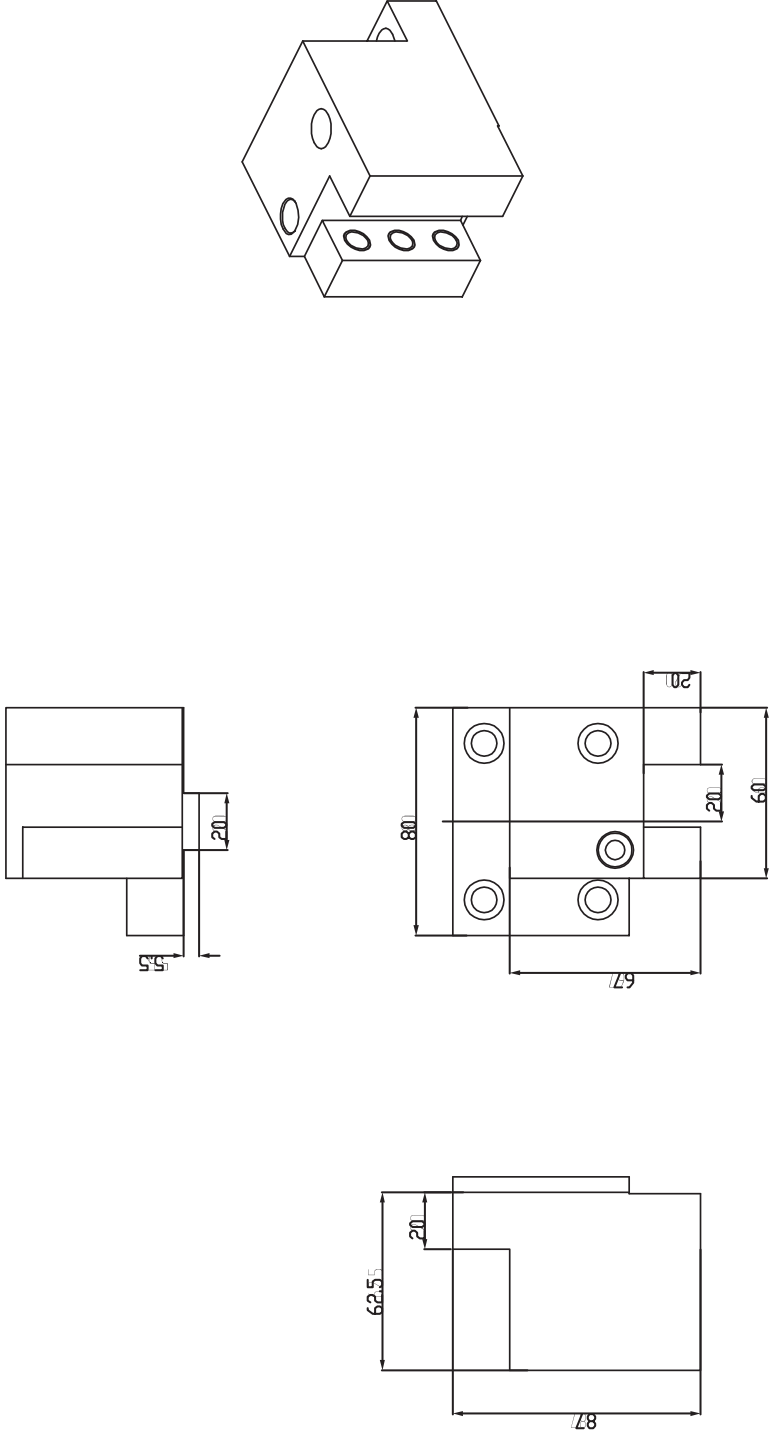
Codice Alberti/Alberti Code/Albertinummer

ANK.W10.OD20.R

OD CUTTING HOLDER RH
20 X 20mm

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Costruttore/ Builder/ Hersteller

NAKAMURA

Modello/Model

WT100/ NTY3/ WY100

Descrizione/ Description/ Beschreibung

C21420

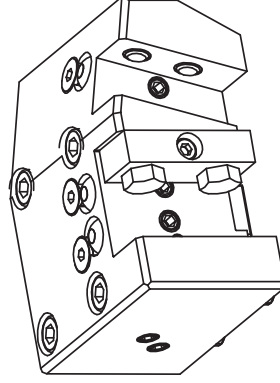
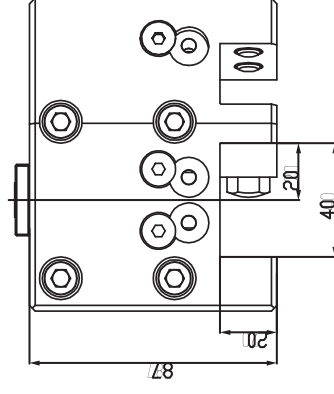
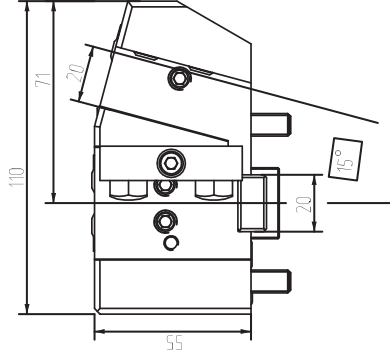
Codice Alberti/ Alberti Code / Albertinummer

ANK.W10.OD20.L

OD CUTTING HOLDER LH

20 X 20 mm

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Costruttore/ Builder/Hersteller

NAKAMURA

Modello/Model

WT 100/ NTY3/ WY100

Descrizione/ Description/Beschreibung

C21490

Codice Alberti/Alberti Code /Albertinummer

ANK.W10.OD20.2

DOUBLE O.D. HOLDER
20 X 20mm

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Costruttore/ Builder/ Hersteller

NAKAMURA

Modello/Model

WT 100/ NTY3/ WY100

Descrizione/ Description/ Beschreibung

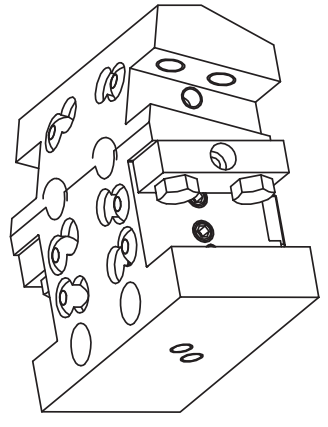
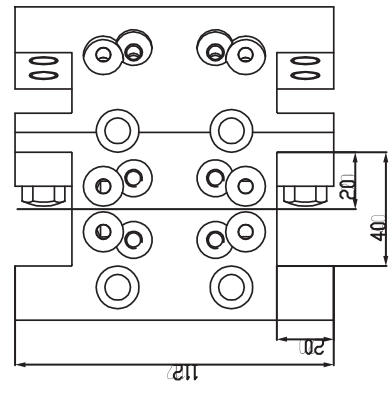
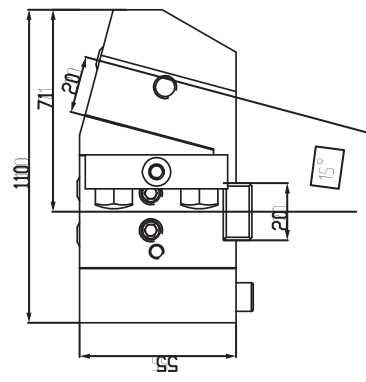
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Codice Alberti/ Alberti Code / Albertinummer

ANK.W10.OD20. Q

QUAD OD HOLDER

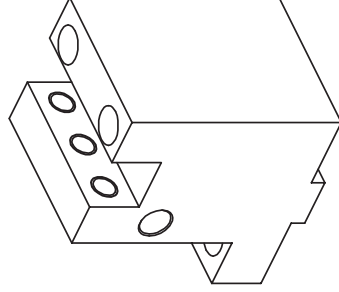
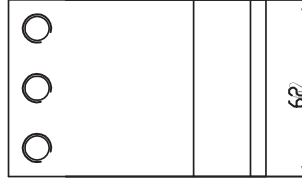
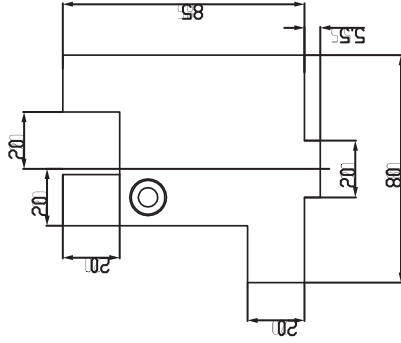
20 X 20 mm



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Costruttore/ Builder/Hersteller

NAKAMURA

Modello/Model

WT 100/ NTY3/ WY100

Descrizione/ Description/ Beschreibung

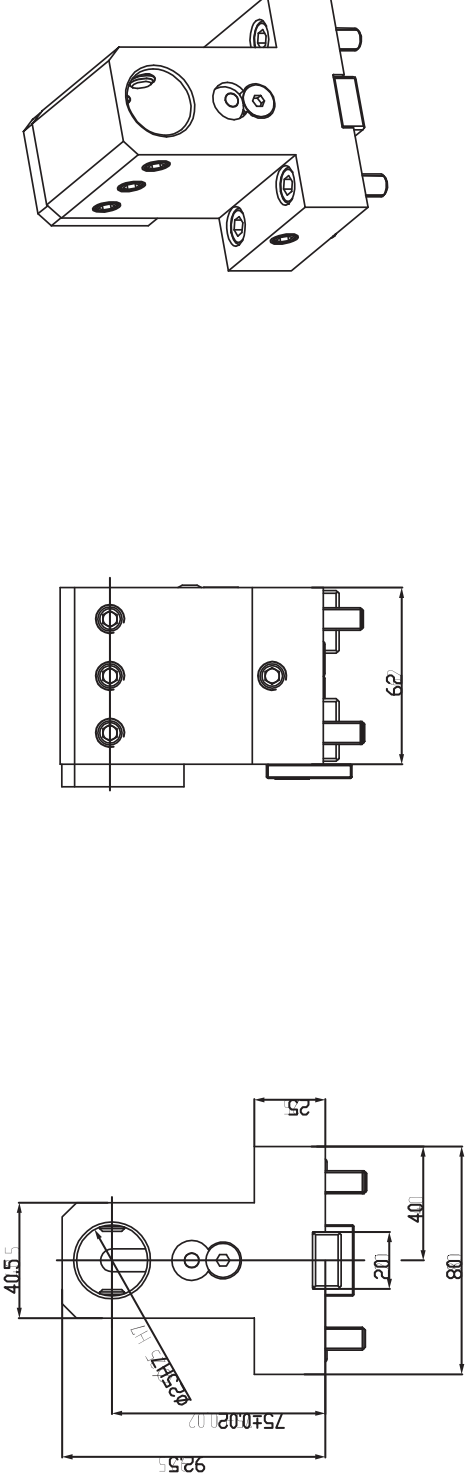
Z8415

Codice Alberti/Alberti Code /Albertinummer

ANK.W10.ID20

ID CUTTING HOLDER
20 X 20 mm

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Costruttore/ Builder/ Hersteller

NAKAMURA

Modello/Model

WT 100/ NTY3/ WY100

Descrizione/ Description/ Beschreibung

C22410

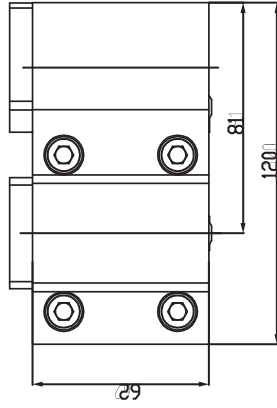
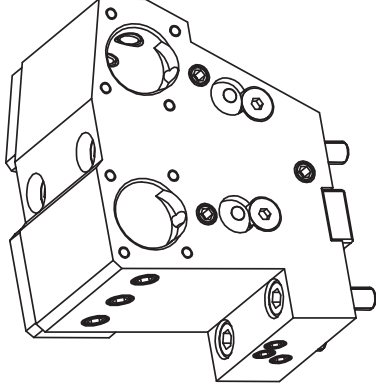
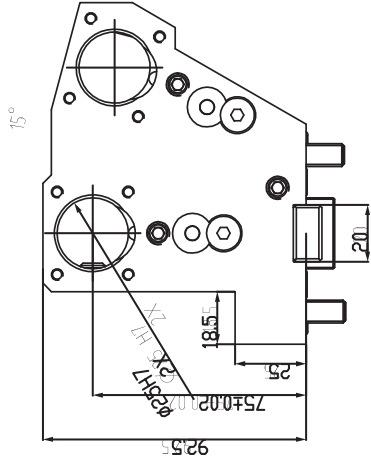
Codice Alberti/ Alberti Code / Albertinumner

ANK.W10.BB25

BORING BAR HOLDER

25mm

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Costruttore/Builder/Hersteller

NAKAMURA

Modello/Model

WT 100/ NTY3/ WY100

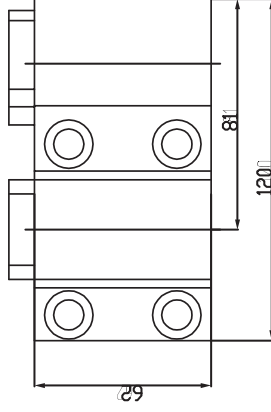
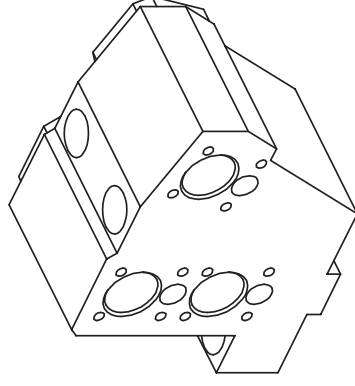
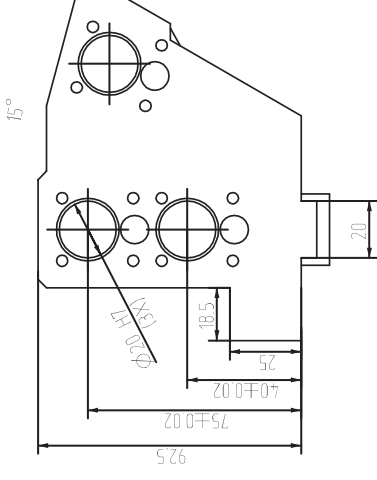
Descrizione/Description/Beschreibung

C22412

Codice Alberti/Alberti Code / Albertinummer

ANK.W10.BB25.2

**DOUBLE BORING BAR
 25mm**



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Costruttore/Builder/Hersteller

NAKAMURA

Modello/Model

WT 100 / NTY3/ WY100

Descrizione/Description/Beschreibung

C21491

Codice Alberti/Alberti Code /Albertinummer

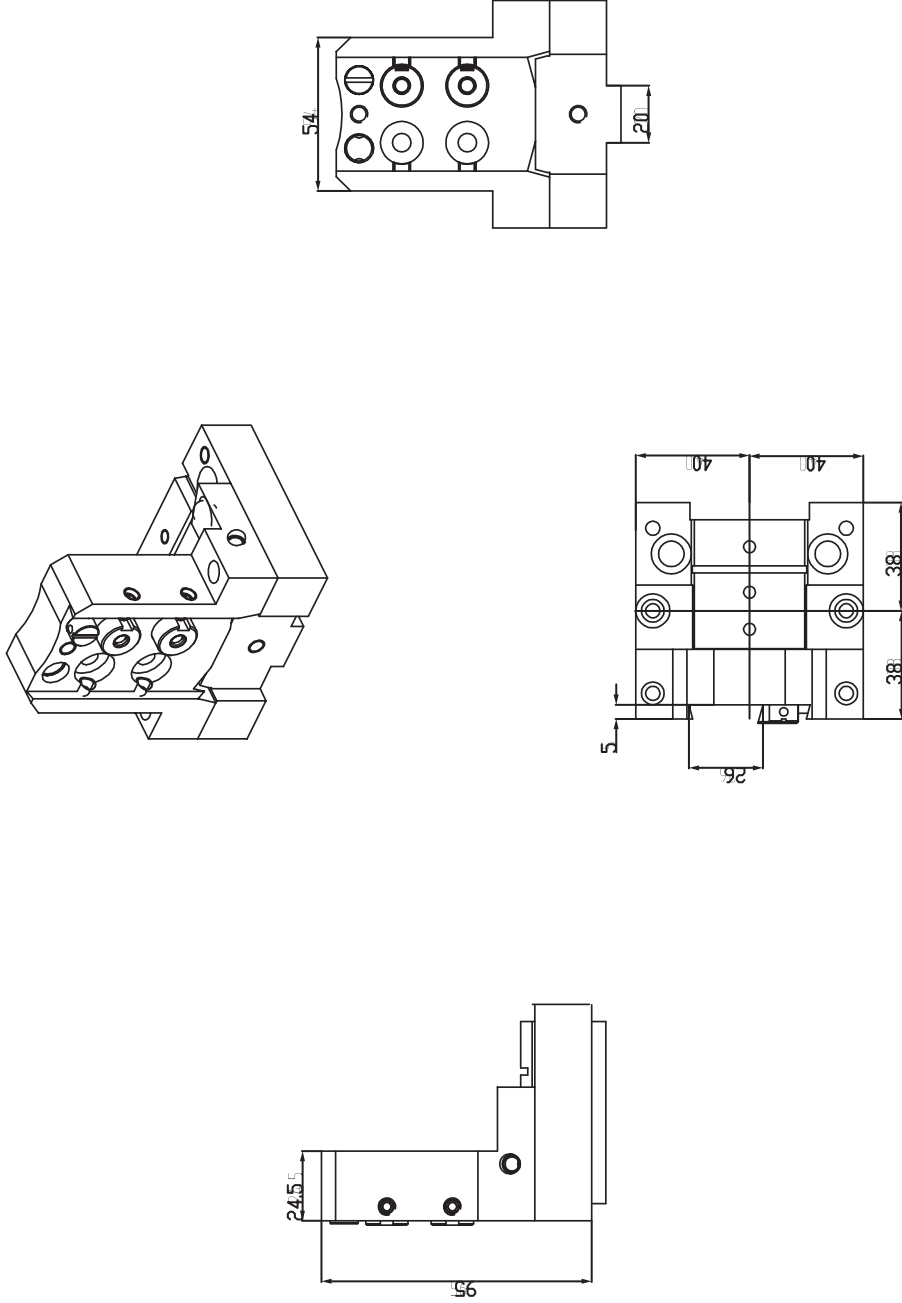
ANK.W10.BB20.3

TRIPLE BORING BAR

20mm

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Costruttore/Builder/Hersteller

NAKAMURA

Modello/Model

WT 100/ NTY3/ WY100

Descrizione/Description/Beschreibung

C21430

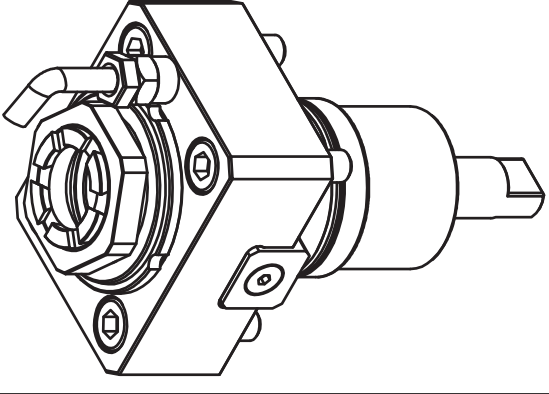
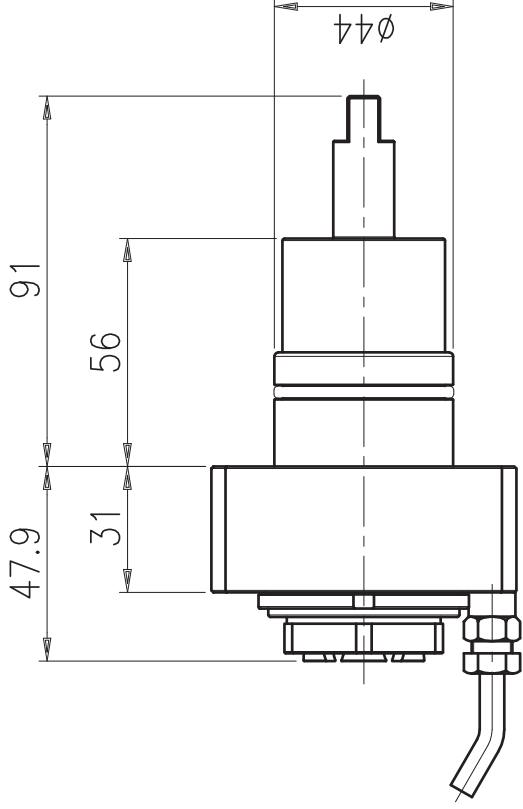
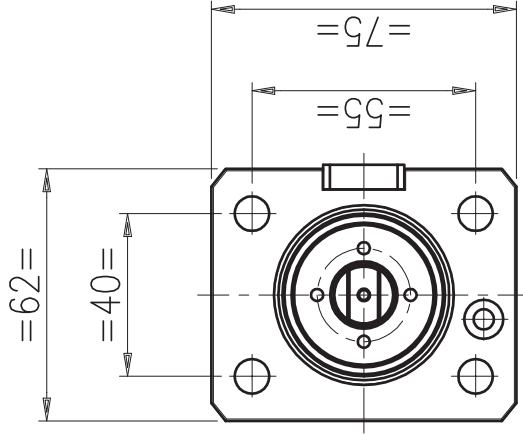
Codice Alberti/Alberti Code /Albertinummer

ANK.W10.CO26

CUT OFF HOLDER

26mm

A TERMINI DI LEGGE E' VIETATA LA RIPRODUZIONE DI QUESTO DISEGNO SENZA LA NOSTRA AUTORIZZAZIONE / ANY COPY OF THIS DRAWING IS FORBIDDEN WITHOUT OUR PERMISSION / LAUT DES GESETZES IST JEDE KOPIE DER ZEICHNUNG VERBOTEN UND SOLL BEI UNS ERLAUBT WERDEN



PRESTAZIONI
Performance
Leistungen

Rt 1:1

RPM max 6.000

Max carico assiale
Max axial load
Längsbelastung 500 N

Adduzione refrig. interna
Internal coolant
Ik No

Mandrino
Spindle
Spindel ER-25A

Senso di rotazione
Direction of rotation
Drehrichtung
IN OUT

DOTAZIONE STANDARD / STANDARD EQUIPMENT

Libro istruzioni
Instruction book
Gebrauchsanweisung

Chiavi di servizio
Service key
Bedienschlüssel

9.91.2.44.13

Costruttore/Builder/Hersteller

NAKAMURA

ASSIALE/ AXIAL TOOL

Modello/Model

WT-100 / NTY-3

AXIALWERKZEUG

MA 2,5 ER-25A

Descrizione/Description/Beschreibung

A26330

Codice Alberti/Alberti Code / Albertinummer

ANK.W10.0100

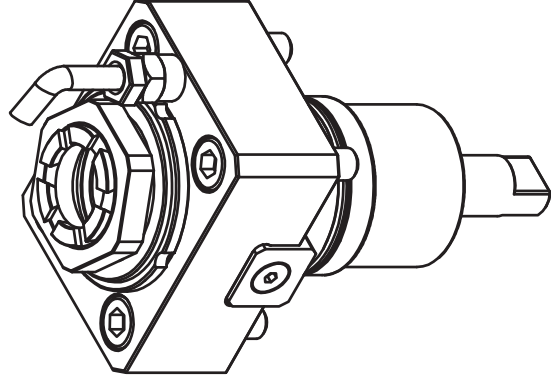
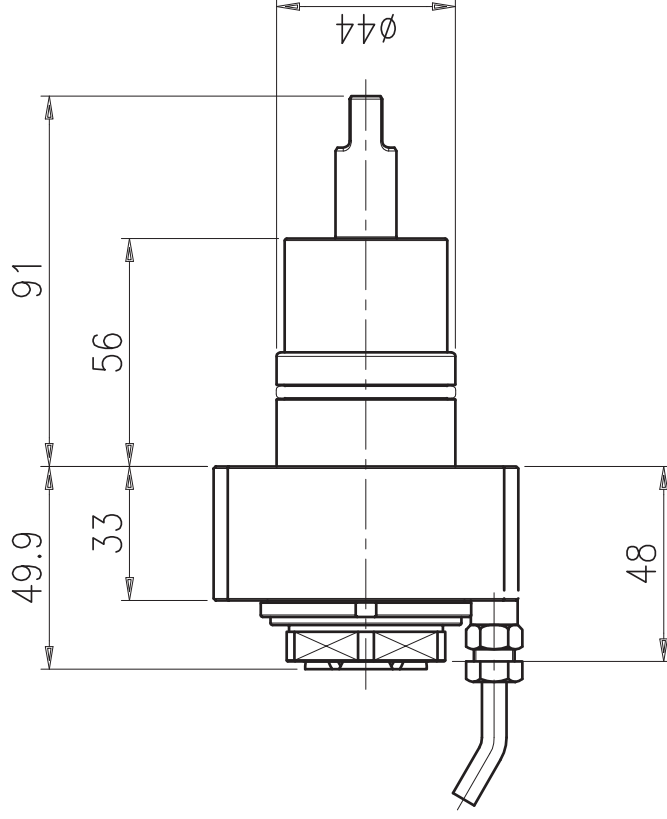
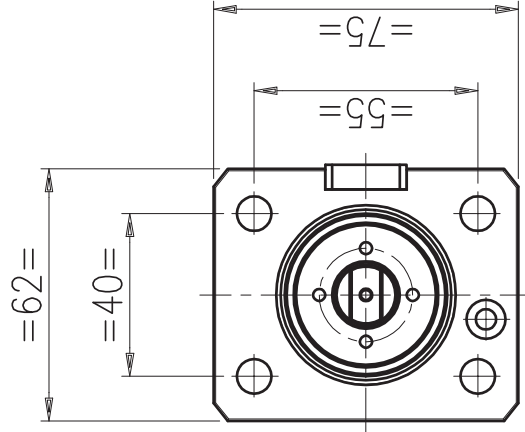


Alberti Umberto

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e-mail: info@albertiumberto.it
<http://www.albertiumberto.it>

Tel. (02) 96703586 (2 linee r.a.) FAX (02) 96703620

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PRESTAZIONI
Performance
Leistungen

Rt	1:1
RPM max	6.000
Max carico assiale Max axial load Längsbelastung	500 N
Adduzione refrigerante Internal coolant Ik	Yes
Mandrino Spindle Spindel	ER-25A

Senso di rotazione
Direction of rotation
Drehrichtung

IN OUT

DOTAZIONE STANDARD / STANDARD EQUIPMENT

Libro istruzioni
Instruction book
Gebrauchsanweisung

Chiavi di servizio
Service key
Bedienschlüssel

9.91.2.44.C0.00

Costruttore/Builder/Hersteller

NAKAMURA

ASSIALE/ AXIAL TOOL
AXIALWERKZEUG

WT-100 / NTY-3

Modello/Model

Descrizione/Description/Beschreibung

A26330C

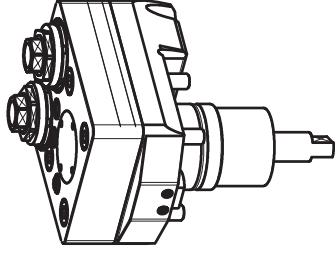
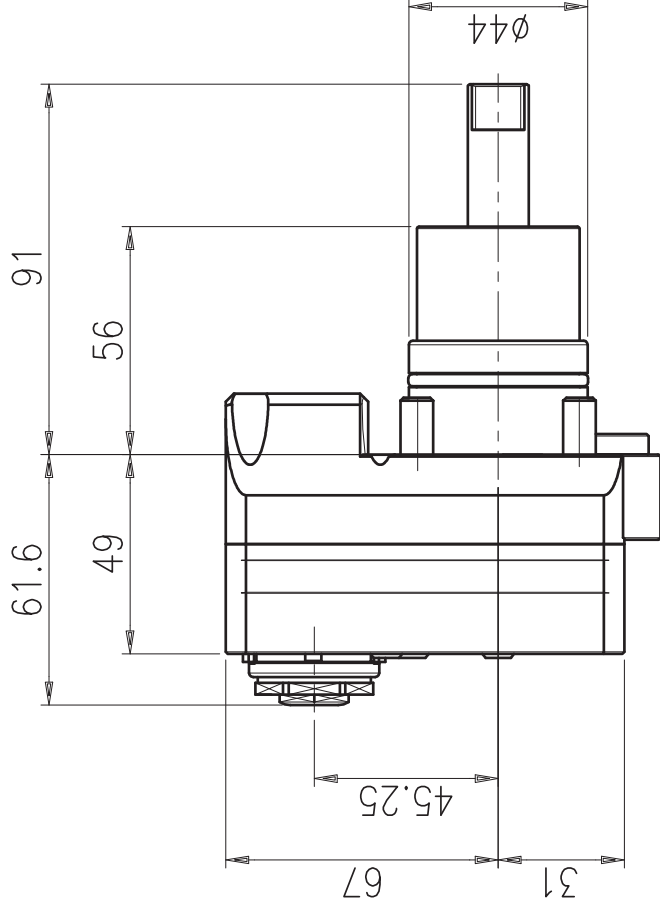
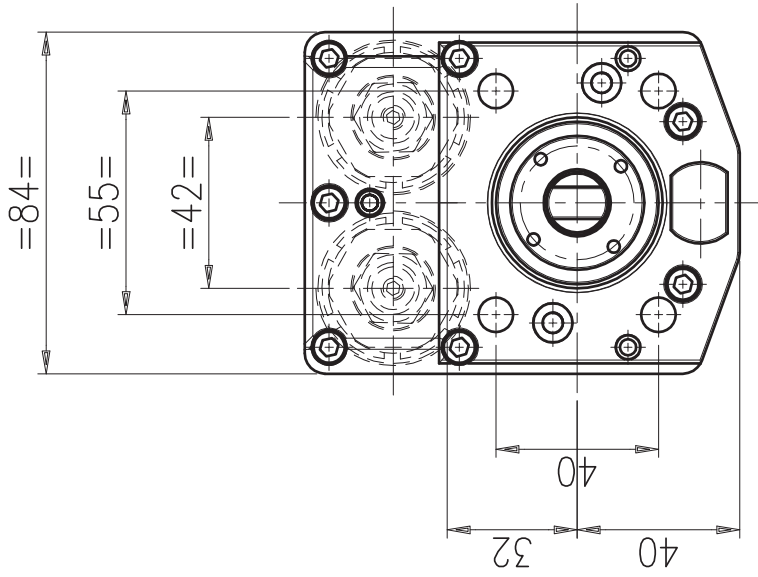
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**PRESTAZIONI
Performance
Leistungen**

Rt 1:1

RPM max 6.000

Max carico assiale
Max axial load
Längsbelastung 470 N

Adduzione refrigerante interna
Internal coolant
Ik No

Mandrino
Spindle
Spindel ER-16A

Senso di rotazione
Direction of rotation
Drehrichtung
IN OUT

DOTAZIONE STANDARD / STANDARD EQUIPMENT

Libro istruzioni
Instruction book
Gebrauchsanweisung

Chiavi di servizio
Service key
Bedienschlüssel

9.9T.2.44.01

Costruttore/Builder/Hersteller

NAKAMURA

ASSIALE/AXIAL TOOL

Modello/Model

WT-100 / NTY-3

AXIALWERKZEUG

MA-1,5 2U ER-16A

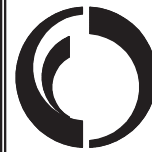
Descrizione/Description/Beschreibung

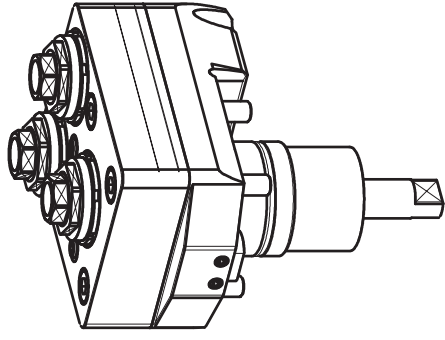
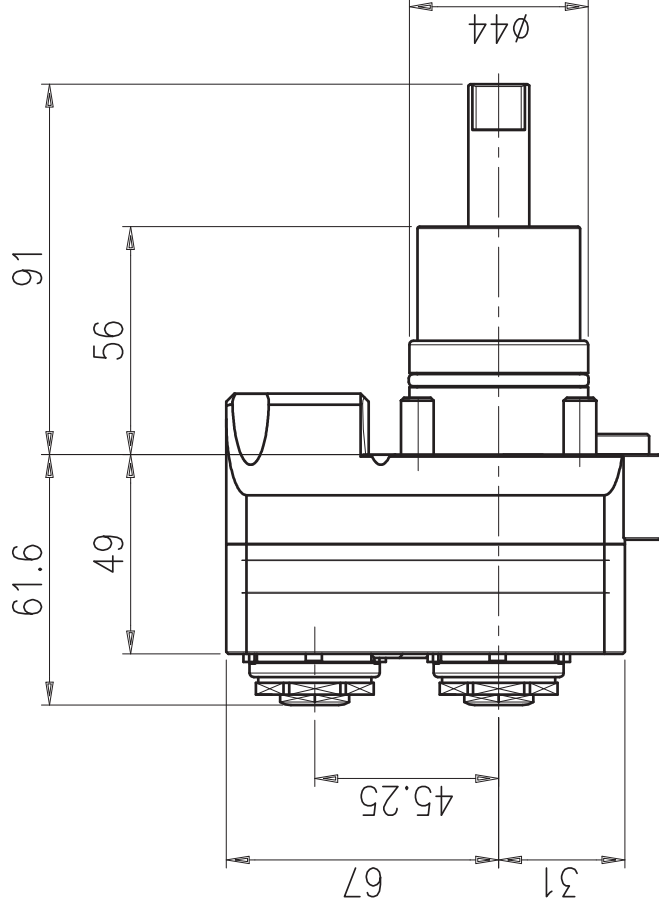
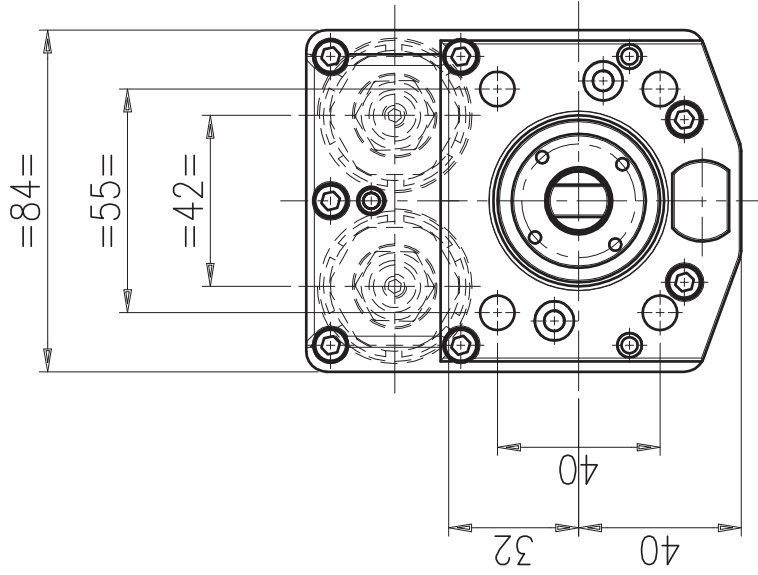
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**PRESTAZIONI
Performance
Leistungen**

Rt

1:1

RPM max

6.000

Max carico assiale
Max axial load
Längsbelastung

470 N

Adduzione refrig. interna
Internal coolant
Ik

No

Mandrino
Spindle
Spindel

ER-16A

Senso di rotazione
Direction of rotation
Drehrichtung



DOTAZIONE STANDARD / STANDARD EQUIPMENT

Libro istruzioni
Instruction book
Gebrauchsanweisung

Chiavi di servizio
Service key
Bedienschlüssel

Costruttore / Builder / Hersteller

NAKAMURA

ASSIALE/AXIAL TOOL

Modello / Model

WT-100 / NTY-3

AXIALWERKZEUG

MA-1,5 3U ER-16A

Descrizione / Description / Beschreibung

A26330-3U

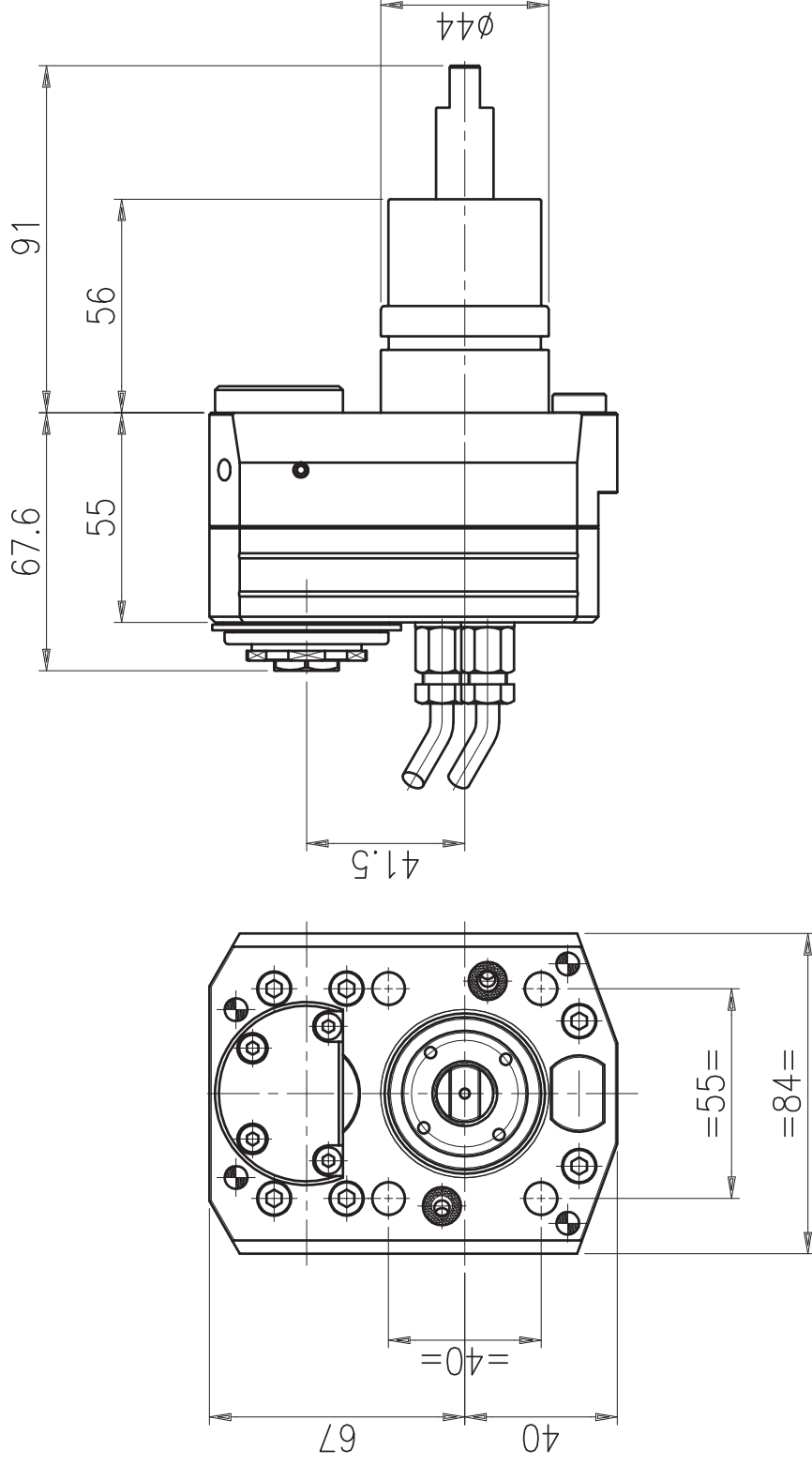
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DOTAZIONE STANDARD / STANDARD EQUIPMENT

Libro istruzioni
Instruction book
Gebrauchsanweisung

Chiavi di servizio
Service key
Bedienschlüssel

9.94.2.44.S0

Costruttore/Builder/Hersteller

NAKAMURA

Modello/Model

WT-100 / NTY-3

ASSIALE/AXIAL TOOL

AXIALWERKZEUG

MA-2,5 R ER-16A

Descrizione/Description/Beschreibung

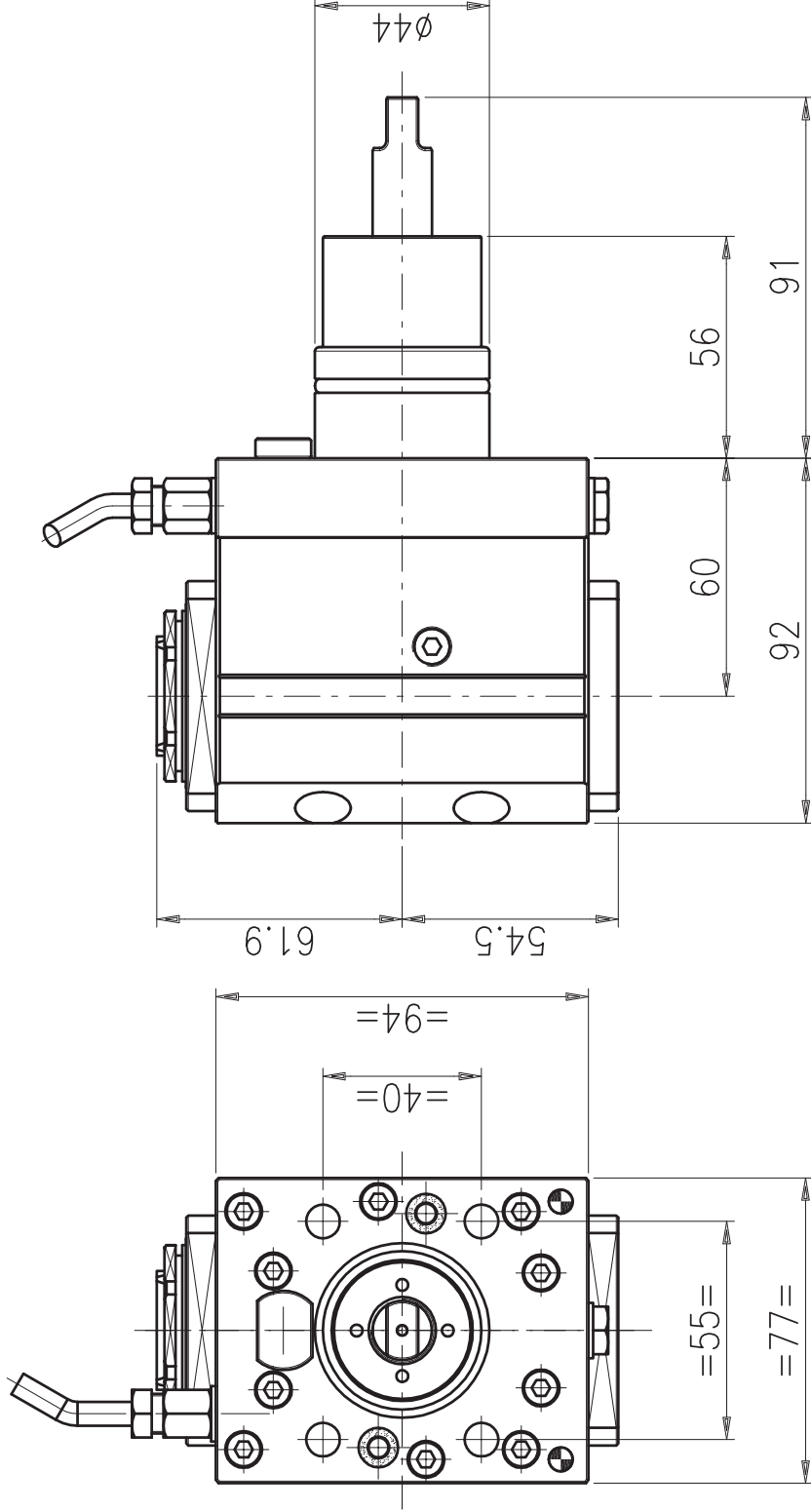
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Codice Alberti/Alberti Code / Albertinummer

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DOTAZIONE STANDARD / STANDARD EQUIPMENT

9.92.2.44.03

Libro istruzioni
Instruction book
Gebrauchsanweisung

Chiavi di servizio
Service key
Bedienschlüssel

Costruttore/Builder/Hersteller

NAKAMURA

RADIALE/ RADIAL TOOL

Modello/Model

WT-100 / NTY-3

RADIALWERKZEUG
M90-2,5 ER-25A

Descrizione/Description/Beschreibung

A26333

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PRESTAZIONI
Performance
Leistungen

