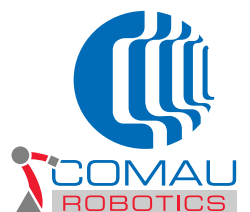




Robot Family



Your robotized solutions





COMAU

Local NO... 100% Arm: 1 Joint Dis ED ABC
Advanced Status Override Auxiliary MOTION
Alarm
Prog
IDE
VO
Appl
More
Login Re-Start Rel. Beta
U1
U2
U3
U4
Drive
Reset
More

Incremental Jog
Enable
Linear 0.0 [mm]
Angular 0.0 [°]
J-Pad type: Linear
Angular
Angle 0.0 [°]

HELP

COORD

STEP

BACK

START

ENTER

ESC

MOD

+

HOLD

REC

-

WITP

+ 1X -

+ 2Y -

+ 3Z -

- 4X +

- 5Y +

- 6Z +

AUX A

+ -

AUX B

+ -

1 ABC

2 DEF

3

4 GHI

5 JKL

6 MNO

7 PQRS

8 TUV

9 WXYZ

- 0

↑

↓

C



Wireless Technology at Your Hands

WiTP: Wireless Teach Pendant



C4G

- DIGITAL SERVO AMPLIFIER FOR CONTROL OF 600 V MOTORS
- HIGH RESOLUTION POSITION TRANSDUCERS
- AVAILABLE INTERFACES: DEVICENET, PROFIBUS-DP, INTERBUS-S WIRE, INTERBUS-S OPC OPTIC FIBRE, ETHERNET, USB, RS422
- REMOTE ACCESS
- PDL2 ROBOT PROGRAMMING LANGUAGE

Freedom

The WiTP (Wireless Teach Pendant) communicates with the C4G Robot Controller without a cable connection

Security

The safe connection procedure "Pairing - Un-Pairing" can be carried out on every C4G, using one teach pendant for many control units.

Communication

With the WiTP Technology it is possible to send and receive data from other Wi-Fi sources, even while programming.



WiTP

- USER FRIENDLY WINDOWS-LIKE OPERATOR INTERFACE
- TFT 6.4" DISPLAY WITH 4096 COLOURS
- SUITABLE FOR RIGHT-HAND AND LEFT HAND USE
- USB PORT FOR "DISK-ON-KEY" BACK-UP UNIT
- JPAD KEYS, THE INTUITIVE ROBOT JOGGING INTERFACE

WiTP

Wireless technology

IEEE802.11a/g

Communication protocol as per EN61508

Property of Comau

Safety certification

EN954-1 category 4

Safe connection to C4G procedure

Pairing / UnPairing - Comau Patent Pending

Range of action in industrial environment

Up to 100 metres

Autonomy

1 Working shift

Recharging Time

1.5 hours

Control Electronics

Intel-Inside

C4G

Hardware architecture

Pc based Robot Processing Unit

User Memory

16 MB

Controlled axis

10 max (20 with additional C4G Power)

Power supply

400Vac - 15% ÷ 480Vac + 10%

Frequency

48 ÷ 62 Hz

Working temperature range

5° C ÷ 45° C (55° C with conditioner)

Protection class

P54/NEMA 12 (cabinet) IP 2x (ventilation)

