



PAMEC
Concrete pumping & placing systems

CONCRETE PLACEMENT BOOM

DL 12C - 55M

Technical Data

PAMEC S.r.l. - 66054 VASTO - Italia - Z.I. Punta Penna
Tel.: +39.0873.310000 - Fax: +39.0873.311787 - E-mail: info@pamec.com



The concrete placement boom P-**DL 12 C** is made up of the following parts:

- **Base unit**

The base unit is made of a robust metal structure complete with telescopic jack arms fitted with outriggers which can be adjusted vertically to allow for a perfectly horizontal disposition of the base unit itself.

A thrust bearing is fitted to the upper part of the base unit to enable the rotation of the boom. The base unit is also fitted, on request, with four wheels so that the equipment can be moved when not in operation and with the boom in the closed position.

- **Pipe support boom**

The boom is made up of two arms: the first section is mounted on a thrust-bearing, while the second section, as part of the delivery line, is structurally supported by a steel tie.

The counterweight support is attached to the other end of the boom.

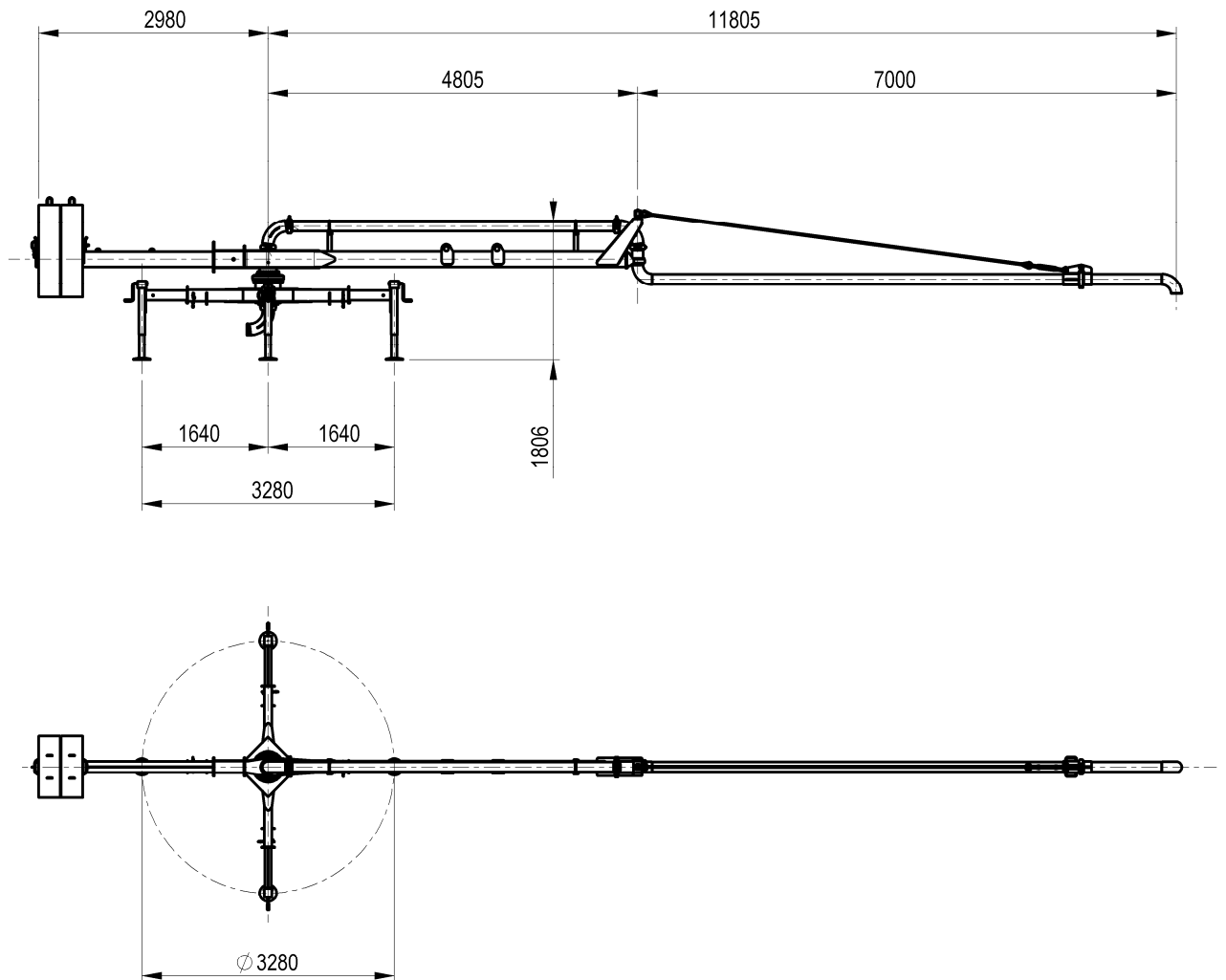
- **Piping**

The **DL 12 C** Distributor can be fitted with pipes with a thickness of 4mm DN 100 (collars Ø 114-127) and DN 125 (collars Ø 141-148).