Rt 1:1

RPM max 6.000

Max carico assiale
Max axial load
Längsbelastung max.
710 N

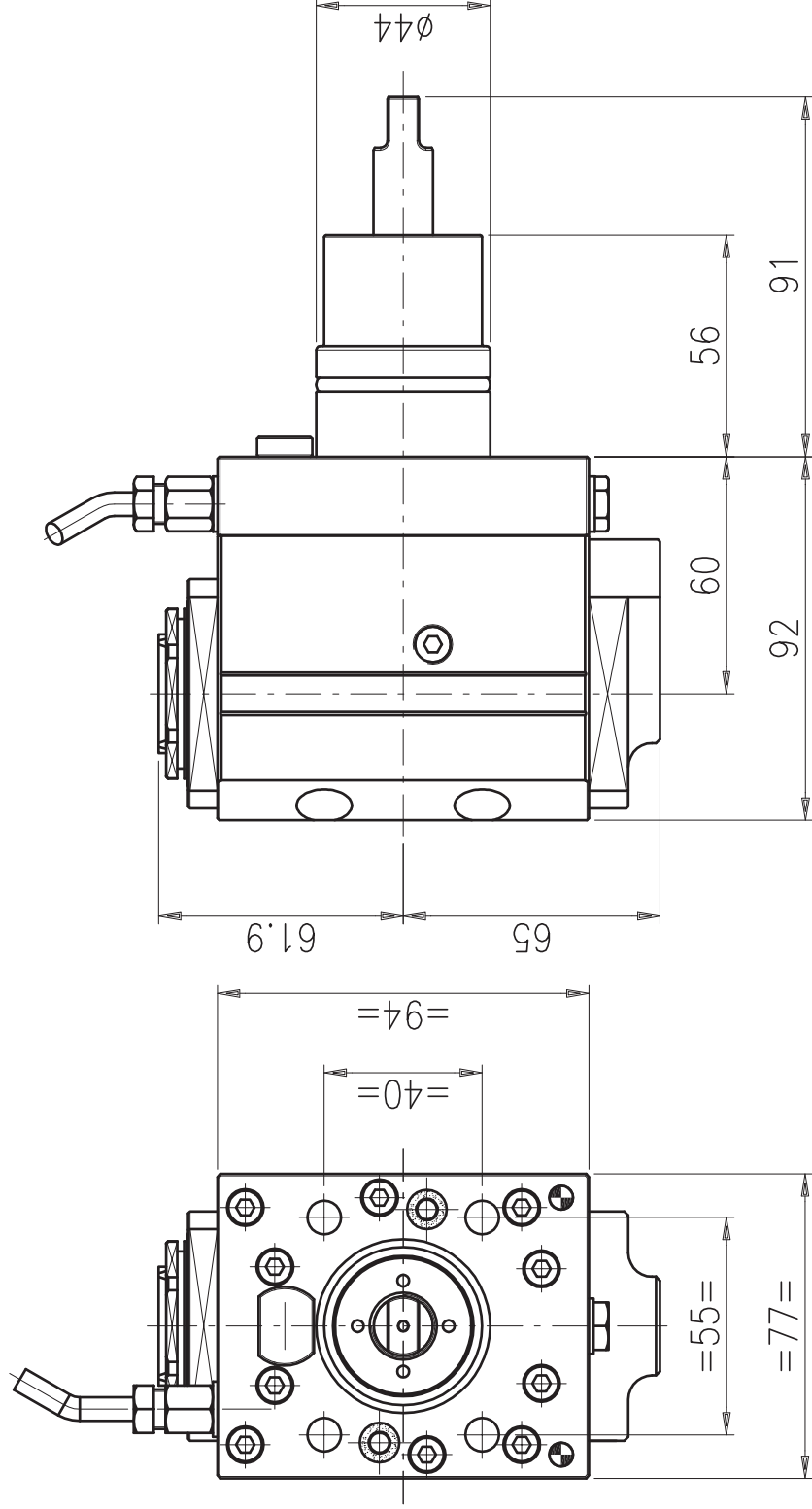
Momento torcente
Torque
Drehmoment
18 Nm

Adduzione refrig. interna
Internal coolant
Ik No

Attacco rapido
Quick-change
Schnittstelle
ER-25A

Senso di rotazione
Direction of rotation
Drehrichtung


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DOTAZIONE STANDARD / STANDARD EQUIPMENT

Libro istruzioni
Instruction book
Gebrauchsanweisung

Chiavi di servizio
Service key
Bedienschlüssel

9.92.2.44.C0

Costruttore/Builder/Hersteller

NAKAMURA

Modello/Model

WT-100 / NTY-3

RADIALE/ RADIAL TOOL

RADIALWERKZEUG

M90-2,5 ER-25A R.I.70BAR

Descrizione/Description/Beschreibung

A26333C

Codice Alberti/Alberti Code / Albertinummer

ANK.W10.020C

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PRESTAZIONI
Performance
Leistungen

Rt 1:1

RPM max 6.000

Max carico assiale
Max axial load
Längsbelastung max.
710 N

Momento torcente
Torque
Drehmoment
18 Nm

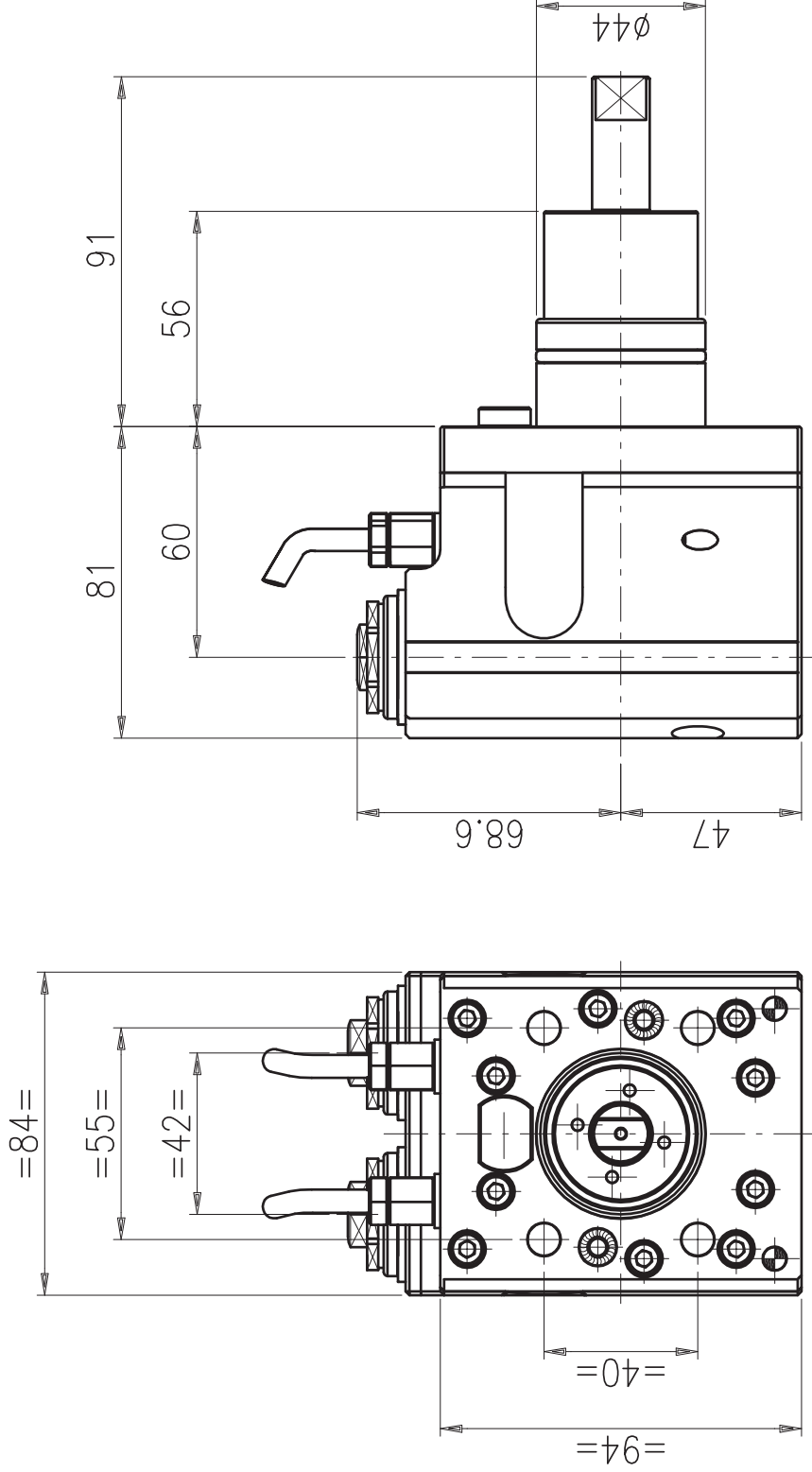
Adduzione refrig. interna
Internal coolant
Ik Yes

Attacco rapido
Quick-change
Schnittstelle
ER-25A

Senso di rotazione
Direction of rotation
Drehrichtung
IN OUT



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DOTAZIONE STANDARD / STANDARD EQUIPMENT

9.9D.2.44.00	Libro istruzioni Instruction book Gebrauchsanweisung	Chiavi di servizio Service key Bedienschlüssel
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PRESTAZIONI
Performance
Leistungen

Rt	1:1
RPM max	6.000
Max carico assiale Max axial load Längsbelastung max.	470 N
Momento torcente Torque Drehmoment	18 Nm
Adduzione refrigerante Internal coolant Ik	No
Attacco rapido Quick-change Schnittstelle	ER-16A / ER-16A
Senso di rotazione Direction of rotation Drehrichtung	IN / OUT



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Costruttore / Builder / Hersteller
NAKAMURA

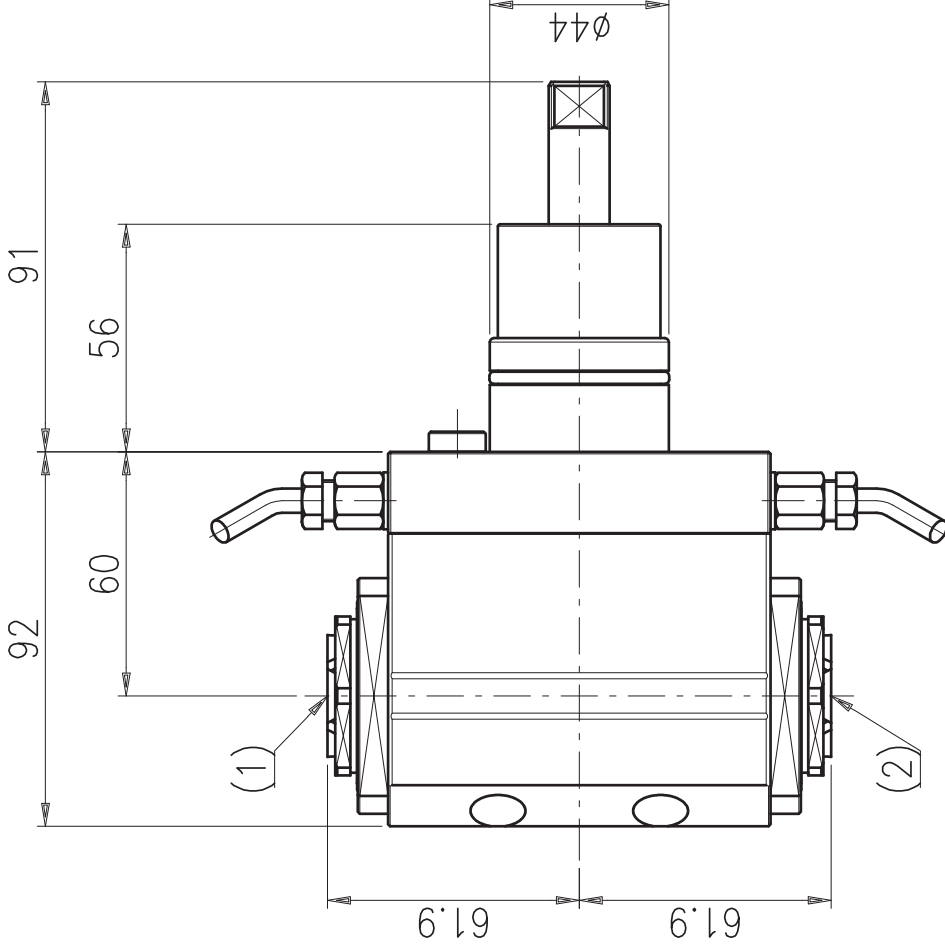
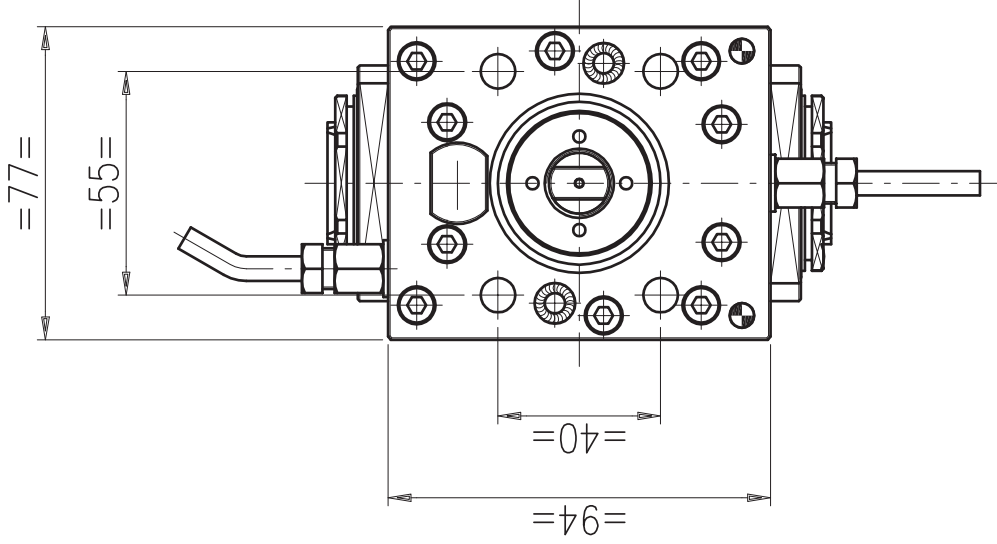
Modello / Model
WT-100 / NTY-3

RADIALE / RADIAL TOOL
RADIALWERKZEUG
M90 1,5 ER 16A

Descrizione / Description / Beschreibung
A26333-2U front

Codice Alberti / Alberti Code / Albertinummer
ANK.W10.0220

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DOTAZIONE STANDARD / STANDARD EQUIPMENT

Libro istruzioni
Instruction book
Gebrauchsanweisung

Chiavi di servizio
Service key
Bedienschlüssel

9.92.2.44.00

Costruttore/Builder/Hersteller

NAKAMURA

RADIALE/ RADIAL TOOL

Modello/Model

WT-100 / NTY-3

RADIALWERKZEUG

M90-2,5 2U ER-25A

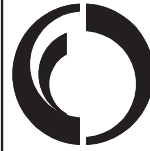
Descrizione/Description/Beschreibung

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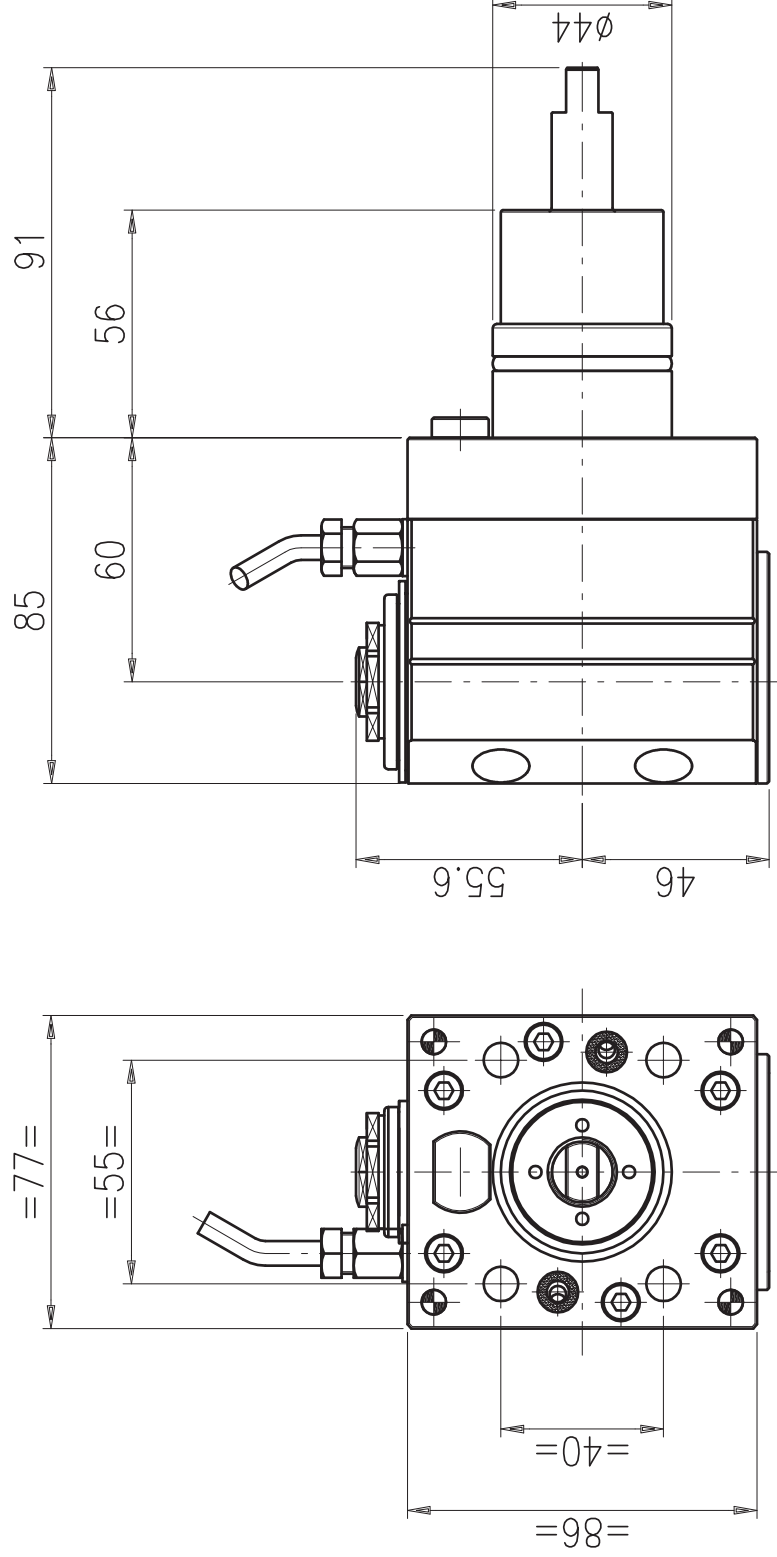
Codice Alberti/Alberti Code / Albertinummer

ANK.W10.0300

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DOTAZIONE STANDARD / STANDARD EQUIPMENT

9.92.2.44.S0	Libro istruzioni Instruction book Gebrauchsanweisung	Chiavi di servizio Service key Bedienschlüssel
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**PRESTAZIONI
Performance
Leistungen**

Rt	2:1
RPM max	12.000
Max carico assiale Max axial load Längsbelastung max.	480 N
Momento torcente Torque Drehmoment	18 Nm
Adduzione refrigerante Internal coolant Ik	No

Attacco rapido
Quick-change
Schnittstelle

Senso di rotazione
Direction of rotation
Drehrichtung

IN OUT

Descrizione/Description/Beschreibung
A26333S

Codice Alberti/Alberti Code/Albertinummer
ANK.W10.020S

RAIDIALE/RADIAL TOOL

RADIALWERKZEUG
M90-2,5 ER-16A

NAKAMURA

WT-100 / NTY-3

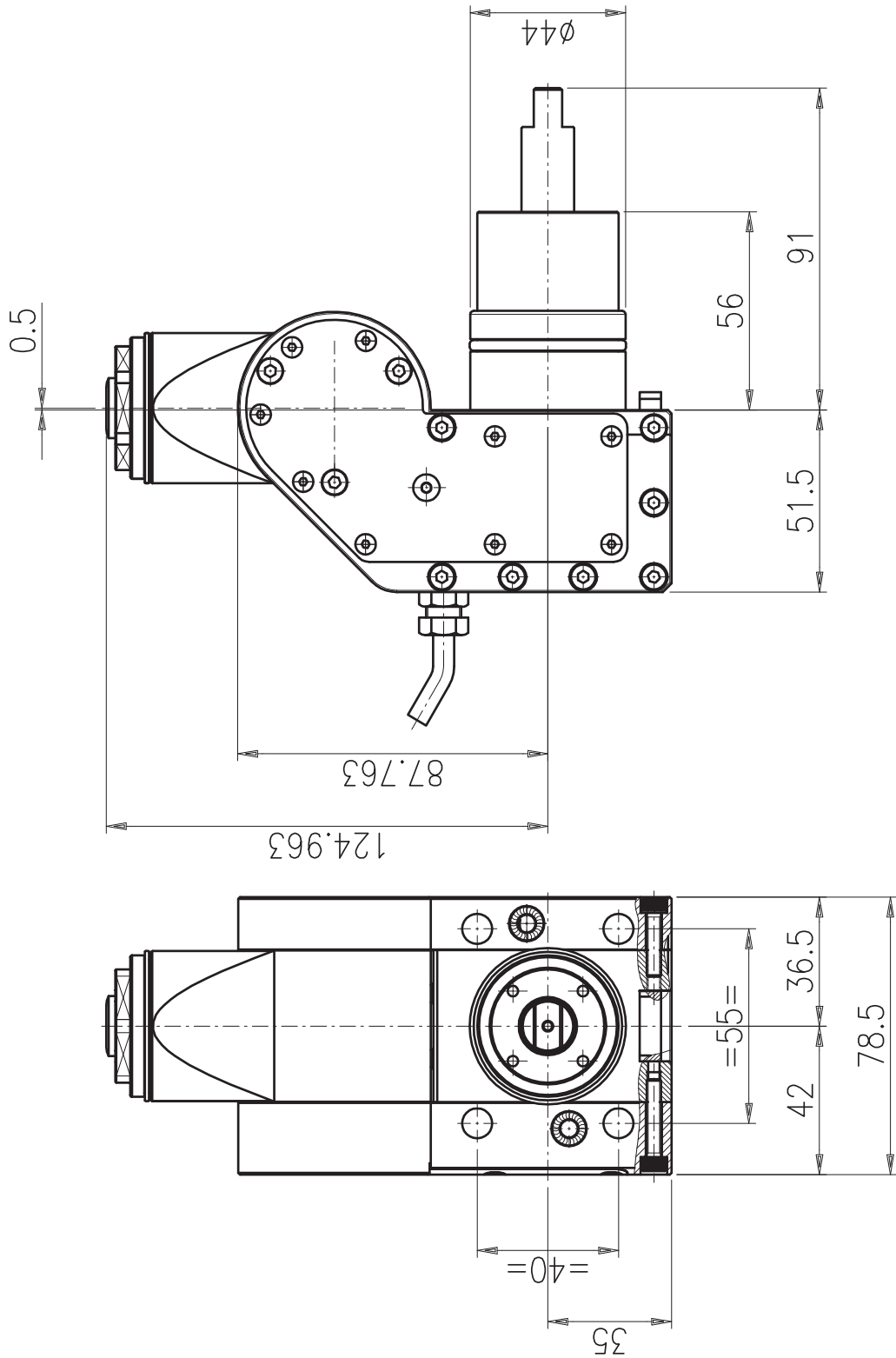
Costruttore/Builder/Hersteller

Modello/Model

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DOTAZIONE STANDARD / STANDARD EQUIPMENT

9.93.1.44.01	Libro istruzioni Instruction book Gebrauchsanweisung	Chiavi di servizio Service key Bedienschlüssel
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**PRESTAZIONI
Performance
Leistungen**

Rt	1:1
RPM max	6.000
Max carico assiale Max axial load Längsbelastung max.	150 N
Momento torcente Torque Drehmoment	7 Nm
Adduzione refrig. interna Internal coolant Ik	No
Mandrino Spindle Spindel	ER-16A
Senso di rotazione Direction of rotation Drehrichtung	



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Costruttore/Builder/Hersteller
NAKAMURA
 Modello/Model
WT-100 / NTY-3

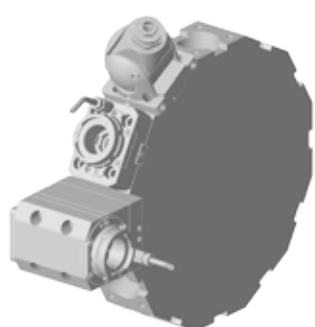
UNIVERSALE/UNIVERSAL TOOL
 UNIVERSALWERKZEUG
 MCU-1,5 ER-16A

Descrizione/Description/Beschreibung
AUAT0.5
 Codice Alberti/Alberti Code / Albertinummer
ANK.W10.0500

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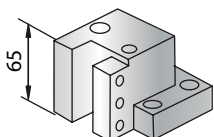
WT150 / WT250 / TC18 / WTW 150 / WTS 150 NTM 3 / SUPER NTJ - NTJX

Nakamura-Tome

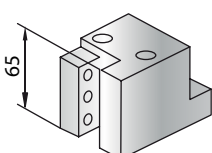


STATIC TOOLS

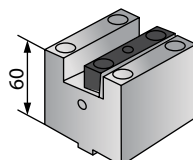
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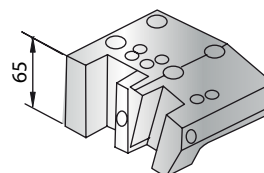
2) O.D. Cutting holder LH



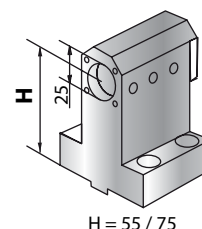
3) Double I.D. holder



4) Double O.D. holder

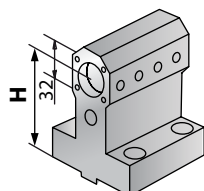


5A/B) Boring bar holder



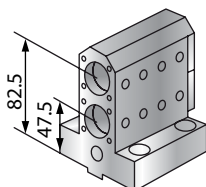
H = 55 / 75

6A/B) Boring bar holder

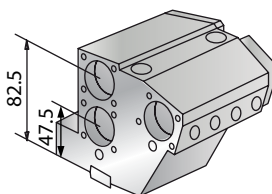


H = 55 / 70

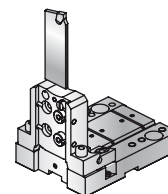
7) Double boring bar holder



8) Triple boring bar holder



9) Cut-off holder



10) Boring bar sleeve



Technical Data / Dati Tecnici

Code
Codice

Technical Data / Dati Tecnici

Code
Codice

1) O.D. CUTTING HOLDER RH 20X20mm 1) Portautensile per esterni destro 20x20mm	ANK.W15.OD20.R
2) O.D. CUTTING HOLDER LH 20X20mm 2) Portautensile per esterni sinistro 20x20mm	ANK.W15.OD20.L
3) DOUBLE I.D. HOLDER 20x20mm 3) Portautensile per interni doppio 20x20mm	ANK.W15.ID20.2
4) DOUBLE O.D. HOLDER 20x20mm 4) Portautensile per esterni doppio 20x20mm	ANK.W15.OD20.2
5A) BORING BAR HOLDER 25mm H=55 5A) Portabareno 25mm H=55	ANK. W15.BB25.55
5B) BORING BAR HOLDER 25mm H=75 5B) Portabareno 25mm H=75	ANK. W15.BB25.75

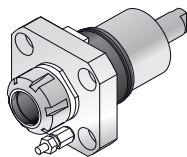
6A) BORING BAR HOLDER 32mm H=55 6A) Portabareno 32mm H=55	ANK. W15.BB32.55
6B) BORING BAR HOLDER 32mm H=70 6B) Portabareno 32mm H=70	ANK. W15.BB32.70
7) DOUBLE BORING BAR HOLDER 25mm 7) Portabareno doppio 25mm	ANK. W15.BB25.2
8) TRIPLE BORING BAR HOLDER 25mm 8) Portabareno triplo 25mm	ANK. W15.BB25.3
9) CUT OFF HOLDER 32mm 9) Portalama 32mm	ANK. W15.C032
10) BORING BAR SLEEVE 10) Bussole di riduzione	ANK. W15.RDX

WT150 / WT250 / TC18 / WTW 150 / WTS 150 NTM 3 / SUPER NTJ - NTJX

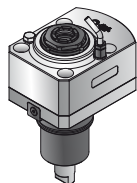
LIVE TOOLS

ER 25

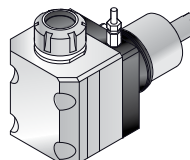
1A/B) Axial MA-2,5/2,5C



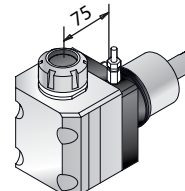
2) Axial MA-2,5S Speeder



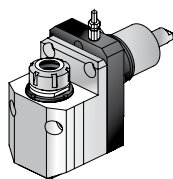
3A/B) Radial M90-2,5/2,5C



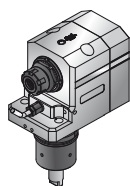
4A/B) Rad. M90-2,5/2,5C H75



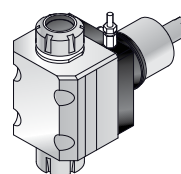
5A/B) Radial M90-2,5D/2,5DC



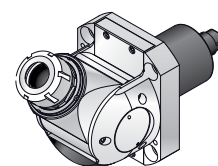
6) Radial M90-2,5 DS Speeder



7A/B) Radial M90-2,5 2U Opp.



8) Adjustable MCU-1,5



Technical Data / Dati Tecnici

Code Codice

1A) AXIAL MA-2,5

1A) Assiale MA-2,5

ANK.W15.0100

1B) AXIAL MA-2,5 C 70 Bar

1B) Assiale MA-2,5 C 70 Bar

ANK.W15.010C

2) AXIAL MA-2,5S SPEEDER

2) Assiale MA-2,5S Speeder

ANK.W15.010S

3A) RADIAL M90-2,5

3A) Radiale M90-2,5

ANK.W15.0200

3B) RADIAL M90 -2,5 C 70 Bar

3B) Radiale M90-2,5 C 70 Bar

ANK.W15.020C

4A) RADIAL M90-2,5 H=75 mm

4A) Radiale M90-2,5 H=75 mm

ANK.W15.0200.75

4B) RADIAL M90-2,5 C 70 BAR H=75 mm

4B) Radiale M90-2,5 C 70 Bar H=75 mm

ANK.W15.020C.75

Technical Data / Dati Tecnici

Code Codice

5A) RADIAL OFFSET M90-2,5D

5A) Radiale Arretrato M90-2,5D

ANK.W15.0700

5B) RADIAL OFFSET M90-2,5DC 70 Bar

5B) Radiale Arretrato M90-2,5DC 70 Bar

ANK.W15.070C

6) RADIAL OFFSET M90-2,5DS SPEEDER

6) Radiale M90-2,5 DS Speeder

ANK.W15.070S

7A) RADIAL M90-2,5 2U OPPOSITE ER25/16

7A) Radiale M90-2,5 2U ER25/16 Contrapposto

ANK.W15.0300

7B) RADIAL M90-2,5 2U OPPOSITE ER25/25

7B) Radiale M90-2,5 2U ER25/25 Contrapposto

ANK.W15.0301

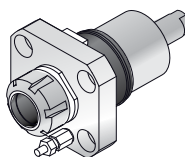
8) ADJUSTABLE MCU-1,5

8) Orientabile MCU-1,5

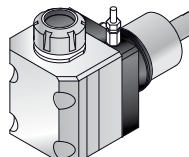
ANK.W15.0500

ER 32

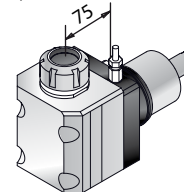
9A/B) Axial MA-3,5/3,5C 70 Bar



10A/B) Radial M90-3,5/3,5C 70 Bar



11A/B) Radial M90-3,5/3,5C H75



Technical Data / Dati Tecnici

Code Codice

9A) AXIAL MA-3,5

9A) Assiale MA-3,5

ANK.W15.0100.32

9B) AXIAL MA-3,5 C 70 Bar

9B) Assiale MA-3,5 C 70 Bar

ANK.W15.010C.32

10A) RADIAL M90-3,5

10A) Radiale M90-3,5

ANK.W15.0200.32

Technical Data / Dati Tecnici

Code Codice

10B) RADIAL M90 -3,5 C 70 Bar

10B) Radiale M90-3,5 C 70 Bar

ANK.W15.020C.32

11A) RADIAL M90-3,5 H=75 mm

11A) Radiale M90-3,5 H=75 mm

ANK.W15.0200.32.75

11B) RADIAL M90-3,5C 70 Bar H=75 mm

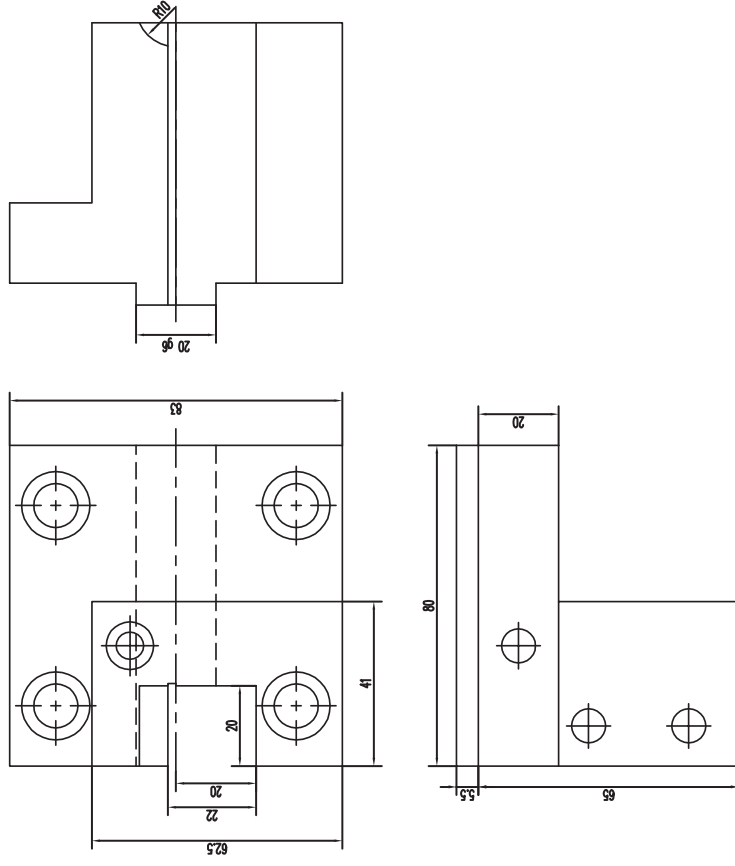
11B) Radiale M90-3,5C 70 Bar H=75 mm

ANK.W15.020C.32.75



SmartChange
Ref. Pg E / Rif. pag E

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Costruttore/Builder/Hersteller

NAKAMURA

Modello/Model
WT150 - WT250 - WTW150
WTS150 - NTM3 - SUPER NTJX

OD CUTTING HOLDER
RIGHT HAND 20X20

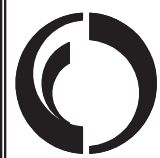
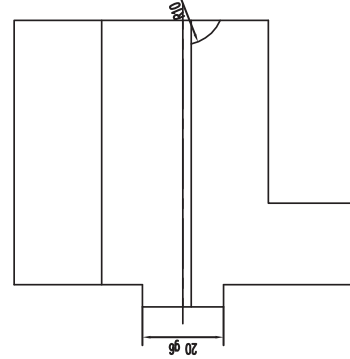
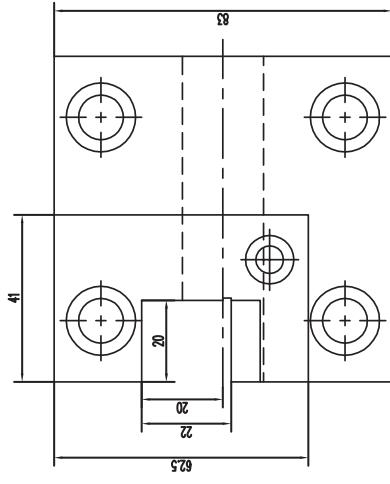
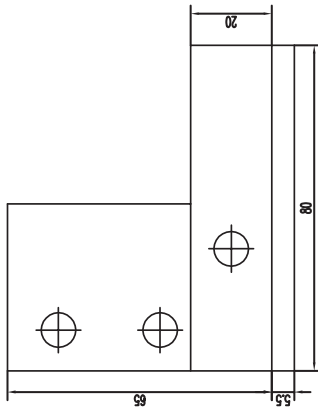
Descrizione/Description/Beschreibung

W1431

Codice Alberti/Alberti Code/Albertinummer

ANK.W150D20.R

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Costruttore/Builder/Hersteller

NAKAMURA

Modello/Model
WT150 - WT250 - WTW150
WTS150 -NTM3 - SUPER NTJX

OD CUTTING HOLDER
LEFT HAND 20X20

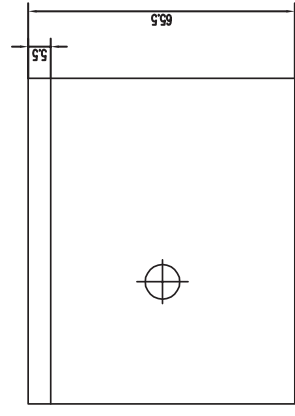
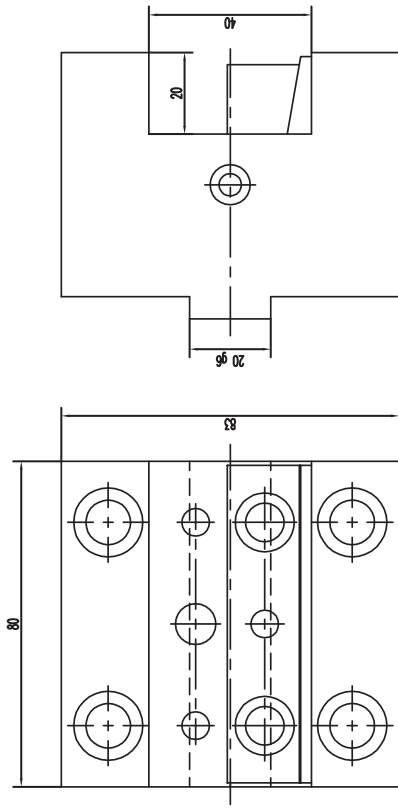
Descrizione/Description/Beschreibung

W 1432

Codice Alberti/Alberti Code /Albertinummer

ANK.W15.OD20.L

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Descrizione/Description/Beschreibung
W 1415
 Codice Alberti/Alberti Code / Albertinummer
ANK.W15.ID20.2

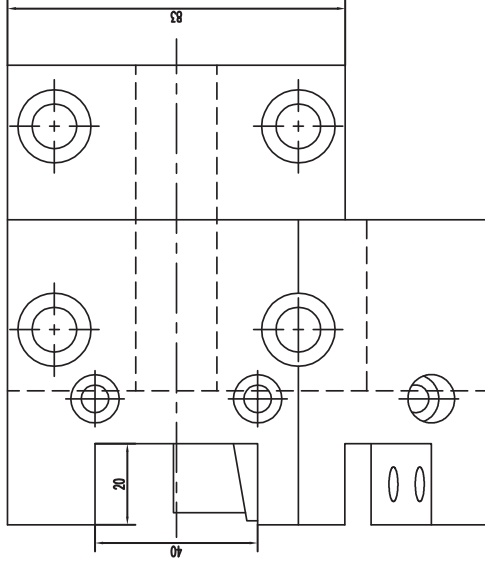
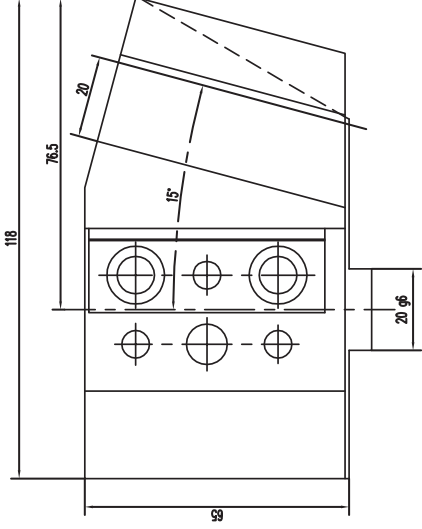
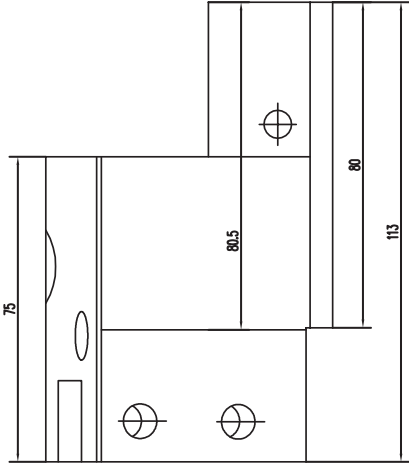
ID CUTTING HOLDER
20X20mm

Costruttore/Builder/Hersteller
NAKAMURA
 Modello/Model
WT150 - WT250 - WTW150
WTS150 - NTM3 - SUPER NTJX

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Costruttore/Builder/Hersteller

NAKAMURA

Modello/Model

WT150 - WT250 - WTW150
WTS150 - NTM 3 - SUPER NTJX

DOUBLE OD HOLDER

20X20

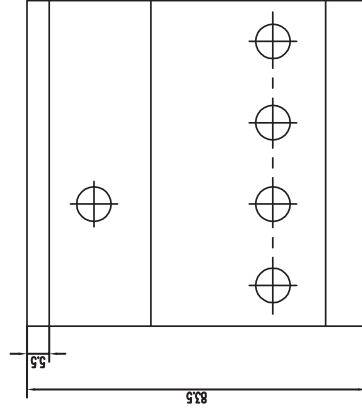
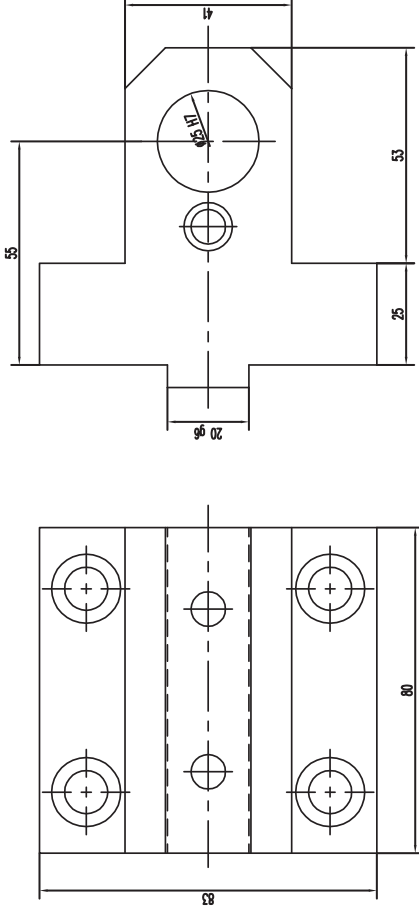
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R1452

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ANK.W15.OD20.2

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Costruttore/Builder/Hersteller

NAKAMURA

Modello/Model

WT150 - WT250 - WTW150
WTS150 - NTM3 - SUPER NTJX

Descrizione/Description/Beschreibung

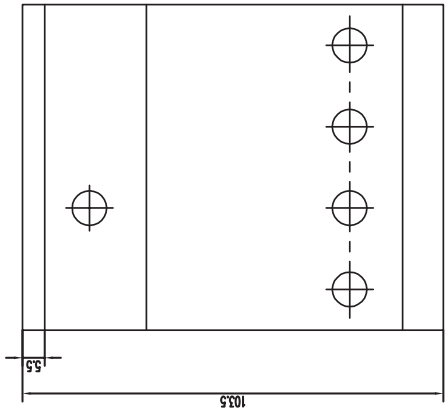
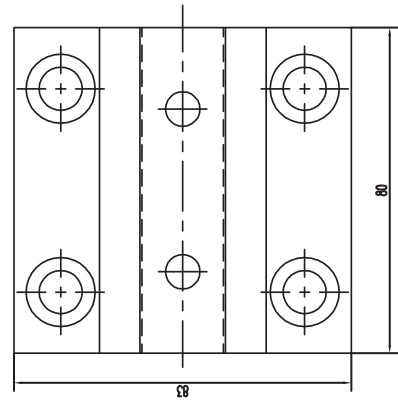
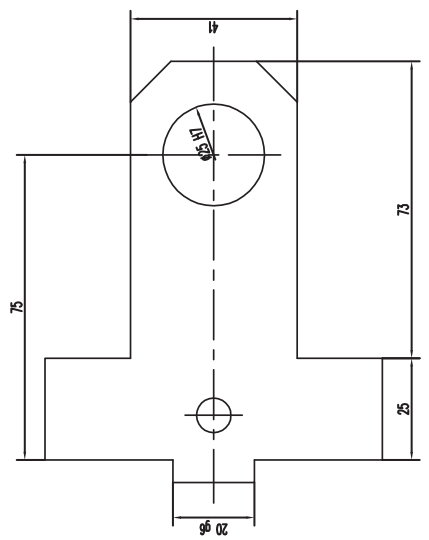
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Codice Alberti/Alberti Code / Albertinummer