Total power installed

3KVA/6 A ÷ 12 KVA/22 A



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Telefax +91-20-56002865



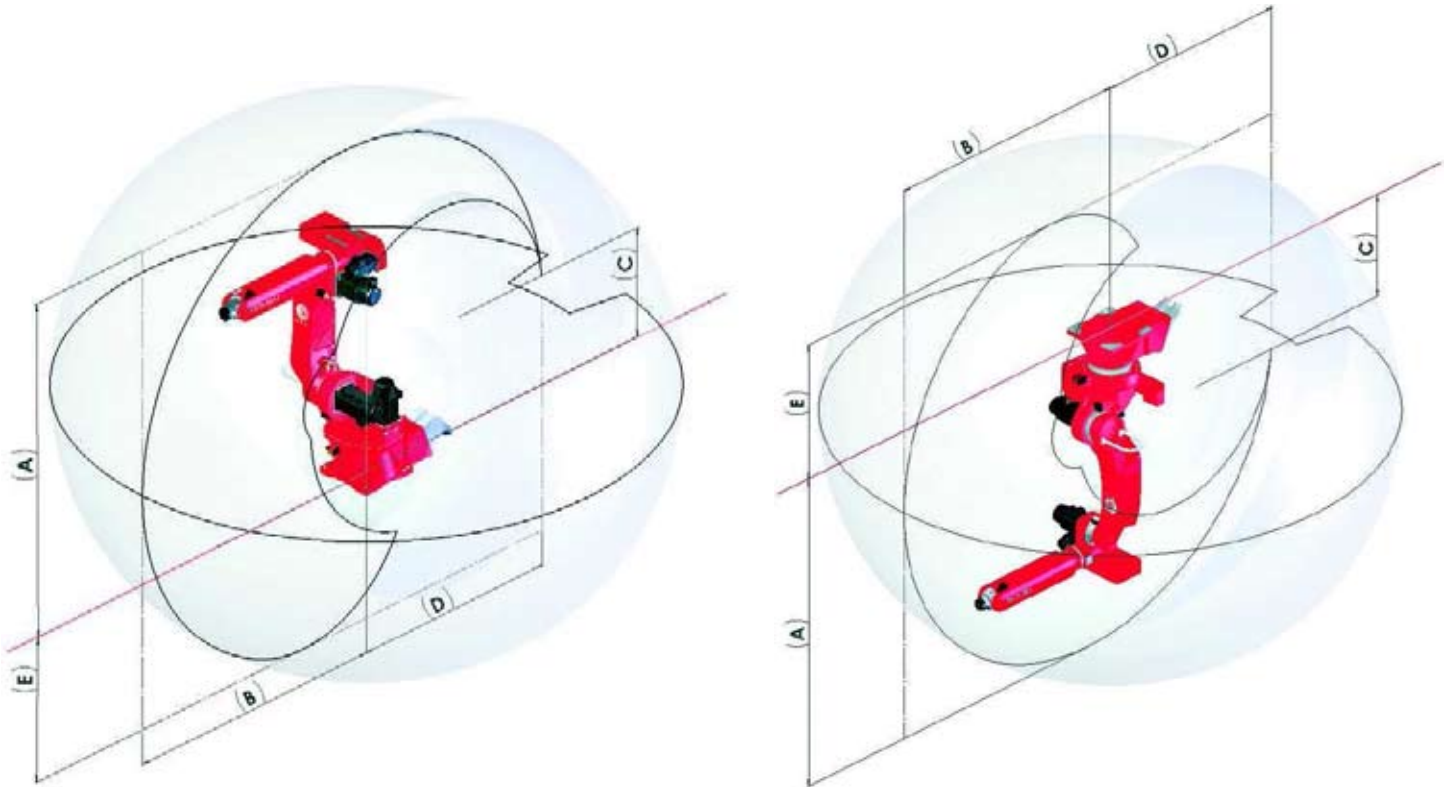
Smart SiX



Payload up to
6 Kg ■

Maximum horizontal reach
1.400 mm ■

Repeatability
0,05 mm ■

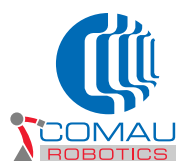


- Arc Welding
- Assembly
- Dispensing
- Foundry
- Handling Packaging
- Machine Tending
- Measuring Testing
- Polishing Deburring

ROBOT APPLICATIONS

Model	SiX 6-1.4	SiX 6-1.4 ARC		
Number of axes	6	6		
Load at wrist (Kg)	6	6		
Additional load on forearm (Kg)	10	10		
Torque of axes (Nm)	4	11,7		
	5	11,7		
	6	5,8		
Axes stroke (Speed)	1	+/- 170° (140°/s)	+/- 170° (140°/s)	
	2	+155°-85° (160°/s)	+155°-85° (160°/s)	
	3	0°-170° (170°/s)	0°-170° (170°/s)	
	4	+/- 210° (450°/s)	+/- 210° (450°/s)	
	5	+/- 130° (375°/s)	+/- 130° (375°/s)	
	6	+/- 2.700° (550°/s)	+/- 2.700° (550°/s)	
Repeatability ISO 9283 (mm)	0,05	0,05		
Maximum horizontal reach (mm)	1.400	1.400		
Installation position (Titled 45° max)	Floor/Ceiling/Titled	Floor/Ceiling/Titled		
Protection Class	IP65	IP65		
Operating Areas (mm)	A	1.700	1.700	
	B	1.400	1.400	
	C	428	428	
	D	1.095	1.095	
	E	745	745	
Foundry version	Available	Not Available		

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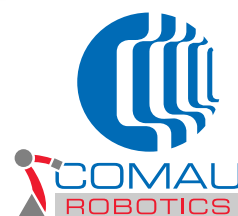


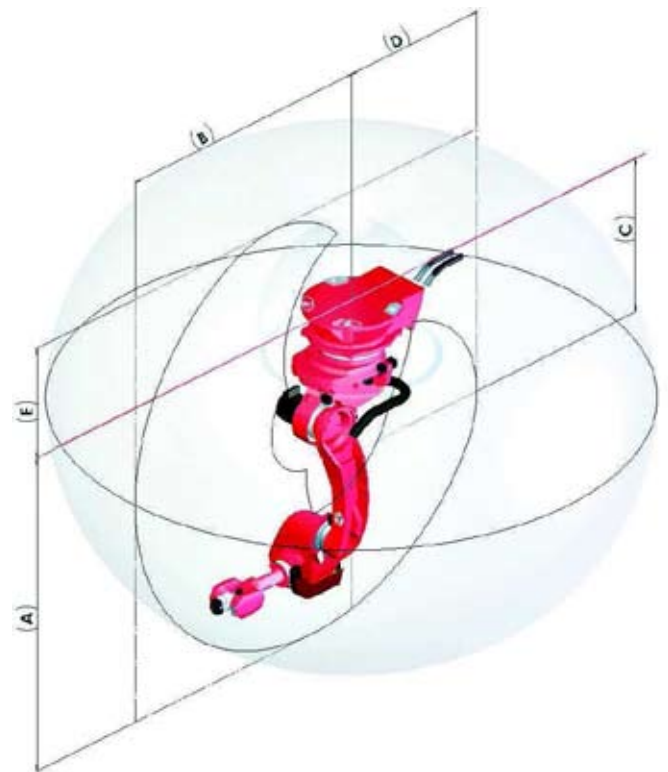
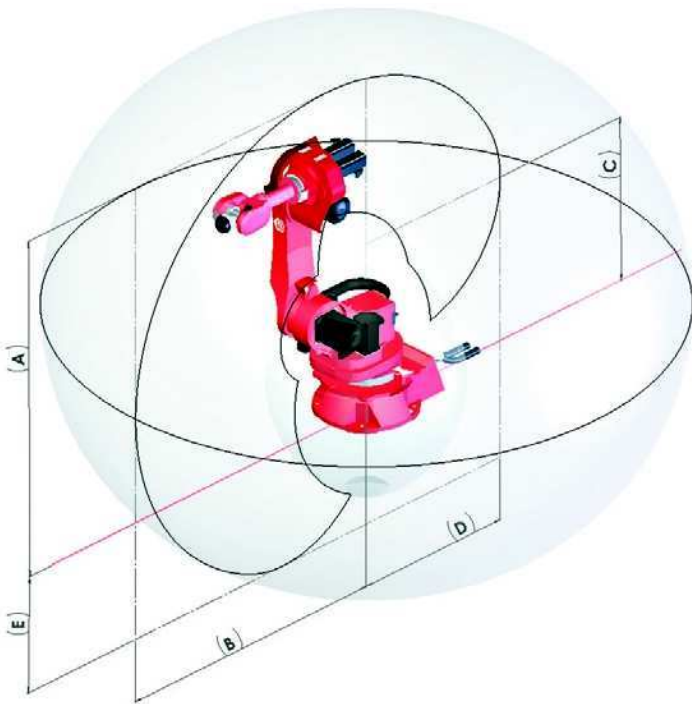
Smart NS