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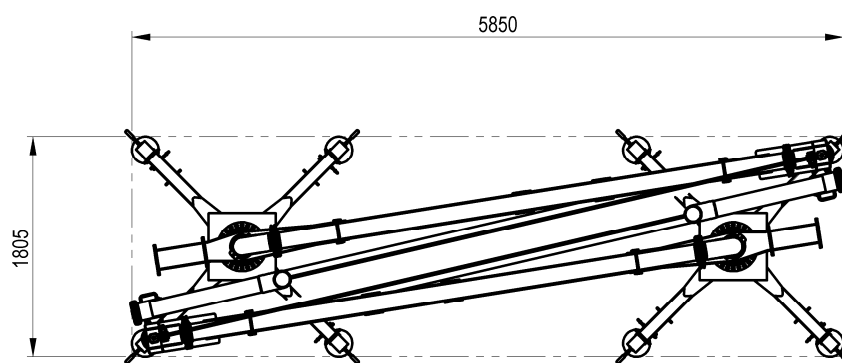
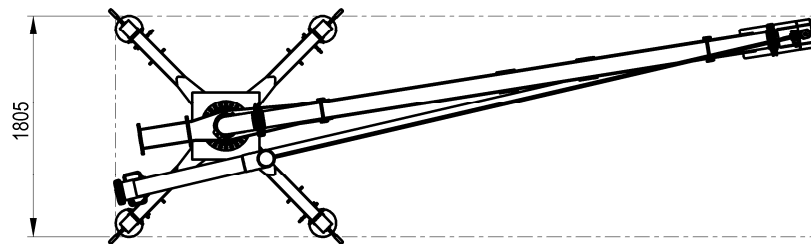
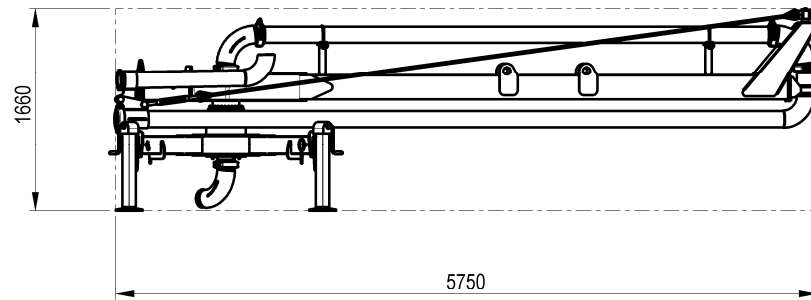
Overall drawing





1

Overall drawing





2

Technical data

Weight and loads

Weight of complete boom	1100 daN
Counterweight	1200 daN
Total weight	2300 daN
Total weight at each jack arm	1400 daN



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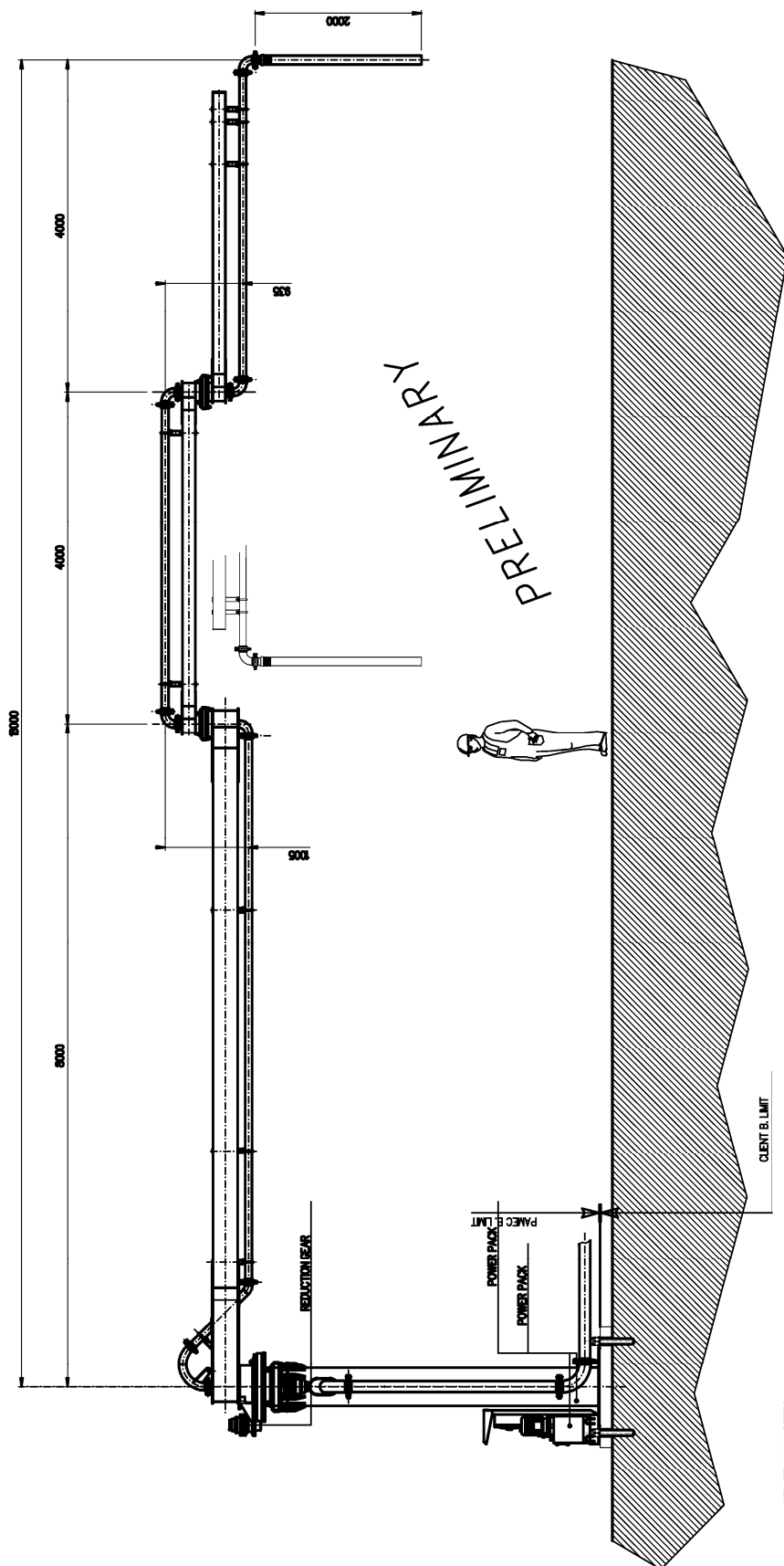
CONCRETE PLACEMENT BOOM
DR 16B - 34M