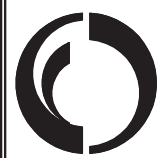
ANK.W15.BB25.55

BORING BAR HOLDER

25mm H=55



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Costruttore/Builder/Hersteller

NAKAMURA

Modello/Model

**WT150 - WT250 - WTW150
 WTS150 - NTM3 - SUPER NTJX**

Descrizione/Description/Beschreibung

W 4437

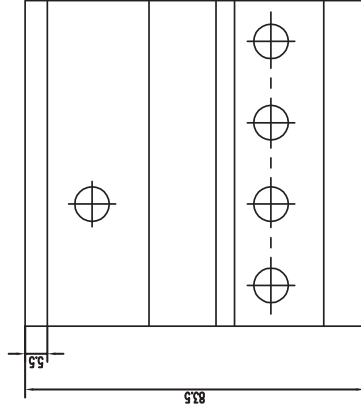
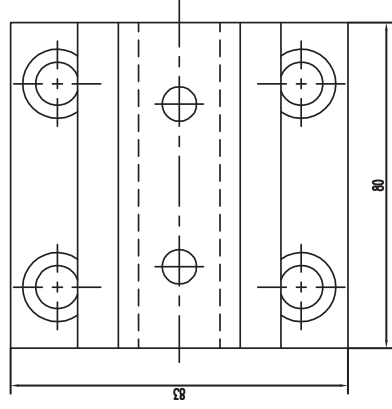
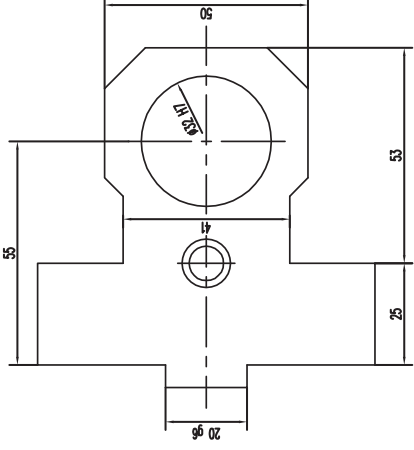
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ANK.W15.BB25.75

BORING BAR HOLDER

25mm H=75

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Costruttore/Builder/Hersteller

NAKAMURA

Modello/Model
WT150 - WT250 - WTW150
WTS150 - NTM3 - SUPER NTJX

Descrizione/Description/Beschreibung

W 4447 C

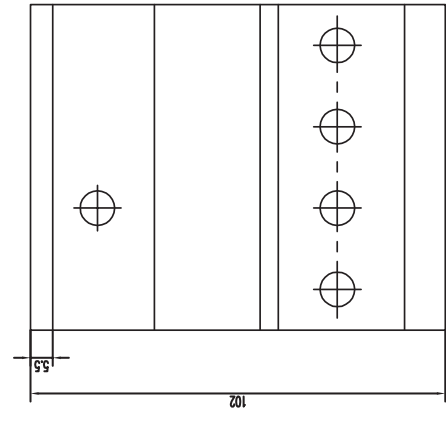
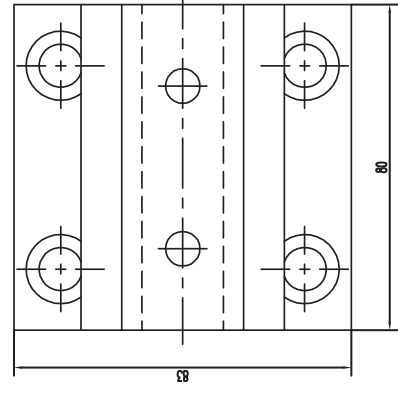
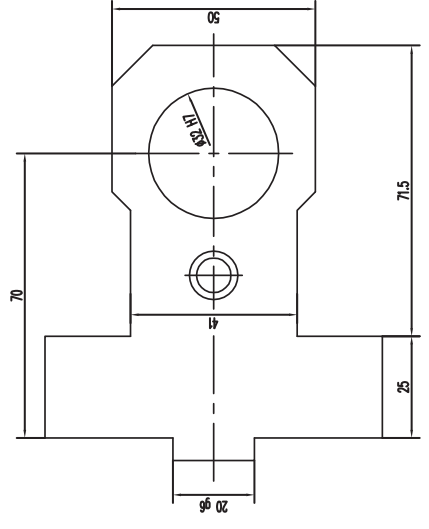
Codice Alberti/Alberti Code /Albertinummer

ANK.W15.BB32.55

BORING BAR HOLDER

32mm H=55

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Costruttore/Builder/Hersteller

NAKAMURA

Modello/Model

WT150 - WT250 - WTW150
WTS150 - NTM3 - SUPER NTJX

Descrizione/Description/Beschreibung

Z 2417

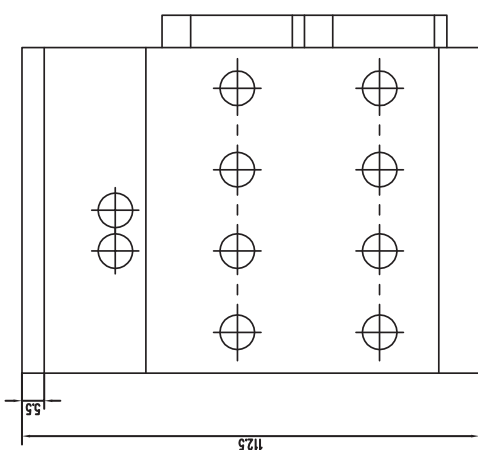
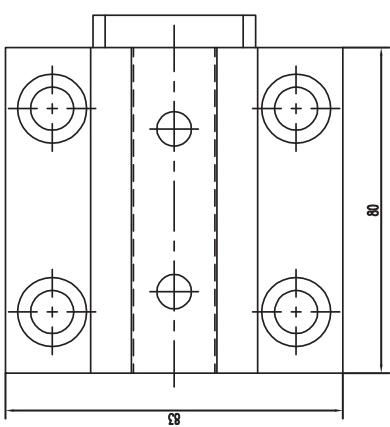
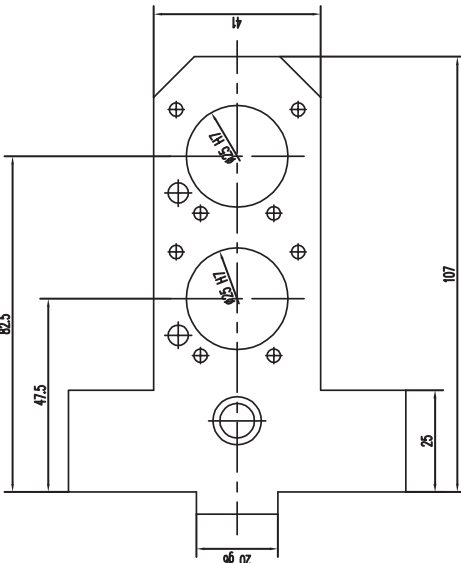
Codice Alberti/Alberti Code /Albertinummer

ANK.W15.BB32.70

BORING BAR HOLDER

32mm H=70

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Descrizione/Description/Beschreibung
R 8418

Codice Alberti/Alberti Code / Albertinummer
ANK.W15.BB25.2

DOUBLE BORING BAR
25mm H=82.5

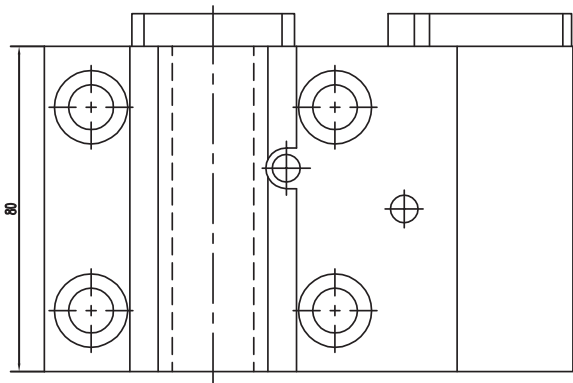
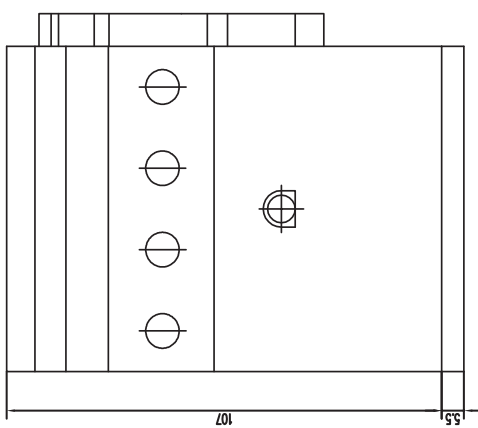
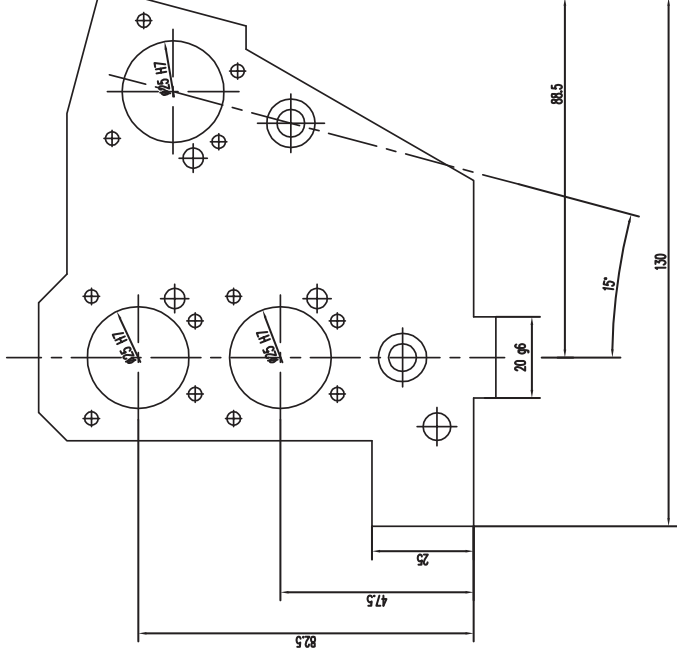
NAKAMURA

Costruttore/Builder/Hersteller

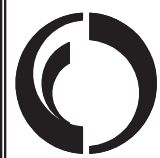
Modelli/Model
WT150 - WT250 - WTW150
WTS150 - NTM3 - SUPER NTJX

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Costruttore/Builder/Hersteller

NAKAMURA

Modello/Model

WT150 - WT250 - WTW150
WTS150 - NTM3 - SUPER NTJX

Descrizione/Description/Beschreibung

R 8453

Codice Alberti/Alberti Code /Albertinummer

ANK.W15.BB25.3

TRIPLE BORING BAR

25mm H=82.5

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Tel. (02) 96703586 (2 linee r.a.) FAX (02) 96703620

Costruttore/Builder/Hersteller

NAKAMURA

Modello/Model

**WT150 - WT250 - WTW150
WTS150 - NTM3 - SUPER NTJX**

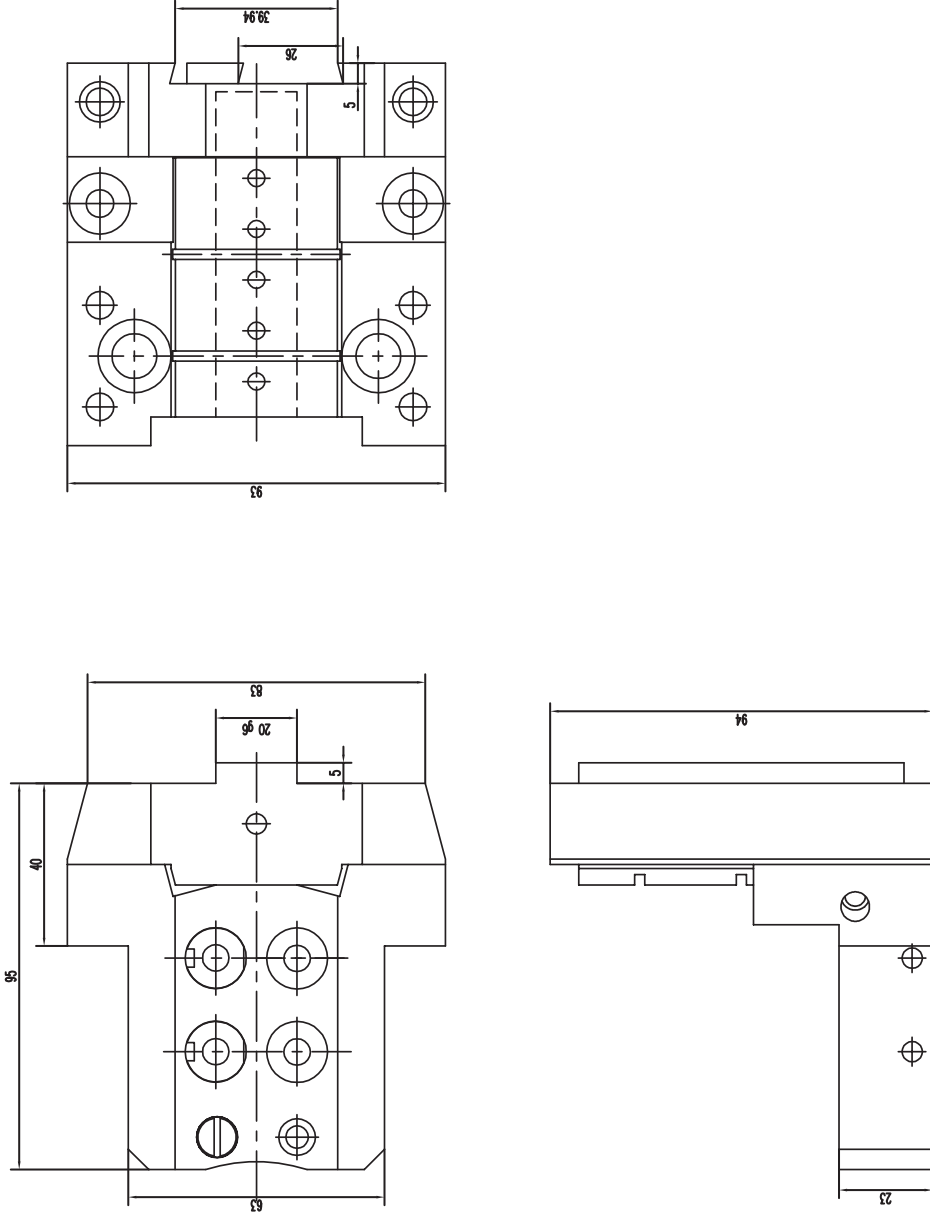
Descrizione/Description/Beschreibung

R 1431

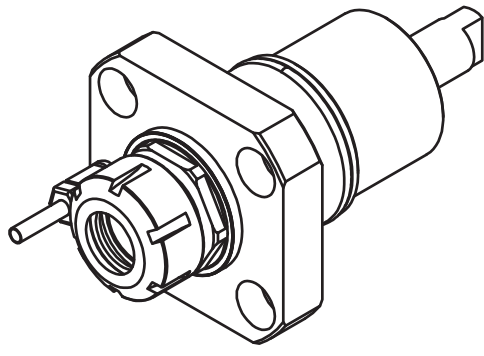
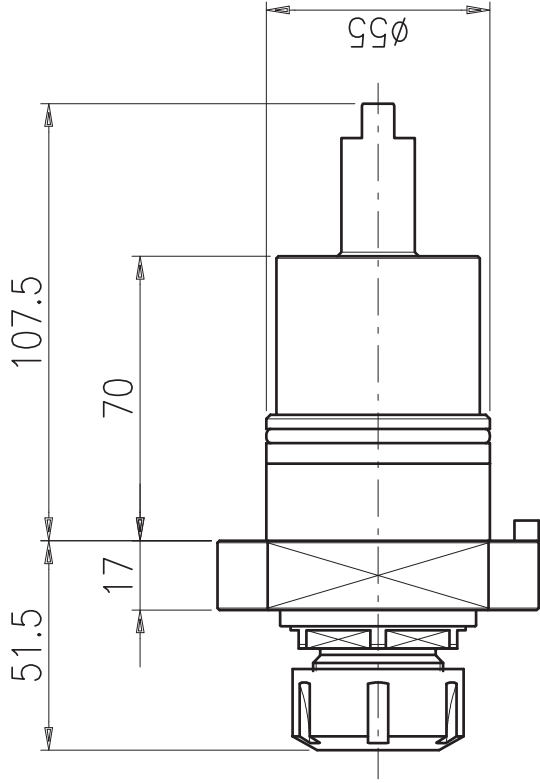
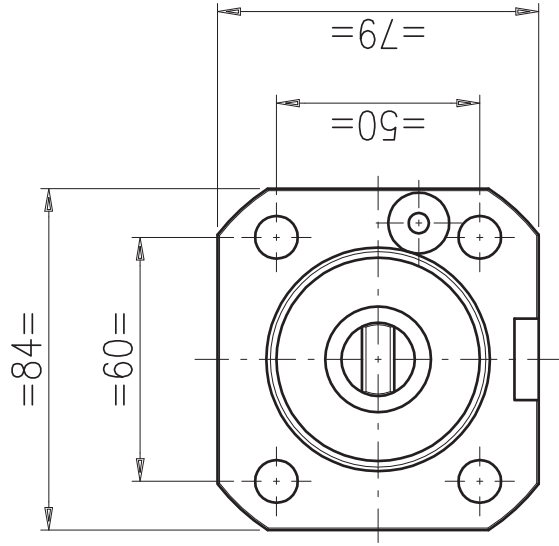
Codice Alberti/Alberti Code /Albertinummer

ANK.W15.CO32

CUTOFF HOLDER 32mm



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**PRESTAZIONI
Performance
Leistungen**

Rt 1:1

RPM max 6.000

Max carico assiale
Max axial load
Längsbelastung 800 N

Adduzione refrig. interna
Internal coolant
Ik No

Mandrino
Spindle
Spindel ER-25

Senso di rotazione
Direction of rotation
Drehrichtung
IN OUT

DOTAZIONE STANDARD / STANDARD EQUIPMENT

Libro istruzioni
Instruction book
Gebrauchsanweisung

Chiavi di servizio
Service key
Bedienschlüssel

9.91.2.55.22

Costruttore/Builder/Hersteller

NAKAMURA

Modello/Model

SUPER NTJ-NTJX / NTM3 / TMC18 / TW10
SC150-250 / WT150-250 / WTW150 / WTS150

ASSIALE/AXIAL TOOL

AXIALWERKZEUG

MA-2,5 ER-25

Descrizione/Description/Beschreibung

KZ1510-ER25

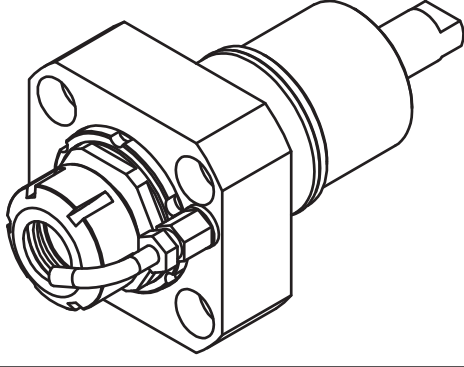
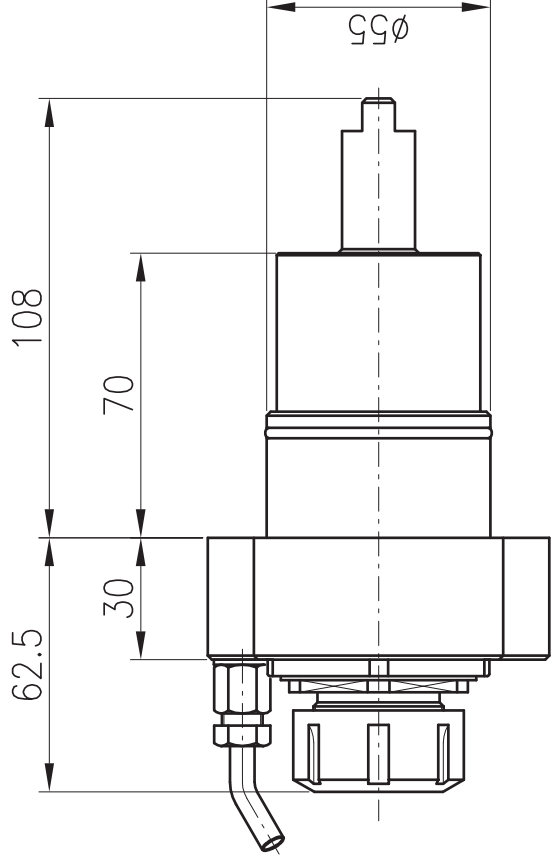
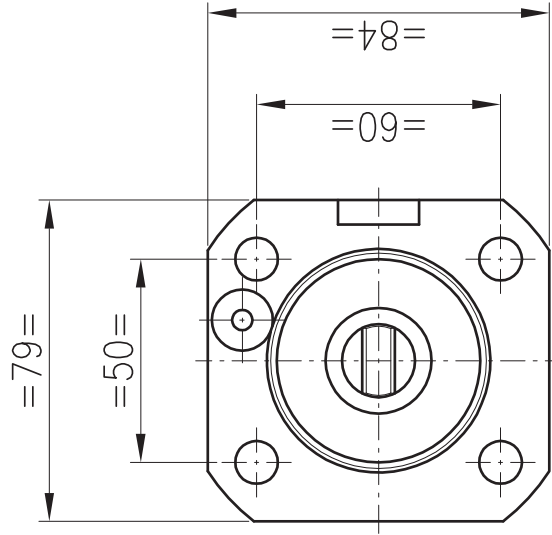
Codice Alberti/Alberti Code / Albertinummer

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PRESTAZIONI
Performance
Leistungen

Rt	1:1
RPM max	6.000
Max carico assiale Max axial load Längsbelastung	950 N
Adduzione refrigerante Internal coolant Ik	Yes
Mandrino Spindle Spindel	ER-25



DOTAZIONE STANDARD / STANDARD EQUIPMENT

Libro istruzioni Instruction book Gebrauchsanweisung	Chiavi di servizio Service key Bedienschlüssel
--	--

ASSIALE/AXIAL TOOL
AXIALWERKZEUG
MA-2,5 ER-25 R.I. 70 BAR

NAKAMURA
 SUPER NTJ-NTJX / NTM3 / TMC18 / TW10
 SC150-250 / WT150-250 / WTW150 / WTS150

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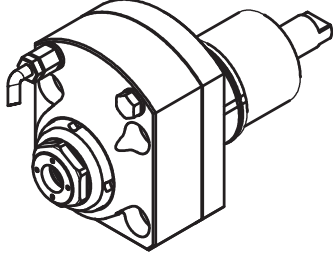
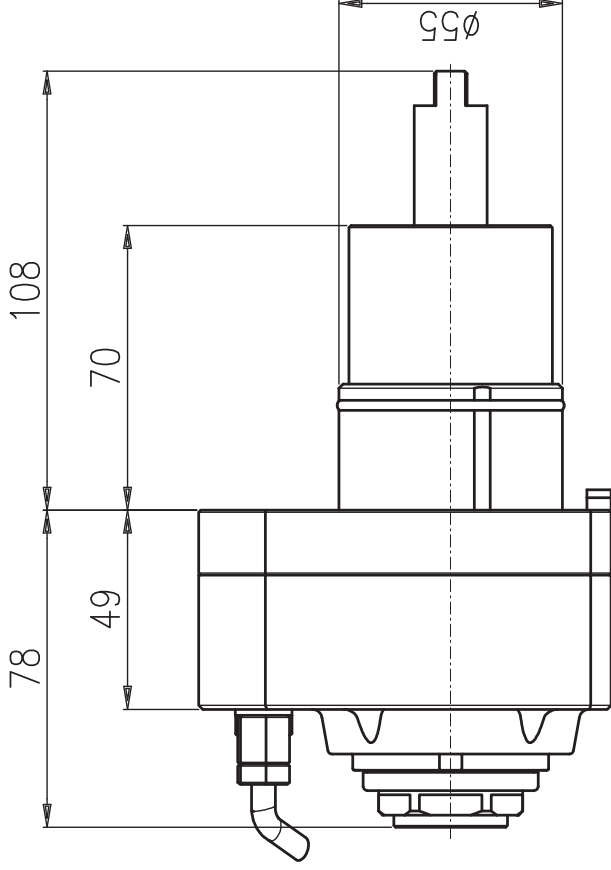
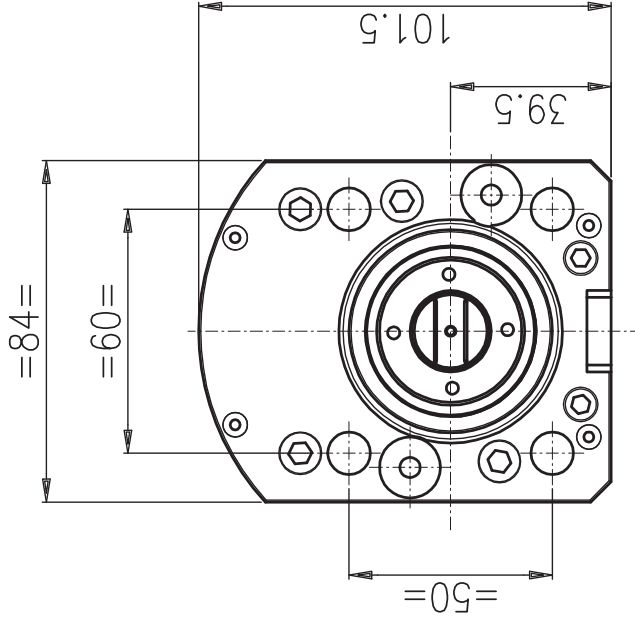


Descrizione / Description / Beschreibung

KZ1510C-ER25

Codice Alberti / Alberti Code / Albertinumnummer

ANK.W15.010C 9.91.2.55.C0



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**PRESTAZIONI
Performance
Leistungen**

Rt 2:1

RPM max 12.000

Max carico assiale
Max axial load
Längsbelastung 800 N

Adduzione refrig. interna
Internal coolant
Ik No

Mandrino
Spindle
Spindel ER-20A

Senso di rotazione
Direction of rotation
Drehrichtung

DOTAZIONE STANDARD / STANDARD EQUIPMENT

Libro istruzioni
Instruction book
Gebrauchsanweisung

Chiavi di servizio
Service key
Bedienschlüssel

9.91.2.55.S0

Costruttore/Builder/Hersteller

NAKAMURA

Modello/Model

SUPER NTJ-NTJX / NTM3 / TMC18 / TW10
SC150-250 / WT150-250 / WTW150 / WTS150

ASSIALE/AXIAL TOOL

AXIALWERKZEUG

MA-2,5 ER-20A 2:1

Descrizione/Description/Beschreibung

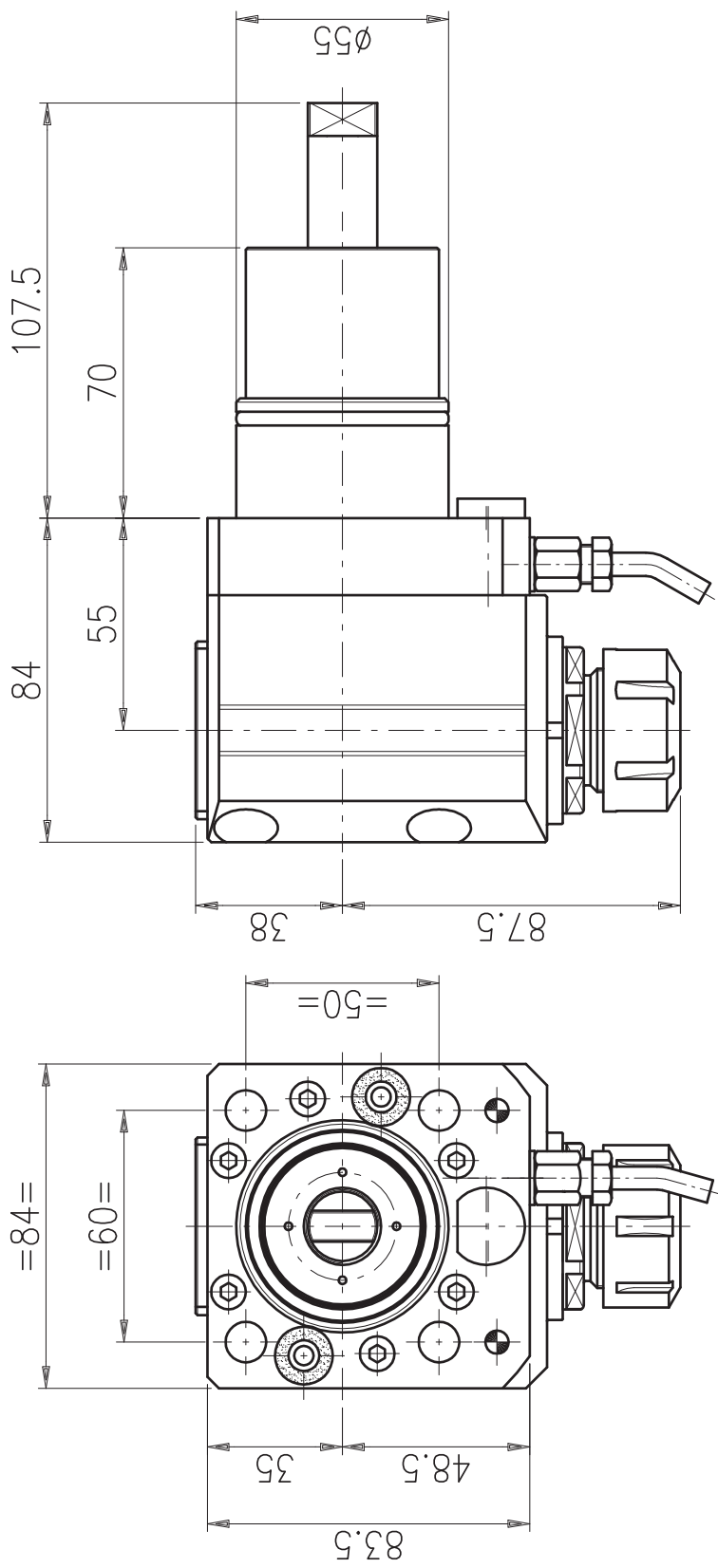
KZ1510S

Codice Alberti/Alberti Code / Albertinumnummer

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DOTAZIONE STANDARD / STANDARD EQUIPMENT

Libro istruzioni
Instruction book
Gebrauchsanweisung

Chiavi di servizio
Service key
Bedienschlüssel

9.92.2.55.35

RADIALE/RADIAL TOOL

RADIALWERKZEUG

M90-2,5 ER-25

Costruttore/Builder/Hersteller

NAKAMURA

Modello/Model

SUPER NTJ-NTJX / NTM3 / TMC18 / TW10
SC150-250 / WT150-250 / WTW150 / WTS150

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**PRESTAZIONI
Performance
Leistungen**

Rt	1:1
RPM max	6.000
Max carico assiale Max axial load Längsbelastung max.	800 N
Momento torcente Torque Drehmoment	20 Nm
Adduzione refrigerante Internal coolant Ik	No
Mandrino Spindle Spindel	ER-25
Senso di rotazione Direction of rotation Drehrichtung	IN OUT

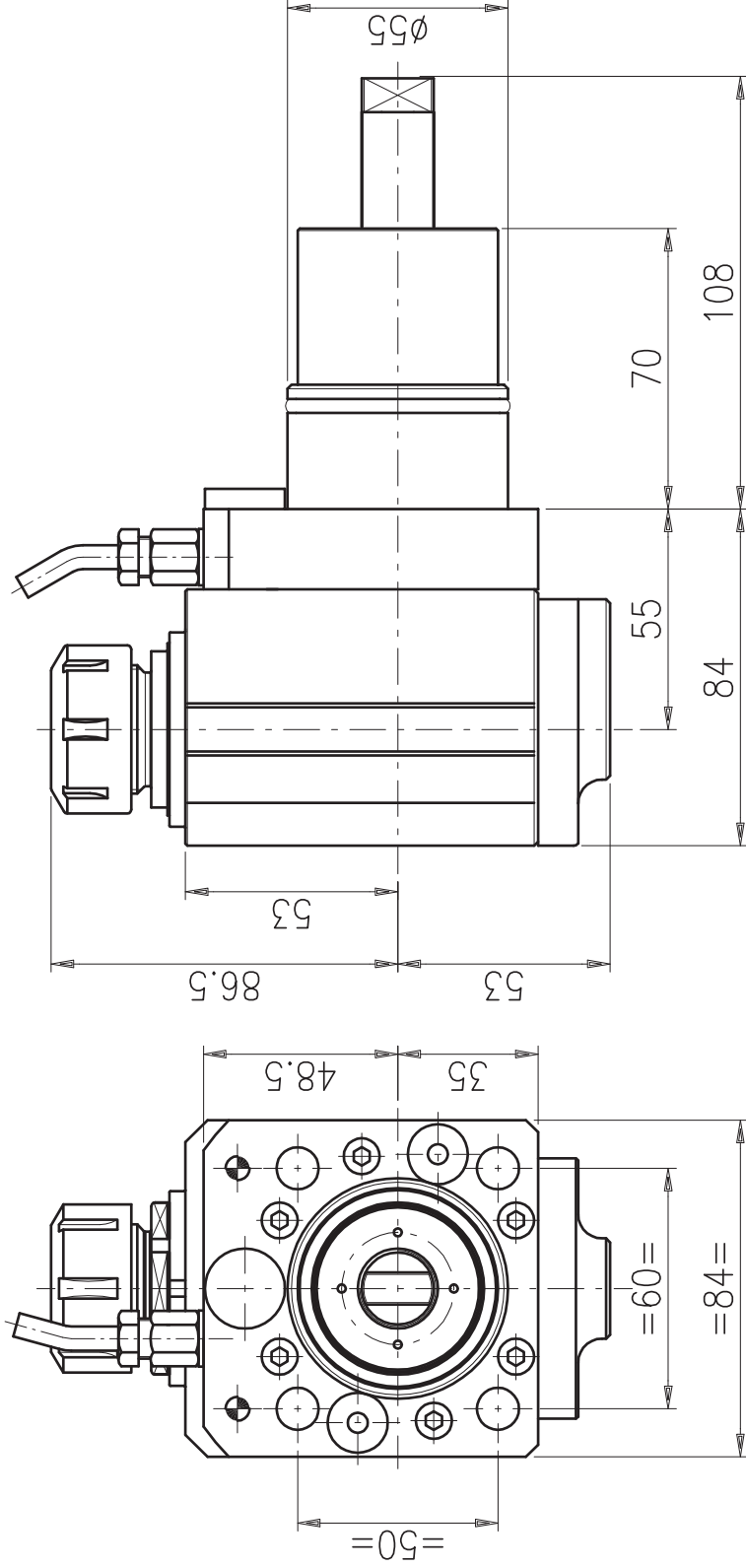
Descrizione/Description/Beschreibung

KZ1513-ER25

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ANK.W15.0200

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DOTAZIONE STANDARD / STANDARD EQUIPMENT

Libro istruzioni
Instruction book
Gebrauchsanweisung

Chiavi di servizio
Service key
Bedienschlüssel

9.92.2.55.C3

Costruttore/Builder/Hersteller

NAKAMURA

Modello/Model

**SUPER NTJ-NTJX / NTM3 / TMC18 / TW10
SC150-250 / WT150-250 / WTW150 / WTS150**

**RADIALE/ RADIAL TOOL
RADIALWERKZEUG**

M90-2,5 ER-25 R.I.70BAR

Descrizione/Description/Beschreibung

KZ1513C-ER25

Codice Alberti/Alberti Code /Alberinummer

ANK.W15.020C

**PRESTAZIONI
Performance
Leistungen**

Rt 1:1

RPM max 6.000

Max carico assiale
Max axial load
Längsbelastung max. 800 N

Momento torcente
Torque
Drehmoment 20 Nm

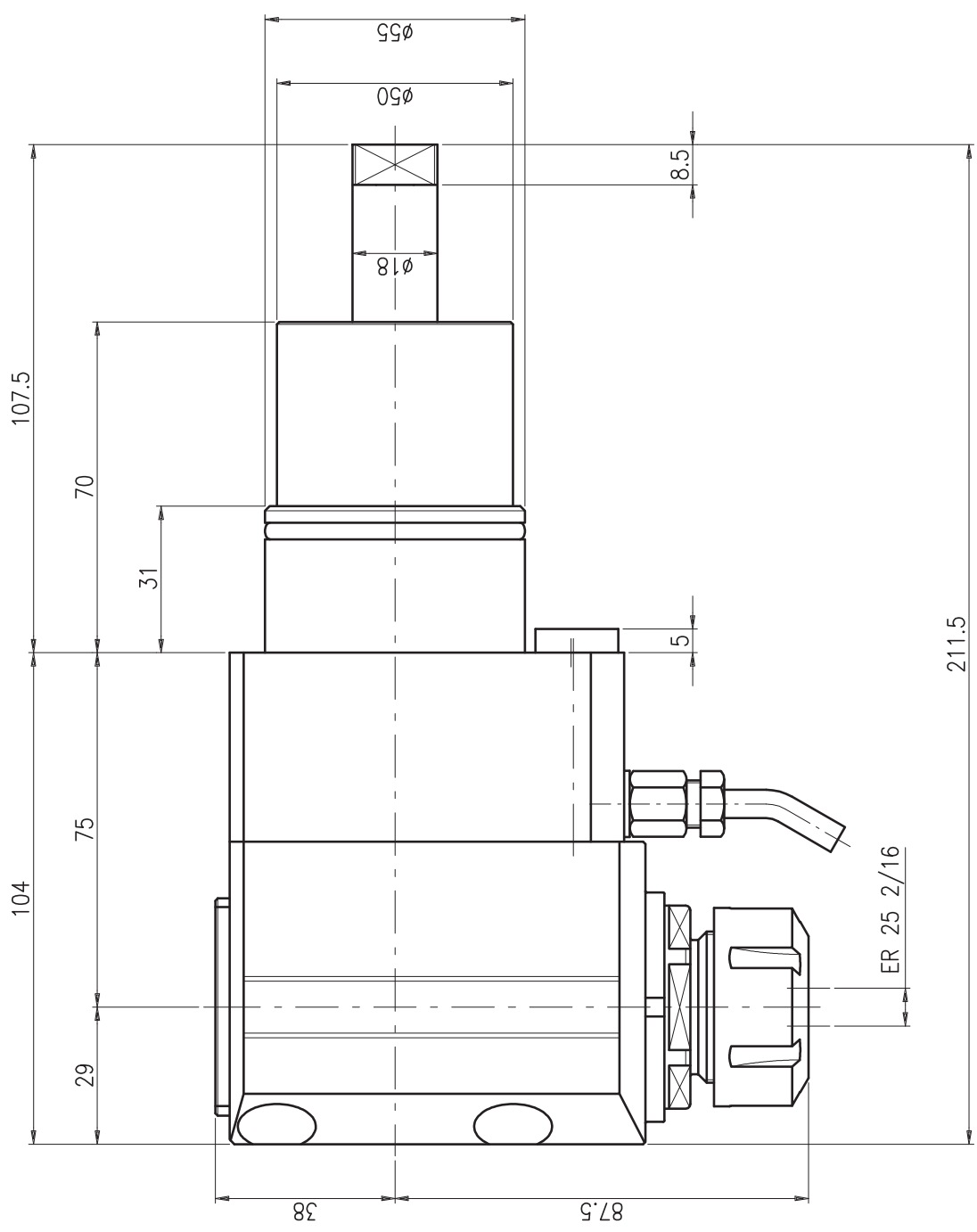
Adduzione refrigerante
Internal coolant
I/k Yes

Mandrino
Spindle
Spindel ER-25

Senso di rotazione
Direction of rotation
Drehrichtung
IN OUT



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KZ1513-H=75

0,4/x X=sovrametallo per rettifica in decimi di mm.

M90-2.5 H=75 PER NAKAMURA TW-10
KZ-1513 (VERSIONE 2008)

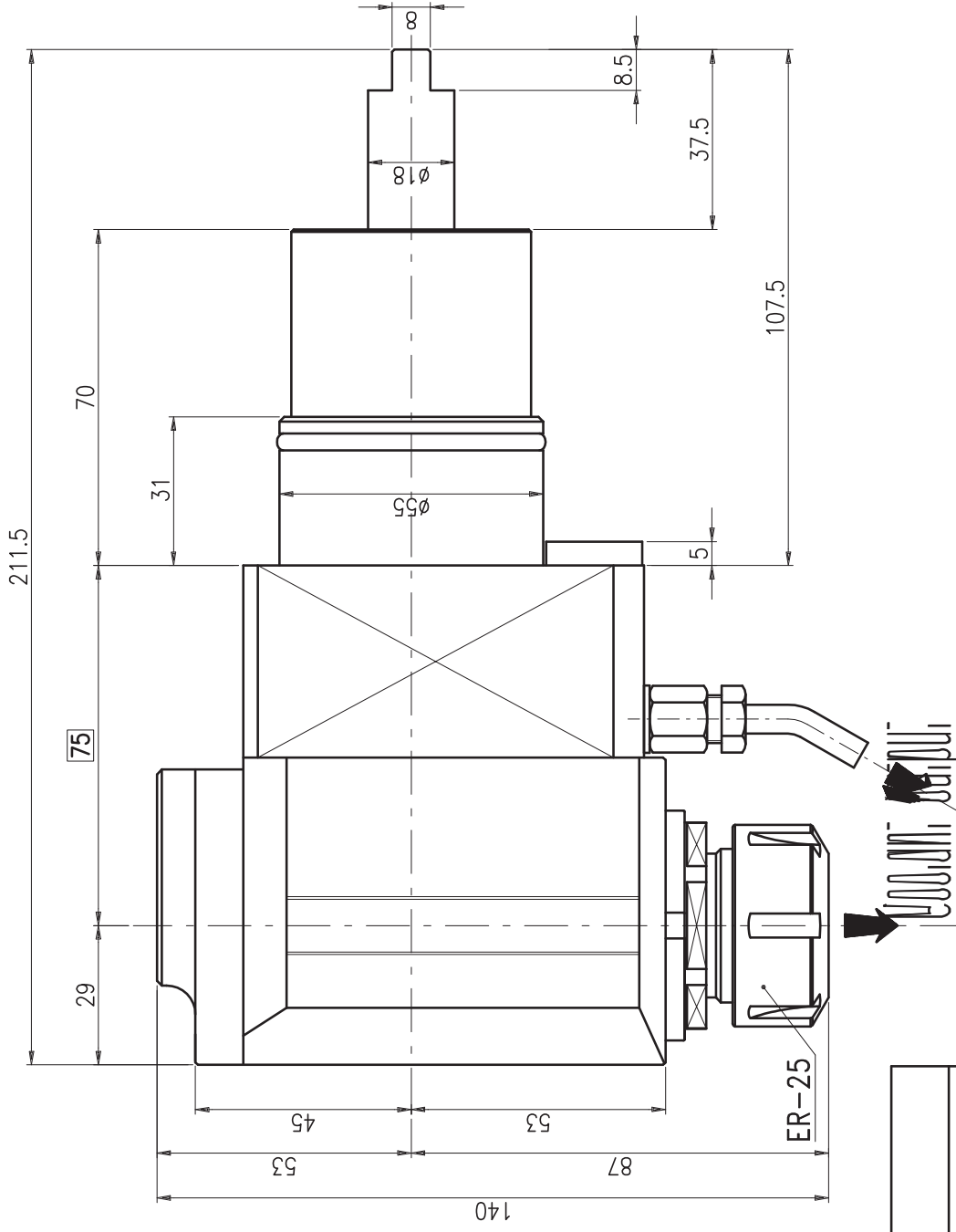


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MODIFICHE	MATERIALE	TRATTAMENTO	FRMA	VERIF.	DATA	REF. ORD.
SMUSSARE SPIGOLI	TOLL. GENER.	SCALA	<i>Carnovale</i>		13/02/08	
		RUGOSITA'				
		1:1				
			NUMERO DISEGNO - CODICE		ANK.W15.0200.75	

9.92.2.55.36

A TERMINI DI LEGGE E' VIETATA LA RIPRODUZIONE DI QUESTO DISEGNO SENZA LA NOSTRA AUTORIZZAZIONE



KZ1513C ER25-H=75

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MODIFICHE <input type="checkbox"/>	MATERIALE M90-2.5 H=75 R l. 70 BAR NAKAMURA TW-10 (LAB)	FIRMA c. B.	DATA 23-06-08
SMUSSARE SPICOLI <input type="checkbox"/>	TOLL. GENER. SCALA 1:1	TRATTAMENTO RUGOSITA'	NUMERO DISEGNO - CODICE ANK.W15.020C.75

X-rovrametallo per rettifica in decimi di mm.