Payload up to
16 Kg ■

Maximum horizontal reach
1.850 mm ■

Repeatability
0,05 mm ■



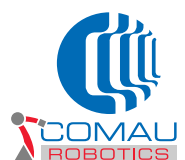


- Arc Welding
- Assembly
- Cosmeting Sealing
- Dispensing
- Foundry
- Handling Packaging
- Laser Welding Cutting
- Machine Tending
- Measuring Testing
- Plasma Cutting Water Jet
- Polishing Deburring
- Press Brake Bending
- Processing Machining
- Wood-Glass Machining

ROBOT APPLICATIONS

Model	NS 16-1.65 HAND	NS 16-1.65 ARC	NS 12-1.85 HAND	NS 12-1.85 ARC
Number of axes	6	6	6	6
Load at wrist (Kg)	16	16	12	12
Additional load on forearm (Kg)	10	10	10	10
Torque of axes (Nm)				
4	41	41	39	39
5	41	41	39	39
6	23	23	20	20
Axes stroke (Speed)				
1	+/- 180° (155°/s)	+/- 180° (155°/s)	+/- 180° (155°/s)	+/- 180° (155°/s)
2	+155°-60° (155°/s)	+155°-60° (155°/s)	+155°-60° (155°/s)	+155°-60° (155°/s)
3	+110°-170° (170°/s)	+110°-170° (170°/s)	+110°-170° (170°/s)	+110°-170° (170°/s)
4	+/- 2.700° (360°/s)	+/- 2.700° (360°/s)	+/- 2.700° (360°/s)	+/- 2.700° (360°/s)
5	+/- 125° (350°/s)	+/- 125° (350°/s)	+/- 125° (350°/s)	+/- 125° (350°/s)
6	+/- 2.700° (550°/s)	+/- 2.700° (550°/s)	+/- 2.700° (550°/s)	+/- 2.700° (550°/s)
Repeatability ISO 9283 (mm)	0,05	0,05	0,05	0,05
Maximum horizontal reach (mm)	1.650	1.650	1.850	1.850
Installation position (Tilted 45° max)	Floor/Ceiling/Tilted	Floor/Ceiling/Tilted	Floor/Ceiling/Tilted	Floor/Ceiling/Tilted
Protection Class	IP65/IP67 wrist	IP65/IP67 wrist	IP65/IP67 wrist	IP65/IP67 wrist
Operating Areas (mm)				
A	1.951	1.951	2.150	2.150
B	1.651	1.651	1.850	1.850
C	950	950	950	950
D	957	957	1.157	1.157
E	685	685	885	885
Foundry version	Available	Not Available	Available	Not Available