Technical Data

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1.1 Overall drawing



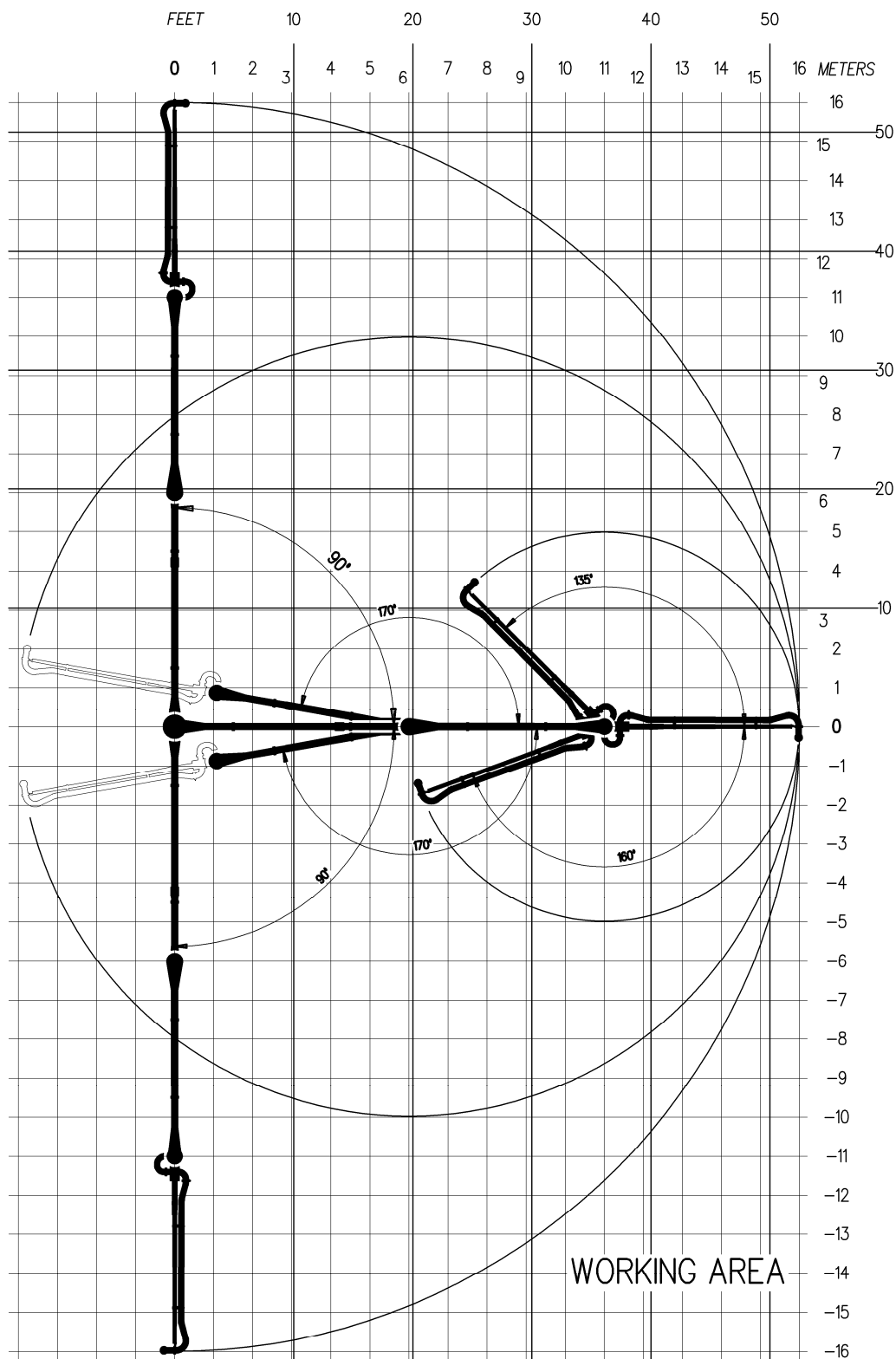
GENERAL NOTES

- "PAMEC" RESPONSIBILITY IS LIMITED TO FLANGE BATTERY LIMIT
- ALL GIVEN LOADS HAVE TO BE CONSIDERED ACTING ON ALL POSSIBLE POSITION FROM -90° TO 90°
- CONNECTING FLANGE AT CLIENT BATTERY LIMIT MUST MATCH TOGETHER WITH "PAMEC" FLANGE" (WE SEND YOU THE BOLTS FLANGE)
- ALL ADDITIONAL REINFORCEMENT OF EXISTING STRUCTURES ARE UNDER CLIENT CHARGE, AND WILL BE IN ACCORDANCE WITH "PAMEC" GIVEN LOADS.
- ALL "PAMEC" GIVEN LOADS ARE "UNFACTORED" (ie k=100).
- HOWEVER THEY INCLUDE THE DYNAMIC FACTOR AS:
- $K_d = 1.25$ FOR DEAD AND OWN LOADS
- $K_d = 1.50$ FOR CONCRETE LOADS