A TERMINI DI LEGGE E' VIETATA LA RIPRODUZIONE DI QUESTO DISEGNO SENZA LA NOSTRA AUTORIZZAZIONE

9.92.2.55.C5

Rpm max = 6.000 giri/'

Gear ratio = 1/1

Nm Max = 20

Tool drive = Er-25

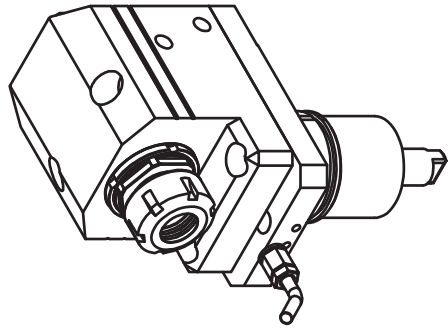
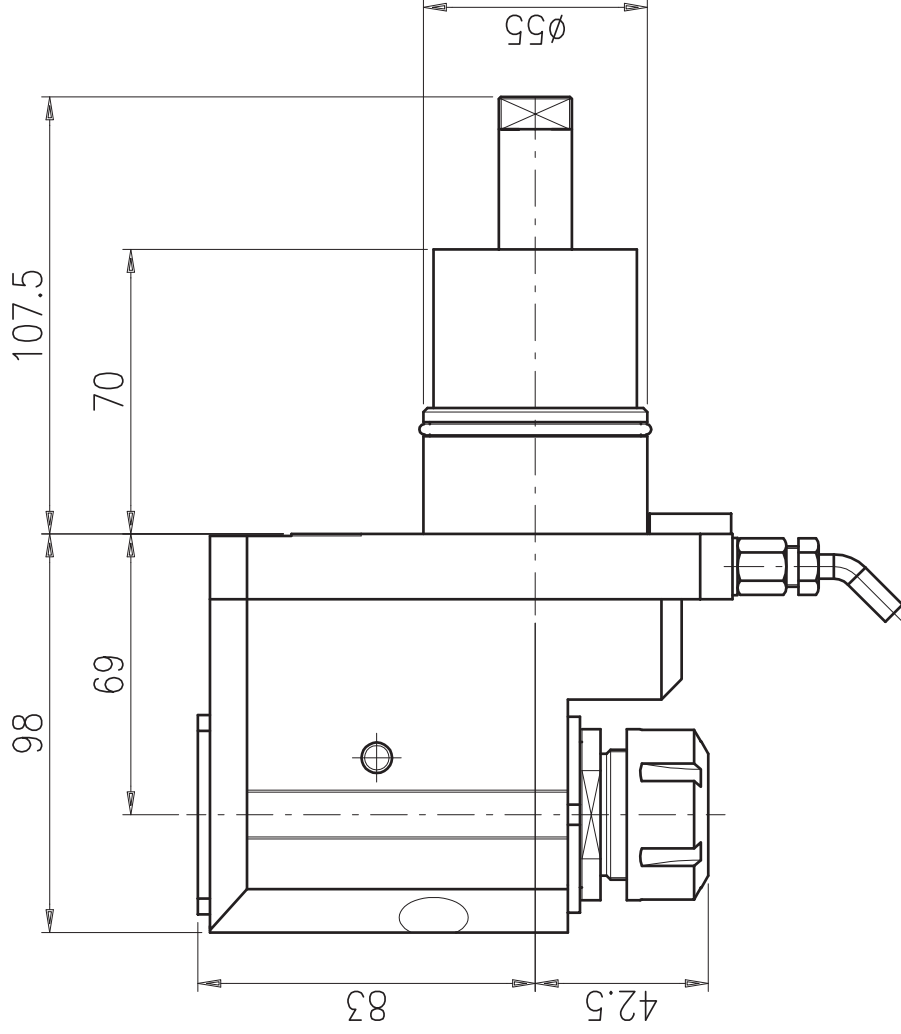
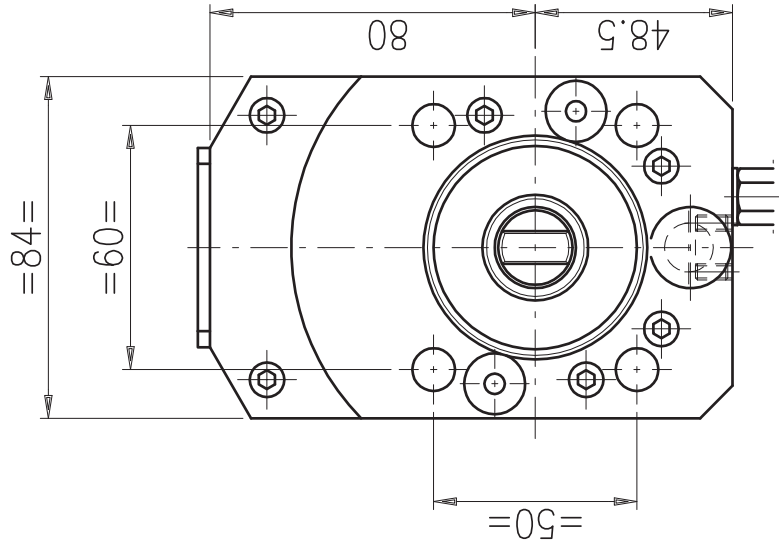
Direction of rotation same as machine spindle

Carico Assiale max. = 1200 N.

Adjustable alignment key

N°4 M10
Coolant input

Coolant input



**PRESTAZIONI
Performance
Leistungen**

Rt	1:1
RPM max	6.000
Max carico assiale Max axial load Längsbelastung max.	800 N
Momento torcente Torque Drehmoment	20 Nm
Adduzione refrig. interna Internal coolant Ik	No
Mandrino Spinale Spindel	ER-25



Senso di rotazione
Direction of rotation
Drehrichtung

DOTAZIONE STANDARD / STANDARD EQUIPMENT

Libro istruzioni
Instruction book
Gebrauchsanweisung

Chiavi di servizio
Service key
Bedienschlüssel

Costruttore/Builder/Hersteller

NAKAMURA

RADIALE ARRETRATO / OFFSET RADIAL TOOL

Descrizione/Description/Beschreibung

Modello/Model

SUPER NTJ-NTJX / NTM3 / TMC18 / TW10
SC150-250 / WT150-250 / WTW150 / WTS150

Radialzurückgesetzwerkzeug

M90-2,5 D ER-25

KZ1513D-ER25

Codice Alberti/Alberti Code /Albertinummer

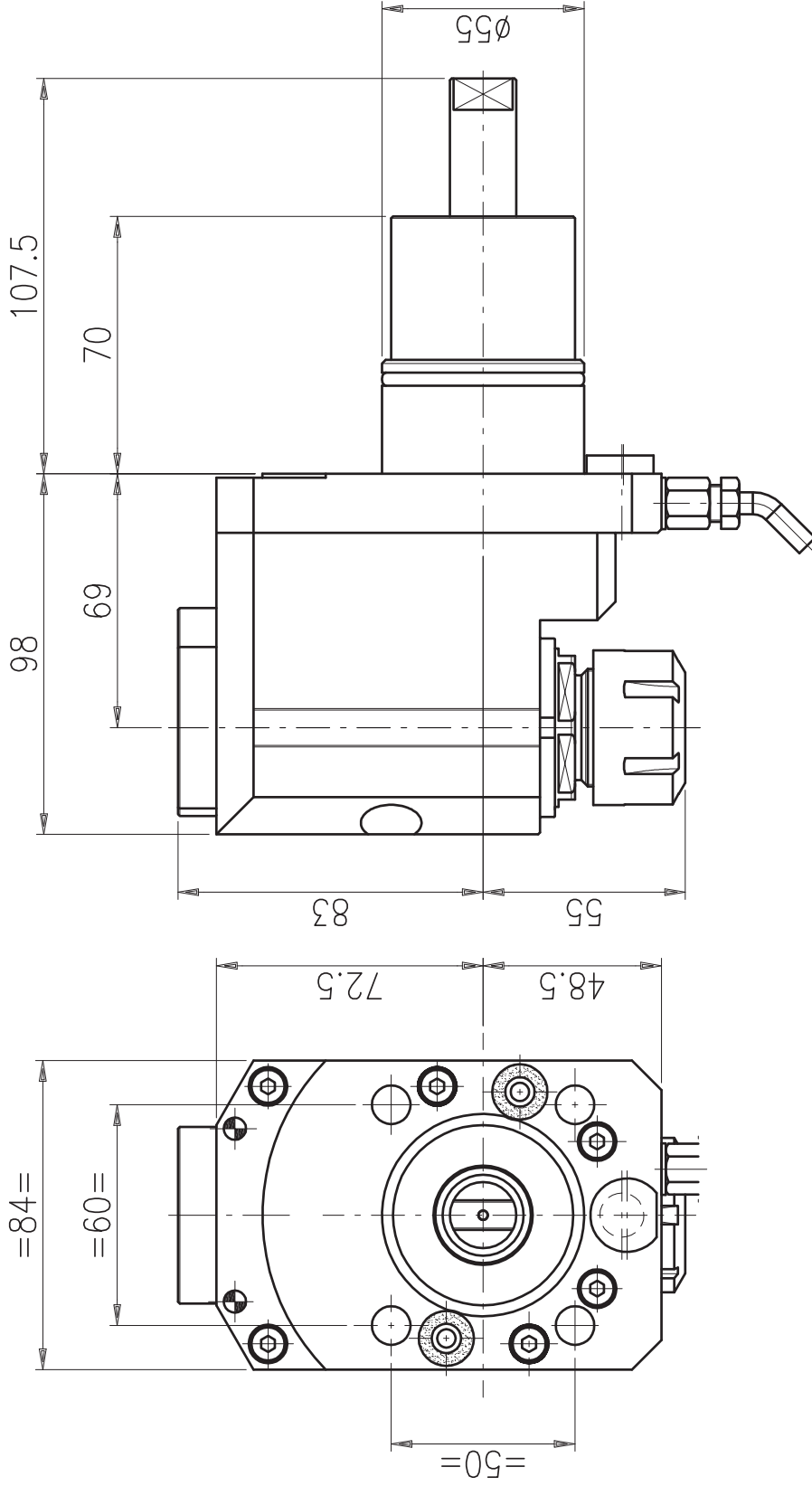
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DOTAZIONE STANDARD / STANDARD EQUIPMENT

Libro istruzioni
Instruction book
Gebrauchsanweisung

Chiavi di servizio
Service key
Bedienschlüssel

9.97.2.55.C2

Costruttore / Builder / Hersteller

NAKAMURA

Modello / Model

**SUPER NTJ-NTJX / NTM3 / TMC18 / TW10
SC150-250 / WT150-250 / WTW150 / WTS150**

RADIALE ARRETRATO/OFFSET RADIAL TOOL

Radialzurückgesetzwerkzeug

M90-2.5 DC ER-25 R.1.70 BAR

Descrizione / Description / Beschreibung

KZ1513DC-ER25

Codice Alberti / Alberti Code / Albertinummer

ANK.W15.070C

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**PRESTAZIONI
Performance
Leistungen**

Rt 1:1

RPM max 6.000

Max carico assiale
Max axial load
Längsbelastung max.
800 N

Momento torcente
Torque
Drehmoment
20 Nm

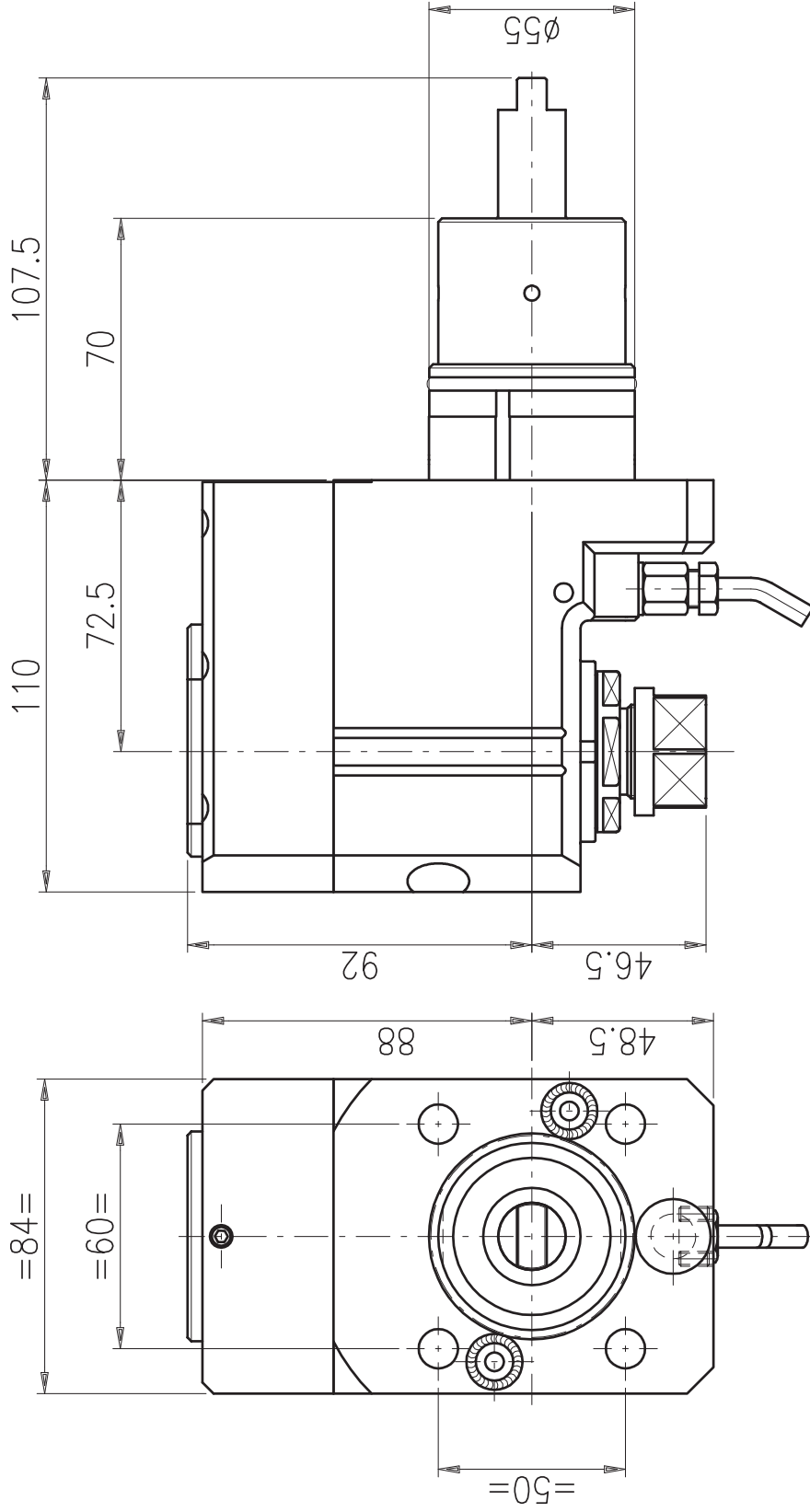
Adduzione refrigerante
Internal coolant
Ik Yes

Mandrino
Spindle
Spindel
ER-25

Senso di rotazione
Direction of rotation
Drehrichtung
IN OUT



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DOTAZIONE STANDARD / STANDARD EQUIPMENT

Libro istruzioni Instruction book Gebrauchsanweisung	Chiavi di servizio Service key Bedienschlüssel
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9.97.2.55.S0

Costruttore/Builder/Hersteller

NAKAMURA

Modello/Model

**SUPER NTJ-NTJX / NTM3 / TMC18 / TW10
SC150-250 / WT150-250 / WTW150 / WTS150**

RADIALE ARRETRATO/OFFSET RADIAL TOOL

Radialzurückgesetzwerkzeug

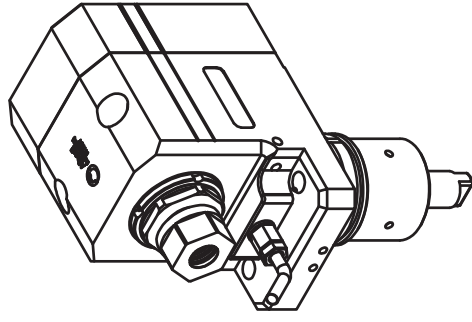
M90-2.5 D ER-20

Descrizione/Description/Beschreibung

KZ1513DS

Codice Alberti/Alberti Code /Alberthinummer

ANK.W15.070S



**PRESTAZIONI
Performance
Leistungen**

Rt 2:1

RPM max 12000

Max carico assiale
Max axial load
Längsbelastung max.
270 N

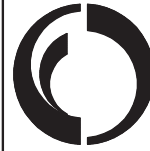
Momento torcente
Torque
Drehmoment
20 Nm

Adduzione refrigerante interna
Internal coolant
Ik No

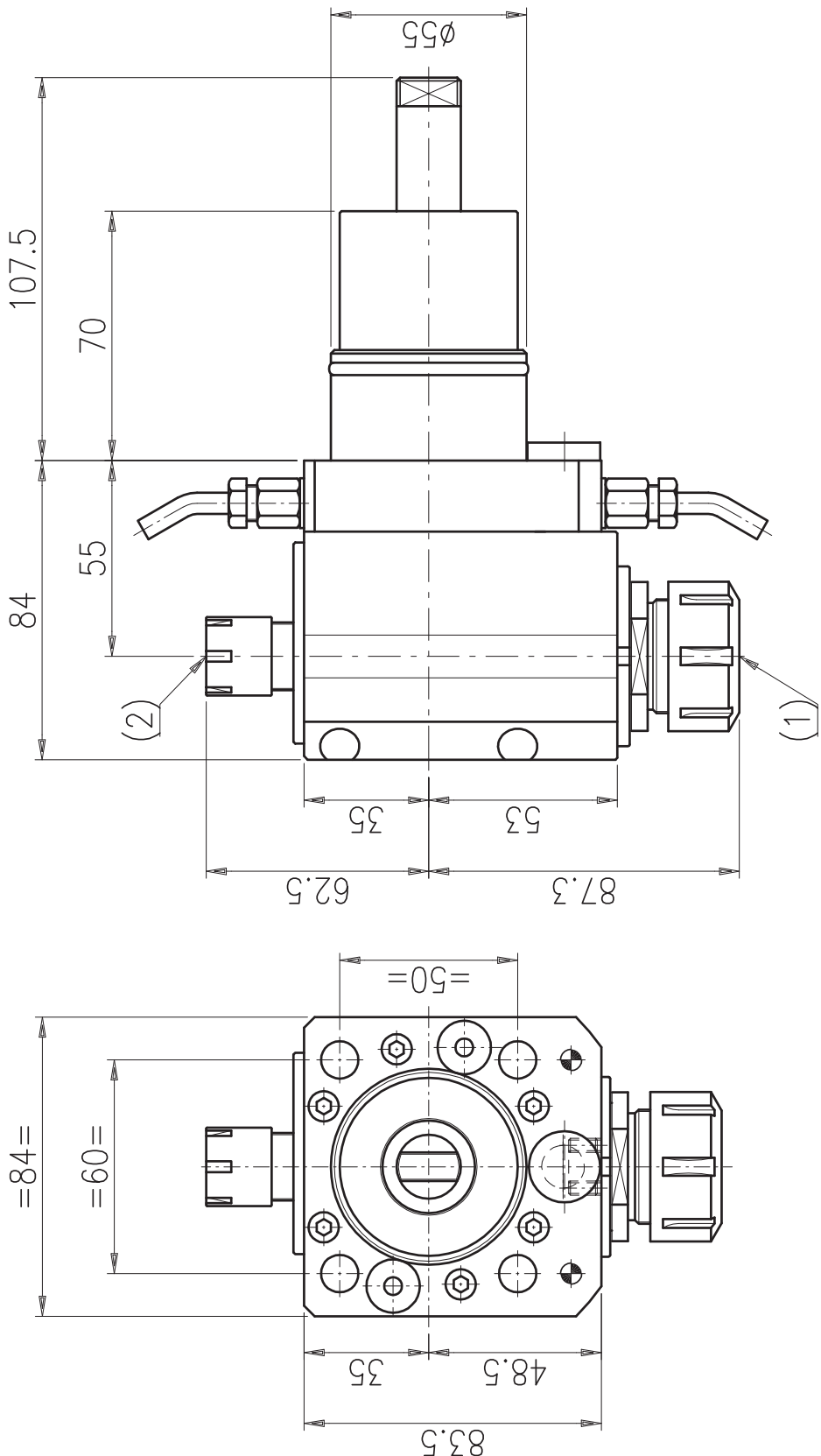
Mandrino
Spindle
Spindel
ER-20

Senso di rotazione
Direction of rotation
Drehrichtung
IN OUT

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DOTAZIONE STANDARD / STANDARD EQUIPMENT

Libro istruzioni Instruction book Gebrauchsanweisung	Chiacchi di servizio Service key Bedienschlüssel
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9.92.2.55.24

Senso di rotazione Direction of rotation Drehrichtung		
Senso di rotazione Direction of rotation Drehrichtung		

Costruttore/Builder/Hersteller
NAKAMURA

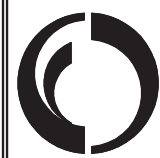
Modello/Model
**SUPER NTJ-NTJX / NTM3 / TMC18 / TW10
SC150-250 / WT150-250 / WTW150 / WTS150**

RADIALE/RADIAL TOOL

RADIALWERKZEUG

M90-2.5 2U ER-25 / ER-16

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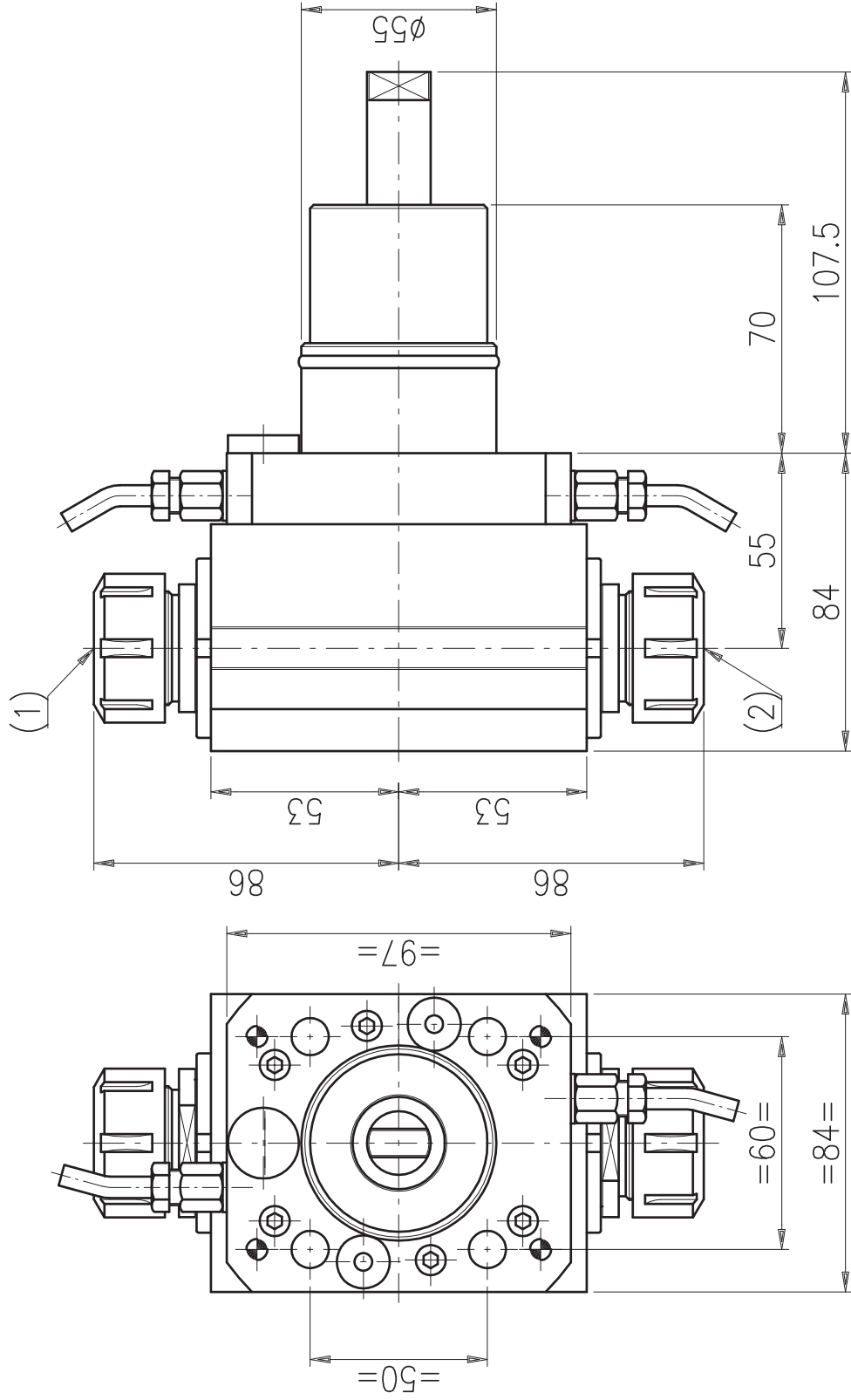
Descrizione/Description/Beschreibung

KZ1513-2U-ER25/16

Codice Alberti/Alberti Code / Albertinummer
ANK.W15.0300

PRESTAZIONI Performance Leistungen
Rt 1:1
RPM max 6.000
Max carico assiale Max axial load Längsbelastung max. 800 N
Momento torcente Torque Drehmoment 20 Nm
Adduzione refrig. interna Internal coolant Ik No
Mandrino Spindle Spindel ER-25 / ER-16

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DOTAZIONE STANDARD / STANDARD EQUIPMENT

Libro istruzioni
Instruction book
Gebrauchsanweisung

Chiavi di servizio
Service key
Bedienschlüssel

1
Senso di rotazione
Direction of rotation
Drehrichtung



2
Senso di rotazione
Direction of rotation
Drehrichtung



9.92.2.55.30

Costruttore/Builder/Hersteller

NAKAMURA

Descrizione/Description/Beschreibung

RADIALE/RADIAL TOOL

Modello/Model

**SUPER NTJ-NTJX / NTM3 / TMC18 / TW10
SC150-250 / WT150-250 / WTW150 / WTS150**

KZ1513-2U-ER25/25

Codice Alberti/Alberti Code/Albertinummer

ANK.W15.0301

**PRESTAZIONI
Performance
Leistungen**

Rt

1:1

RPM max

6.000

Max carico assiale
Max axial load
Langsbelastung max.

800 N

Momento torcente
Torque
Drehmoment

20 Nm

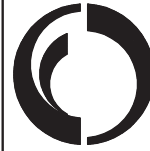
Adduzione refrig. interna
Internal coolant
Ik

No

Mandrino
Spindle
Spindel

ER-25 / ER-25

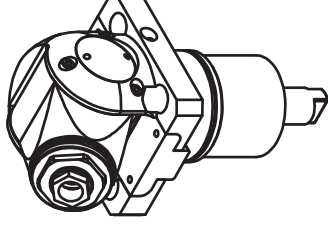
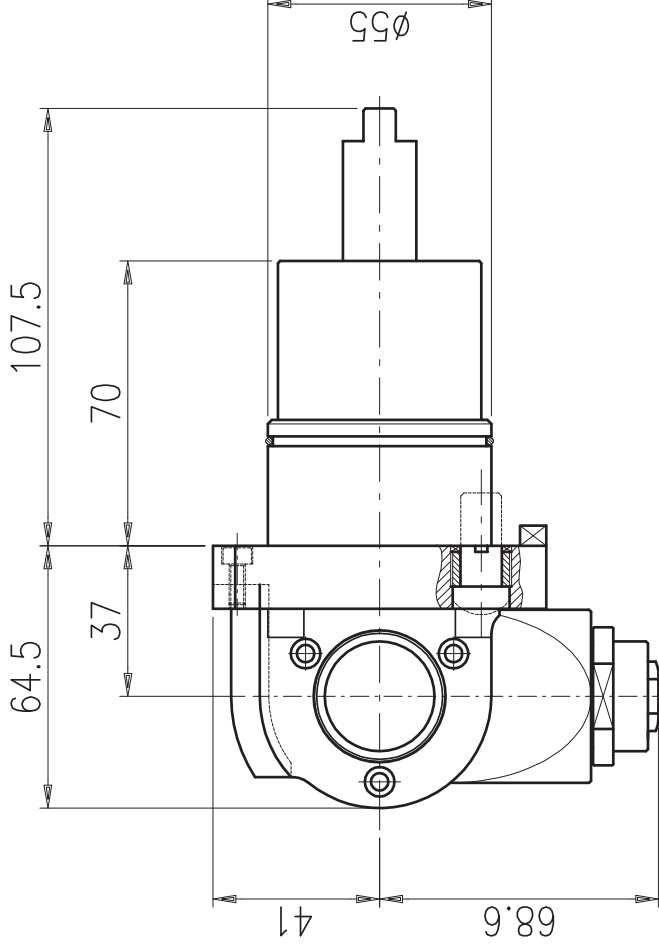
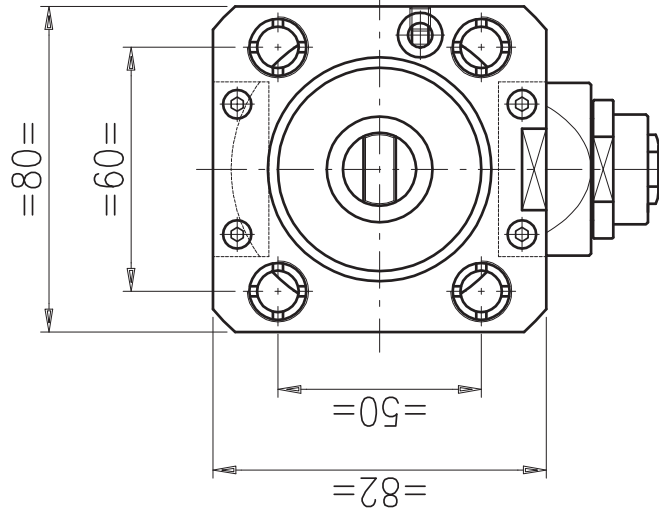
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**PRESTAZIONI
Performance
Leistungen**

Rt 1:1

RPM max 4.000

Max carico assiale
Max axial load
Längsbelastung max. 470 N

Momento torcente
Torque
Drehmoment 7 Nm

Adduzione refrig. interna
Internal coolant
Ik No

Mandrino
Spindle
Spindel ER-16A

Senso di rotazione
Direction of rotation
Drehrichtung
IN OUT

DOTAZIONE STANDARD / STANDARD EQUIPMENT

Libro istruzioni
Instruction book
Gebrauchsanweisung

Chiavi di servizio
Service key
Bedienschlüssel

9.93.1.55.10

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Costruttore/Builder/Hersteller

NAKAMURA

Modello/Model

**SUPER NTJ-NTJX / NTM3 / TMC18 / TW10
SC150-250 / WT150-250 / WTW150 / WTS150**

UNIVERSALE/UNIVERSAL TOOL

UNIVERSALWERKZEUG

MCU-1.5 ER-16A

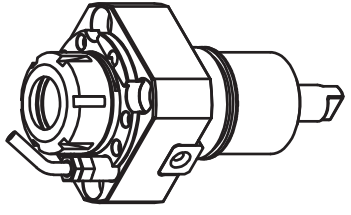
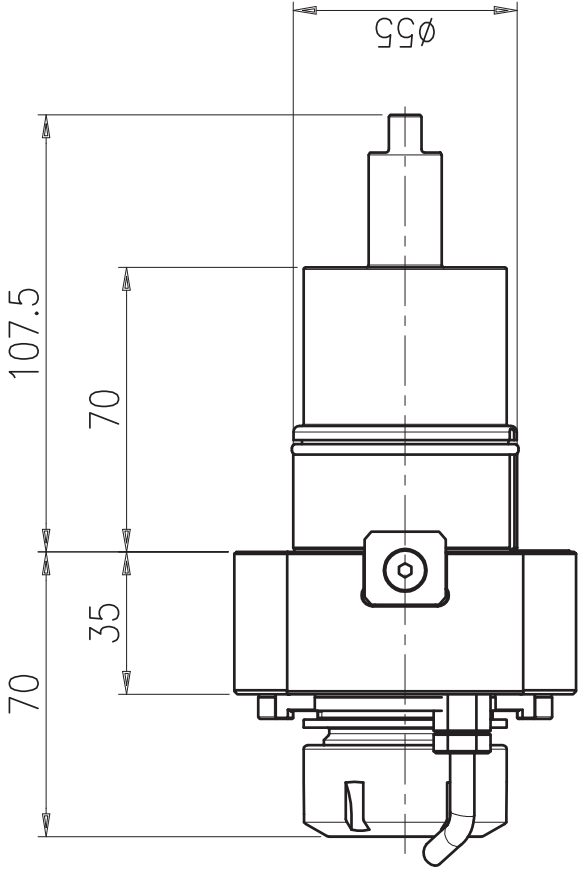
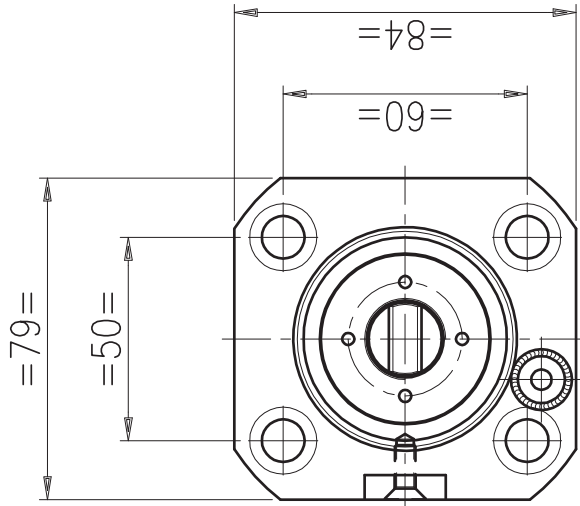
Descrizione/Description/Beschreibung

MCU-1,5

Codice Alberti/Alberti Code / Albertinummer

ANK.W15.0500

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**PRESTAZIONI
Performance
Leistungen**

Rt	1:1
RPM max	6.000
Max carico assiale Max axial load Längsbelastung	700 N
Adduzione refrigerante Internal coolant Ik	No
Mandrino Spindle Spindel	ER-32



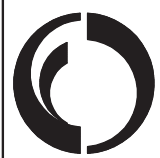
DOTAZIONE STANDARD / STANDARD EQUIPMENT

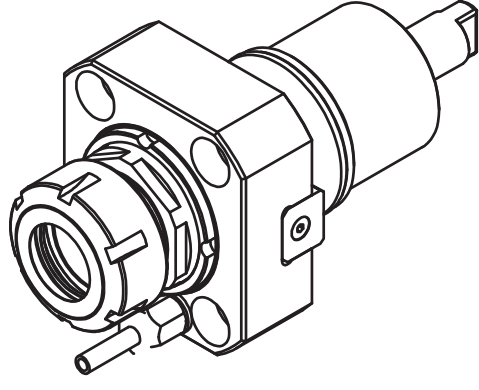
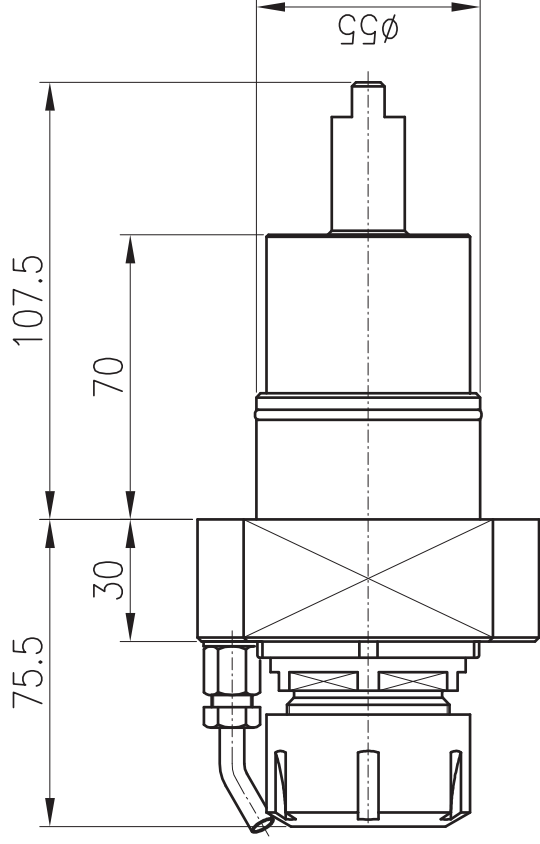
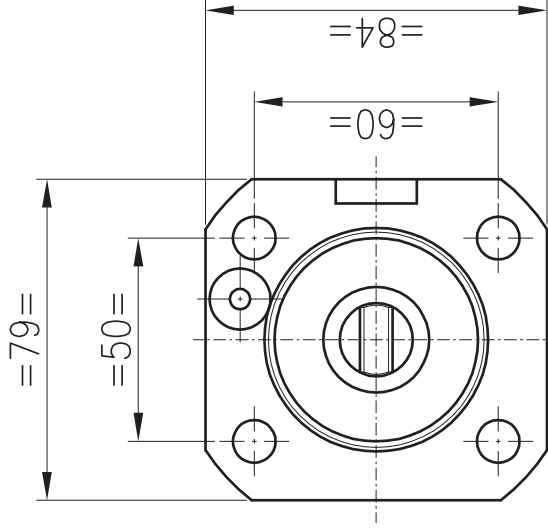
Libro istruzioni Instruction book Gebrauchsanweisung	Chiavi di servizio Service key Bedienschlüssel
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ASSIALE/AXIAL TOOL	KZ1510-ER32
AXIALWERKZEUG	ANK.W15.0100.32

9.91.3.55.11	NAKAMURA
Costruttore/Builder/Hersteller	
Modello/Model	
	SUPER NTJ / SUPER NTJX / NTM3 / TMC18 TW10 / SC150-250 / WT150 / WT250 / WTW150-WTS150

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PRESTAZIONI
Performance
Leistungen


Rt 1:1

RPM max 6.000

Max carico assiale
Max axial load
Längsbelastung 950 N

Adduzione refrig. interna
Internal coolant
Ik Yes

Mandrino
Spindle
Spindel ER-32

Senso di rotazione
Direction of rotation
Drehrichtung


DOTAZIONE STANDARD / STANDARD EQUIPMENT

Libro istruzioni
Instruction book
Gebrauchsanweisung

Chiavi di servizio
Service key
Bedienschlüssel

9.91.3.55.C1

Costruttore / Builder / Hersteller

NAKAMURA

Modello / Model

SUPER NTJ-NTJX / NTM3 / TMC18 / TW10
SC150-250 / WT150-250 / WTW150 / WTS150



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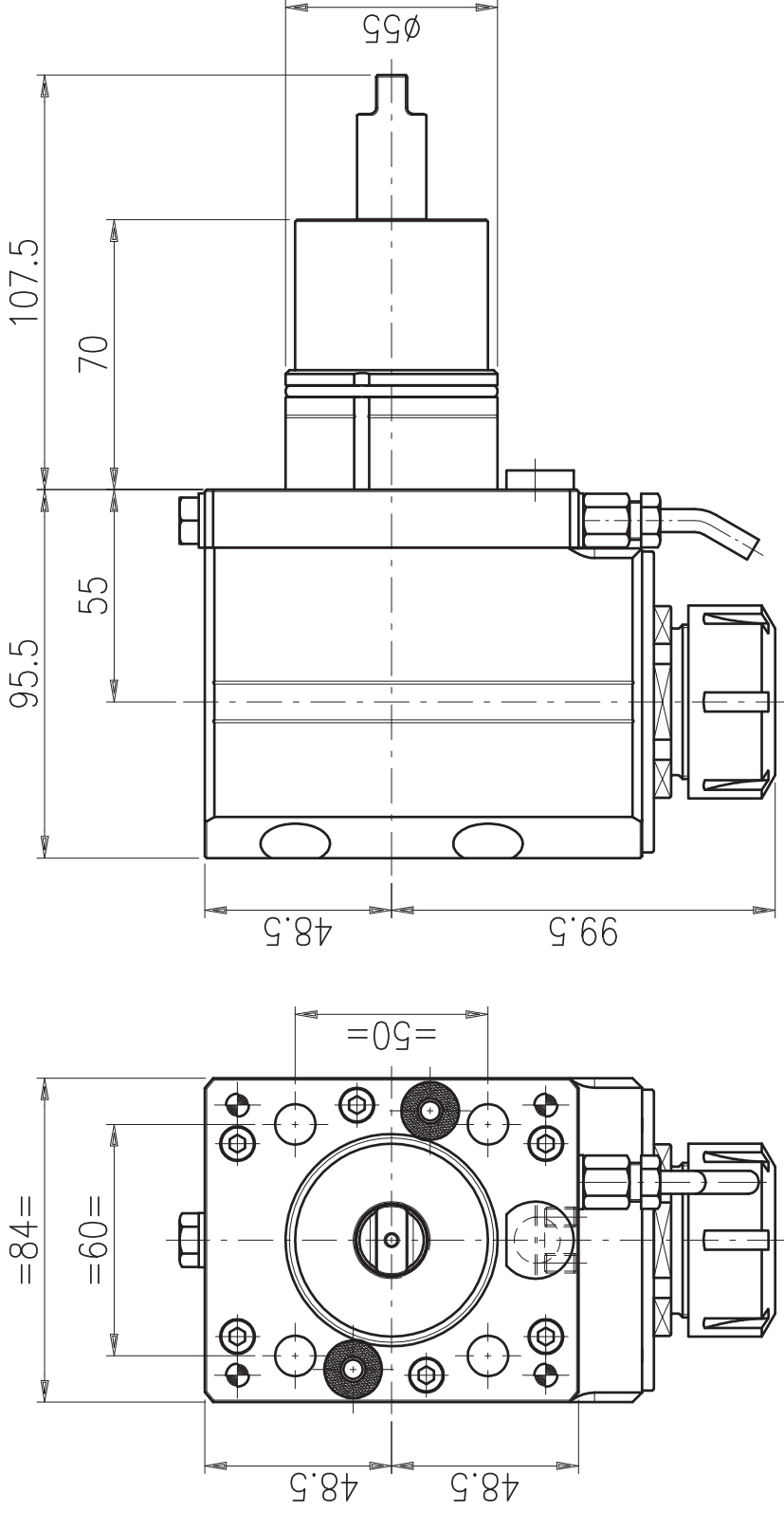
Descrizione / Description / Beschreibung

KZ1510C-ER32

Codice Alberti / Alberti Code / Albertinummer

ANK.W15.010C.32

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DOTAZIONE STANDARD / STANDARD EQUIPMENT

Libro istruzioni
Instruction book
Gebrauchsanweisung

Chiavi di servizio
Service key
Bedienschlüssel

9.92.3.55.08

Costruttore/Builder/Hersteller

NAKAMURA

Descrizione/Description/Beschreibung

RADIALE/ RADIAL TOOL

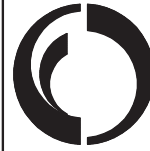
RADIALWERKZEUG

M90-3.5 ER-32

Modello/Model

**SUPER NTJ-NTJX / NTM3 / TMC18 / TW10
SC150-250 / WT150-250 / WTW150 / WTS150**

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**PRESTAZIONI
Performance
Leistungen**