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Smart NM In-line



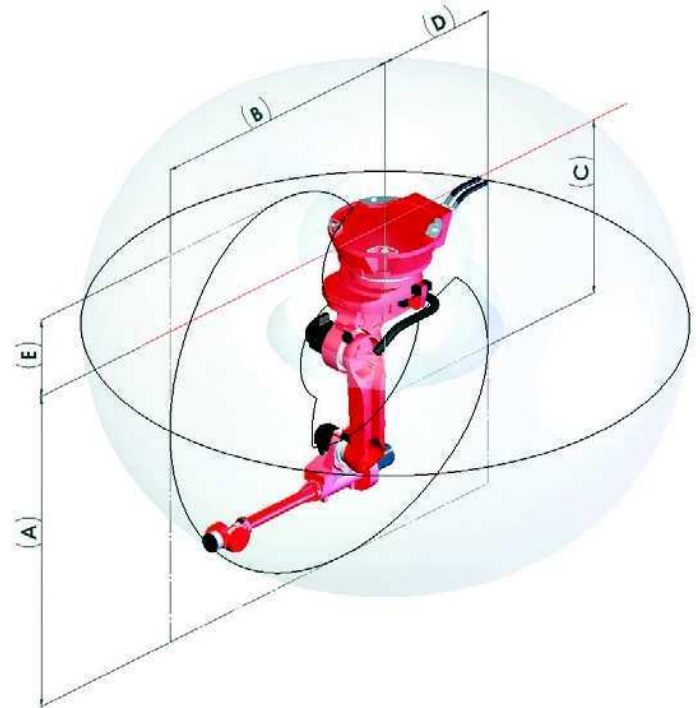
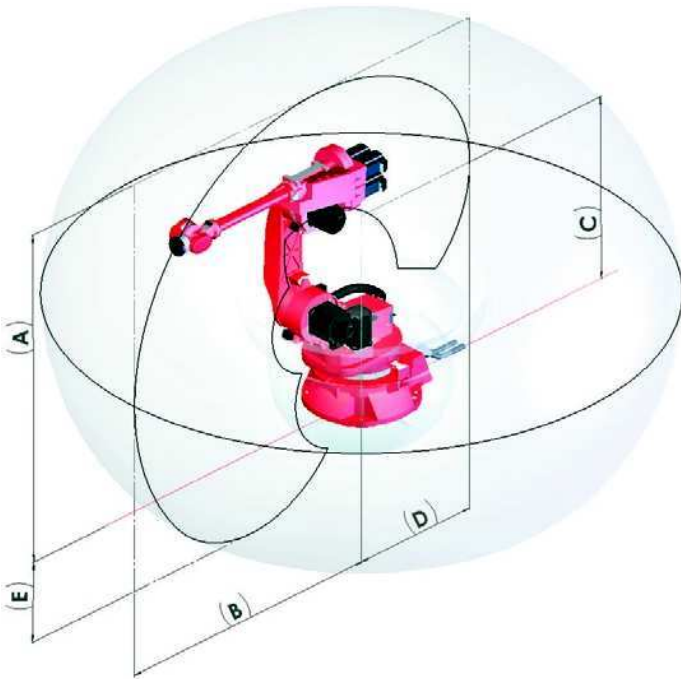
Payload up to
45 Kg ■

Maximum horizontal reach
3.100 mm ■

Repeatability
0,06 mm ■



In-line Wrist



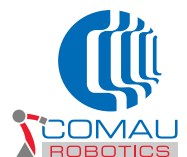
- Arc Welding
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- Cosmeting Sealing
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- Measuring Testing
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- Press to Press
- Processing Machining
- Wood-Glass Machining

ROBOT APPLICATIONS

Model	NM 45-2.0 In-line	NM 25-2.2 In-line	NM 16-3.1 In-line	
Number of axes	6	6	6	
Load at wrist (Kg)	45	25	16	
Additional load on forearm (Kg)	40	40	40	
Torque of axes (Nm)	4	177	41	
	5	177	41	
	6	118	23	
Axes stroke (Speed)	1	+/- 180° (160°/s)	+/- 180° (160°/s)	+/- 180° (120°/s)
	2	+130°-53° (150°/s)	+130°-53° (150°/s)	+130°-53° (100°/s)
	3	+110°-170° (160°/s)	+110°-170° (160°/s)	+110°-170° (100°/s)
	4	+/- 2.700° (250°/s)	+/- 2.700° (250°/s)	+/- 2.700° (300°/s)
	5	+/- 123° (250°/s)	+/- 123° (250°/s)	+/- 125° (250°/s)
	6	+/- 2.700° (340°/s)	+/- 2.700° (340°/s)	+/- 2.700° (340°/s)
Repeatability ISO 9283 (mm)	0,06	0,06	0,1	
Maximum horizontal reach (mm)	2.000	2.241	3.100	
Installation position (Titled 45° max)	Floor/Ceiling/Titled	Floor/Ceiling/Titled	Floor/Ceiling/Titled	
Protection Class	IP65/IP67 wrist	IP65/IP67 wrist	IP65/IP67 wrist	
Operating Areas (mm)	A	2.350	2.591	3.450
	B	2.000	2.241	3.100
	C	1.307	1.307	1.350
	D	952	1.193	2.068
	E	582	823	1.539
Foundry version	Available	Available	Available	

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Smart NM

Off-set



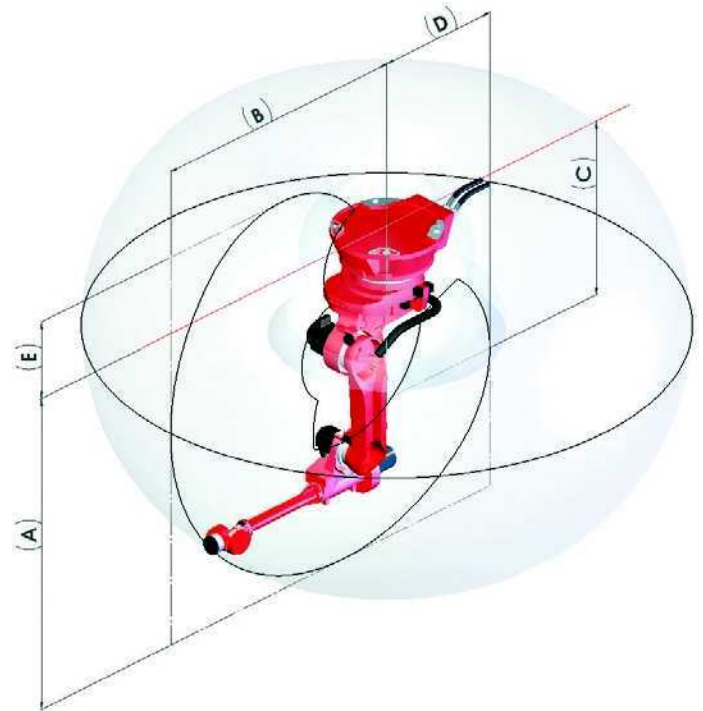
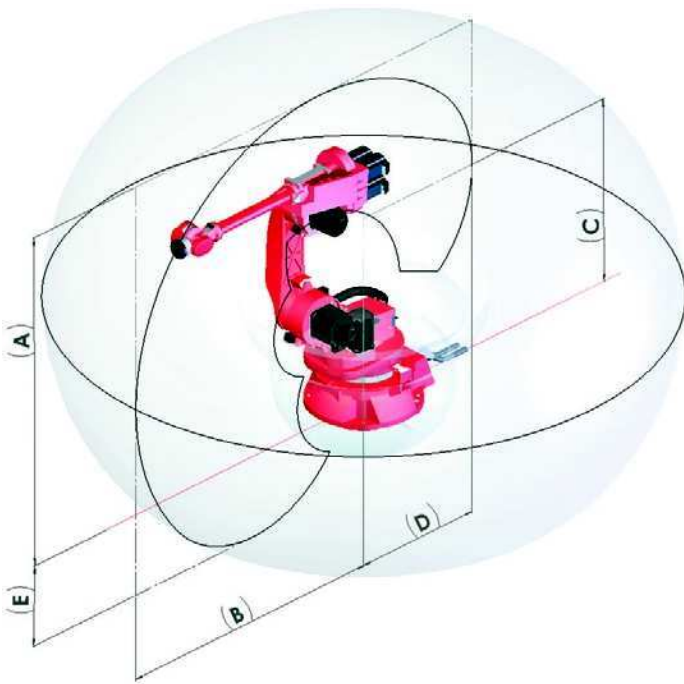
Payload up to
45 Kg ■