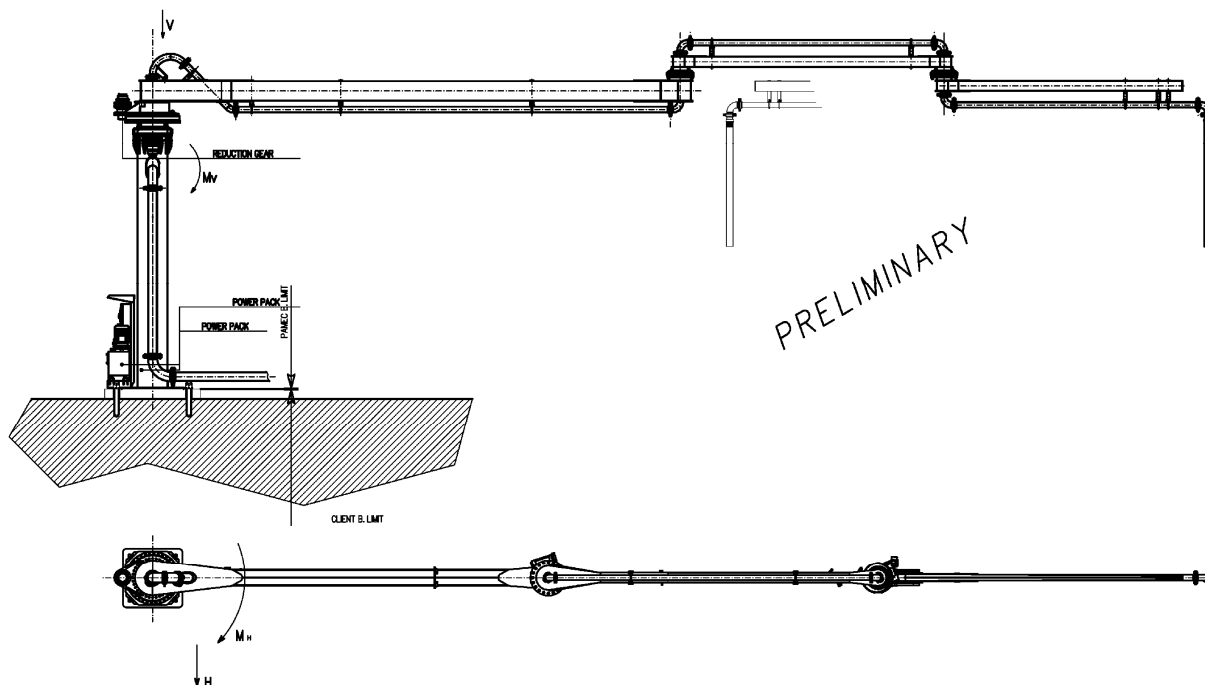
1.2

Working area





1.3 Loads and moments



MAX LOADS AND MOMENTS ACCORDING TO **DIN 24117**

<i>V</i>	(vertical load):	<i>daN</i>
<i>Mv</i>	(overturning moment):	<i>daNm</i>
<i>H</i>	(horizontal load)	<i>daN</i>
<i>Mh</i>	(horizontal bending moment):	<i>daNm</i>

WARNING!

THE MAX WORKING WIND SPEED FOR THE CONCRETE BOOM IS 72 km/hr (**25 Kg/m²**)
A WIND SPEEDMETER NEEDS TO BE PLACED AT THE TOP OF THE FORMWORK IN ORDER TO CHECK THE WIND SPEED DATA **AT THE OPERATING WORKING HEIGHT.**

WHEN SPEED WIND INCREASE OVER 15% OF THE MAXIMUM WORKING ONE (20 m/sec = 72 km/hr), IT IS ADVISABLE TO CLOSE THE BOOM **IN THE NOT WORKING POSITION. (TWO ARMS IN CLOSED POSITION)**



1.4 Technical data

Dimensions and space occupied by the boom

<i>Height</i>	<i>m</i>
<i>Width</i>	<i>m</i>
<i>Length</i>	<i>m</i>

Weight and loads

<i>Weight of the boom</i>	<i>daN</i>
<i>Weight of the support</i>	<i>daN</i>
<i>Total weight</i>	<i>daN</i>



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CONCRETE PLACEMENT BOOM

DRV 12C - 55M

Technical Data

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Tel.: +39.0873.310000 - Fax: +39.0873.311787 - E-mail: info@pamec.com



1.1 Description

The concrete placement boom **DRV 12 C** is made up of the following parts:

- **Base unit**

The base unit is made of a robust metal structure complete with telescopic jack arms fitted with outriggers which can be adjusted vertically to allow for a perfectly horizontal disposition of the base unit itself.

A thrust bearing is fitted to the upper part of the base unit to enable the rotation of the boom. The base unit is also fitted, on request, with four wheels so that the equipment can be moved when not in operation and with the boom in the closed position.

- **Pipe support boom**

The boom is provided with two horizontal arms, which are mounted on a thrust-bearing .

The movement of the second arm on the vertical plane is obtained by a hydraulic cylinder operated by a hand pump.

The counterweight support is attached to the other end of the boom.

The ballast container is optional.