Rt 1:1

RPM max 6.000

Max carico assiale
Max axial load
Längsbelastung max.
1250 N

Momento torcente
Torque
Drehmoment
45 Nm

Adduzione refrig. interna
Internal coolant
Ik No

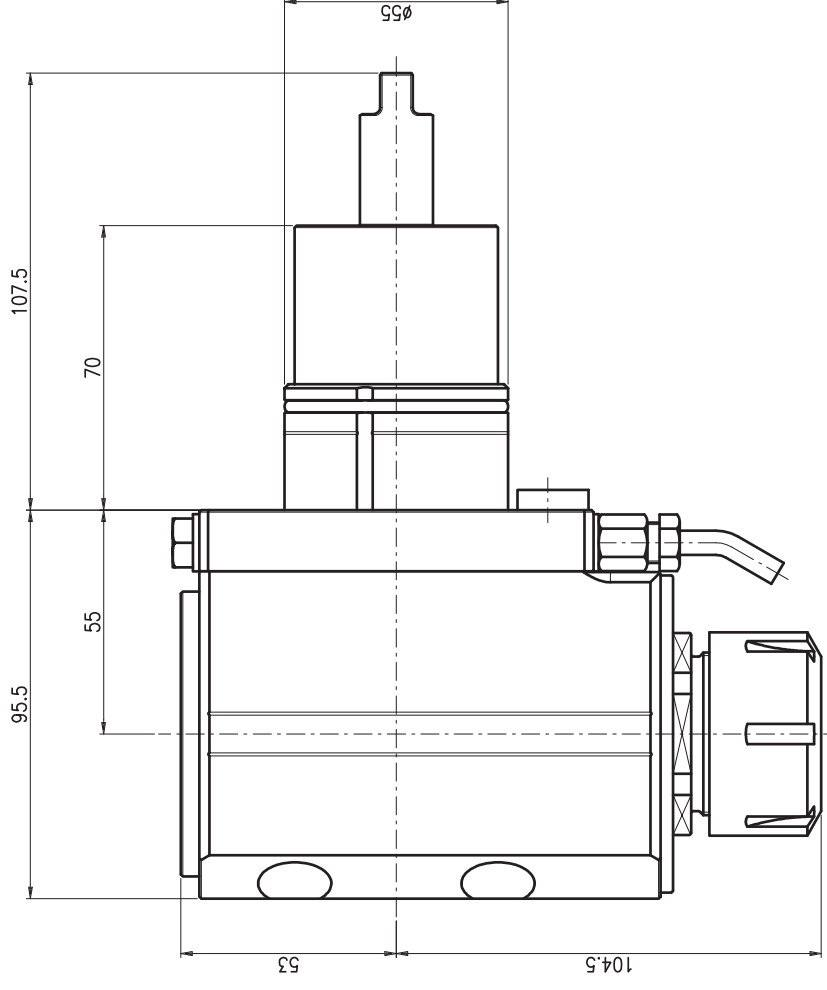
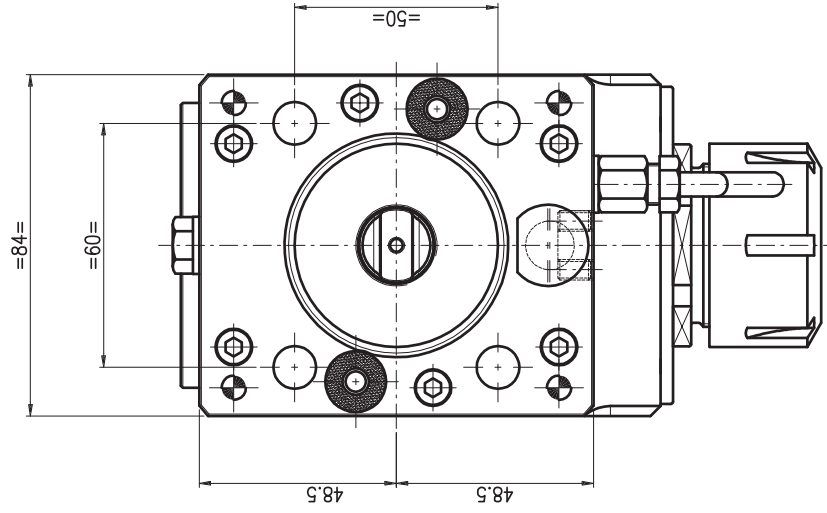
Mandrino
Spindle
Spindel
ER-32

Senso di rotazione
Direction of rotation
Drehrichtung
IN OUT

KZ1513-ER32

Codice Alberti/Alberti Code /Albertinummer

ANK.W15.0200.32



DOTAZIONE STANDARD / STANDARD EQUIPMENT

Libro istruzioni <i>Instruction book</i> Gebrauchsanweisung	Chiavi di servizio <i>Service key</i> Bedienschlüssel
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9.92.3..55.C2

RADIALE/ RADIAL TOOL
RADIALWERKZEUG
M90-3.5 ER-32 R.I.70 BAR

Costruttore/Builder/Hersteller
NAKAMURA
Modello/Model
SUPER NTJ-NTJX / NTM3 / TMC18 / TW10
SC150-250 / WT150-250 / WTW150 / WTS150

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Descrizione/Description/Beschreibung
KZ1513C-ER32
Codice Alberti/Alberti Code / Albertinummer
ANK.W15.020C.32

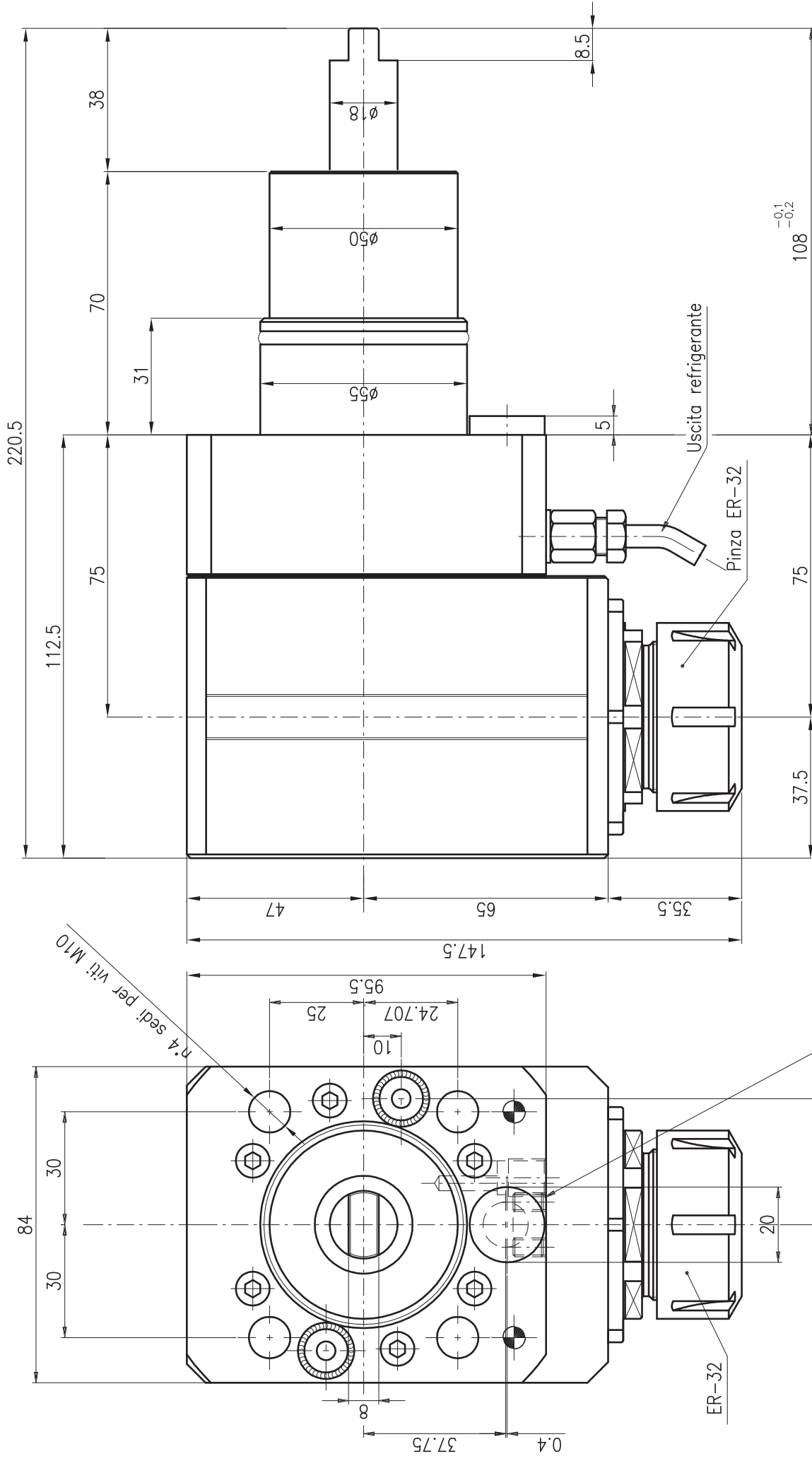
PRESTAZIONI
Performance
Leistungen

Rt	1:1
RPM max	6.000
Max carico assiale <i>Max axial load</i> <i>Langsbelastung max.</i>	1250 N
Momento torcente <i>Torque</i> <i>Drehmoment</i>	45 Nm
Adduzione refrig. interna <i>Internal coolant</i> <i>Ik</i>	Yes
Mandrino <i>Spindle</i> <i>Spindel</i>	ER-32

Senso di rotazione
Direction of rotation
Drehrichtung

IN OUT

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0.47 X=sovrametallo per rettifica in decimi di mm.

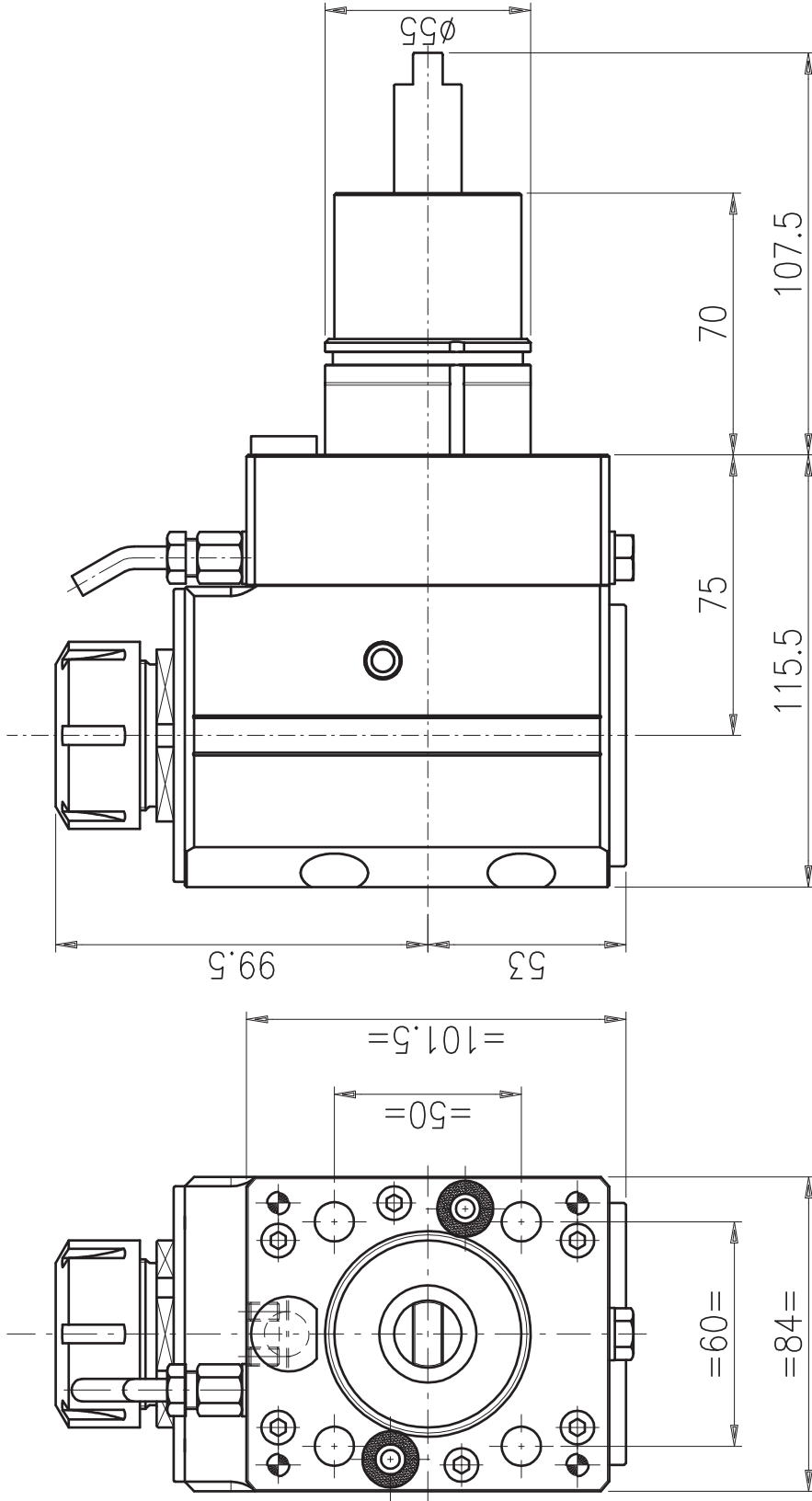
Alberti Umberto Teste angolari e motorizzazioni Via GORIZIA n°37 31047 SARGONNOVA e-mail: info@albertiumberto.it Tel. (02) 96703586 (2 linee r.a.) FAX (02) 96703620		FIRMA	DATA	REF. ORD.
M90-3.5 ER-32 R=75 PER TW-10			VERIF.	16-10-02
MODIFICHE	TRATTAMENTO		NUMERO DISEGNO - CODICE	ANK.W15.0200.32.75
SMUSSARE SPIGOLI	TOLL. GENER.	SCALA	RUGOSITA'	
		1:1		

Sistema regolazione dell'allineamento
Adjustable alignment key

9.92.3.55.06

KZ1513-ER32-H=75

A TERMINI DI LEGGE E' VIETATA LA RIPRODUZIONE DI QUESTO DISEGNO SENZA LA NOSTRA AUTORIZZAZIONE



DOTAZIONE STANDARD / STANDARD EQUIPMENT

Libro istruzioni
Instruction book
Gebrauchsanweisung

Chiavi di servizio
Service key
Bedienschlüssel

9.92.3.55.C6

Costruttore/Builder/Hersteller

NAKAMURA

Modello/Model

SUPER NT.J / SUPER NT.JX / NTM3 / TMC18
TW10 / SC150-250 / WT150 / WT250 / WTW150-WTS150

RADIALE/ RADIAL TOOL

RADIALWERKZEUG

M90-3.5 ER32 H=75

Descrizione/Description/Beschreibung

KZ1513C-ER32-H=75

Codice Alberti/Alberti Code / Albertinumnummer

ANK.W15.020C.32.75

**PRESTAZIONI
Performance
Leistungen**

Rt 1:1

RPM max 6.000

Max carico assiale
Max axial load
Längsbelastung max.
1250 N

Momento torcente
Torque
Drehmoment
45 Nm

Adduzione refrig. interna
Internal coolant
Ik Yes

Attacco rapido
Quick-change
Schnittstelle
ER-32

Senso di rotazione
Direction of rotation
Drehrichtung
IN OUT

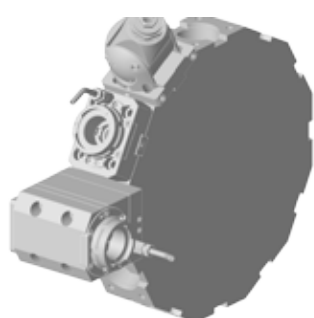
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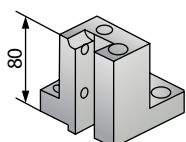
WT300

Nakamura-Tome

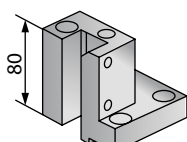


STATIC TOOLS

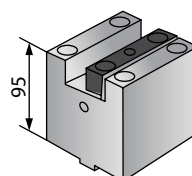
1) O.D. Cutting holder RH



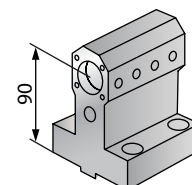
2) O.D. Cutting holder LH



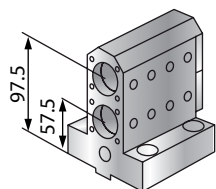
3) Double I.D. holder



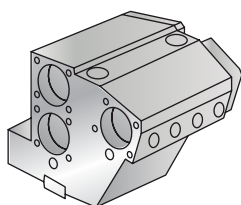
4) Boring bar holder



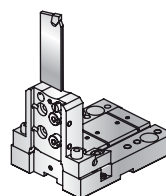
5) Double boring bar holder



6) Triple boring bar holder



7) Cut-off holder



8) Boring bar sleeve



Technical Data / Dati Tecnici

Code
Codice

Technical Data / Dati Tecnici

Code
Codice

1) O.D. CUTTING HOLDER RH 25X25mm

1) Portautensile per esterni destro 25x25mm

ANK.W30.OD25.R

5) DOUBLE BORING BAR HOLDER 25mm

5) Portabareno doppio 25mm

ANK.W30.BB25.2

2) O.D. CUTTING HOLDER LH 25X25mm

2) Portautensile per esterni sinistro 25x25mm

ANK.W30.OD25.L

6) TRIPLE BORING BAR HOLDER \varnothing 25mm

6) Portabareno triplo \varnothing 25mm

ANK.W30.BB25.3

3) DOUBLE I.D. HOLDER 25x25mm

3) Portautensile per interni doppio 25x25mm

ANK.W30.ID25.2

7) CUT-OFF HOLDER 32mm

7) Portalama 32mm

ANK.W30.C032

4) BORING BAR HOLDER 32mm

4) Portabareno 32mm

ANK.W30.BB32

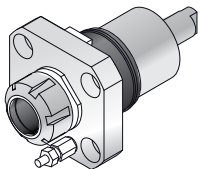
8) BORING BAR SLEEVE

8) Bussole di riduzione

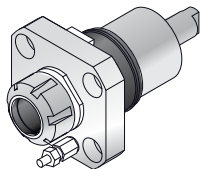
ANK.W30.RDX

LIVE TOOLS

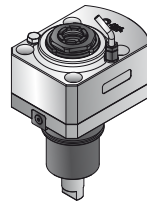
1A) Axial MA-3,5



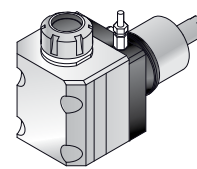
1B) Axial MA-3,5C 70 Bar



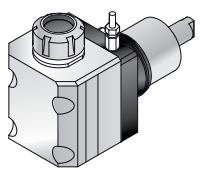
2) Axial MA-2,5 S Speeder



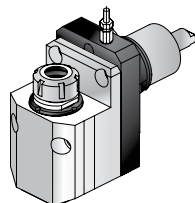
3A) Radial M90-3,5



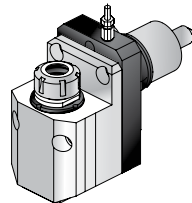
3B) Radial M90-3,5C 70 Bar



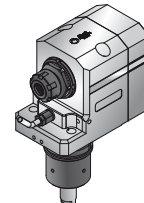
4A) Radial M90-3,5 D



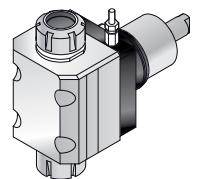
4B) Radial M90-3,5 DC



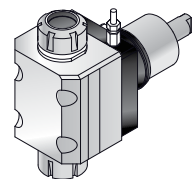
5) Radial M90-3,5DS Speeder



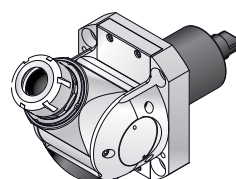
6A) Radial M90-3,5 2U 32/20



6B) Radial M90-3,5 2U 32/32



7) Adjustable MCU-1,5



Technical Data / Dati Tecnici

Code Codice

1A) AXIAL MA-3,5
1A) Assiale MA-3,5

ANK.W30.0100

1B) AXIAL MA-3,5 C 70 Bar
1B) Assiale MA-3,5 C 70 Bar

ANK.W30.010C

2) AXIAL MA-2,5 S SPEEDER
2) Assiale MA-2,5 S Speeder

ANK.W30.010S

3A) RADIAL M90- 3,5
3A) Radiale M90- 3,5

ANK.W30.0200

3B) RADIAL M90- 3,5 C 70 Bar
3B) Radiale M90- 3,5 C 70 Bar

ANK.W30.020C

4A) RADIAL M90- 3,5 D
4A) Radiale M90- 3,5 D

ANK.W30.0700

Technical Data / Dati Tecnici

Code Codice

4B) RADIAL M90- 3,5 DC
4B) Radiale M90- 3,5 DC

ANK.W30.070C

5) RADIAL M90-3,5 DS SPEEDER
5) Radiale M90-3,5 DS Speeder

ANK.W30.070S

6A) RADIAL M90-3,5 2U OPPOSITE ER 32/ER20
6A) Radiale M90-3,5 2U ER32/ER20 Contrapposto

ANK.W30.0300

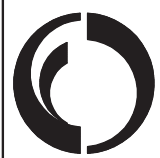
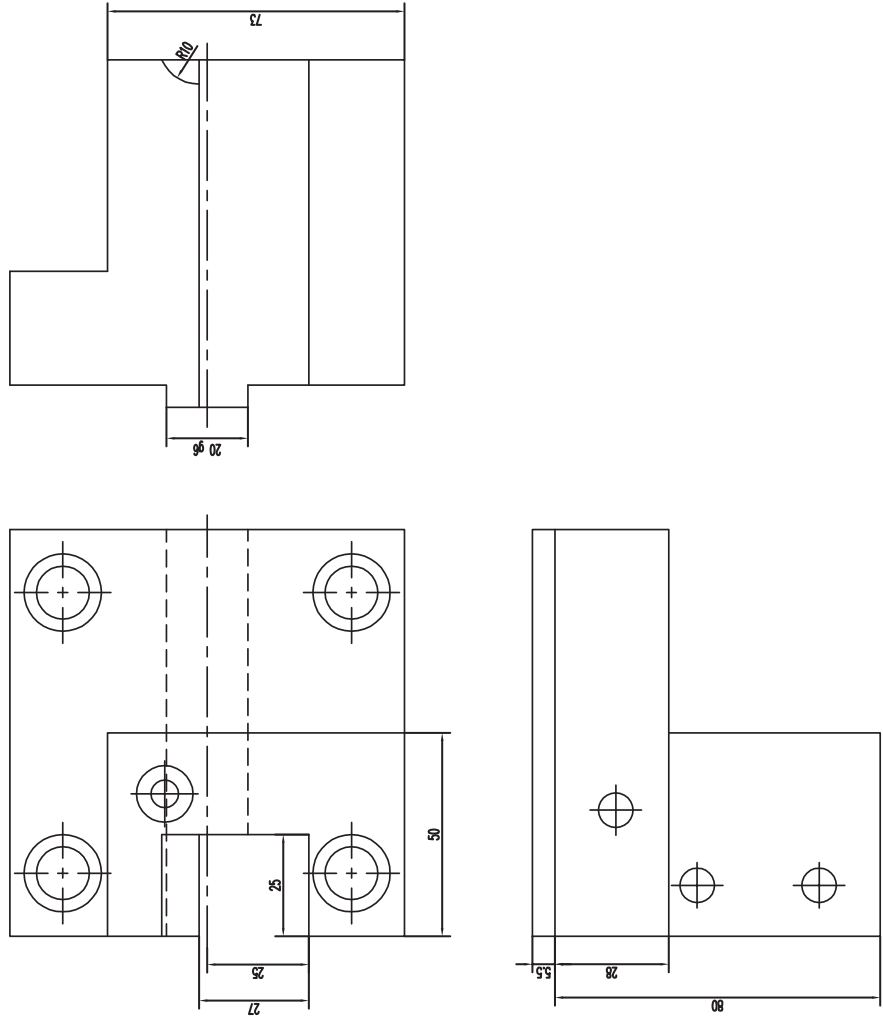
6B) RADIAL M90-3,5 2U OPPOSITE ER 32/ER32
6B) Radiale M90-3,5 2U ER32/ER32 Contrapposto

ANK.W30.0301

7) ADJUSTABLE MCU-1,5
7) Orientabile MCU-1,5

ANK.W30. 0500

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<http://www.albertiumberto.it>
 Tel. (02) 96703586 (2 linee r.a.) FAX (02) 96703620

Costruttore/Builder/Hersteller

NAKAMURA

Modello/Model

TW20 - WT300 - SC300

Descrizione/Description/Beschreibung

R 7411

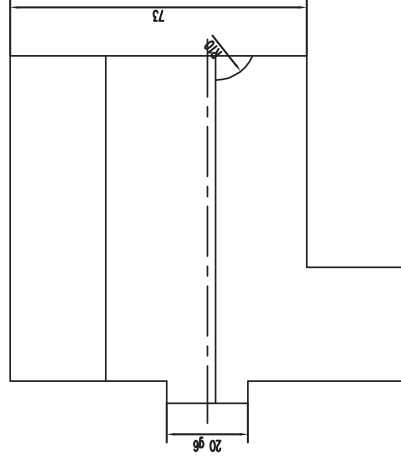
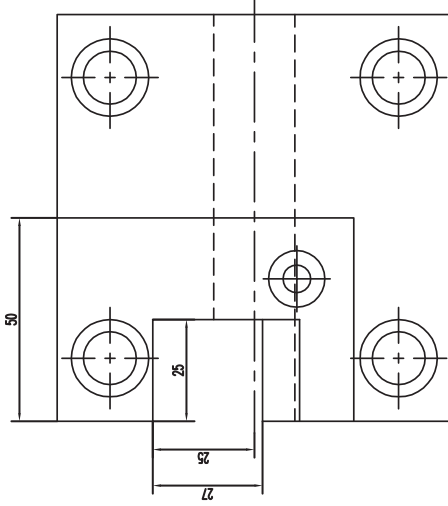
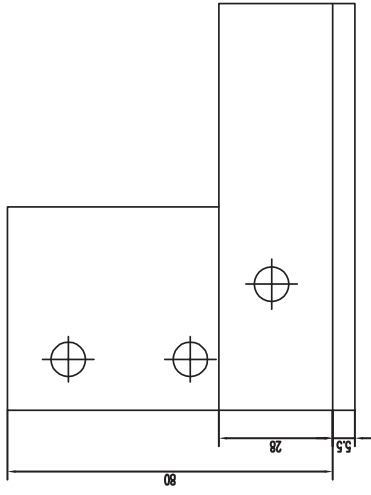
Codice Alberti/Alberti Code /Albertinummer

ANK.W30.OD25.R

OD CUTTING HOLDER

RIGHT HAND 25X25

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Costruttore/Builder/Hersteller

NAKAMURA

Modello/Model

TW 20 - WT300 - SC300

Descrizione/Description/Beschreibung

R 7412

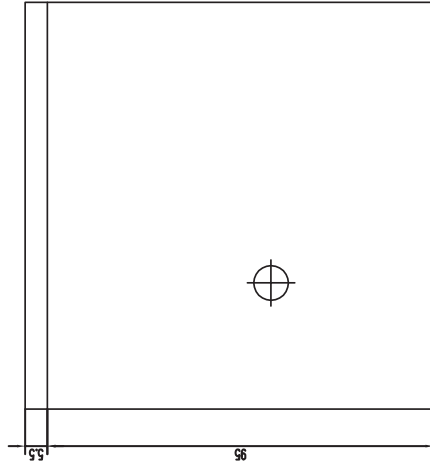
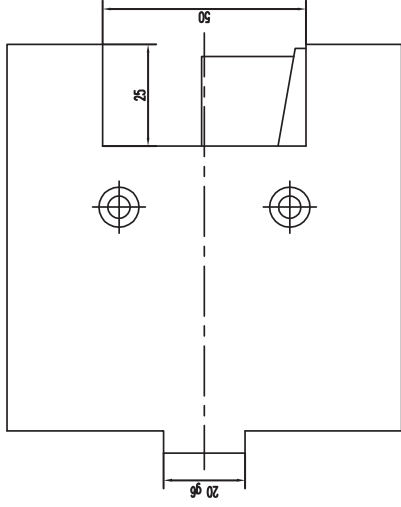
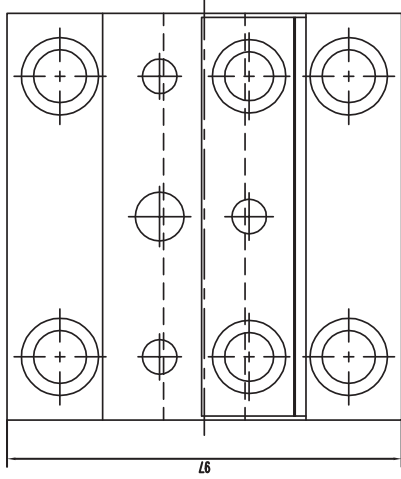
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ANK.W30.OD25.L

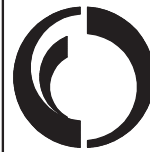
OD CUTTING HOLDER

LEFT HAND 25X25

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Costruttore/Builder/Hersteller

NAKAMURA

Modello/Model

TW20 - WT300 - SC300

Descrizione/Description/Beschreibung

W 2415

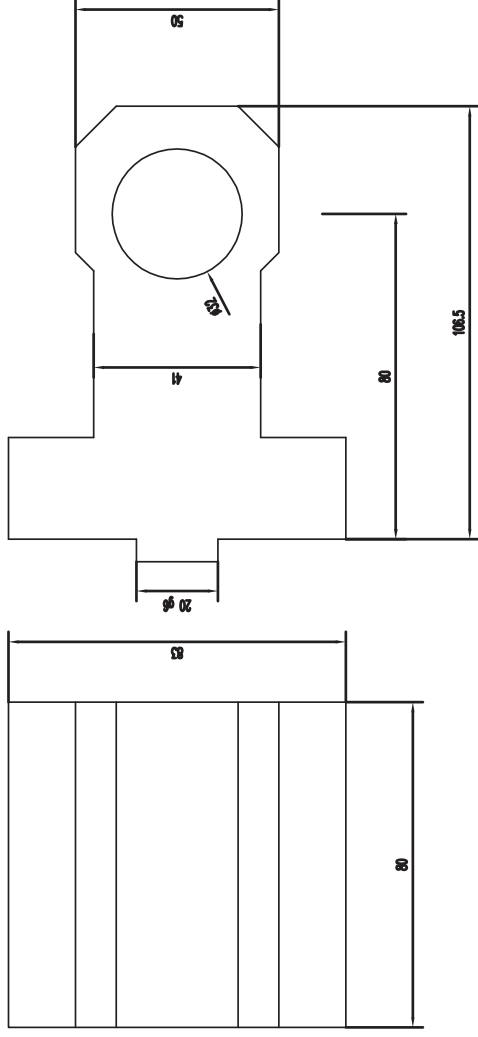
Codice Alberti/Alberti Code /Albertinummer

ANK.W30.ID25.2

ID CUTTING HOLDER

25X25mm

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Costruttore/ Builder / Hersteller

NAKAMURA

Modello/Model

TW 20 - WT300 - SC300

Descrizione/ Description/ Beschreibung

W 2417

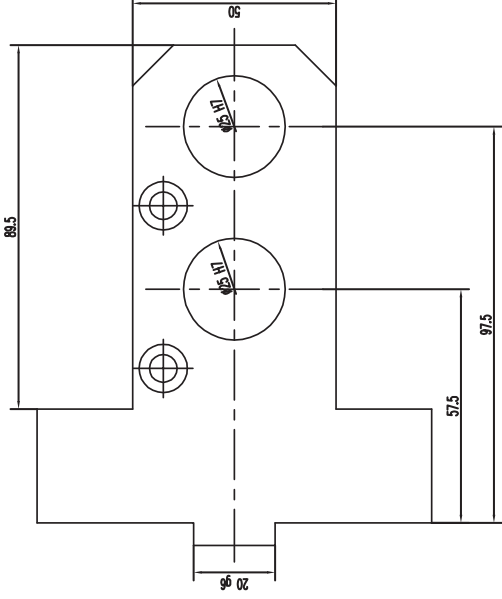
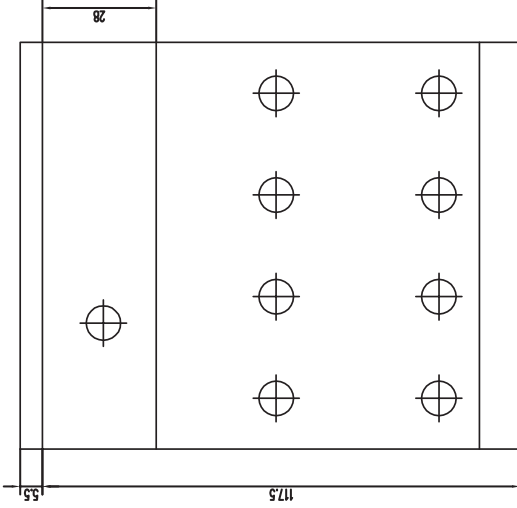
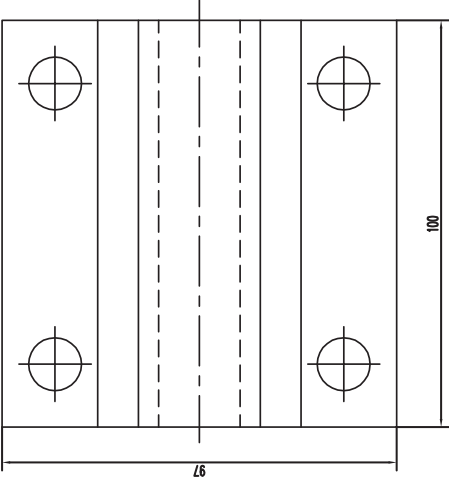
Codice Alberti/ Alberti Code / Albertinummer

ANK.W30.BB32

BORING BAR HOLDER

32mm H=80

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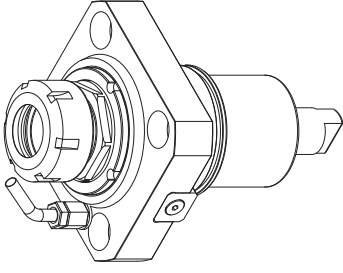
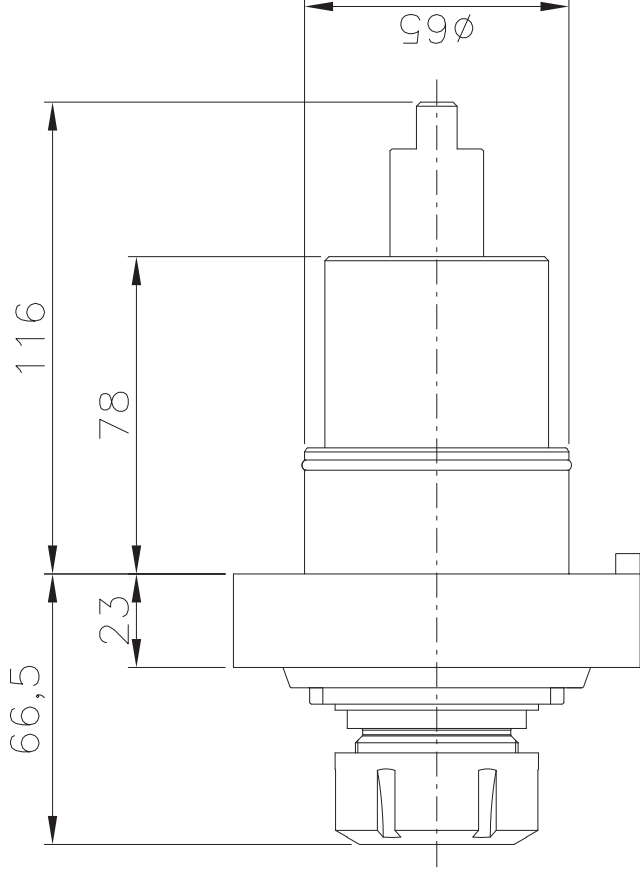
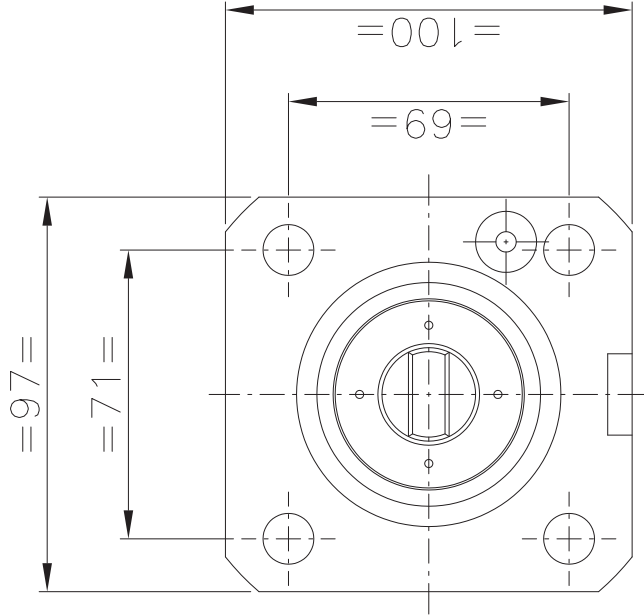


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Costruttore/Builder/Hersteller
NAKAMURA
 Modella/Model
TW 20 - WT300 - SC 300

DOUBLE BORING BAR
25mm H=97.5

Descrizione/Description/Beschreibung
W 2438
 Codice Alberti/Alberti Code /Albertinummer
ANK.W30.BB25.2



**PRESTAZIONI
Performance
Leistungen**

Rt 1:1

RPM max 6.000

Max carico assiale
Max axial load
Längsbelastung 1200 N

Adduzione refrig. interna
Internal coolant
Ik No

Mandrino
Spindle
Spindel ER-32

Senso di rotazione
Direction of rotation
Drehrichtung


DOTAZIONE STANDARD / STANDARD EQUIPMENT

Libro istruzioni
Instruction book
Gebrauchsanweisung

Chiavi di servizio
Service key
Bedienschlüssel

9.91.3.65.12

Costruttore/Builder/Hersteller

NAKAMURA

ASSIALE/AXIAL TOOL

Modello/Model

AXIALWERKZEUG

TW20 / SC300 / WT300

MA-3.5 ER-32

Descrizione/Description/Beschreibung

KR2310

Codice Alberti/Alberti Code / Albertinummer

ANK.W30.0100



Alberti Umberto

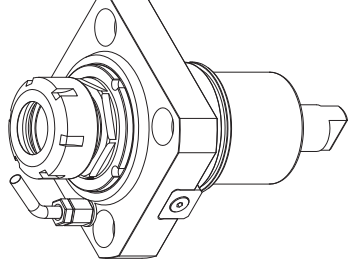
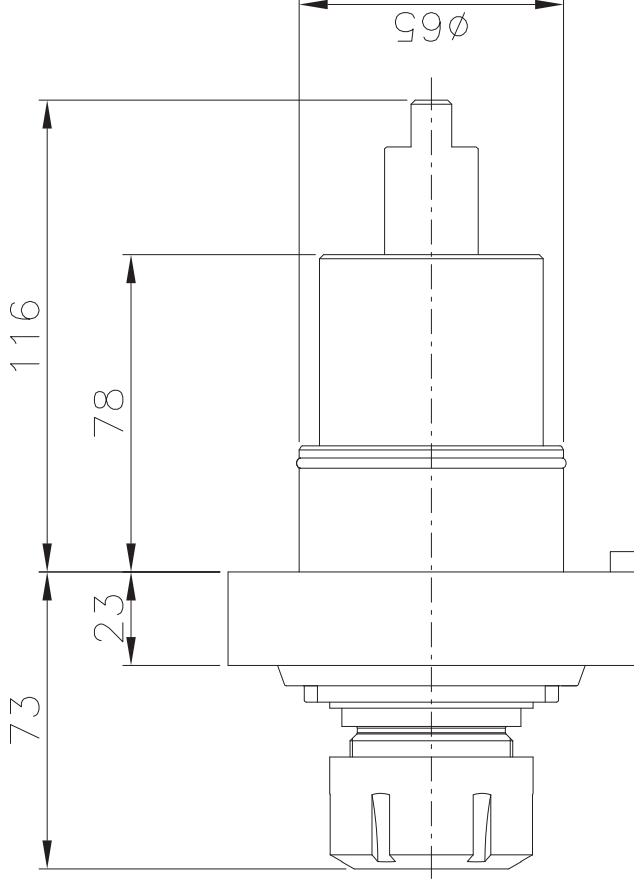
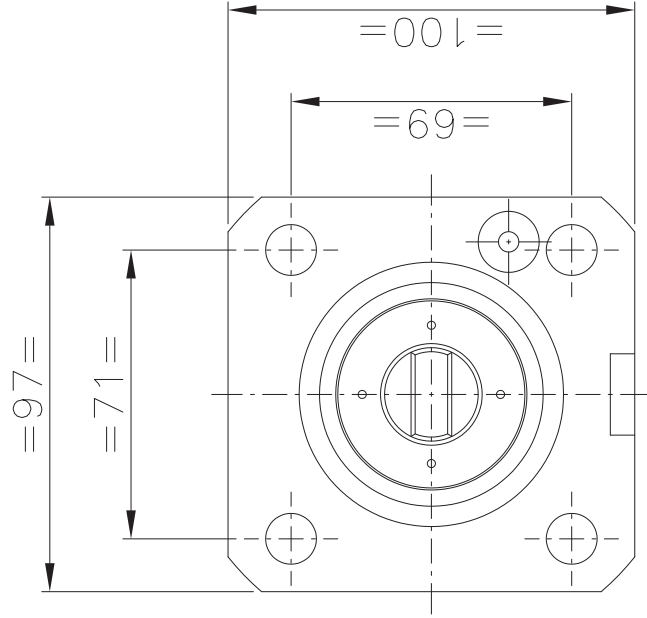
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**PRESTAZIONI
Performance
Leistungen**