Maximum horizontal reach
2.241 mm ■

Repeatability
0,06 mm ■



Off-set Wrist



- Arc Welding
- Assembly
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- Press to Press
- Processing Machining
- Wood-Glass Machining

ROBOT APPLICATIONS

Model		NM 45-2.0 Off-set	NM 25-2.2 Off-set		
Number of axes		6	6		
Load at wrist (Kg)		45	25		
Additional load on forearm (Kg)		40	40		
Torque of axes (Nm)	4	177	177		
	5	177	177		
	6	98	98		
Axes stroke (Speed)	1	+/- 180° (160°/s)	+/- 180° (160°/s)		
	2	+130°-53° (150°/s)	+130°-53° (150°/s)		
	3	+110°-170° (160°/s)	+110°-170° (160°/s)		
	4	+/- 2.700° (250°/s)	+/- 2.700° (250°/s)		
	5	+/- 2.700° (250°/s)	+/- 2.700° (250°/s)		
	6	+/- 2.700° (340°/s)	+/- 2.700° (340°/s)		
Repeatability ISO 9283 (mm)		0,06	0,06		
Maximum horizontal reach (mm)		2.000	2.241		
Installation position (Titled 45° max)		Floor/Ceiling/Titled	Floor/Ceiling/Titled		
Protection Class		IP65/IP67 wrist	IP65/IP67 wrist		
Operating Areas (mm)	A	2.350	2.591		
	B	2.000	2.241		
	C	1.307	1.307		
	D	952	1.193		
	E	582	823		
Foundry version		Available	Available		

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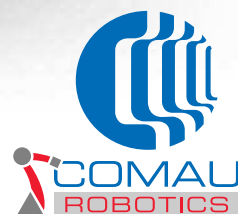
Smart NHi

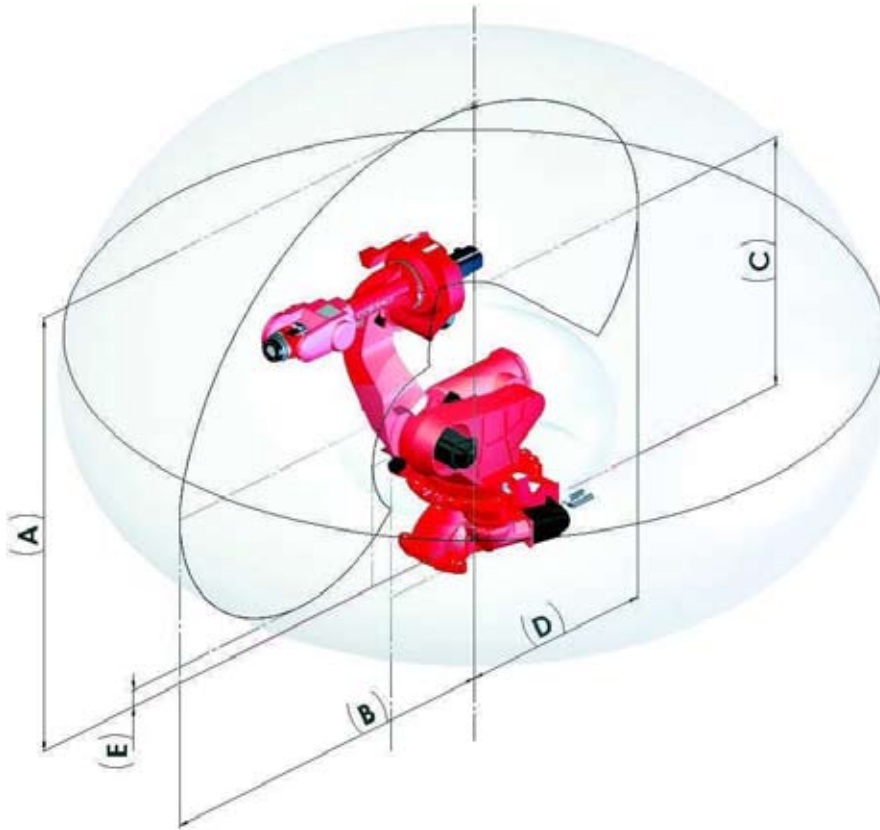


Payload up to
130 Kg ■

Maximum horizontal reach
3.000 mm ■

Repeatability
0,07 mm ■



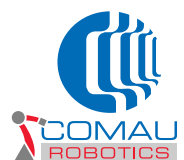


- Assembly
- Cosmeting Sealing
- Dispensing
- Foundry
- Handling Packaging
- Laser Welding Cutting
- Machine Tending
- Measuring Testing
- Plasma Cutting Water Jet
- Polishing Deburring
- Press Brake Bending
- Press to Press
- Processing Machining
- Spot Welding
- Wood-Glass Machining