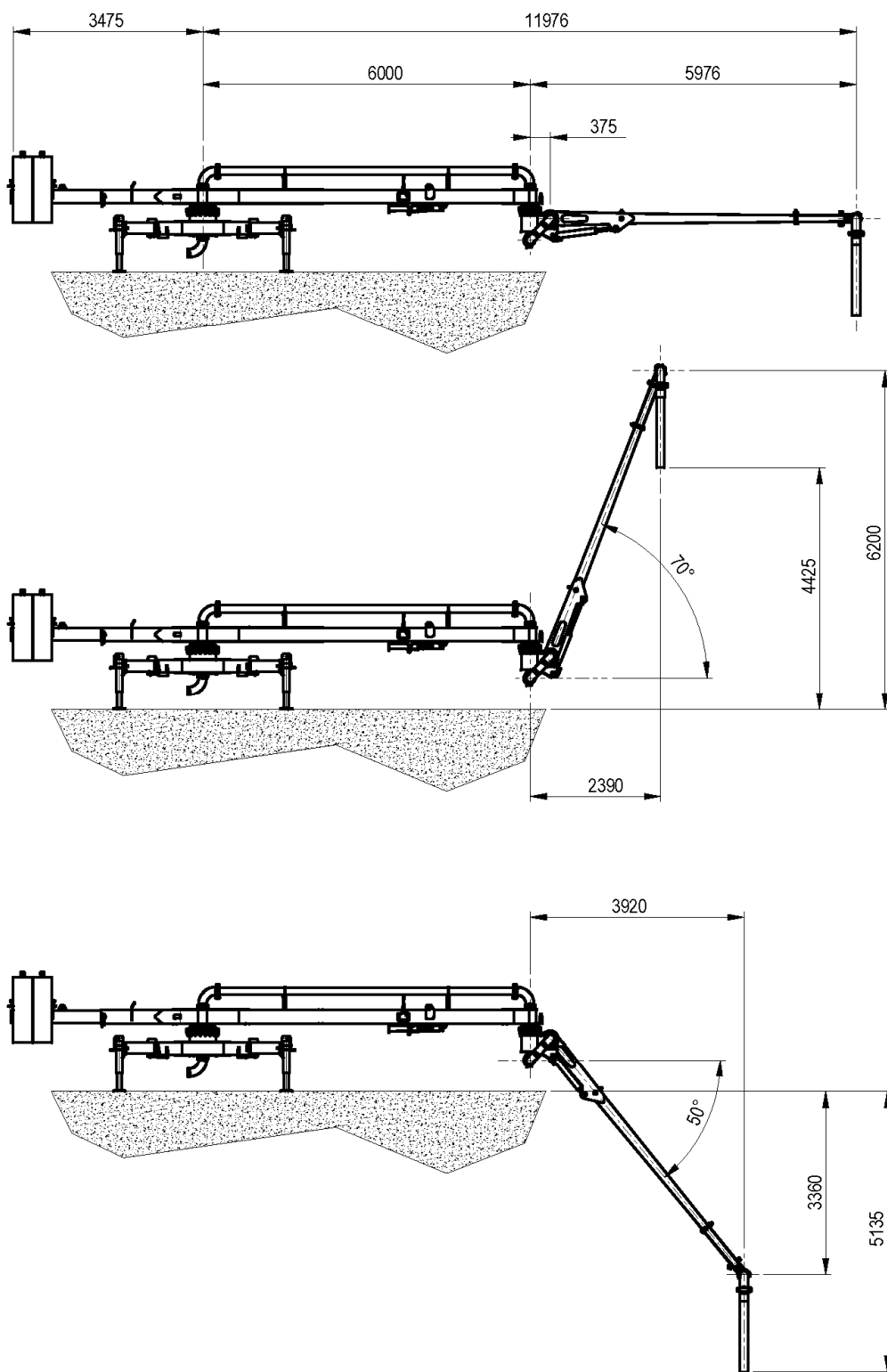
- **Piping**

The **DRV 12 C** distributor can be fitted with pipes with a thickness of 4mm DN 100 (collars Ø 114-127) and DN 125 (collars Ø 141-148).