Rt 1:1

RPM max 6.000

Max carico assiale
Max axial load
Längsbelastung 1200 N

Adduzione refrig. interna
Internal coolant
Ik Yes

Mandrino
Spindle
Spindel ER-32

Senso di rotazione
Direction of rotation
Drehrichtung

DOTAZIONE STANDARD / STANDARD EQUIPMENT

Libro istruzioni
Instruction book
Gebrauchsanweisung

Chiavi di servizio
Service key
Bedienschlüssel

9.91.3.65.C0

Costruttore/Builder/Hersteller

NAKAMURA

ASSIALE/AXIAL TOOL

Modello/Model

TW20 / SC300 / WT300

AXIALWERKZEUG

MA-3.5 ER-32 R.1.70 BAR

Descrizione/Description/Beschreibung

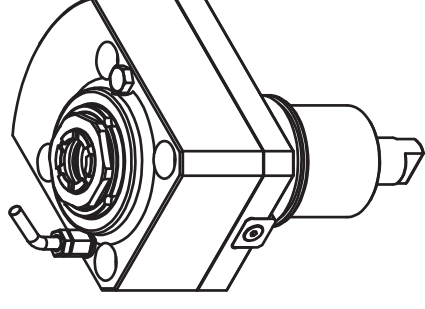
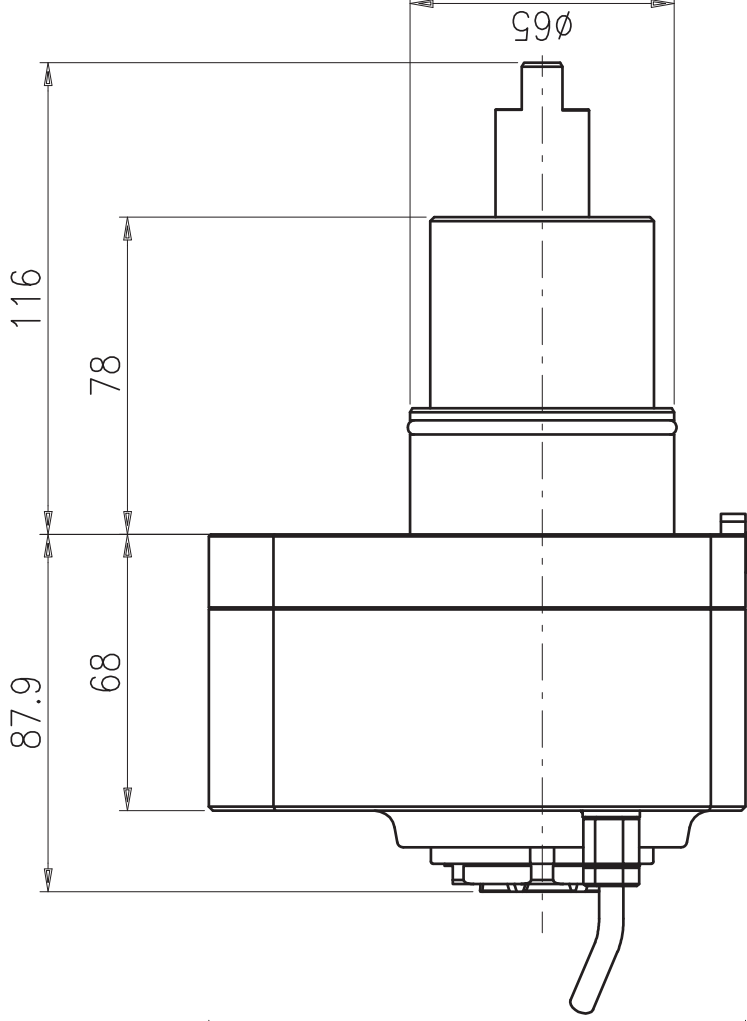
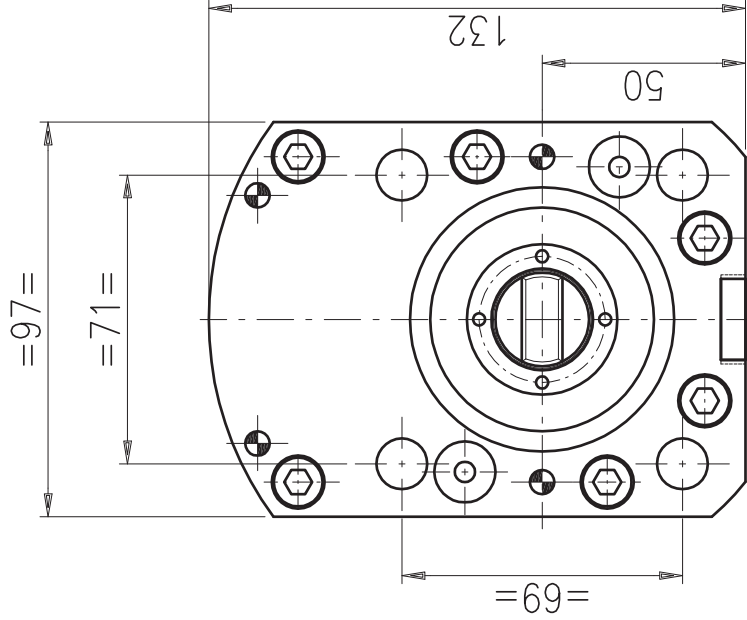
KR2310C

Codice Alberti/Alberti Code /Albertinummer

ANK.W30.010C



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PRESTAZIONI
Performance
Leistungen

Rt	2:1
RPM max	12.000
Max carico assiale Max axial load Längsbelastung	700 N
Adduzione refrig. interna Internal coolant Ik	No
Mandrino Spindle Spindel	ER-25A

Senso di rotazione
Direction of rotation
Drehrichtung

(IN) (OUT)

DOTAZIONE STANDARD / STANDARD EQUIPMENT

Libro istruzioni Instruction book Gebrauchsanweisung	Chiavi di servizio Service key Bedienschlüssel
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9.91.2.65.S0

Costruttore / Builder / Hersteller

NAKAMURA

Modello / Model

TW20 / SC300 / WT300

ASSIALE/AXIAL TOOL

AXIALWERKZEUG

MA-2.5 ER-25A

Descrizione / Description / Beschreibung

KR2310S

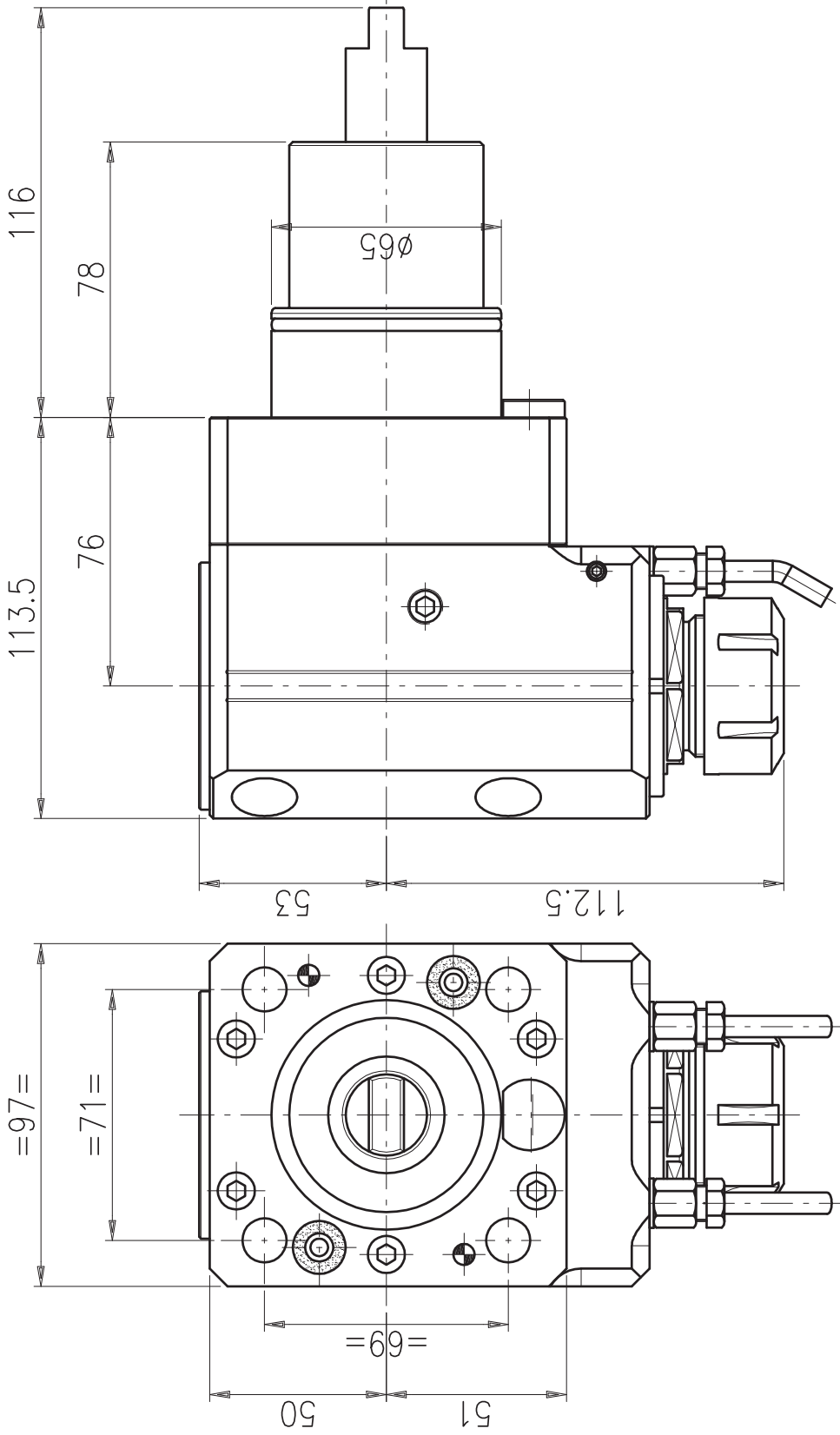
Codice Alberti / Alberti Code / Albertinummer

ANK.W30.010S

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DOTAZIONE STANDARD / STANDARD EQUIPMENT

Libro istruzioni
Instruction book
Gebrauchsanweisung

Chiavi di servizio
Service key
Bedienschlüssel

9.92.3.65.17

Costruttore/Builder/Hersteller

NAKAMURA

RADIALE/RADIAL TOOL

RADIALWERKZEUG

M90-3.5 ER-32

Modello/Model

TW20 / SC300 / WT300

Descrizione/Description/Beschreibung

KR2313

Codice Alberti/Alberti Code /Albertinummer

ANK.W30.0200

**PRESTAZIONI
Performance
Leistungen**

Rt 1:1

RPM max 6.000

Max carico assiale
Max axial load
Längsbelastung max.
1250 N

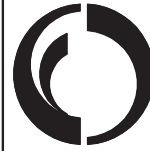
Momento torcente
Torque
Drehmoment
35 Nm

Adduzione refrigerante
Internal coolant
Ik No

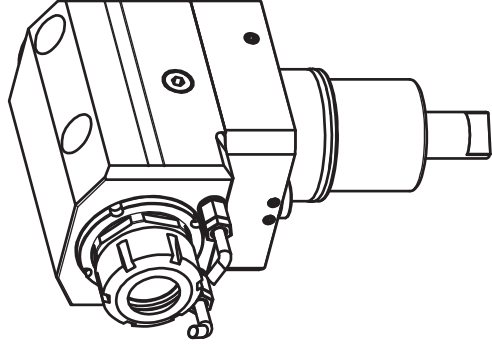
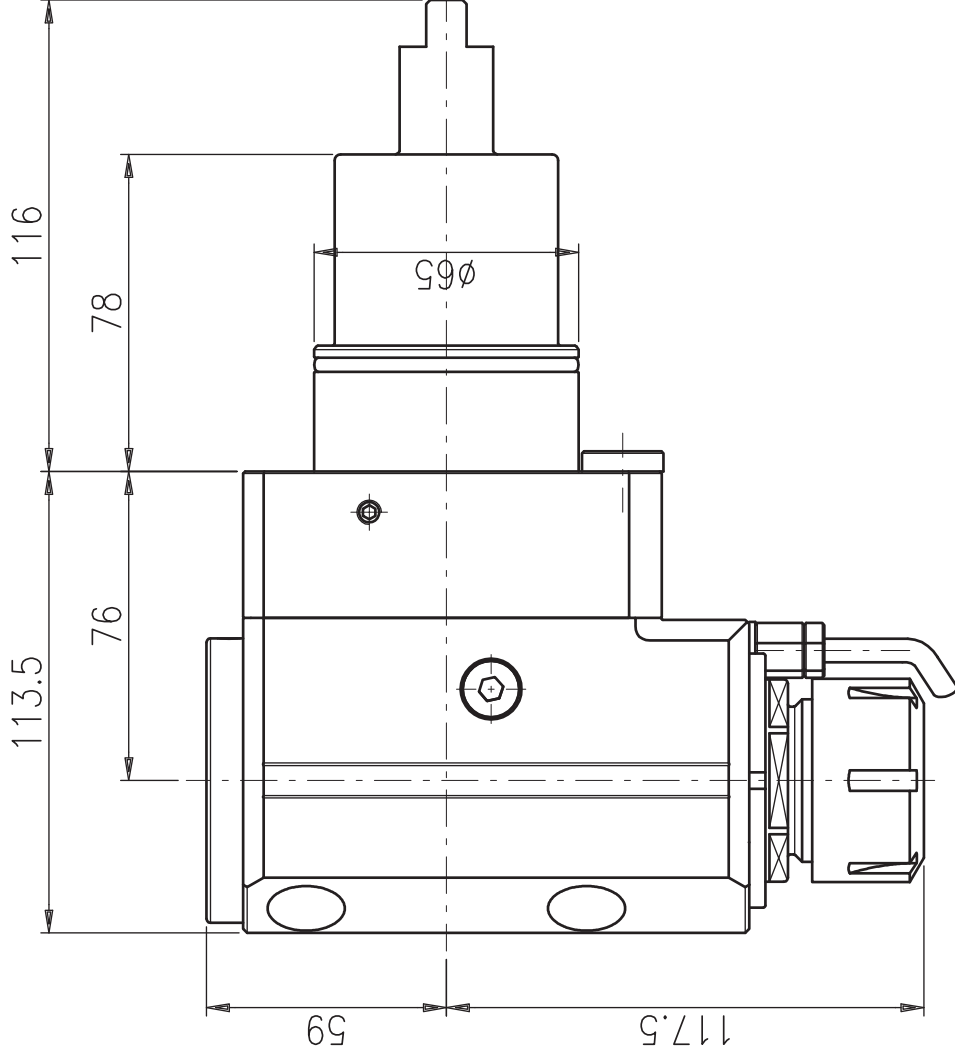
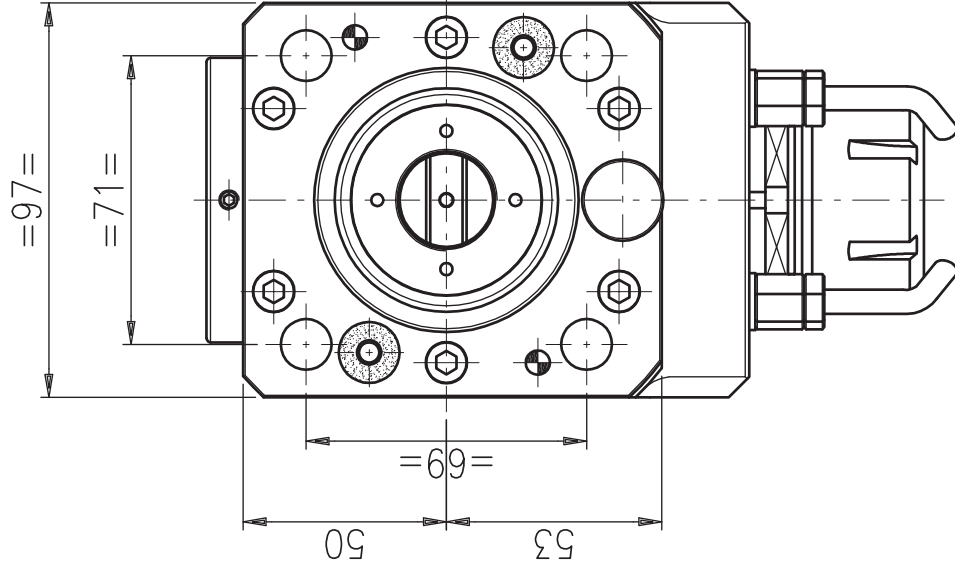
Mandrino
Spindle
Spindel
ER-32

Senso di rotazione
Direction of rotation
Drehrichtung
IN OUT

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**PRESTAZIONI
Performance
Leistungen**

Rt	1:1
RPM max	6.000
Max carico assiale Max axial load Längsbelastung max.	1250 N
Momento torcente Torque Drehmoment	35 Nm
Adduzione refrig. interna Internal coolant Ik	Yes
Mandrino Spindle Spindel	ER-32



Senso di rotazione
Direction of rotation
Drehrichtung

DOTAZIONE STANDARD / STANDARD EQUIPMENT

Libro istruzioni
Instruction book
Gebrauchsanweisung

Chiavi di servizio
Service key
Bedienschlüssel

Costruttore/Builder/Hersteller

NAKAMURA

Modello/Model

TW20 / SC300 / WT300

RADIALE/RADIAL TOOL

RADIALWERKZEUG

M90-3.5 ER-32 R.I.70 BAR

Descrizione/Description/Beschreibung

KR2313C

Codice Alberti/Alberti Code/Albertinummer

ANK.W30.020C

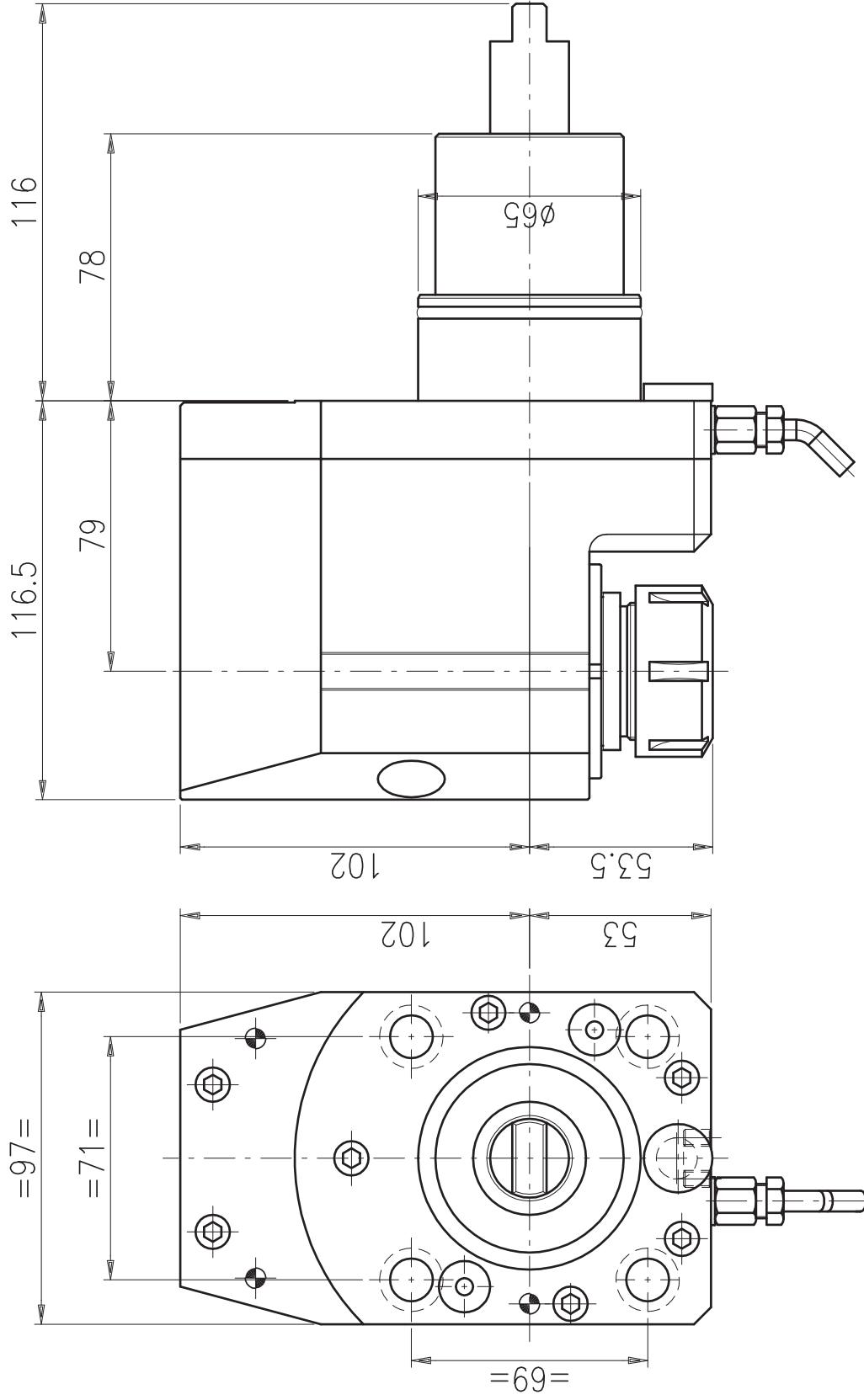
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e-mail: info@albertiumberto.it
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Tel. (02) 96703586 (2 linee r.a.) FAX (02) 96703620



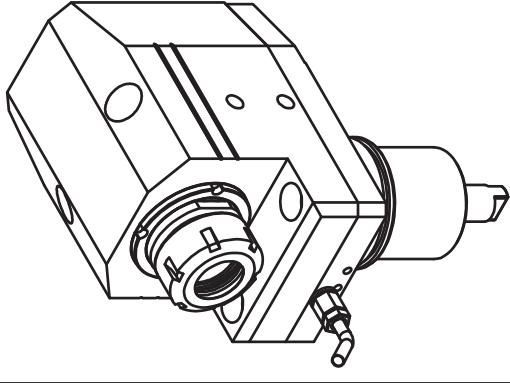


DOTAZIONE STANDARD / STANDARD EQUIPMENT

Libro istruzioni Instruction book Gebrauchsanweisung	Chiavi di servizio Service key Bedienschlüssel
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9.97.3.65.00

<p>Costruttore/Builder/Hersteller NAKAMURA</p>		<p>Descrizione/Description/Beschreibung KR2313D</p>	
<p>Modello/Model TW20 / SC300 / WT300</p>		<p>Codice Alberti/Alberti Code /Albertinummer ANK.W30.0700</p>	
<p>Alberty Umberto Teste angolari e motorizzazioni Via GORIZIA, 37 - 21047 SARONNO(VA) e-mail: info@albertiumberto.it http://www.albertiumberto.it Tel. (02) 96703586 (2 linee r.a.) FAX (02) 96703620</p>		<p>RADIALE ARRETRATO/OFFSET RADIAL TOOL Radialzurückgesetztwerkzeug M90-3.5 D ER-32</p>	

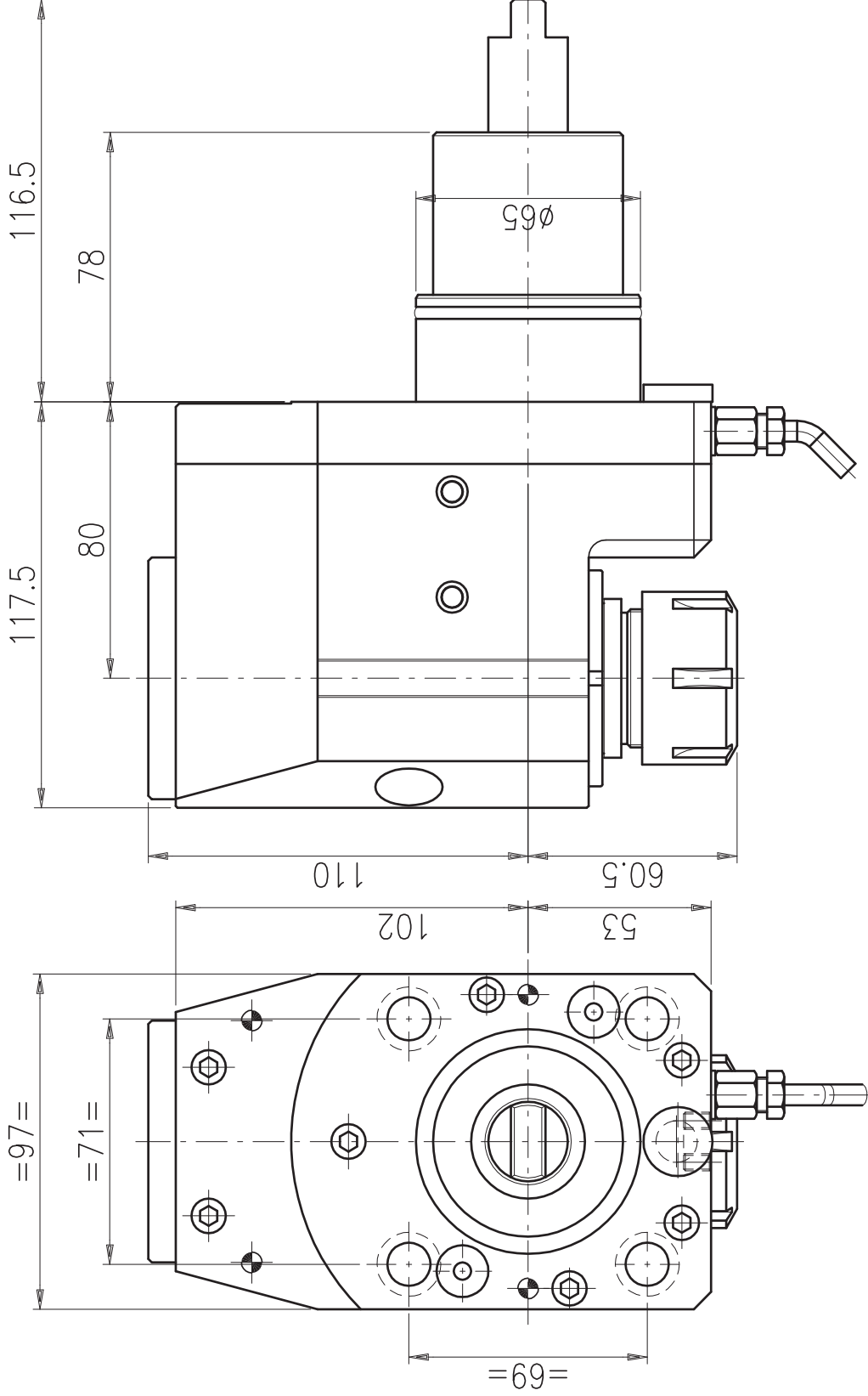


PRESTAZIONI
Performance
Leistungen

Rt	1:1
RPM max	6.000
Max carico assiale Max axial load Längsbelastung max.	1250 N
Momento torcente Torque Drehmoment	35 Nm
Adduzione refrigerante Internal coolant Ik	No
Mandrino Spindle Spindel	ER-32



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DOTAZIONE STANDARD / STANDARD EQUIPMENT

Libro istruzioni Instruction book Gebrauchsanweisung	Chiavi di servizio Service key Bedienschlüssel
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9.97.3.65.C0

Costruttore/Builder/Hersteller

NAKAMURA

Modello/Model

TW20 / SC300 / WT300

RADIALE ARRETRATO/OFFSET RADIAL TOOL

Radialzurückgesetztwerkzeug

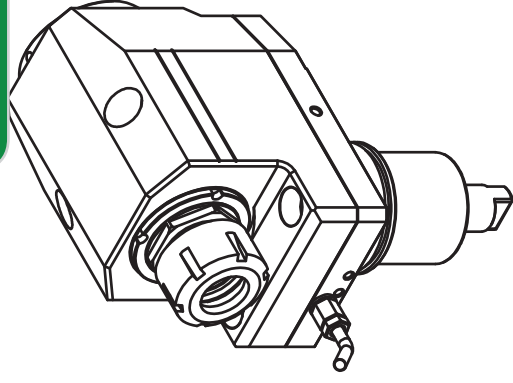
M90-3.5 DC ER-32 R.I.70 BAR

Descrizione/Description/Beschreibung

KR2313DC

Codice Alberti/Alberti Code / Albertinummer

ANK.W30.070C



**PRESTAZIONI
Performance
Leistungen**

Rt	1:1
RPM max	6.000
Max carico assiale Max axial load Langsbelastung max.	1250 N
Momento torcente Torque Drehmoment	35 Nm
Adduzione refrig. interna Internal coolant Ik	Yes
Mandrino Spindle Spindel	ER-32

Senso di rotazione
Direction of rotation
Drehrichtung

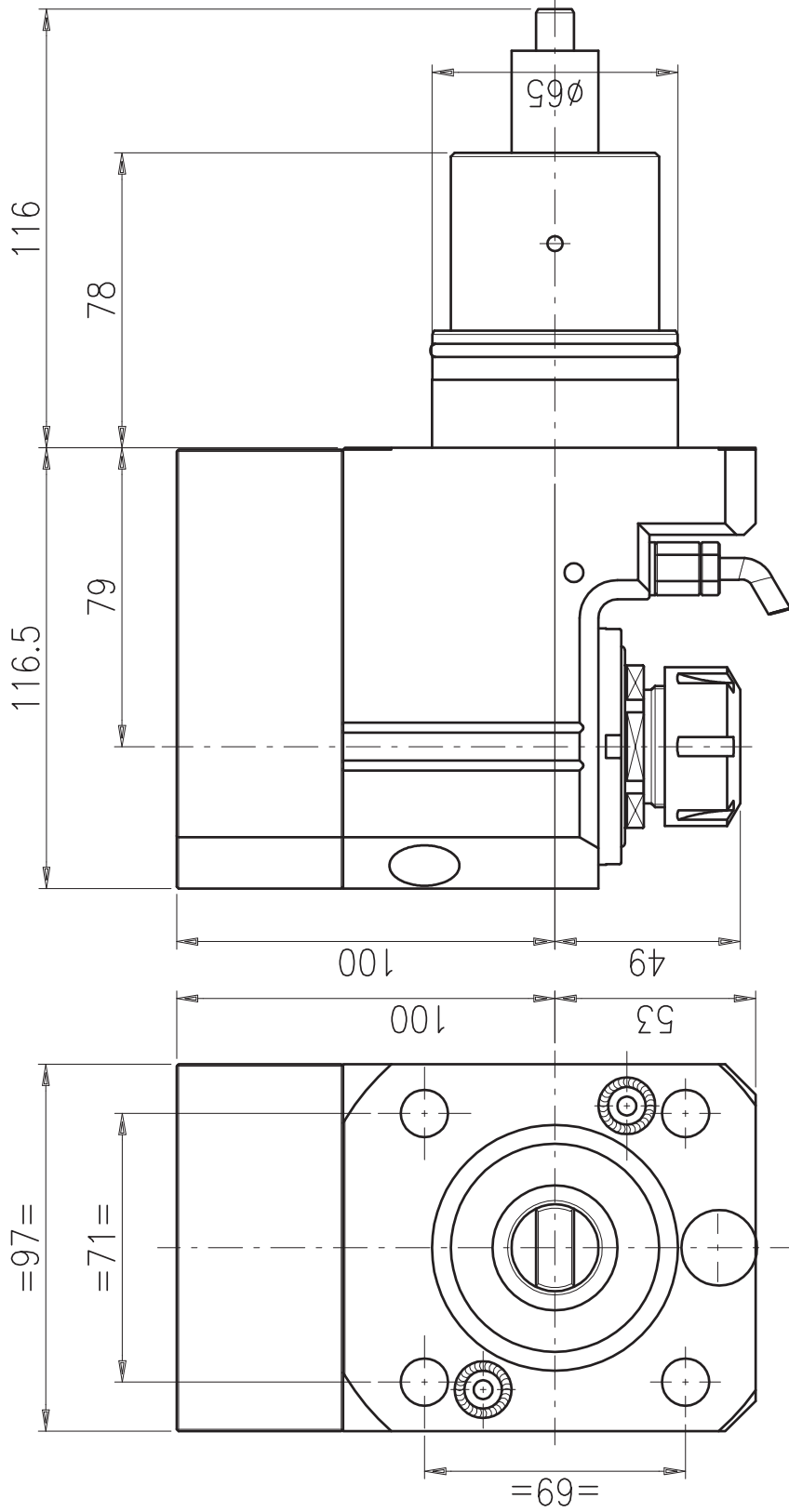
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DOTAZIONE STANDARD / STANDARD EQUIPMENT

Libro istruzioni Instruction book Gebrauchsanweisung	Chiavi di servizio Service key Bedienschlüssel
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9.97.2.65.S0

Costruttore/Builder/Hersteller

NAKAMURA

RADIALE ARRETRATO/OFFSET RADIAL TOOL

Modello/Model

TW20 / SC300 / WT300

Radialzurückgesetztwerkzeug

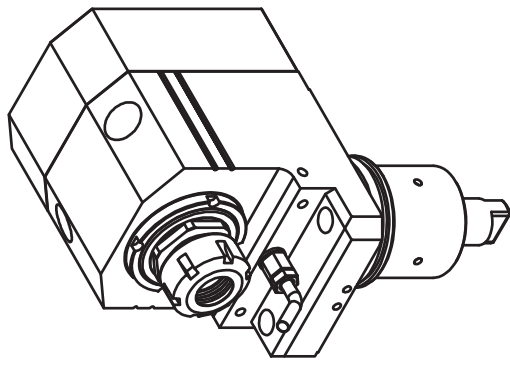
M90-2.5 D ER-25

Descrizione/Description/Beschreibung

KR2313DS

Codice Alberti/Alberti Code / Albertinummer

ANK.W30.070S



**PRESTAZIONI
Performance
Leistungen**

Rt 2:1

RPM max 12000

Max carico assiale
Max axial load
Längsbelastung max.
420 N

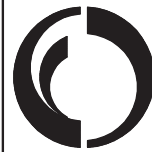
Momento torcente
Torque
Drehmoment
20 Nm

Adduzione refriger. interna
Internal coolant
Ik No

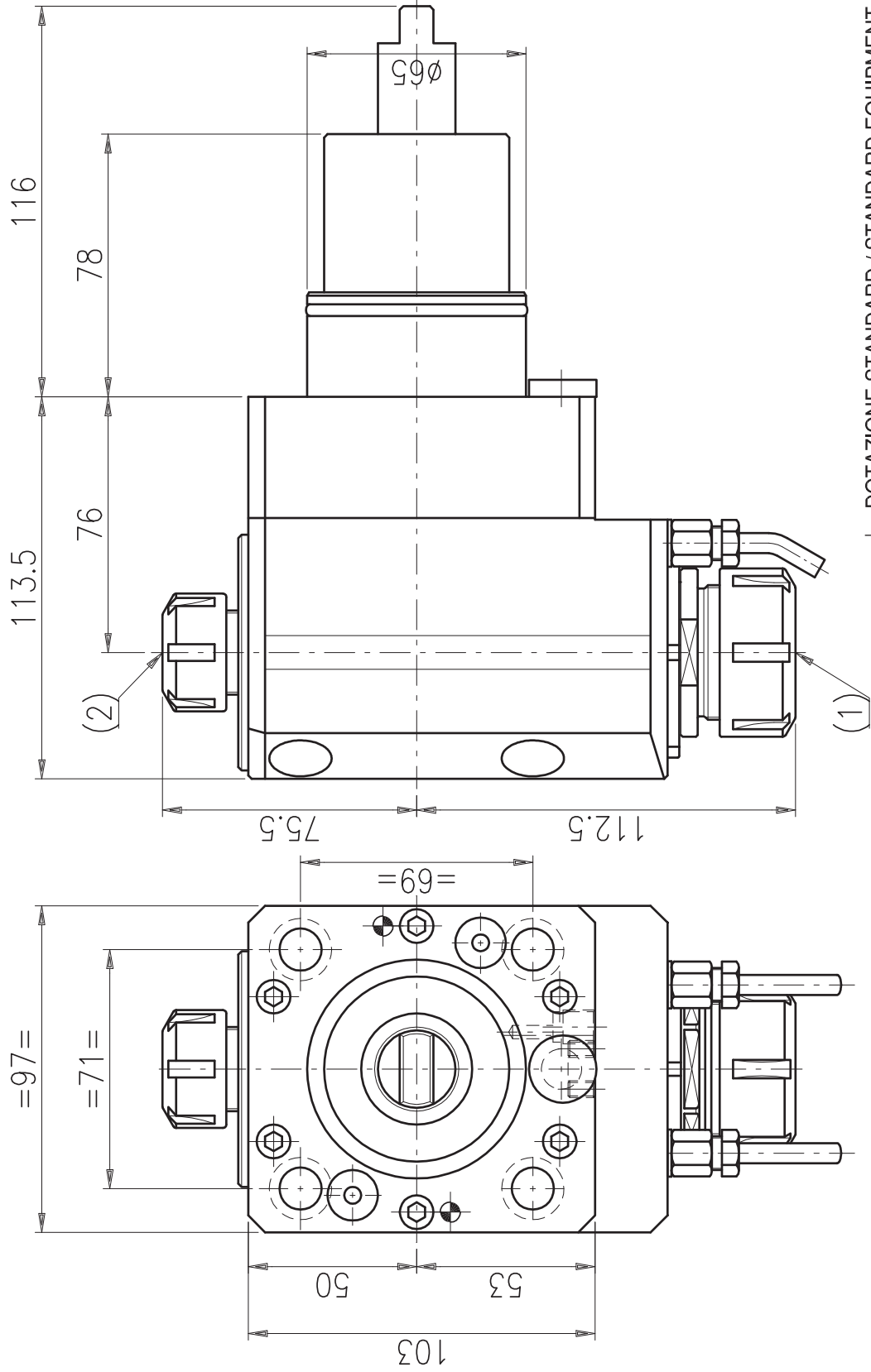
Mandrino
Spindle
Spindel
ER-25

Senso di rotazione
Direction of rotation
Drehrichtung
IN OUT

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DOTAZIONE STANDARD / STANDARD EQUIPMENT

Libro istruzioni Instruction book Gebrauchsanweisung	Chiavi di servizio Service key Bedienschlüssel
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9.92.3.65.09

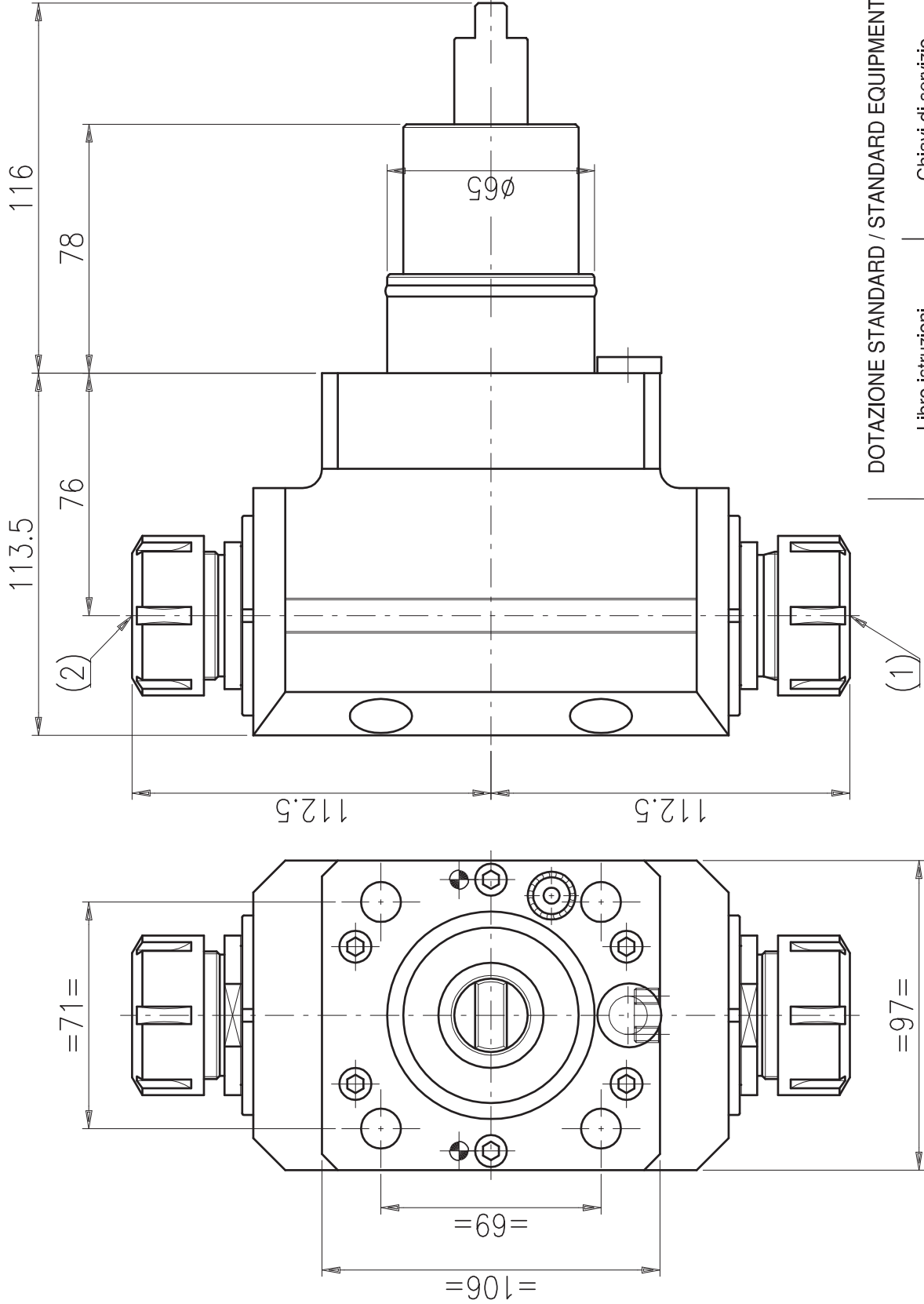
<p>Costruttore/Builder/Hersteller NAKAMURA</p>		<p>Descrizione/Description/Beschreibung KR2313-2U-ER32/20</p>	
<p>Modello/Model TW20 / SC300 / WT300</p>		<p>Codice Alberti/Alberti Code / Albertinummer ANK.W30.0300</p>	
<p>ALBERTI UMBERTO Teste angolari e motorizzazioni Via GORIZIA, 37 - 21047 SARONNOVA e-mail: info@albertiumberto.it http://www.albertiumberto.it Tel. (02) 96703586 (2 linee r.a.) FAX (02) 96703620</p>		<p>RADIALE/ RADIAL TOOL RADIALWERKZEUG M90-3.5 2U ER-32 / ER-20</p>	

**PRESTAZIONI
Performance
Leistungen**

Rt	1:1
RPM max	6.000
Max carico assiale Max axial load Längsbelastung max.	1250 N
Momento torcente Torque Drehmoment	35 Nm
Adduzione refrigerante interna Internal coolant Ik	No
Mandrino Spindle Spindel	ER-32 / ER-20

1	Senso di rotazione Direction of rotation Drehrichtung	IN	OUT
2	Senso di rotazione Direction of rotation Drehrichtung	IN	OUT

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DOTAZIONE STANDARD / STANDARD EQUIPMENT

Libro istruzioni <i>Instruction book</i> <i>Gebrauchsanweisung</i>	Chiavi di servizio <i>Service key</i> <i>Bedienschlüssel</i>
--	--

9.92.3.65.11

Costruttore/Builder/Hersteller

NAKAMURA

Modello/Model

TW20 / SC300 / WT300

RADIALE/ RADIAL TOOL

RADIALWERKZEUG

M90-3.5 2U ER-32

Descrizione/Description/Beschreibung

KR2313 2U-ER32/32

Codice Alberti/Alberti Code /Albertinummer

ANK.W30.0301

**PRESTAZIONI
Performance
Leistungen**

Rt	1:1
RPM max	6.000
Max carico assiale <i>Max axial load</i> <i>Langsbelastung max.</i>	1250 N
Momento torcente <i>Torque</i> <i>Drehmoment</i>	35 Nm
Adduzione refrig. interna <i>Internal coolant</i> <i>Ik</i>	No
Mandrino <i>Spindle</i> <i>Spindel</i>	ER-32 / ER-32

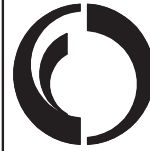
1 Senso di rotazione
Direction of rotation
Drehrichtung

IN OUT

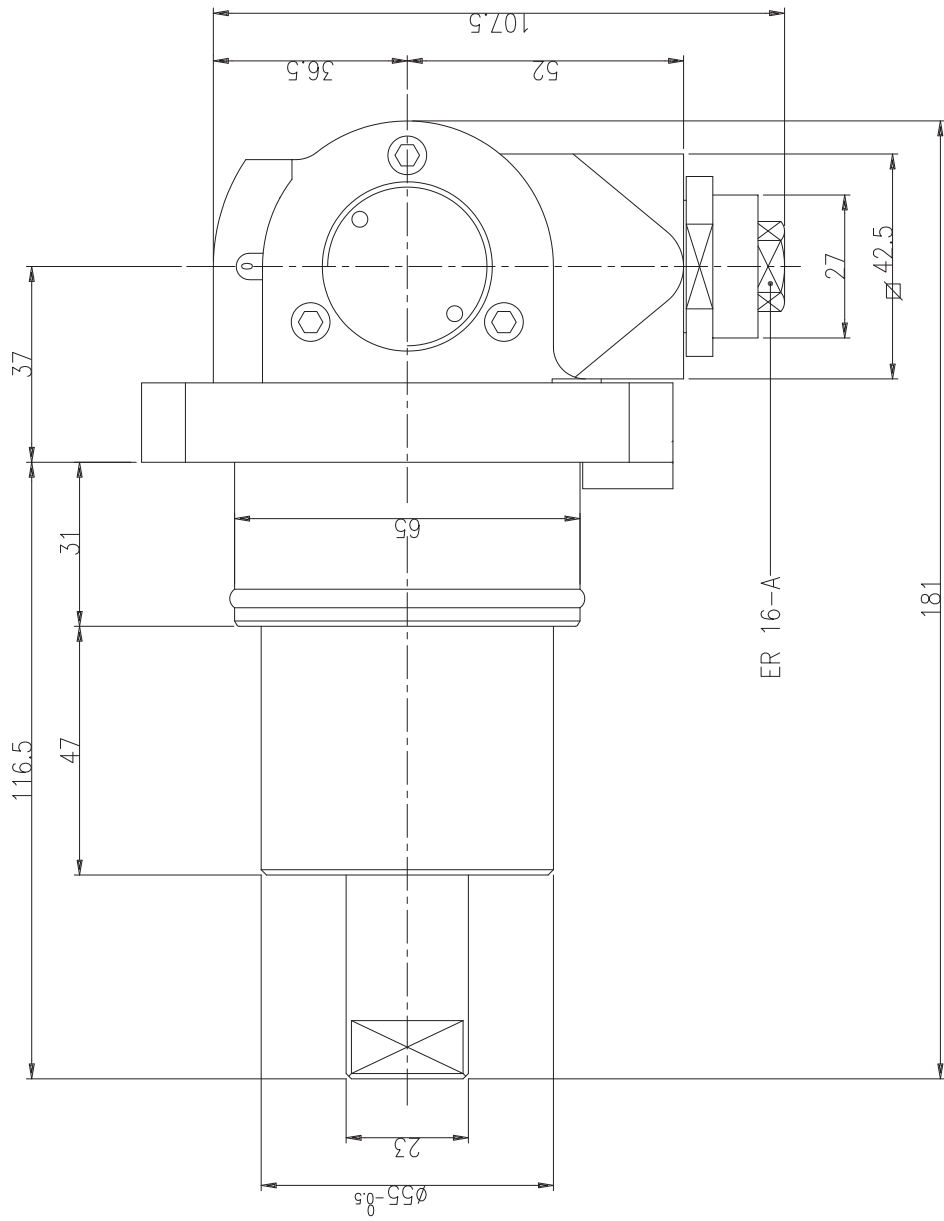
2 Senso di rotazione
Direction of rotation
Drehrichtung