ROBOT APPLICATIONS

Model	NH1 130-2.6	NH1 130-3.0		
Number of axes	6	6		
Load at wrist (Kg)	130	130		
Additional load on forearm (Kg)	50	50		
Torque of axes (Nm)	4	638		
	5	638		
	6	314		
Axes stroke (Speed)	1	+/- 180° (108°/s)	+/- 180° (108°/s)	
	2	+75°-55° (104°/s)	+75°-55° (104°/s)	
	3	+110°-170° (110°/s)	+110°-170° (110°/s)	
	4	+/- 280° (190°/s)	+/- 280° (190°/s)	
	5	+/- 120° (190°/s)	+/- 120° (190°/s)	
	6	+/- 2.700° (230°/s)	+/- 2.700° (230°/s)	
Repeatability ISO 9283 (mm)	0,07	0,07		
Maximum horizontal reach (mm)	2.620	3.000		
Installation position	Floor	Floor		
Protection Class	IP65	IP65		
Operating Areas (mm)	A	3.154	3.553	
	B	2.621	3.000	
	C	1.857	1.857	
	D	1.445	1.824	
	E	145	524	
Foundry version	Available	Available		

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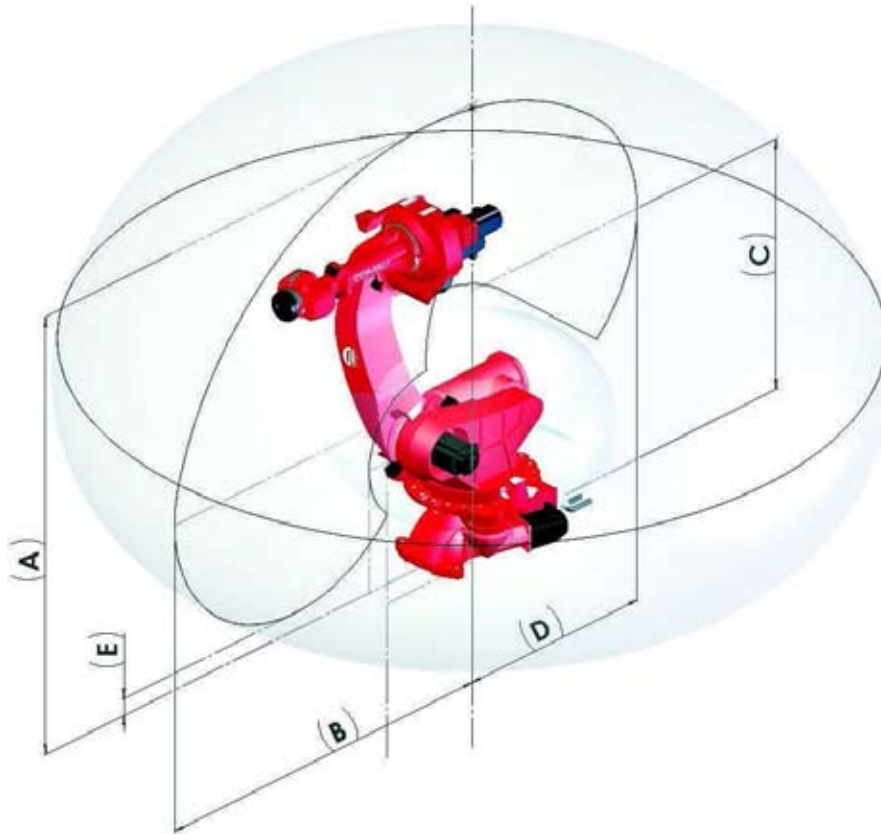
Smart NH2



Payload up to
165 Kg ■

Maximum horizontal reach
2.650 mm ■

Repeatability
0,09 mm ■

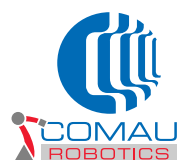


- Assembly
- Cosmeting Sealing
- Dispensing
- Foundry
- Handling Packaging
- Laser Welding Cutting
- Measuring Testing
- Machine Tending
- Plasma Cutting Water Jet
- Polishing Deburring
- Press Brake Bending
- Press to Press
- Processing Machining
- Spot Welding
- Wood-Glass Machining

ROBOT APPLICATIONS

Model	NH2 165-2.5				
Number of axes	6				
Load at wrist (Kg)	165				
Additional load on forearm (Kg)	50				
Torque of axes (Nm)	4	932			
	5	932			
Axes stroke (Speed)	6	618			
	1	+/- 180° (108°/s)			
	2	+75°-55° (104°/s)			
	3	+110°-170° (110°/s)			
	4	+/- 2.700° (155°/s)			
	5	+/- 125° (140°/s)			
Repeatability ISO 9283 (mm)	0,09				
Maximum horizontal reach (mm)	2.650				
Installation position	Floor				
Protection Class	IP65/IP67 wrist				
Operating Areas (mm)	A	3.183			
	B	2.650			
	C	1.686			
	D	1.474			
	E	174			
Foundry version	Available				