The length of the terminal rubber hose is 1,5 m

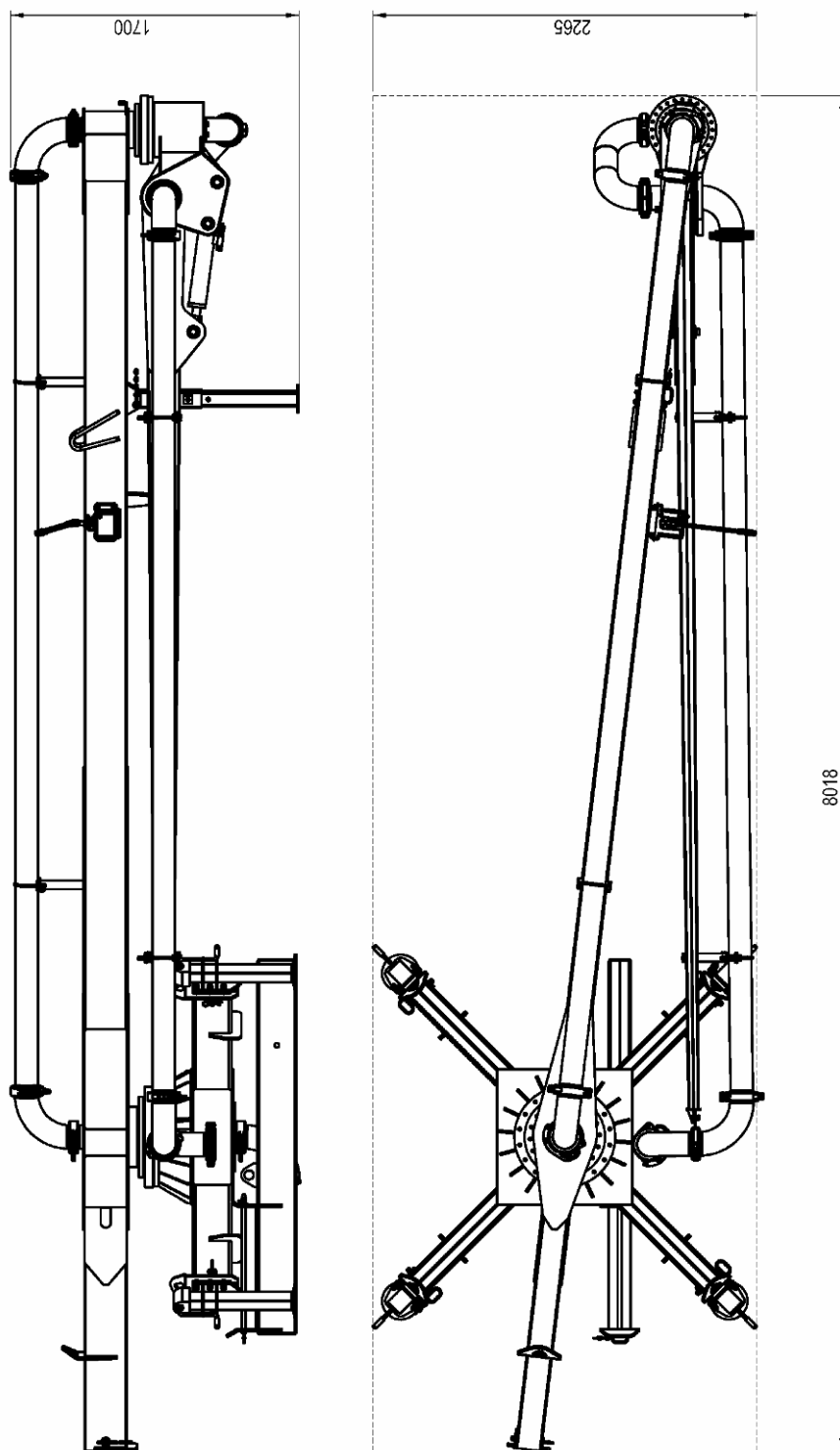


1.2 Overall drawing





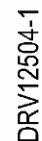
1.2 Overall drawing



DRV12502-1

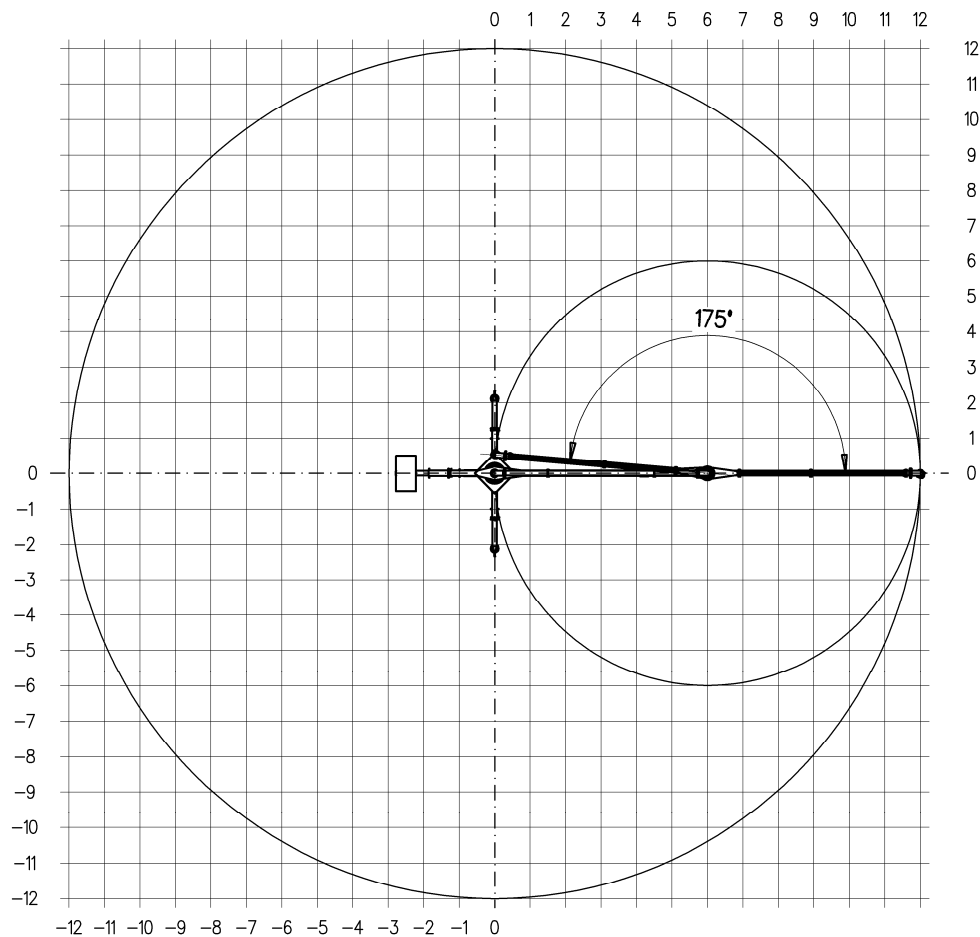


BLOCK VOLUME:	0,344 m ³
SPECIFIC WEIGHT:	2.400 kg / m ³
BLOCK WEIGHT:	825 kg
TOTAL WEIGHT FOR No 2 BLOCKS:	1650 kg





1.4 Technical data



Weight and loads

Weight of complete boom	2.400 kg
Counterweight	1.650 kg
Total weight	4.050 kg
Total weight at each jack arm	2.670 kg



1.5

Applications





1.5

Applications





1.5

Applications











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CONCRETE PLACEMENT BOOM
BVZ 12C - 55M