IN OUT

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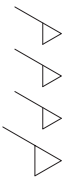



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 e-mail: info@albertiumberto.it
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 Tel. (02) 96703586 (2 linee r.a.) / FAX (02) 96703620



ER 16-A

MCU 1,5

MCU-1,5 h=37 PER NAKAMURA TW-20		 Alberti Umberto Teste angolari e motorizzazioni Via COPRIZIA 37 21047 SARONNO (VA) e-mail: alberti@net-one.it Tel. (02) 96703586 FAX (02) 96703620	
MODIFICHE	MATERIALE	FIRMA	VERIF.
SMUSSARE SPIGOLI	TRATTAMENTO	<i>Massafra s.l.</i>	DNA
TOLL. GENER.	SCALA	NUMERO DISEGNO - CODICE	RIF. ORD.
1:1	RUGOSITA'	25-01-95	
		 ANK.W30.0500	

9.93.1.65.02

A TERMINI DI LEGGE E' VIETATA LA RIPRODUZIONE DI QUESTO DISEGNO SENZA LA NOSTRA AUTORIZZAZIONE

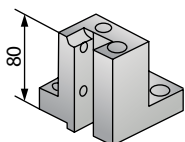
SUPERMILL WY250 - WT150 - SC200L NTY3 JUMBO

Nakamura-Tome

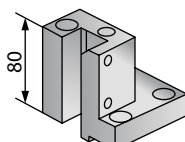


STATIC TOOLS

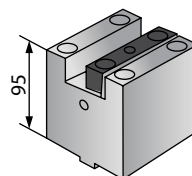
1) O.D. Cutting holder RH



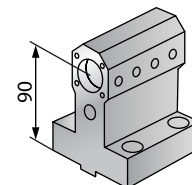
2) O.D. Cutting holder LH



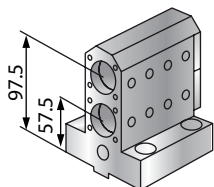
3) Double I.D. holder



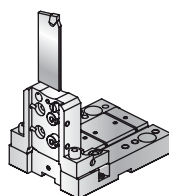
4) Boring bar holder



5) Double boring bar holder



6) Cut-off holder



7) Boring bar sleeve



Technical Data / Dati Tecnici

Code
Codice

1) O.D. CUTTING HOLDER RH 25X25mm

1) Portautensile per esterni destro 25x25mm

ANK.WT4.OD25.R

2) O.D. CUTTING HOLDER LH 25X25mm

2) Portautensile per esterni sinistro 25x25mm

ANK.WT4.OD25.L

3) DOUBLE I.D. HOLDER 25x25mm

3) Portautensile per interni doppio 25x25mm

ANK.WT4.ID25.2

4) BORING BAR HOLDER 32mm

4) Portabareno 32mm

ANK.WT4.BB32

Technical Data / Dati Tecnici

Code
Codice

5) DOUBLE BORING BAR HOLDER 25mm

5) Portabareno doppio 25mm

ANK.WT4.BB25.2

6) CUT-OFF HOLDER 32mm

6) Portalama 32mm

ANK.WT4.C032

7) BORING BAR SLEEVE

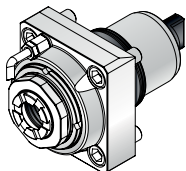
7) Bussole di riduzione

ANK.WT4.RDX

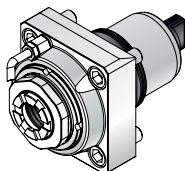
SUPERMILL WY250 - WT150 - SC200L NTY3 JUMBO

LIVE TOOLS

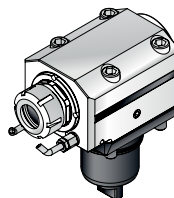
1A) Axial MA-3,5



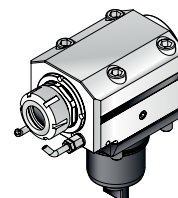
1B) Axial MA-3,5 C70 Bar



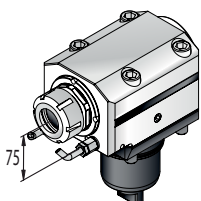
2A) Radial M90-3,5



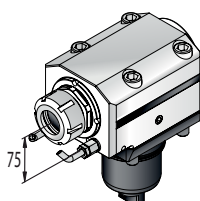
2B) Radial M90-3,5C 70 Bar



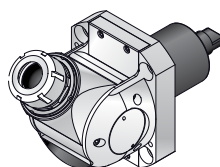
3A) Radial M90-3,5 H 75



3B) Radial M90-3,5C 70 Bar
H 75



4) Adjustable MCU-1,5



Technical Data / Dati Tecnici

Code Codice

1A) AXIAL MA-3,5

1A) Assiale MA-3,5

ANK.WT4.0100

1B) AXIAL MA-3,5 C 70 Bar

1B) Assiale MA-3,5 C 70 Bar

ANK.WT4.010C

2A) RADIAL M90- 3,5

2A) Radiale M90- 3,5

ANK.WT4.0200

2B) RADIAL M90- 3,5 C 70 Bar

2B) Radiale M90- 3,5 C 70 Bar

ANK.WT4.020C

Technical Data / Dati Tecnici

Code Codice

3A) RADIAL M90- 3,5 H=75 mm

3A) Radiale M90- 3,5 H=75 mm

ANK.WT4.0200.75

3B) RADIAL M90- 3,5 C 70 Bar H=75 mm

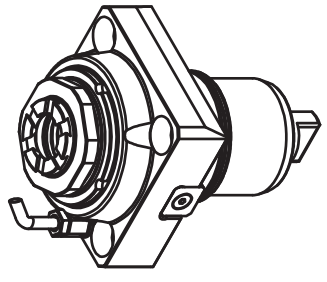
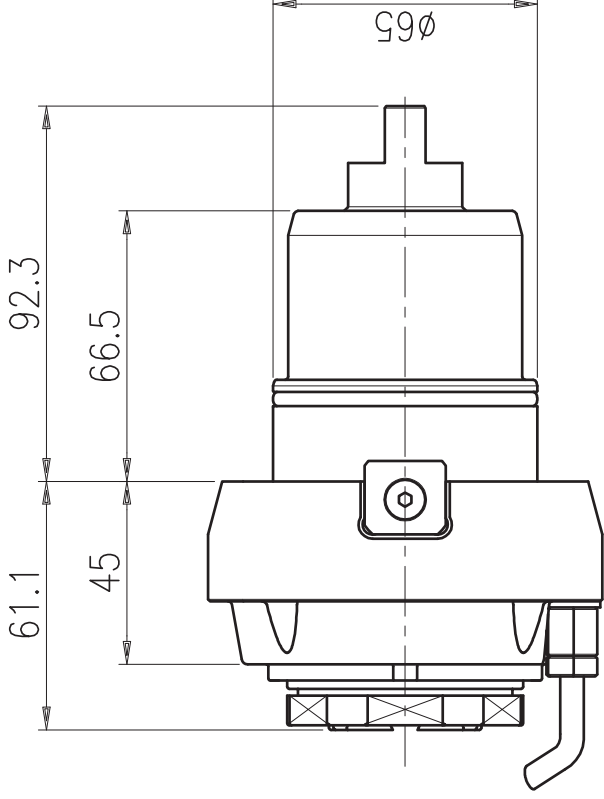
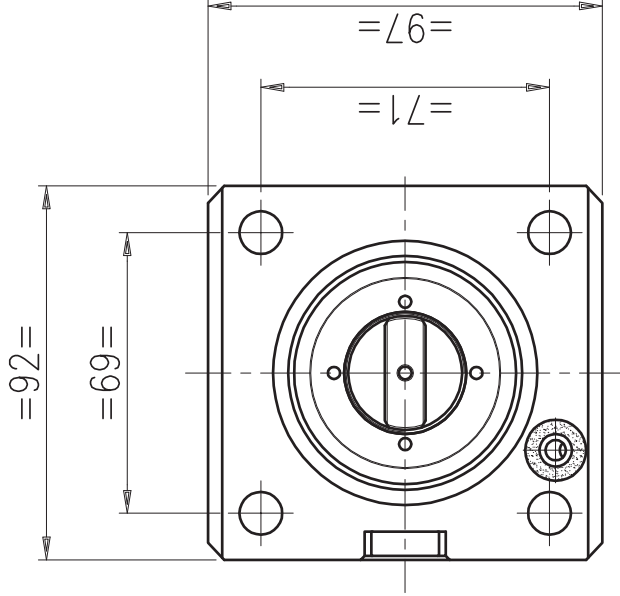
3B) Radiale M90- 3,5 C 70 Bar H=75 mm

ANK.WT4.020C.75

4) ADJUSTABLE MCU- 1,5

4) Orientabile MCU 1,5

ANK.WT4.0500



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**PRESTAZIONI
Performance
Leistungen**

Rt	1:1
RPM max	6.000
Max carico assiale Max axial load Längsbelastung	1300 N
Adduzione refrigerante Internal coolant Ik	No
Mandrino Spindle Spindel	ER-32A



Senso di rotazione
Direction of rotation
Drehrichtung

DOTAZIONE STANDARD / STANDARD EQUIPMENT

Libro istruzioni Instruction book Gebrauchsanweisung	Chiavi di servizio Service key Bedienschlüssel
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9.91.3.65.14

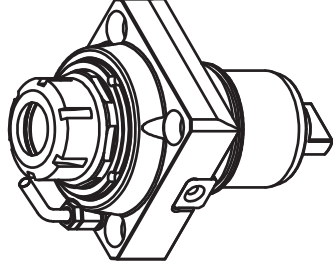
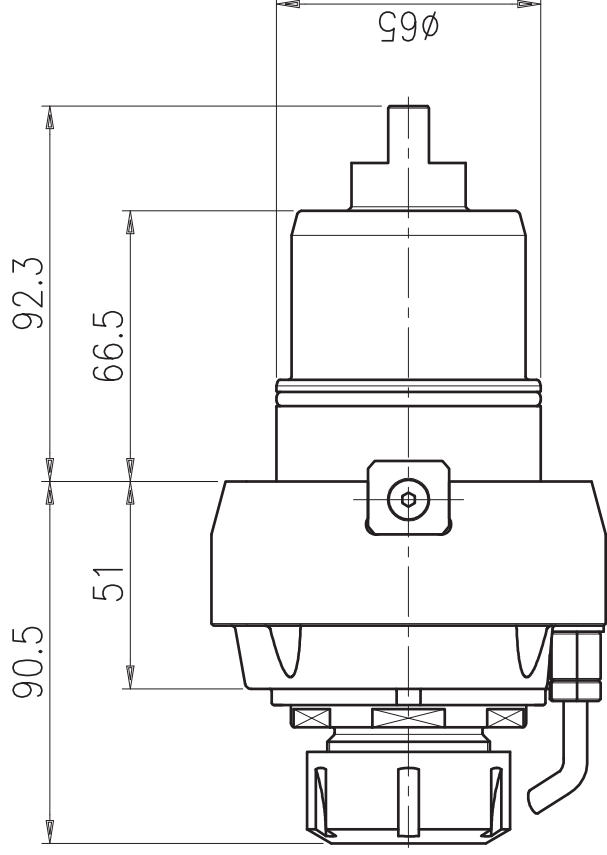
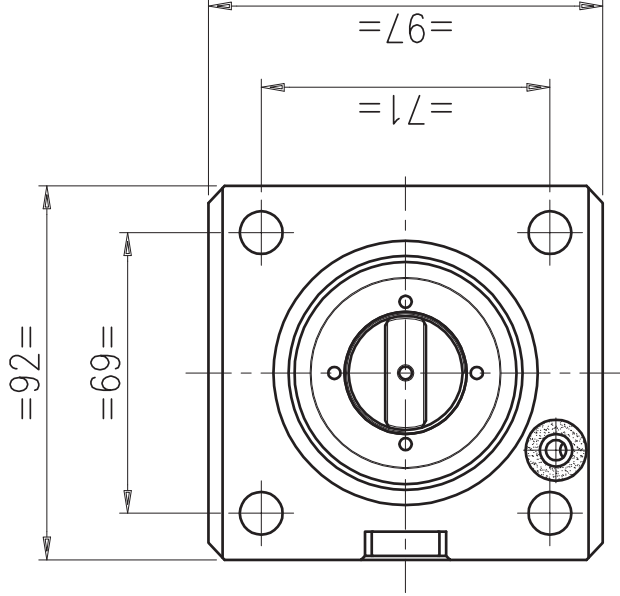
Costruttore/Builder/Hersteller
NAKAMURA
Modello/Model

Alberti Umberto
Teste angolari e motorizzazioni
Via GORIZIA, 37 - 21047 SARONNO(VA)
e-mail: info@albertiumberto.it
http://www.albertiumberto.it
Tel. (02) 96703586 (2 linee r.a.) FAX (02) 96703620



ASSIALE/AXIAL TOOL
AXIALWERKZEUG
MA-3.5 ER-32A

Descrizione/Description/Beschreibung
KG4310
Codice Alberti/Alberti Code /Albertinummer
ANK.WT4.0100



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**PRESTAZIONI
Performance
Leistungen**

Rt	1:1
RPM max	6.000
Max carico assiale Max axial load Längsbelastung	1300 N
Adduzione refrig. interna Internal coolant Ik	Yes
Mandrino Spindle Spindel	ER-32

Senso di rotazione
Direction of rotation
Drehrichtung

DOTAZIONE STANDARD / STANDARD EQUIPMENT

Libro istruzioni Instruction book Gebrauchsanweisung	Chiacchi di servizio Service key Bedienschlüssel
--	--

9.91 .3.65.C2

Costruttore/Builder/Hersteller

NAKAMURA

ASSIALE/ AXIAL TOOL

Modello/Model

**SUPERMILL WY-250
WT-150 / SC-200L**

**AXIALWERKZEUG
MA-3.5 ER-32 R.1.70 BAR**

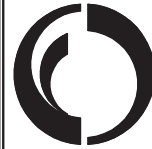
Descrizione/Description/Beschreibung

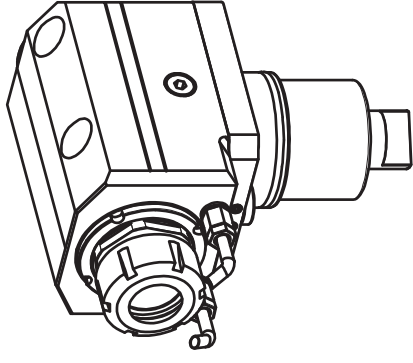
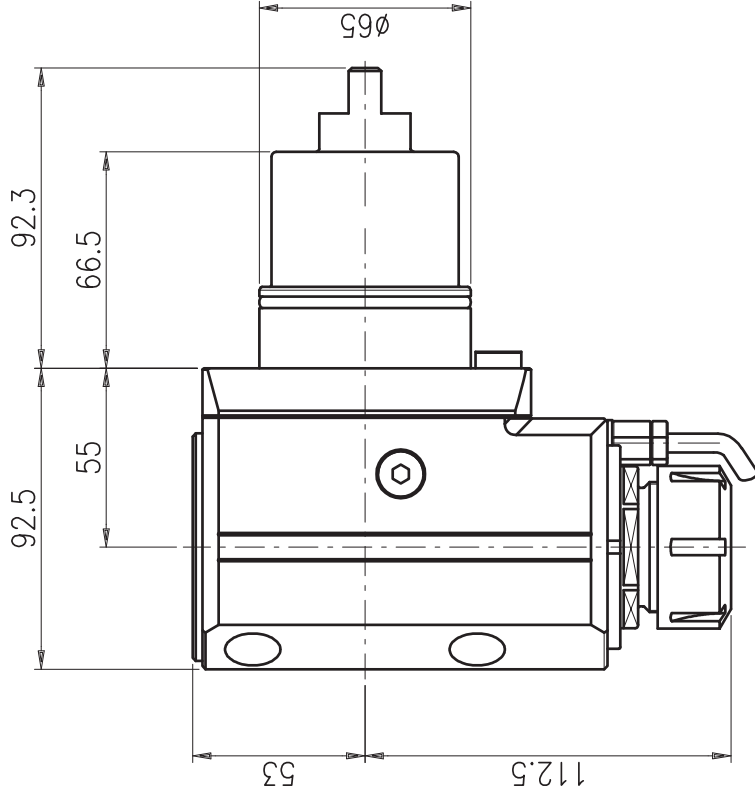
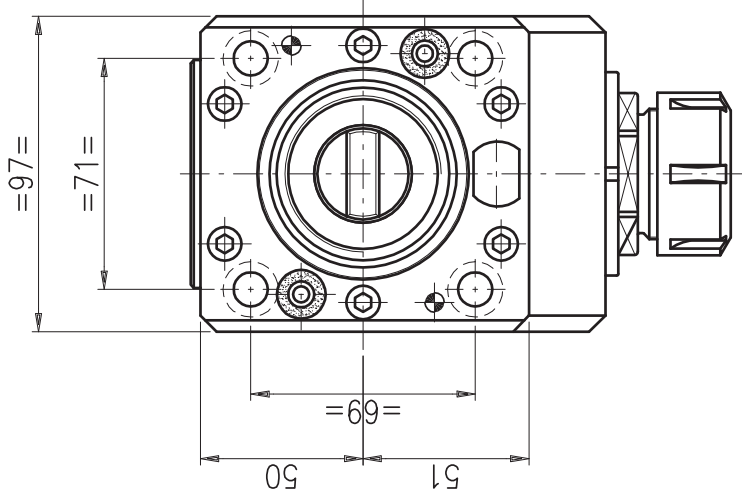
KG4310C

Codice Alberti/Alberti Code /Albertinummer

ANK.WT4.010C

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 Teste angolari e motorizzazioni
 Via GORIZIA, 37 - 21047 SARONNOVA
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 http://www.albertiumberto.it
 Tel. (02) 96703586 (2 linee r.a.) FAX (02) 96703620





**PRESTAZIONI
Performance
Leistungen**

Rt	1:1
RPM max	6.000
Max carico assiale Max axial load Längsbelastung max.	1000 N
Momento torcente Torque Drehmoment	35 Nm
Adduzione refrig. interna Internal coolant Ik	No
Mandrino Spindle Spindel	ER-32



Senso di rotazione
Direction of rotation
Drehrichtung

DOTAZIONE STANDARD / STANDARD EQUIPMENT

Libro istruzioni
Instruction book
Gebrauchsanweisung

9.92.3.65.16

Chiavi di servizio
Service key
Bedienschlüssel

Costruttore/Builder/Hersteller

NAKAMURA

RADIALE/RADIAL TOOL

Modello/Model

**SUPERMILL WY-250
WT-150 / SC-200L**

RADIALWERKZEUG

M90-3.5 ER-32

Descrizione/Description/Beschreibung

KG4313

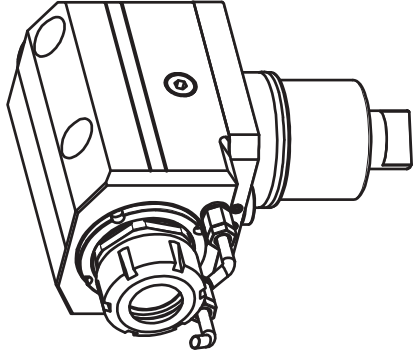
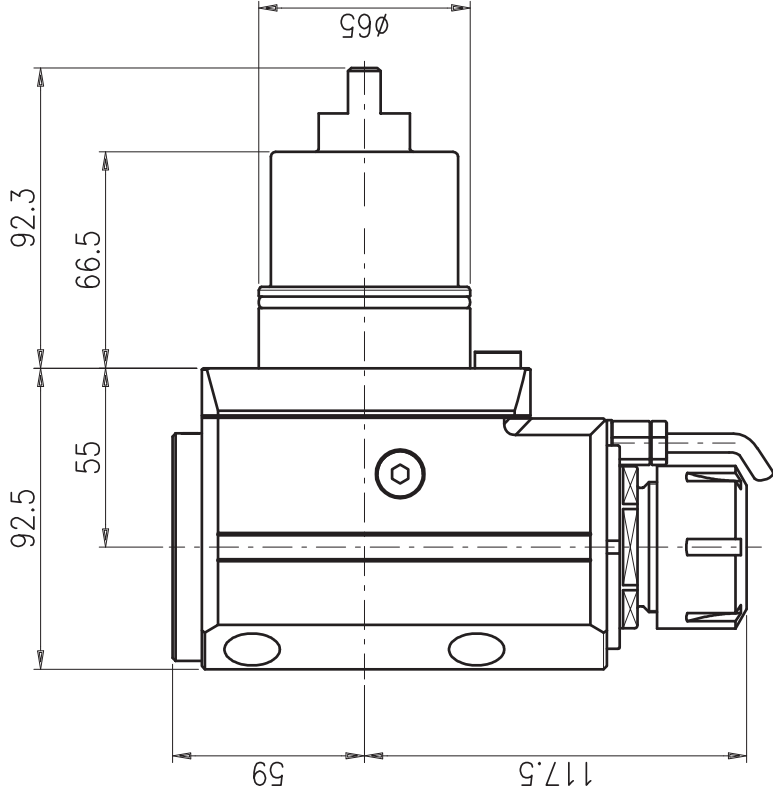
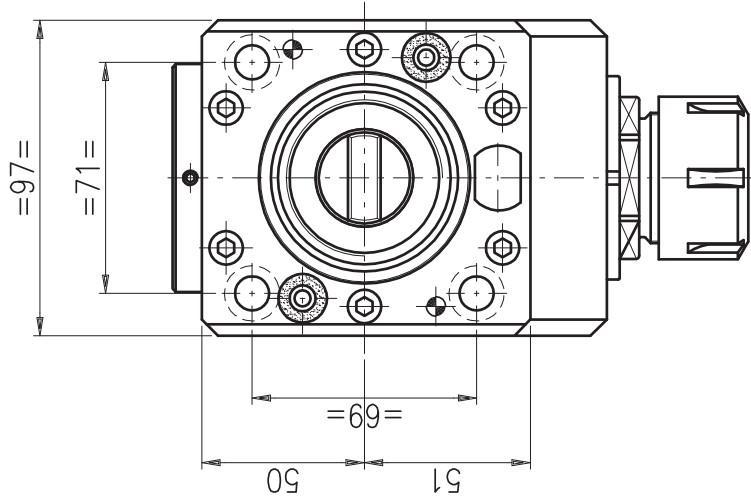
Codice Alberti/Alberti Code/Albertinummer

ANK.WT4.0200

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PRESTAZIONI
Performance
Leistungen

Rt	1:1
RPM max	6.000
Max carico assiale Max axial load Langsbelastung max.	1000 N
Momento torcente Torque Drehmoment	35 Nm
Adduzione refrig. interna Internal coolant Ik	Yes
Mandrino Spindle Spindel	ER-32

Senso di rotazione
Direction of rotation
Drehrichtung

IN OUT

DOTAZIONE STANDARD / STANDARD EQUIPMENT

Libro istruzioni
Instruction book
Gebrauchsanweisung

Chiacchi di servizio
Service key
Bedienschlüssel

9.92.3.65.C2

Costruttore/Builder/Hersteller

NAKAMURA

Modello/Model

SUPERMILL WY-250
WT-150 / SC-200L

RADIALE/RADIAL TOOL

RADIALWERKZEUG

M90-3.5 ER-32 R.1.70 BAR

Descrizione/Description/Beschreibung

KG4313C

Codice Alberti/Alberti Code / Albertinummer

ANK.WT4.020C

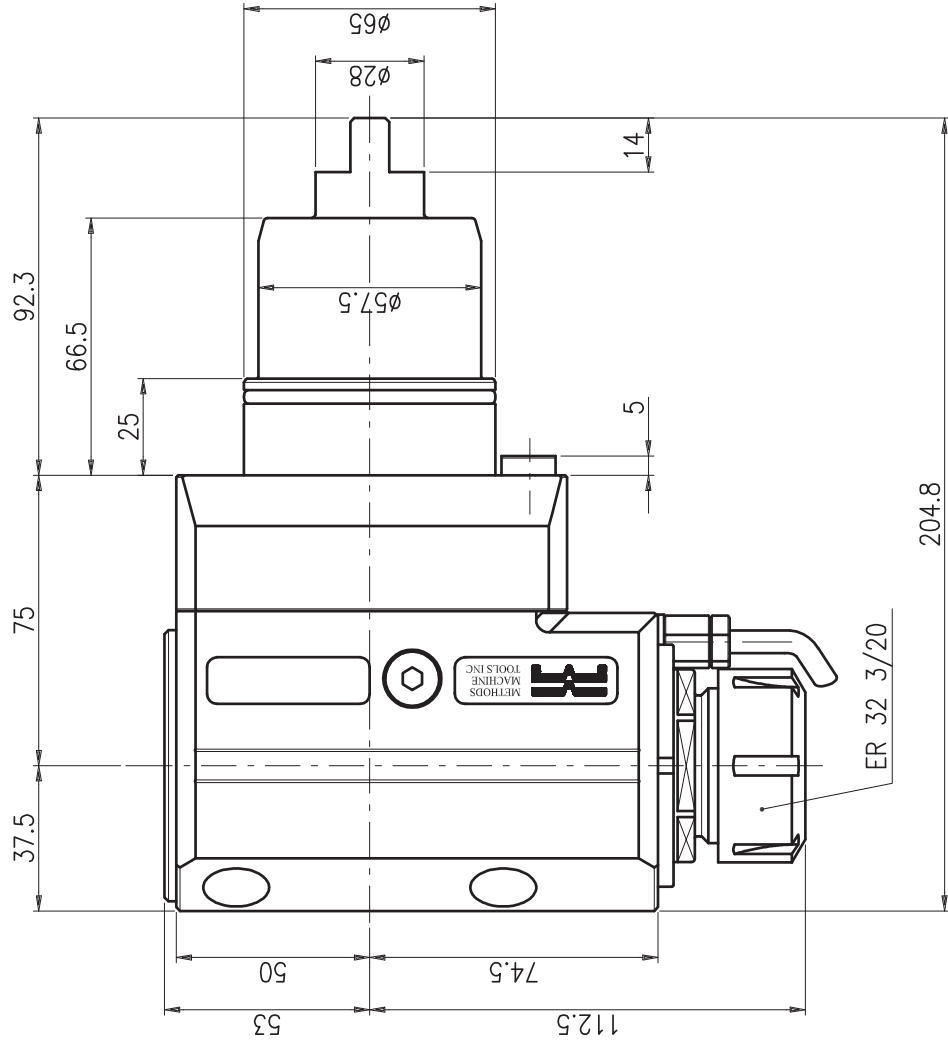
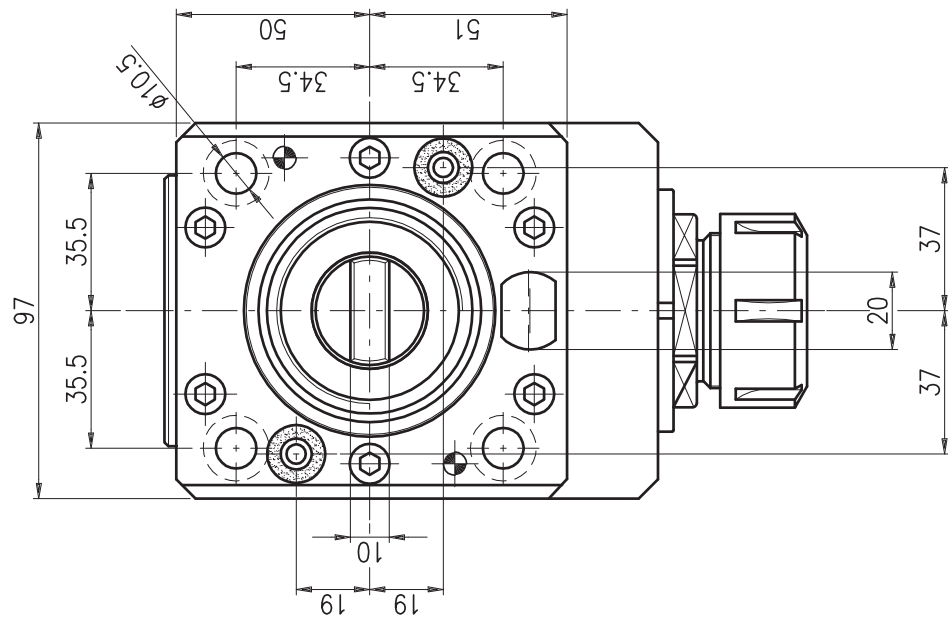
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Alberti Umberto

Teste angolari e motorizzazioni
Via GORIZIA, 37 - 21047 SARONNOVA
e-mail: info@albertiumberto.it
<http://www.albertiumberto.it>

Tel. (02) 96703586 (2 linee r.a.) FAX (02) 96703620



Da definire / Redefine

Data / Date .. / .. /

Firma / Signature

Note:

Disegno per approvazione

Approvato / Approved

Data / Date .. / .. /

Firma / Signature

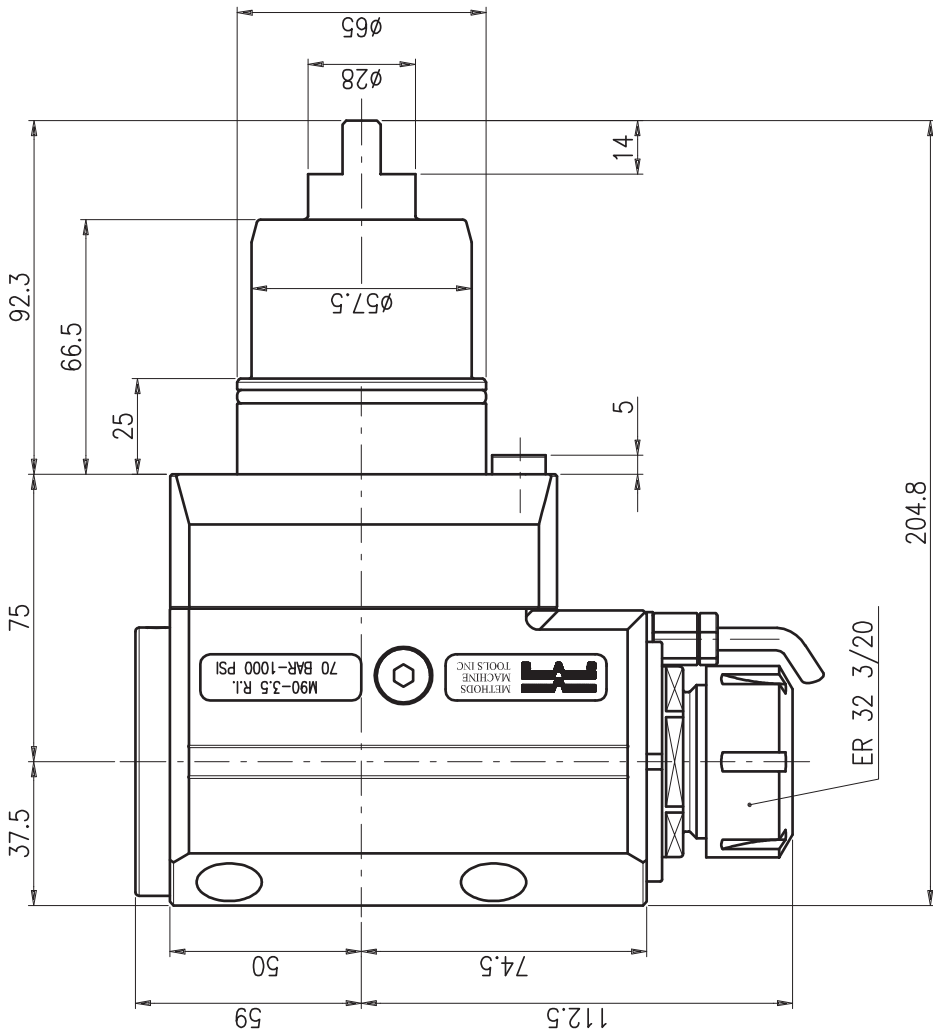
Note:

Approval Drawing

KG4313-H=75

		Alberati Umberto Tante ingegneri e motorizzazioni Via GONZALE 27-11019 - SASSONE (OV)	
PER NAKAMURA SUPERMILL (G31333)		M90-3.5 H=75 ER-32	
MODIFICHE		TRATTAMENTO	
SWISSRASE SPICOLI	TALL. GEN.	SCALA	RUGGOSITA'
		1:1	
VERIF.	FIRMA	DATA	REF. ORD.
	Covomoda	21/01/08	
NUMERO DISEGNO - CODICE		ANK.WT4.0200.75	

9.92.3.65.18



Disegno per approvazione

Da definire / Redefine

Data / Date .. / .. /

Firma / Signature

Note:

Approval Drawing

Approvato / Approved

Data / Date .. / .. /

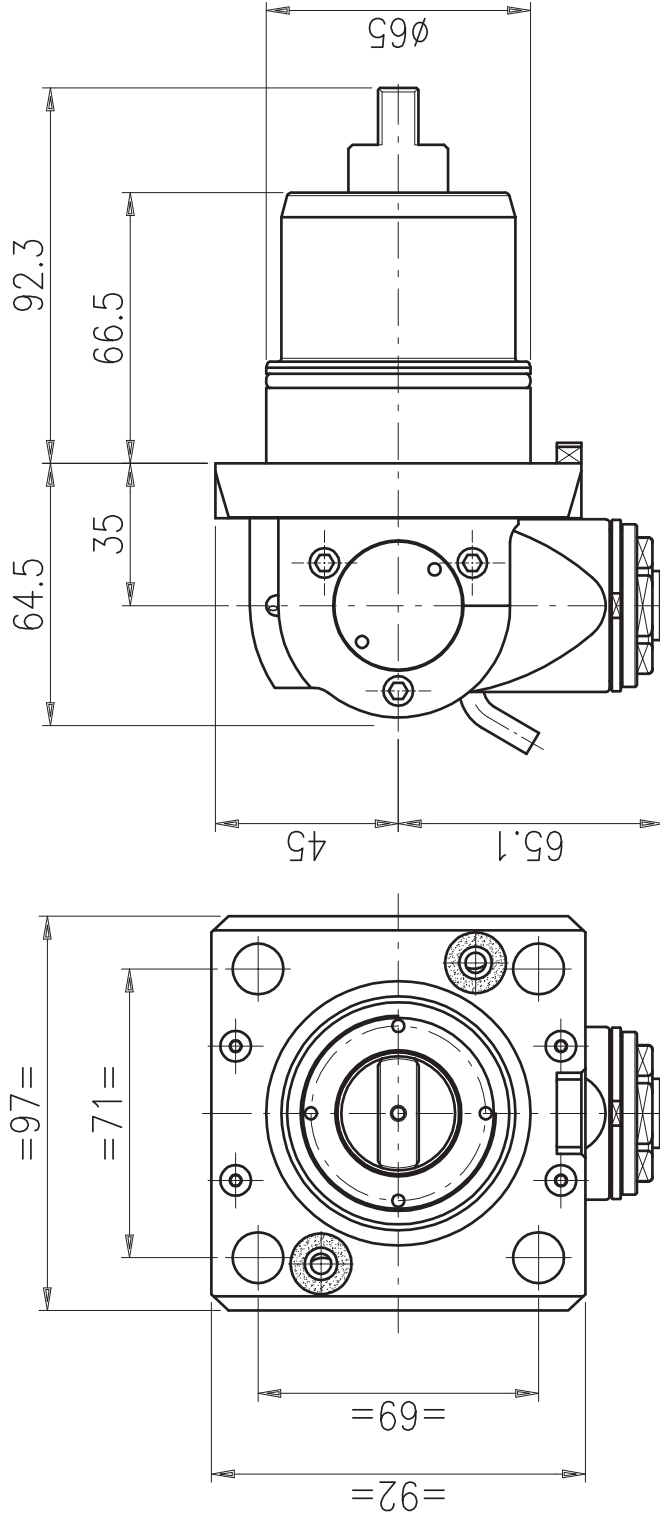
Firma / Signature

Note:

9.92.3.65.C3

KG4313C

		Alberici Umberto Teste angolari e motorizzazioni Via GORIZIA 37 n°7 21047 SARONNO(VA) Tel. (032) 8670386 (2 linee r.a.) Fax (032) 8670383	
MODIFICHE SWISSARE SPICOLI	MATERIALE TOLL. GENR.	TRATTAMENTO RUGOSITA'	DATA 21/01/08
M90-3.5 H=75 ER-32 R.I. 70 BAR PER NAKAMURA SUPERMILL (G31339)	SCALA 1:1	NUMERO DISEGNO - CODICE ANK.MT4.020C.75	FIRMA Commob
A TERMINI DI LEGGE E' VIETATA LA RIPRODUZIONE DI QUESTO DISEGNO SENZA LA NOSTRA AUTORIZZAZIONE		VERIF.	



DOTAZIONE STANDARD / STANDARD EQUIPMENT

Libro istruzioni / Instruction book / Gebrauchsanweisung

Chiavi di servizio / Service key / Bedienschlüssel

9.93.1.65.05

Costruttore / Builder / Hersteller

NAKAMURA

UNIVERSALE/UNIVERSAL TOOL

Modello / Model

**SUPERMILL WY-250
WT-150 / SC-200L**

UNIVERSALWERKZEUG

MCU-1.5 ER-16A

Descrizione / Description / Beschreibung

MCU-25

Codice Alberti / Alberti Code / Albertinummer

ANK.WT4.0500

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**PRESTAZIONI
Performance
Leistungen**

Rt 1:1

RPM max 4.000

Max carico assiale
Max axial load
Längsbelastung max.
470 N

Momento torcente
Torque
Drehmoment
7 Nm

Adduzione refrigerante
Internal coolant
Ik No

Mandrino
Spindle
Spindel
ER-16A

Senso di rotazione
Direction of rotation
Drehrichtung
IN OUT



Alberti Umberto
Teste angolari e motorizzazioni
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Tel. (02) 96703586 (2 linee r.a.) FAX (02) 96703620

Tooling

Nakamura-Tome

NAKAMURA SmartChange

The new era of Quick Change / La nuova era del Quick Change

Nakamura-Tome

La nuova era del Quick Change

The new era of Quick Change
Die neue Schnell-Wechsel-Ära

VELOCE

Quick

Schnell

FACILE

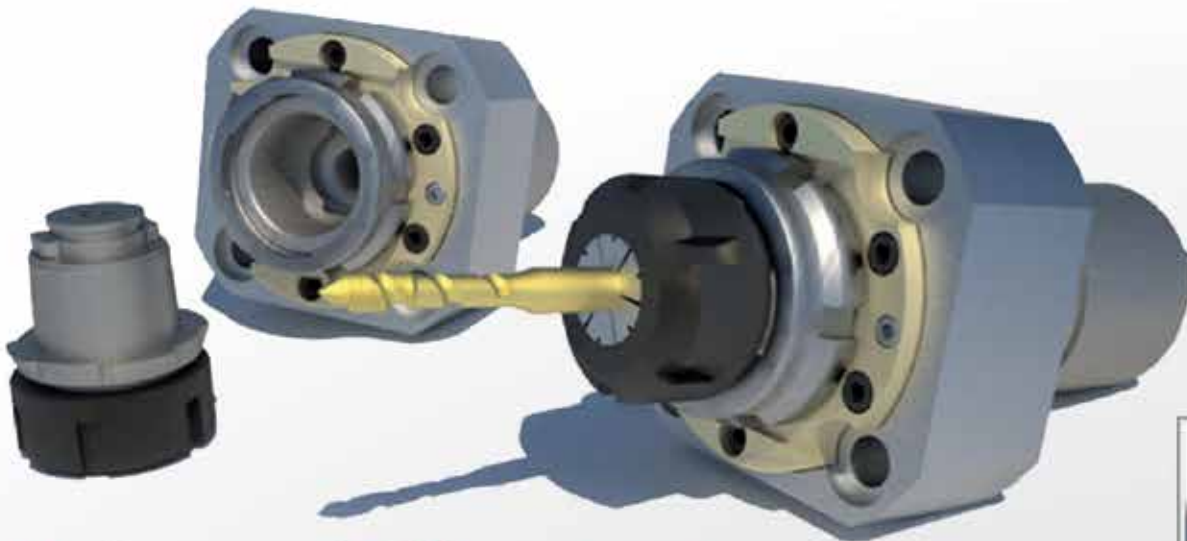
Easy

Einfach

PRECISO

Accurate

Präzise



 SmartChange

Triplo contatto per una miglior precisione

Triple contact for a higher precision /
Drei Kontakpunkte für noch bessere Genauigkeit

Design compatto

Compact design / Kompaktes Design

Presettaggio fuori macchina

Outside presetting / Voreinstellung außerhalb der Maschine

Maggior flessibilità

Increased flexibility
Höhere Flexibilität

Minor costi e tempi di
attrezzaggio macchina

Lower costs and reduced set up time
Reduzierte Kosten und Rüstzeiten



NAKAMURA SmartChange

The new era of Quick Change / La nuova era del Quick Change

SmartChange

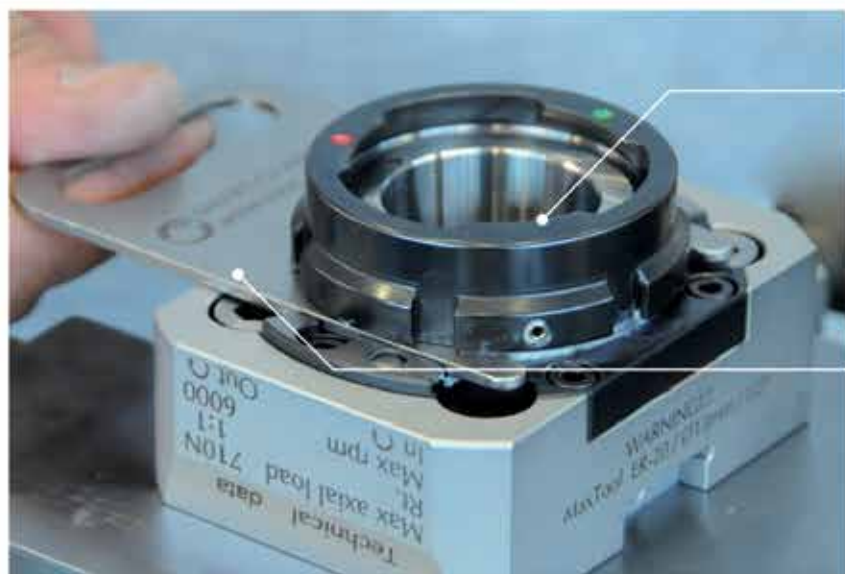
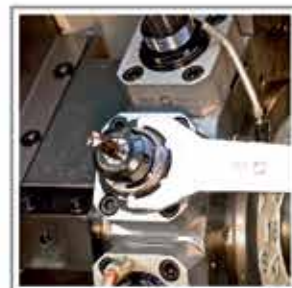
Sistema triplo contatto / Triple contact system / System mit drei Kontaktpunkten

Superfici di appoggio / Contact surfaces / Berührungsplane



Primo e secondo punto di contatto
First and second contact point
Erster und zweiter Kontaktpunkt

Terzo punto di contatto
Third contact point
Dritter Kontaktpunkt



Ghiera SmartChange brevettata
(annessa al corpo del motorizzato)
Patented SmartChange nut
(mounted on the body)

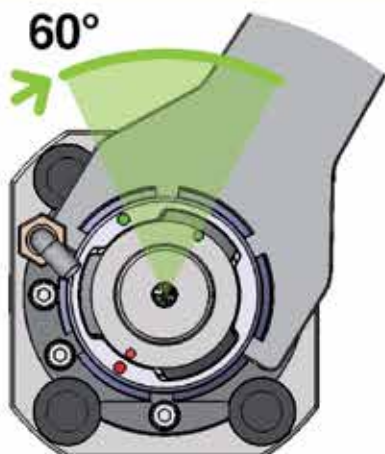
Patentierte SmartChange Mutter
(auf Gehäuse eingebaut)

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

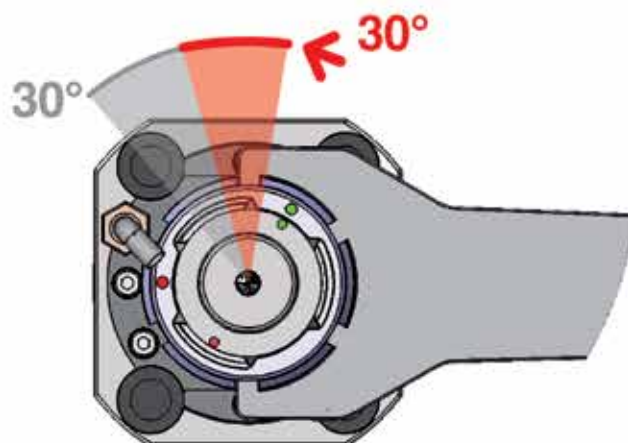
SmartChange Wrench
(one-hand handling)

SmartChange Gegenschlüssel
(Einhandbedienung)

Come funziona / How it works / So funktioniert es



● Bloccaggio Ghiera /
Clamping nut / Klemmung mutter



● Sbloccaggio / Unclamping / Klemmung lösen
● Estrazione / Pull out / Ausziehen

SmartChange

Disponibile anche con adduzione refrigerante interna max 70 bar.
 Available also with internal coolant max 70 bar.
 Verfügbar mit innerer Kühlmittelzuführung max 70 bar.