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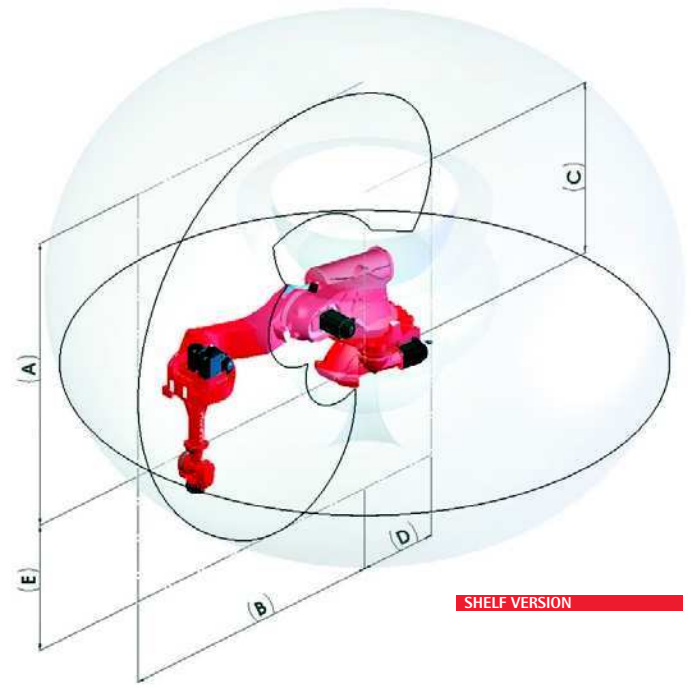
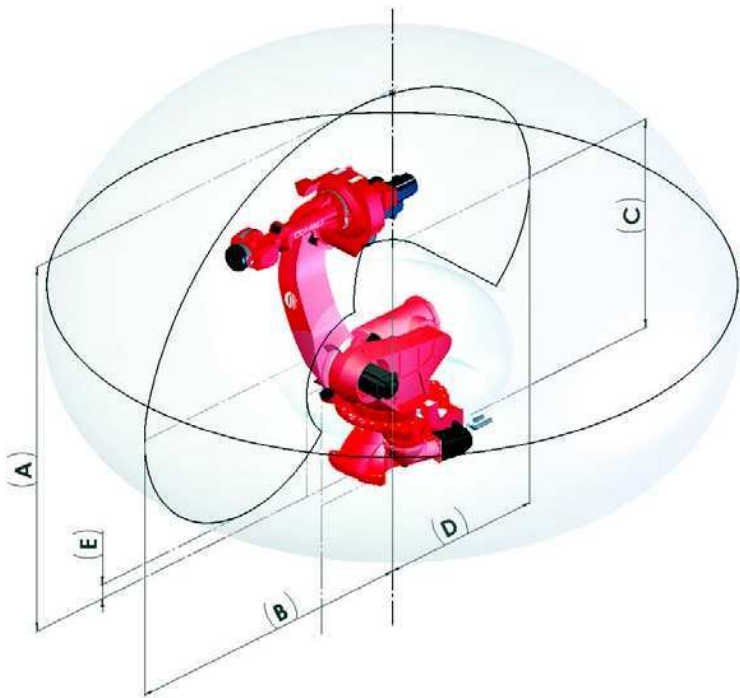
Smart NH3



Payload up to
220 Kg ■

Maximum horizontal reach
3.443 mm ■

Repeatability
0,09 mm ■



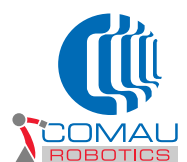
SHelf VERSION

- Assembly
- Cosmeting Sealing
- Dispensing
- Foundry
- Handling Packaging
- Laser Welding Cutting
- Measuring Testing
- Machine Tending
- Plasma Cutting Water Jet
- Polishing Deburring
- Press Brake Bending
- Press to Press
- Processing Machining
- Spot Welding
- Wood-Glass Machining

ROBOT APPLICATIONS

Model	NH3 220-2.7	NH3 165-3.0	NH3 210-3.1/SH - Shelf	NH3 160-3.4/SH - Shelf
Number of axes	6	6	6	6
Load at wrist (Kg)	220	165	210	160
Additional load on forearm (Kg)	50	50	50	50
Torque of axes (Nm)	4	1.325	1.236	981
	5	1.325	1.236	981
	6	785	785	736
Axes stroke (Speed)	1	+/- 180° (85°/s)	+/- 180° (85°/s)	+/- 180° (85°/s)
	2	+75°-60° (90°/s)	+75°-60° (90°/s)	+160°-30° (75°/s)
	3	+110°-170° (90°/s)	+110°-170° (90°/s)	+110°-170° (90°/s)
	4	+/- 2.700° (150°/s)	+/- 2.700° (150°/s)	+/- 2.700° (150°/s)
	5	+/- 125° (135°/s)	+/- 125° (135°/s)	+/- 125° (135°/s)
	6	+/- 2.700° (200°/s)	+/- 2.700° (200°/s)	+/- 2.700° (200°/s)
Repeatability ISO 9283 (mm)	0,09	0,09	0,15	0,15
Maximum horizontal reach (mm)	2.700	3.000	3.150	3.443
Installation position	Floor	Floor	Floor/Shelf	Floor/Shelf
Protection Class	IP65/IP67 wrist	IP65/IP67 wrist	IP65/IP67 wrist	IP65/IP67 wrist
Operating Areas (mm)	A	3.250	3.543	3.200
	B	2.707	3.000	3.150
	C	1.857	1.857	1.932
	D	1.503	1.796	925
	E	123	169	1.425
Foundry version	Available	Available	Available	Available