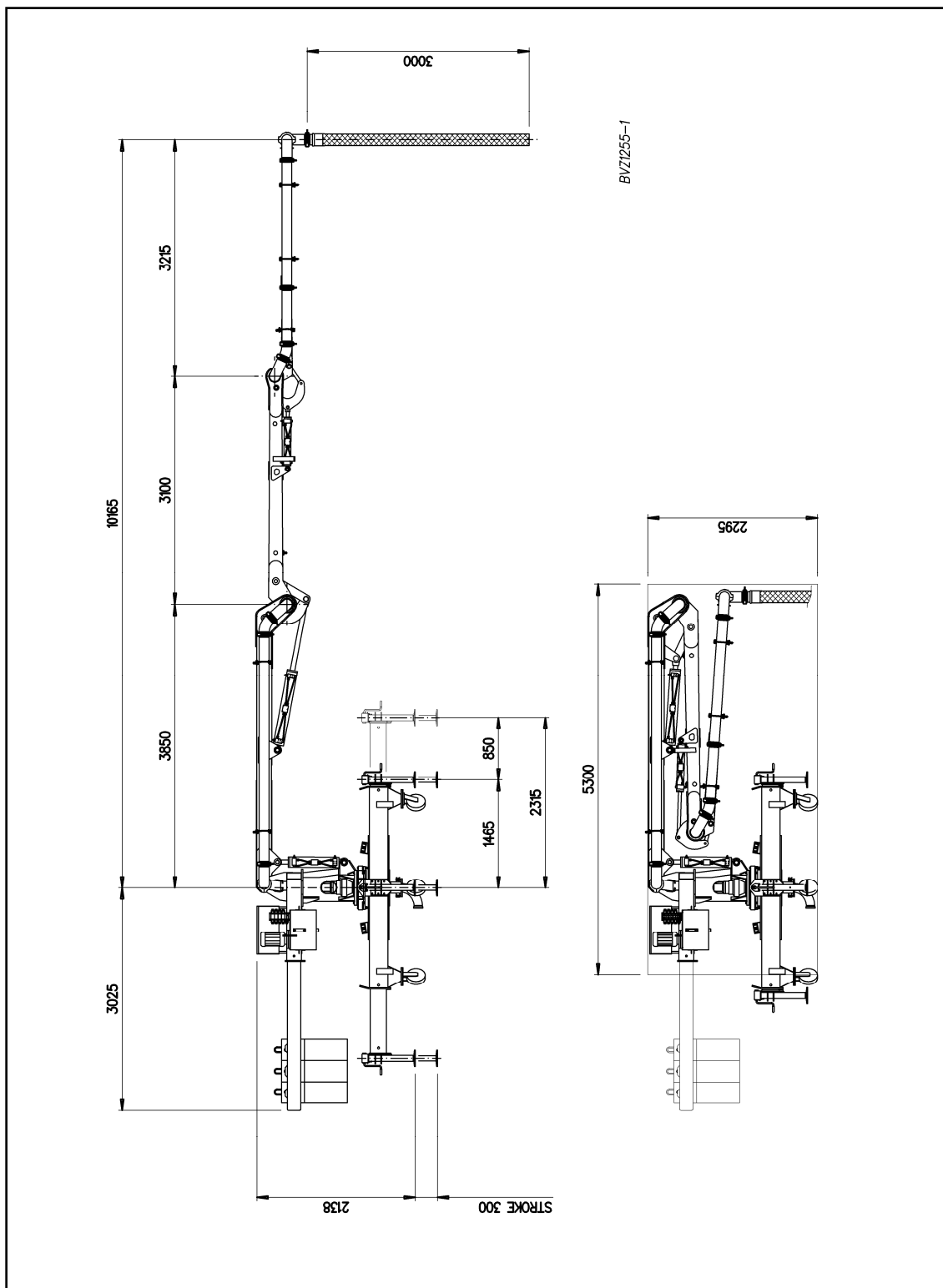
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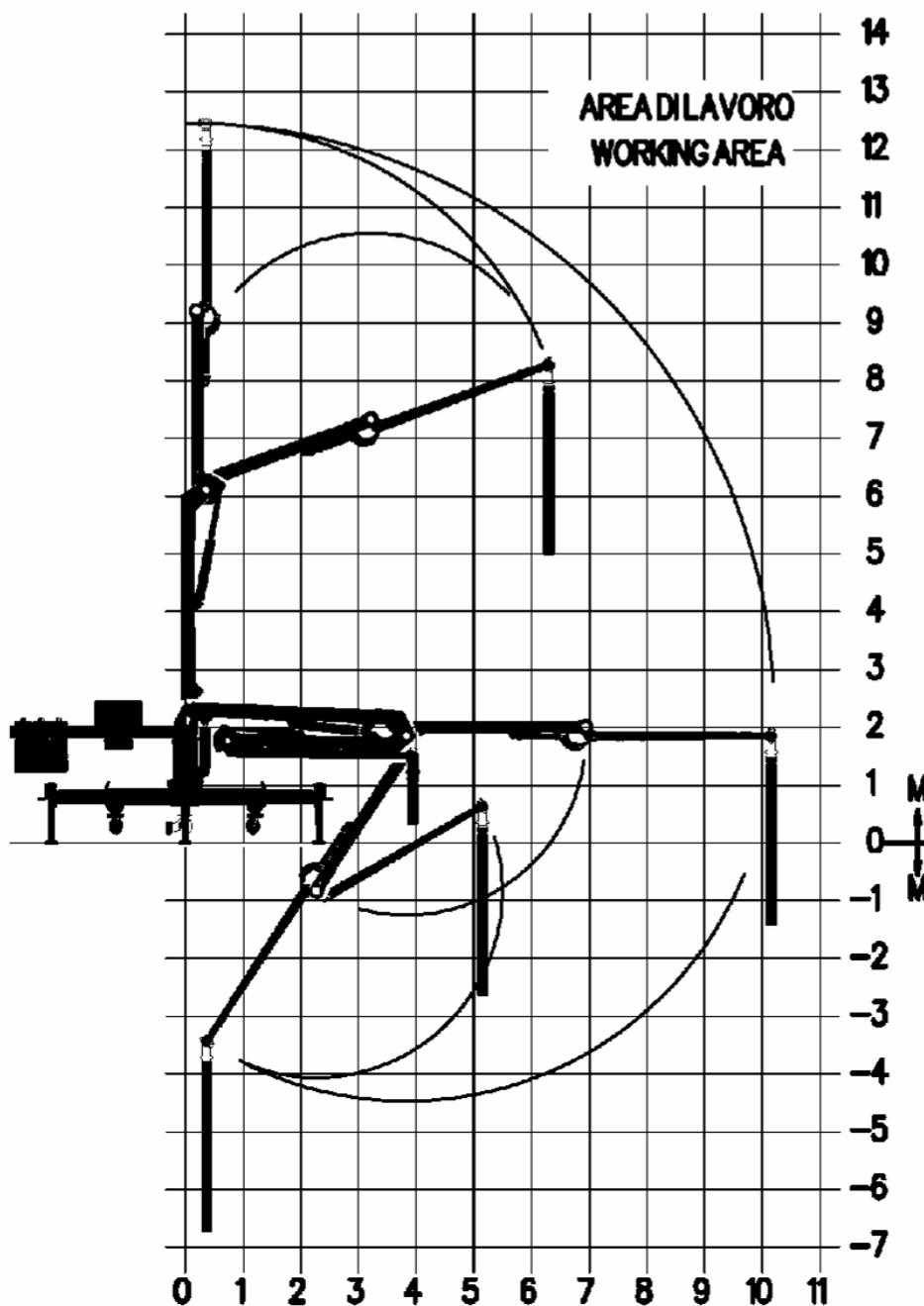
1.1