CARTUCCE Adapters / Schnittstelle

grandezza max disponibile
 max dimension available
 maximales Maß verfügbar

ER20 / ER25 / ER32

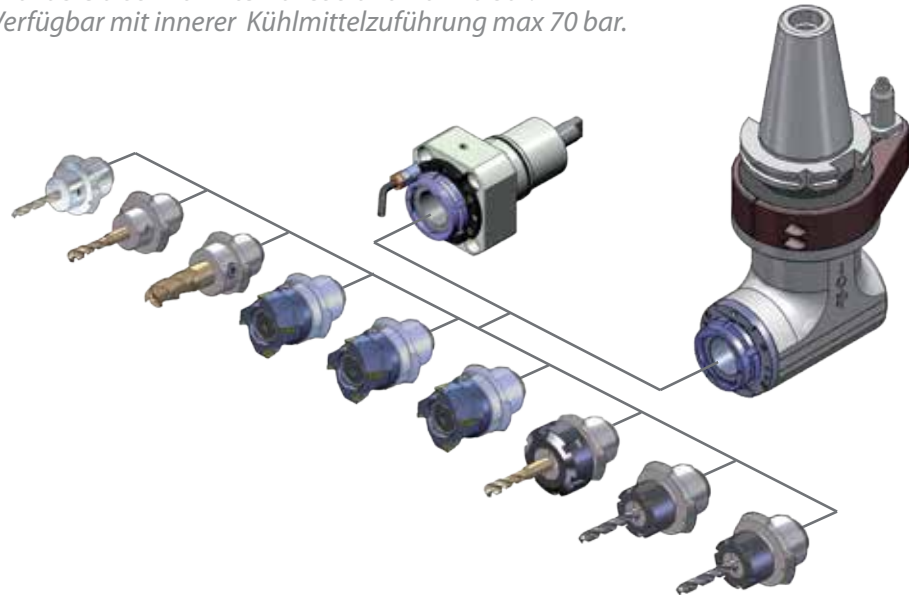
Weldon

Ø 6 / 8 / 10 / 12 / 16 mm

Porta fresa

shell mill holder - aufsteckfräsdorn

13 / 16 / 22 mm



DISPONIBILE PER TORNI / AVAILABLE FOR LATHES / VERFÜGBAR FÜR DREHMASCHINEN

Nakamura

TW10 / SC150 / SC250 / WT150 / WT250 / WTW150 / WTS150 / NTM3

SUPER NTJ / NTJX

WT100 / NTY 3 / WY100



NAKAMURA SmartChange

The new era of Quick Change / La nuova era del Quick Change

SmartChange

Presettaggio fuori macchina / Outside presetting / Voreinstellung außerhalb der Maschine

Grazie al nostro sistema è possibile con un adattatore universale presetare gli utensili fuori macchina aumentando così la produttività e riducendo costi e tempi di attrezzaggio.

This system allows to pre-set all the tools outside the machine thanks to a universal adapter for all presetters. This speeds up the tool change and as a consequence the production cycle.

Unser System ermöglicht das Voreinstellen außerhalb der Maschine, dank einem Universaladapter. Auf diese Art und Weise werden die allgemeinen Kosten und Rüstzeiten stark reduziert.



Adattatore per pre-set ISO - Smart Change
Tool pot adapters ISO - Smart Change
Voreinstelladapter ISO - Smart Change

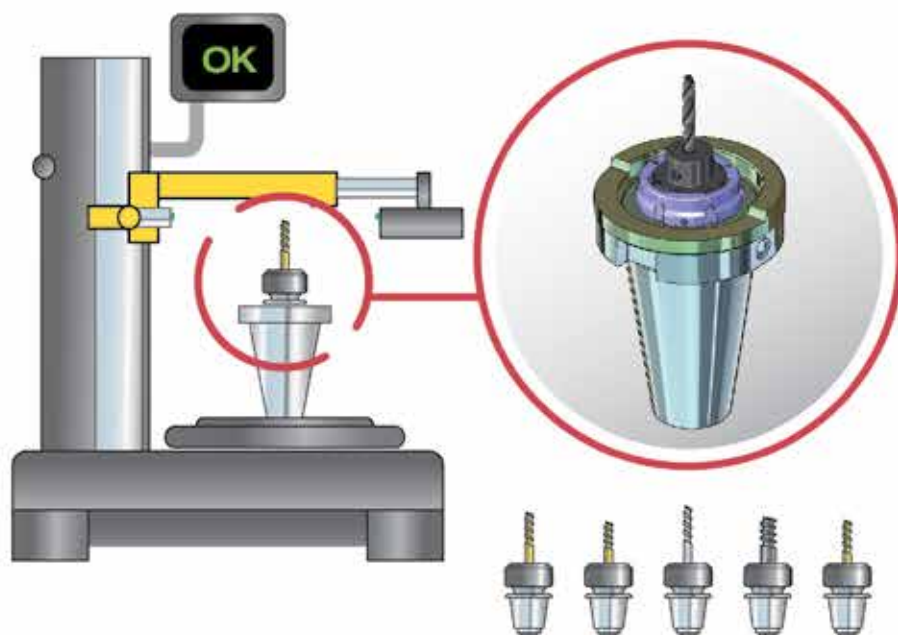
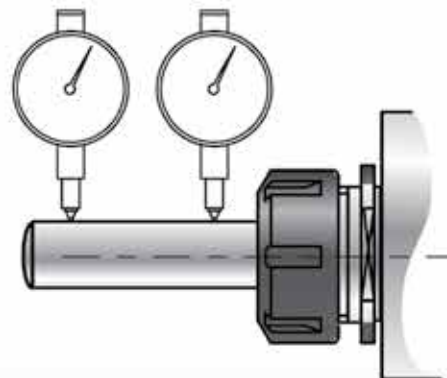
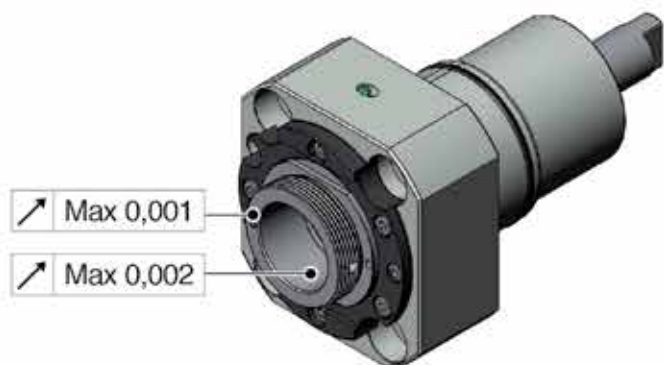
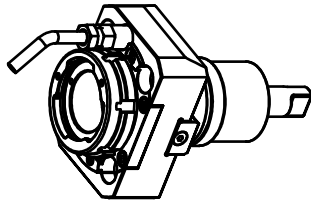
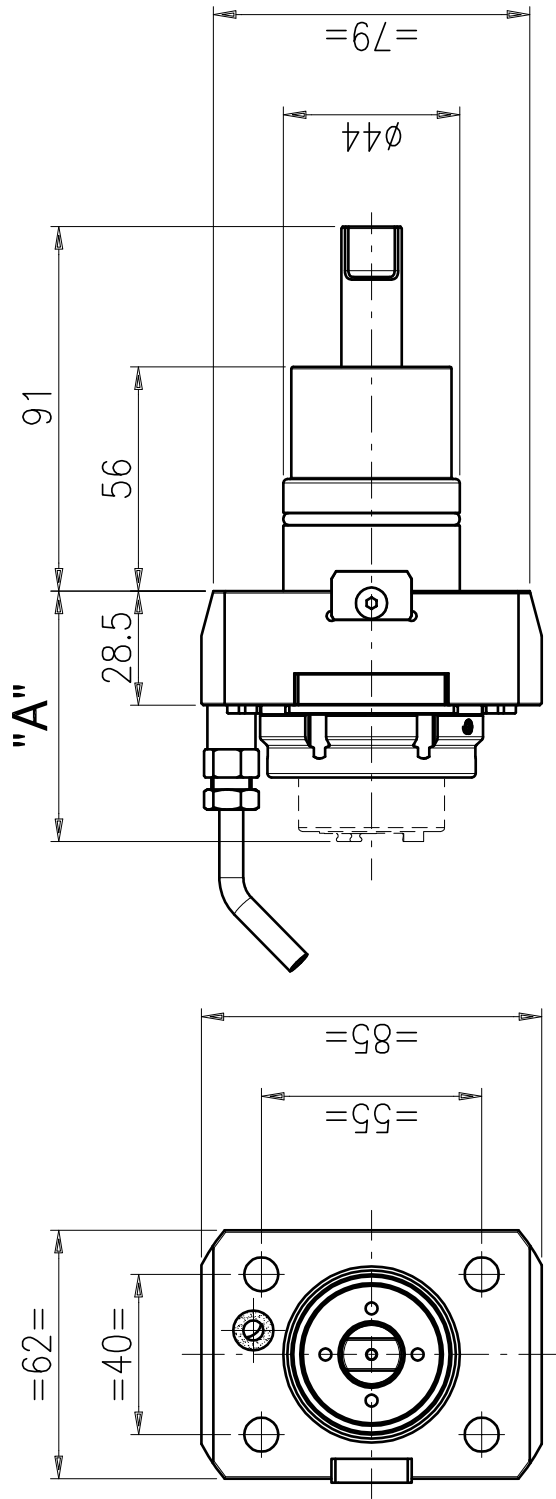


Tabella dati tecnici / Technical data / Technische Daten

Tempo massimo di sostituzione cartucce <i>Time to change front end / Zeit für Schnittstellenwechsel</i>	20"	Precisione con barra inserita nel mandrino <i>Accuracy with gauge bar inserted in the collet chuck Fundlautgenauigkeit mit Lehre</i>	
Ripetibilità / Repeatability / Wiederholgenauigkeit	0,003 mm	a 40 mm = 0,008 mm	at 40 mm = 0,008mm
		a 120 mm = 0,01 mm	at 120 mm = 0,01mm





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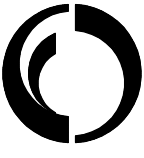
**PRESTAZIONI
 Performance
 Leistungen**

Rt	1:1
RPM max	6.000
Max carico assiale Max axial load Längsbelastung	710 N
Adduzione refrigerante Internal coolant Ik	No
Attacco rapido Quick-change Schnittstelle	A2

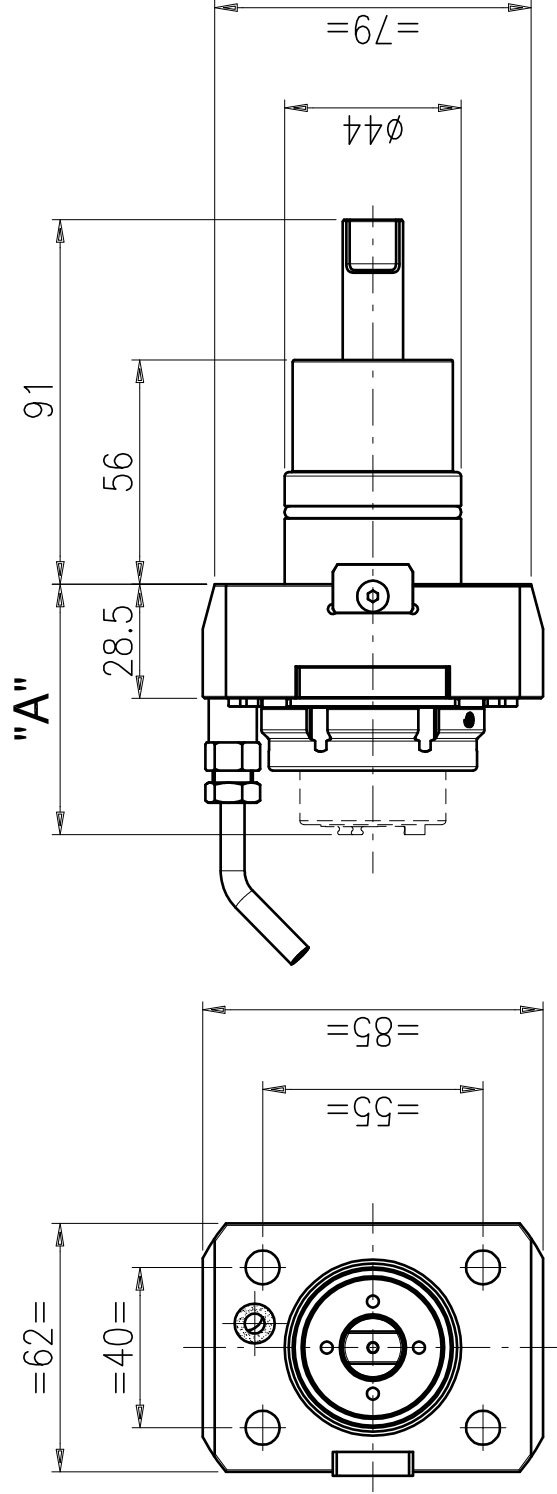
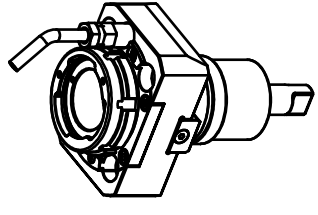


PINZA/COLLET/SPANNZANG "ER-A" | **WELDON** | **DOTAZIONE STANDARD / STANDARD EQUIPMENT**

GRANDEZZA SIZE / GRÖÙE	16	20	8	10	12	Libro istruzioni Instruction book Gebrauchsanweisung	Chiavi di servizio Service key Bedienschlüssel
A	60	60	61	61	61		

 Alberti Umberto Teste angolari e motorizzazioni Via GORIZIA, 37 - 21047 SARONNO(VA) e-mail: info@albertiumberto.it http://www.albertiumberto.it Tel. (02) 96703586 (2 linee r.a.) FAX (02) 96703620	NAKAMURA Costruttore / Builder / Hersteller		MOTORIZZATO ASSIALE Axial driven tool Axial werkzeug		Descrizione / Description / Beschreibung MA-2.5 A2 SMART-CHANGE Codice Alberti / Alberti Code / Albertinumnummer ANK.W10.0100.SC	
	WT-100 / NTY-3 Modello / Model					

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**PRESTAZIONI
Performance
Leistungen**

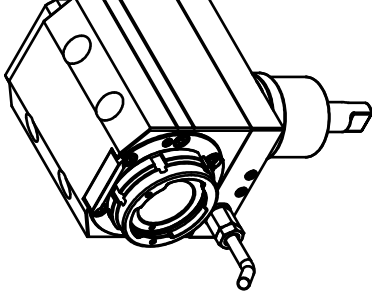
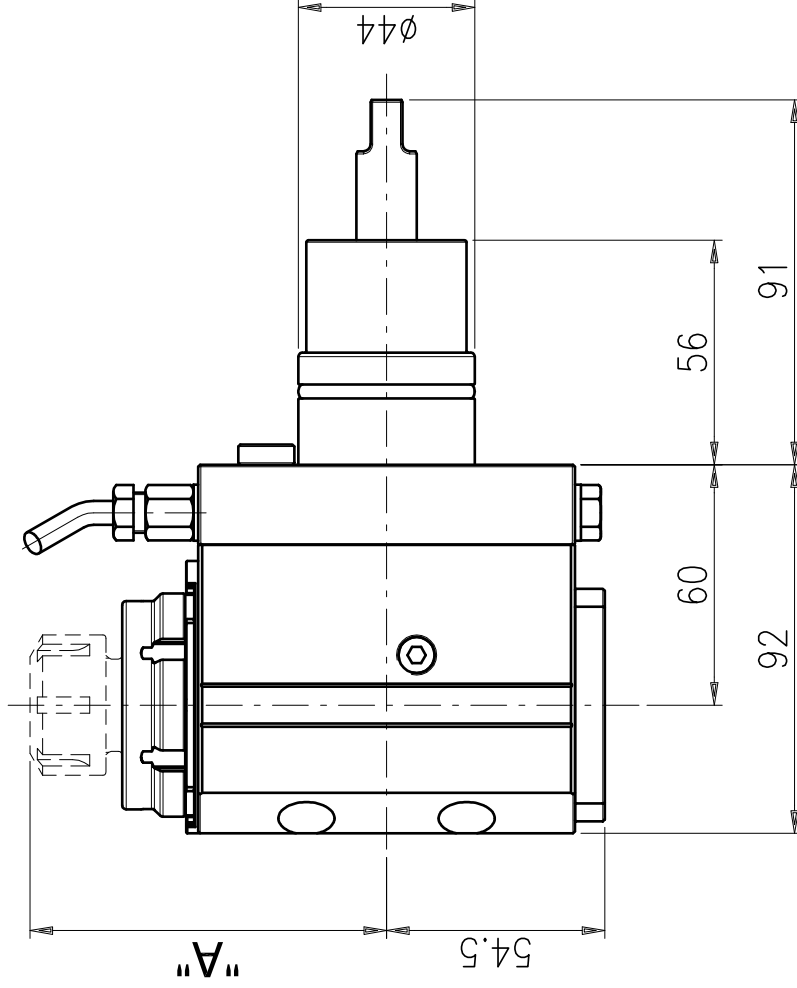
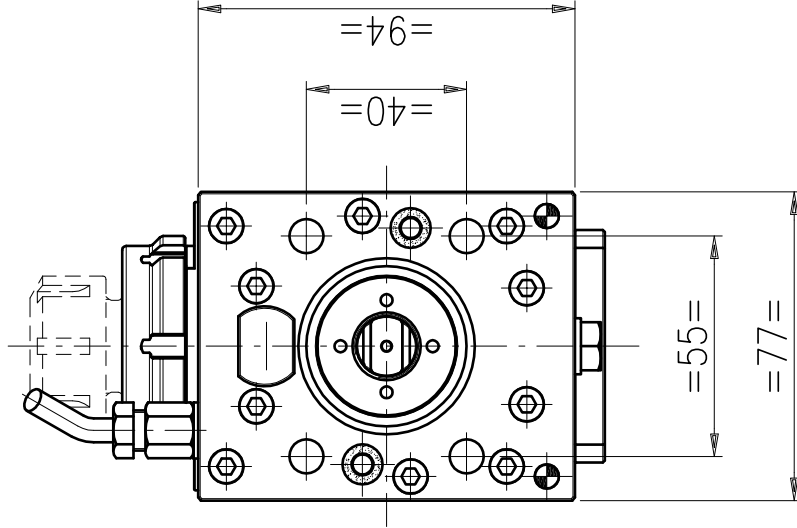
Rt	1:1
RPM max	6.000
Max carico assiale Max axial load Längsbelastung	710 N
Adduzione refrig. interna Internal coolant Ik	Yes
Attacco rapido Quick-change Schnittstelle	A2

Senso di rotazione Direction of rotation Drehrichtung	
---	--

PINZA/COLLET/SPANNZANG "ER-A"		WELDON		DOTAZIONE STANDARD / STANDARD EQUIPMENT	
GRANDEZZA SIZE / GRÖßE	16 20	8 10 12	61 61	Libro istruzioni Instruction book Gebrauchsanweisung	Chiavi di servizio Service key Bedienschlüssel
A	63.1 63.1	61 61	61		

 Teste angolari e motorizzazioni Via GORIZIA, 37 - 21047 SARONNO(VA) e-mail: info@albertiumberto.it http://www.albertiumberto.it Tel. (02) 96703586 (2 linee r.a.) FAX (02) 96703620	NAKAMURA		MOTORIZZATO ASSIALE	
	WT-100 / NTY-3		Axial driven tool Axial werkzeug	
Costruttore/Builder/Hersteller NAKAMURA				
Descrizione/Description/Beschreibung MA-2.5 A2 SMART-CHANGE R.I.70 BAR				
Codice Alberti/Alberti Code / Albertinumnummer ANK.W10.010C.SC				

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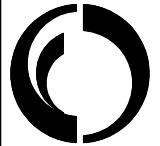


**PRESTAZIONI
Performance
Leistungen**

Rt	1:1
RPM max	6.000
Max carico assiale Max axial load Längsbelastung max.	710 N
Momento torcente Torque Drehmoment	18 Nm
Addeuzione refrig. interna Internal coolant Ik	No
Attacco rapido Quick-change Schnittstelle	A2

DOTAZIONE STANDARD / STANDARD EQUIPMENT

GRANDEZZA SIZE / GRÖßE	16	20	25	32	WELDON		Libro istruzioni Instruction book Gebrauchsanweisung	Chiavi di servizio Service key Bedienschlüssel	
A	84.5	85.5	87.5	98.5	8	10	12	16	
					80.5	80.5	80.5	80.5	



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 Tel. (02) 96703586 (2 linee r.a.) FAX (02) 96703620

Costruttore/Builder/Hersteller

NAKAMURA

Modello/Model

WT-100 / NTY-3

MOTORIZZATO RADIALE

Radial driven tool
Radial werkzeug

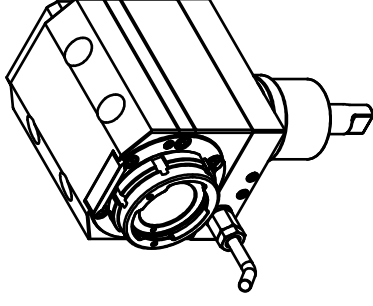
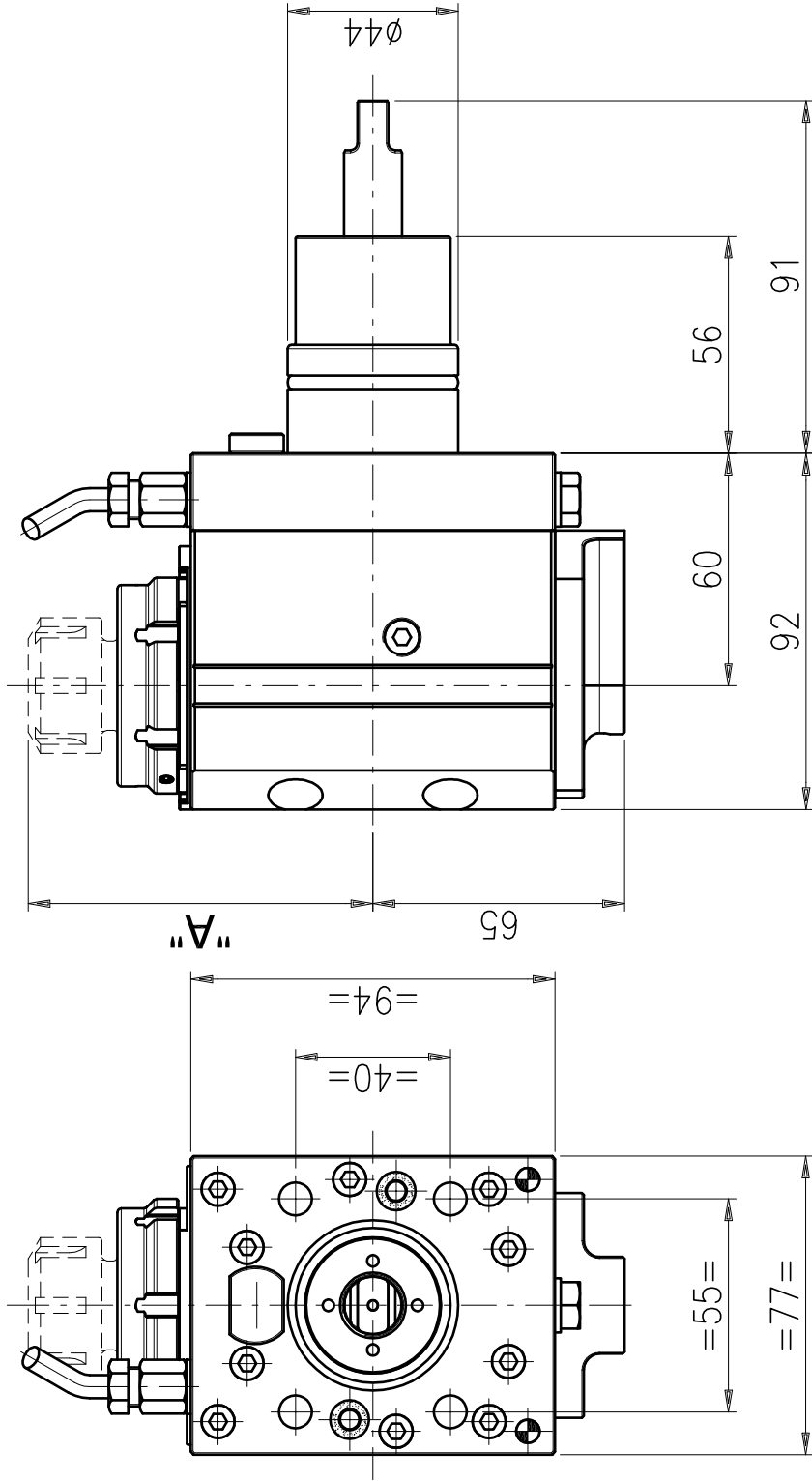
Descrizione/Description/Beschreibung

M90-2.5 A2 SMART-CHANGE

Codice Alberti/Alberti Code / Albertinummer

ANK.W10.0200.SC

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**PRESTAZIONI
Performance
Leistungen**

Rt 1:1

RPM max 6.000

Max carico assiale
Max axial load
Längsbelastung max. 710 N

Momento torcente
Torque
Drehmoment 18 Nm

Adduzione refrig. interna
Internal coolant
Ik Yes

Attacco rapido
Quick-change
Schnittstelle A2

Senso di rotazione
Direction of rotation
Drehrichtung

DOTAZIONE STANDARD / STANDARD EQUIPMENT

Chiavi di servizio
Service key
Bedienschlüssel

Libro istruzioni
Instruction book
Gebrauchsanweisung

WELDON

8	10	12	16
80.5	80.5	80.5	80.5

PINZA/COLLET/SPANNZANG "ER"

16	20	25	32
89.5	90.5	92.5	103.5

MOTORIZZATO RADIALE

Radial driven tool

Radial werkzeug

NAKAMURA

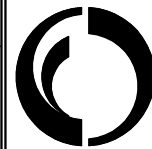
Costruttore/Builder/Hersteller

Modello/Model

WT-100 / NTY-3

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Descrizione/Description/Beschreibung

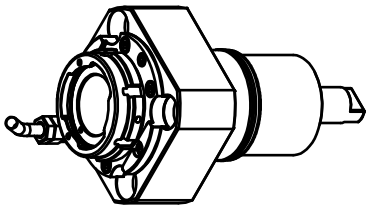
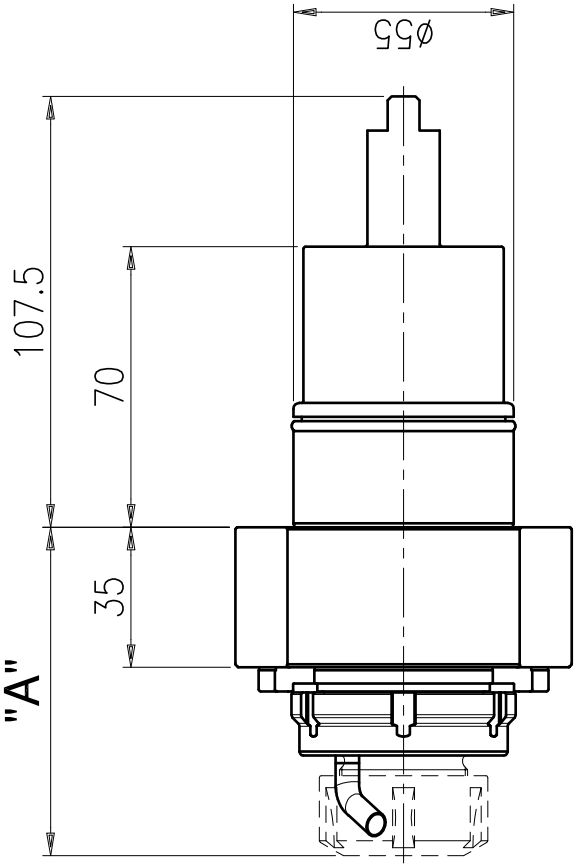
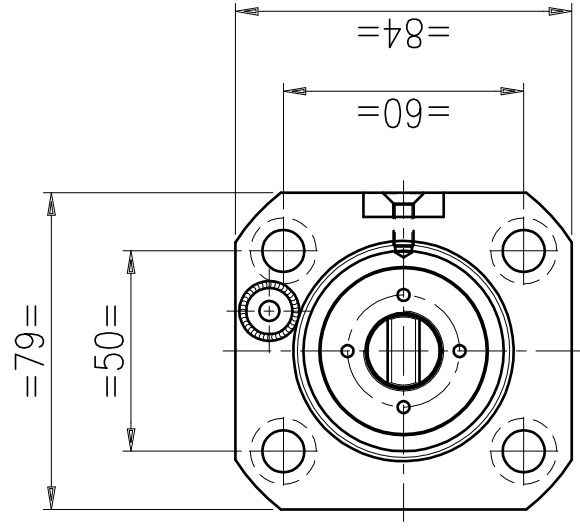
M90-2.5 A2 SMART-CHANGE

R.I.70 BAR

Codice Alberti/Alberti Code / Albertinumnummer

ANK.W10.020C.SC

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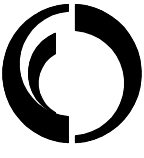
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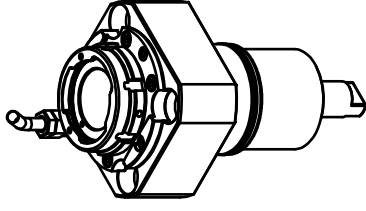
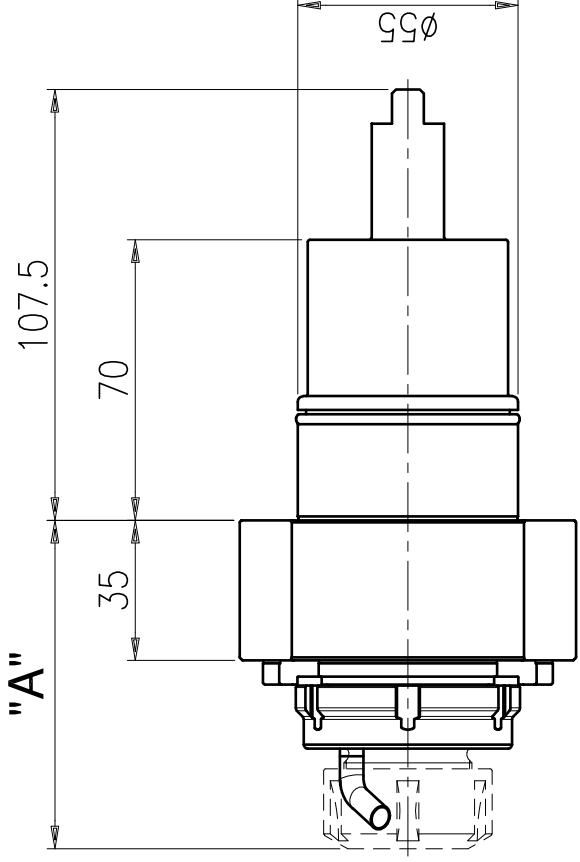
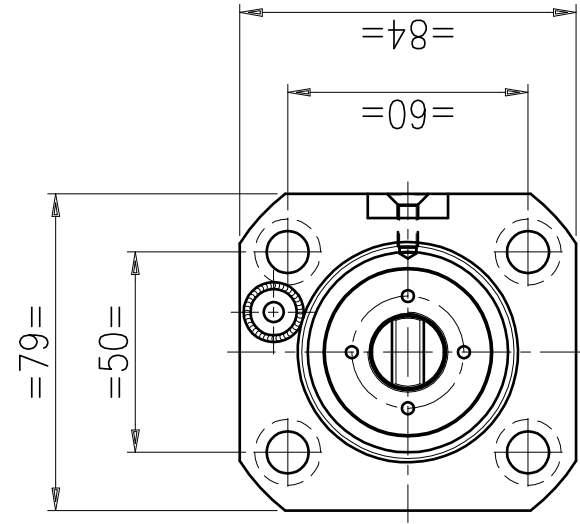
**PRESTAZIONI
Performance
Leistungen**

Rt	1:1
RPM max	6.000
Max carico assiale Max axial load Längsbelastung	700 N
Adduzione refrigerante Internal coolant Ik	No
Attacco rapido Quick-change Schnittstelle	A2

DOTAZIONE STANDARD / STANDARD EQUIPMENT

GRANDEZZA SIZE / GRÖÖE	PINZA/COLLET/SPANNZANG "ER"		WELDON		Libro istruzioni Instruction book Gebrauchsanweisung		Chiavi di servizio Service key Bedienschlüssel	
A	16	20	25	32	8	10	12	16
	75.5	76.5	78.5	89.5	71.5	71.5	71.5	71.5

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	<p>Modello/Model SUPER NTJ / SUPER NTJX / NTM3 / TMC18 TW10 / SC150-250 / WT150 / WT250 / WTW150-WTS150</p>		<p>Codice Alberti/Alberti Code / Albertinummer ANK.W15.0100.SC</p>			



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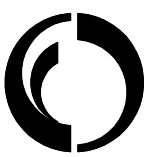
**PRESTAZIONI
Performance
Leistungen**

Rt	1:1
RPM max	6.000
Max carico assiale Max axial load Längsbelastung	700 N
Adduzione refrigerante Internal coolant Ik	Yes
Attacco rapido Quick-change Schnittstelle	A2

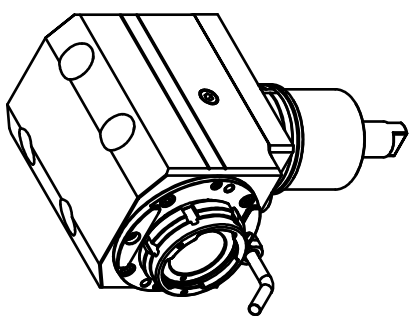
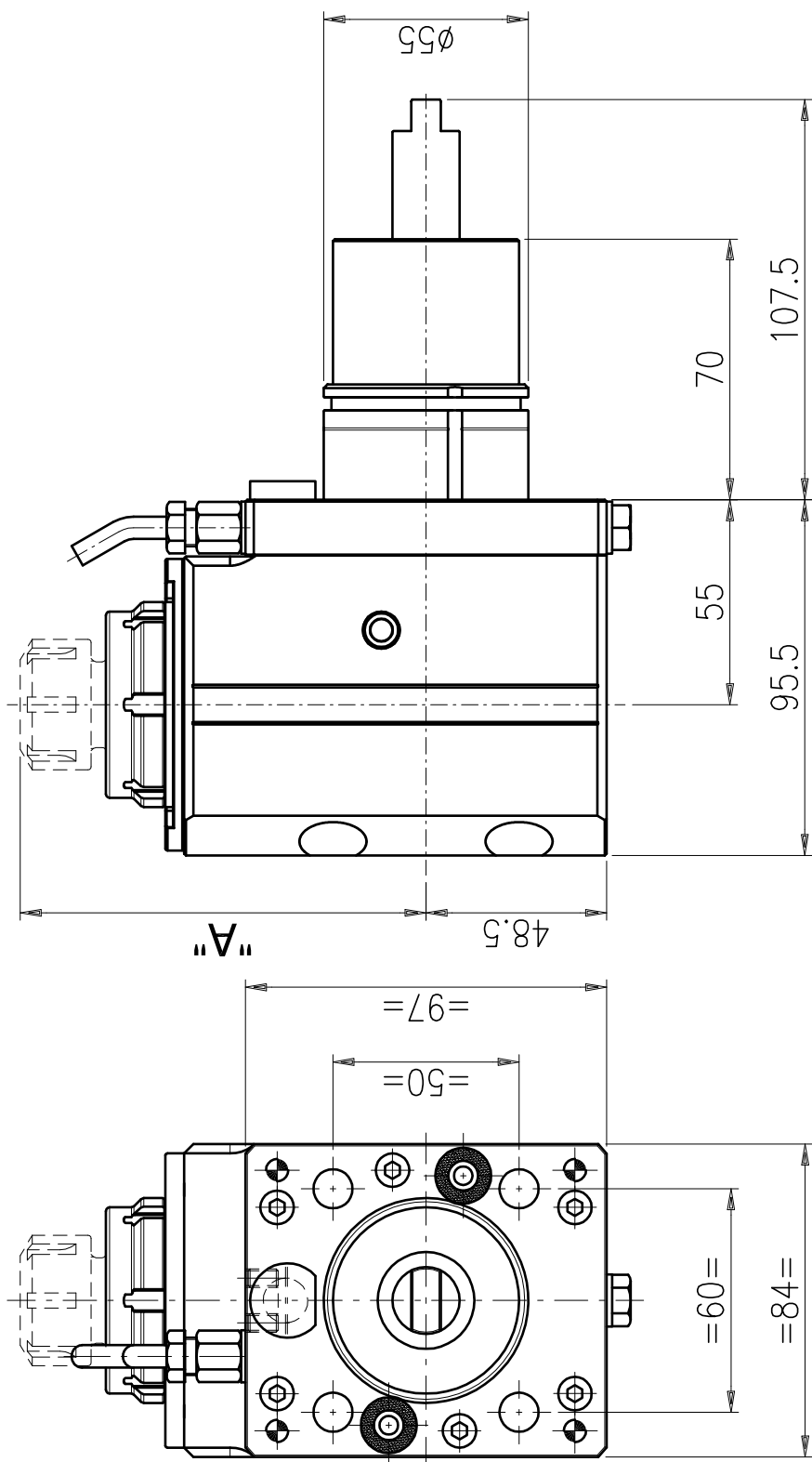
Senso di rotazione Direction of rotation Drehrichtung	IN	OUT
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DOTAZIONE STANDARD / STANDARD EQUIPMENT

GRANDEZZA SIZE / GRÖßE	PINZA/COLLET/SPANNZANG "ER"		WELDON		Libro istruzioni Instruction book Gebrauchsanweisung		Chiavi di servizio Service key Bedienschlüssel				
A	16	20	25	32	8	10	12	16	71.5	71.5	71.5
	80.5	81.5	83.5	94.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5

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	<p>Modello/Model SUPER NTJ / SUPER NTJX / NTM3 / TMC18 TW10 / SC150-250 / WT150 / WT250 / WTW150-WTS150</p>					

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**PRESTAZIONI
Performance
Leistungen**

Rt	1:1
RPM max	6.000
Max carico assiale Max axial load Längsbelastung max.	1250 N
Momento torcente Torque Drehmoment	45 Nm
Adduzione refrig. interna Internal coolant Ik	No
Attacco rapido Quick-change Schnittstelle	A2

Senso di rotazione Direction of rotation Drehrichtung	
---	--

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DOTAZIONE STANDARD / STANDARD EQUIPMENT

GRANDEZZA SIZE / GRÖßE	PINZA/COLLET/SPANNZANG "ER"				WELDON				Libro istruzioni Instruction book Gebrauchsanweisung		Chiavi di servizio Service key Bedienschlüssel	
	16	20	25	32	8	10	12	16				
A	104.5	105.5	107.5	118.5	100.5	100.5	100.5	100.5	100.5			

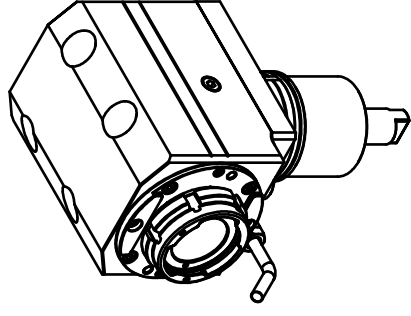
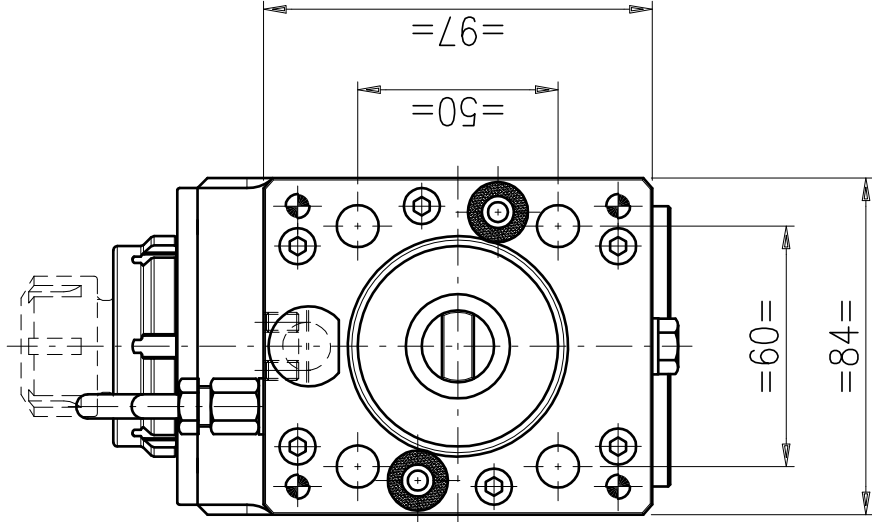
MOTORIZZATO RADIALE
Radial driven tool
Radial werkzeug

NAKAMURA
Costruttore/Builder/Hersteller

Modello/Model
SUPER NTJ / SUPER NTJX / NTM3 / TMC18
TW10 / SC150-250 / WT150 / WT250 / WTW150-WTS150

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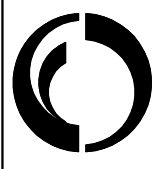
Descrizione/Description/Beschreibung
M90-3.5 A2 SMART-CHANGE
Codice Alberti/Alberti Code / Albertinummer
ANK.W15.0200.SC



**PRESTAZIONI
Performance
Leistungen**

Rt	1:1
RPM max	6.000
Max carico assiale Max axial load Längsbelastung max.	1250 N
Momento torcente Torque Drehmoment	45 Nm
Adduzione refrig. interna Internal coolant Ik	Yes
Attacco rapido Quick-change Schnittstelle	A2

GRANDEZZA SIZE / GRÖÖE		PINZA/COLLET/SPANNZANG "ER"				WELDON				DOTAZIONE STANDARD / STANDARD EQUIPMENT						
A	109.5	16	20	25	32	8	10	12	16	16	100.5	100.5	100.5	100.5	Libro istruzioni Instruction book Gebrauchsanweisung	Chiavi di servizio Service key Bedienschlüssel



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Costruttore/Builder/Hersteller
NAKAMURA
 Modello/Model
 SUPER NTJ / SUPER NTJX / NTM3 / TMC18
 TW10 / SC150-250 / WT150 / WT250 / WTW150-WTS150

MOTORIZZATO RADIALE
 Radial driven tool
 Radial werkzeug

Descrizione/Description/Beschreibung
M90-2.5 A2 SMART-CHANGE
 R.I.70 BAR
 Codice Alberti/Alberti Code / Albertinummer
ANK.W15.020C.SC

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