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Smart NH4



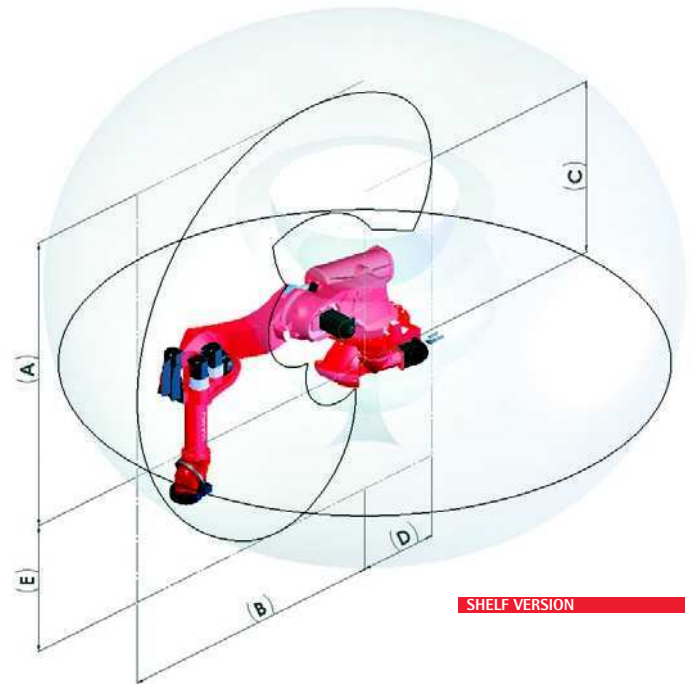
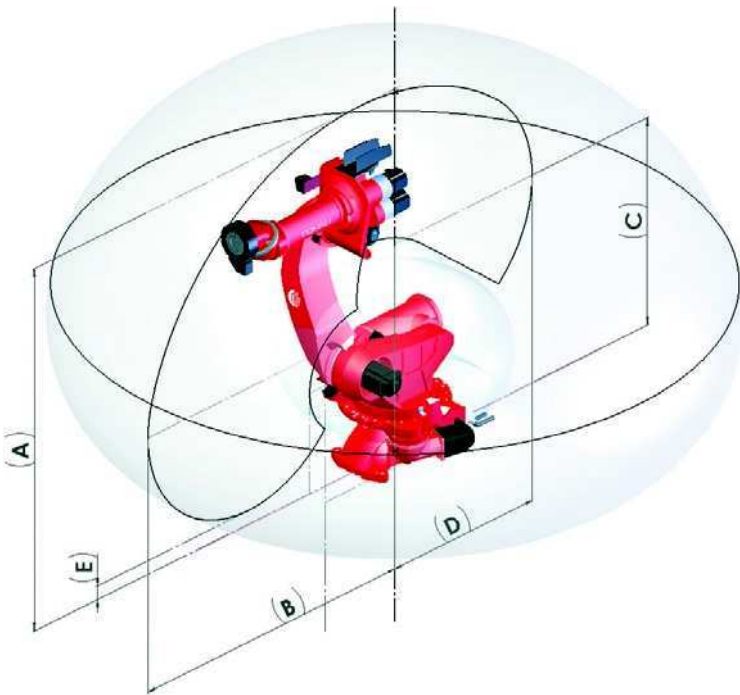
Payload up to
200 Kg ■

Maximum horizontal reach
3.150 mm ■

Repeatability
0,1 mm ■



Hollow Wrist



SHELF VERSION

- Handling
- Packaging
- Spot Welding

ROBOT APPLICATIONS

Model	NH4 200-2.7	NH4 165-3.0	NH4 200-3.1/SH - Shelf		
Number of axes	6	6	6		
Load at wrist (Kg)	200	165	200		
Additional load on forearm (Kg)	50	50	50		
Torque of axes (Nm)	4	981	981		
	5	981	981		
	6	687	687		
	1	+/- 180° (85°/s)	+/- 180° (85°/s)	+/- 180° (85°/s)	
Axes stroke (Speed)	2	+75°-60° (90°/s)	+75°-60° (90°/s)	+160°-30° (78°/s)	
	3	+110°-170° (90°/s)	+110°-170° (90°/s)	+110°-170° (90°/s)	
	4	+/- 200° (143°/s)	+/- 200° (143°/s)	+/- 200° (143°/s)	
	5	+/- 200° (143°/s)	+/- 200° (143°/s)	+/- 200° (143°/s)	
	6	+/- 200° (205°/s)	+/- 200° (205°/s)	+/- 200° (205°/s)	
	Repeatability ISO 9283 (mm)	0,1	0,15	0,15	
Maximum horizontal reach (mm)	2.700	3.000	3.150		
Installation position	Floor	Floor	Floor/Shelf		
Protection Class	IP65	IP65	IP65		
Operating Areas (mm)	A	3.250	3.543	3.200	
	B	2.707	3.000	3.150	
	C	1.857	1.857	1.932	
	D	1.503	1.796	925	
	E	123	169	1.425	
Foundry version	Not Available	Not Available	Not Available		

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