Overall drawing



1.2

Working area



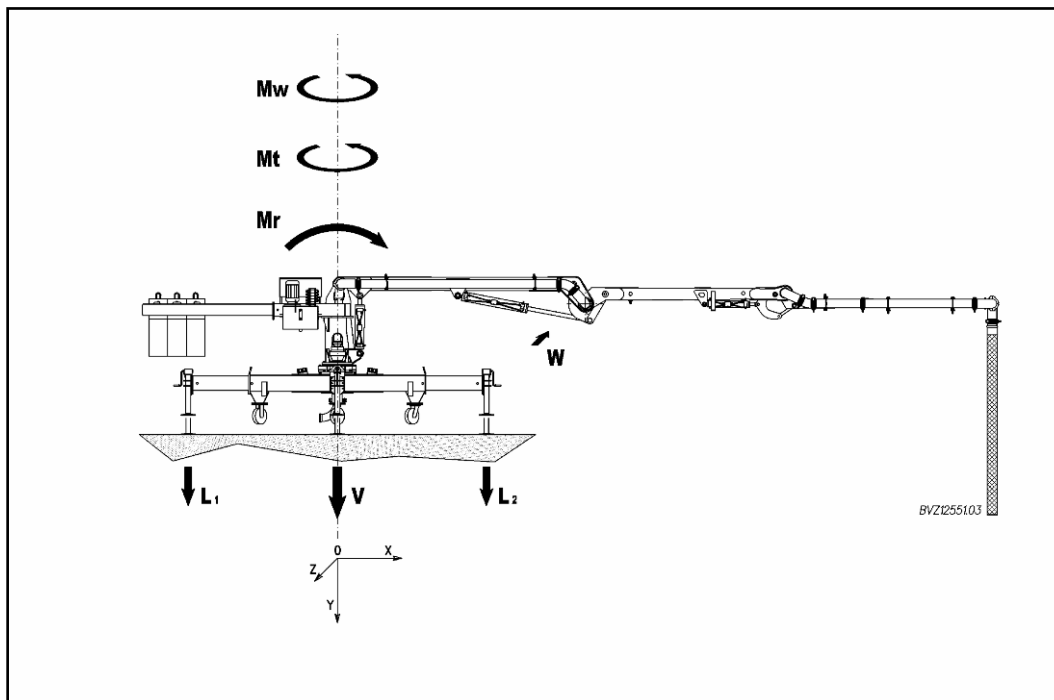
1st arm : $0^\circ \div 89^\circ$

2nd arm : $0^\circ \div 180^\circ$

3rd arm : $0^\circ \div 180^\circ$



1.3 Loads and moments



MAX LOADS AND MOMENTS ACCORDING TO **DIN 24117**

V	(vertical load):	5540 daN
L1 max	(vertical load at outrigger):	120 daN
L2 min	(vertical load at outrigger):	2615 daN
W	(wind force):	150 daN
Mr	(overturning moment):	+4470/-5690 daNm
Mt	(torque moment):	575 daNm
Mw	(wind moment):	630 daNm

WARNING!

THE MAX WORKING WIND SPEED FOR THE CONCRETE BOOM IS 72 km/hr (**25 Kg/m²**)
A WIND SPEEDMETER NEEDS TO BE PLACED AT THE TOP OF THE CLIMBING FORMWORK IN ORDER TO CHECK THE WIND SPEED DATA **AT THE OPERATING WORKING HEIGHT.**

WHEN SPEED WIND INCREASE OVER 15% OF THE MAXIMUM WORKING ONE (20 m/sec = 72 km/hr)
, IT IS ADVISABLE TO CLOSE THE BOOM **IN THE NOT WORKING POSITION. (THREE ARMS CLOSED AND IN VERTICAL POSITION)**



1.4 Technical data

Dimensions and space occupied by the boom

Height	2150	mm
Width	2300	mm
Length	7100	mm

Weight and loads

Weight of complete boom	2900	kg
Counterweight	1650	kg
Total weight	4550	kg
Total weight at each jack arm	2615	kg

Technical data for the basic set up

Electric power	380/440	V
Three-phase + neutral + earth		
Frequency	50/60	Hz
Power of the electric motor	4	kW

Technical data for the hydraulic power pack

Oil flow	8.7	lit/min
Maximum pressure	245	bar



1.5

Annexes





1.5

Annexes







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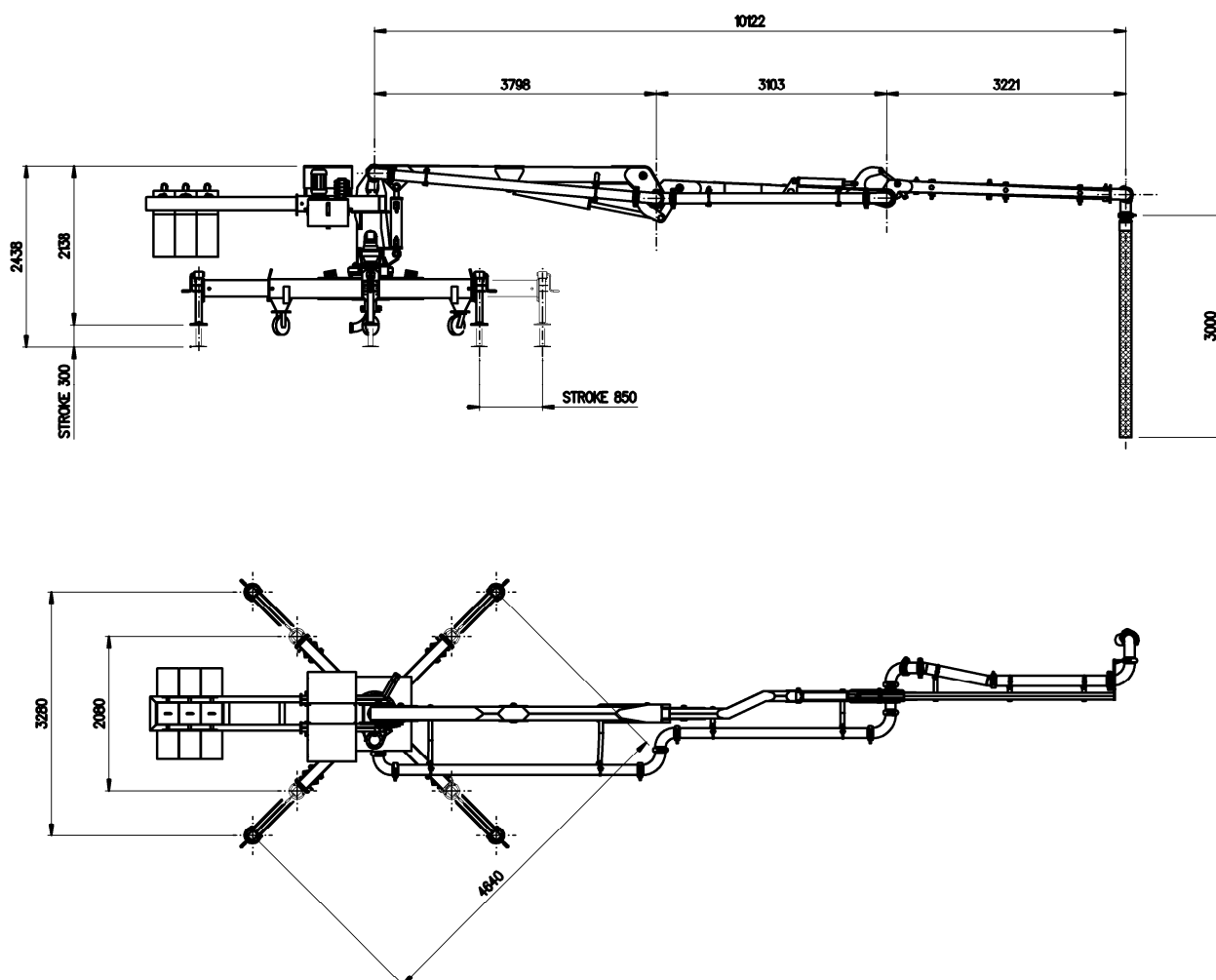
CONCRETE PLACEMENT BOOM
BVR 12C - 55M

Technical Data

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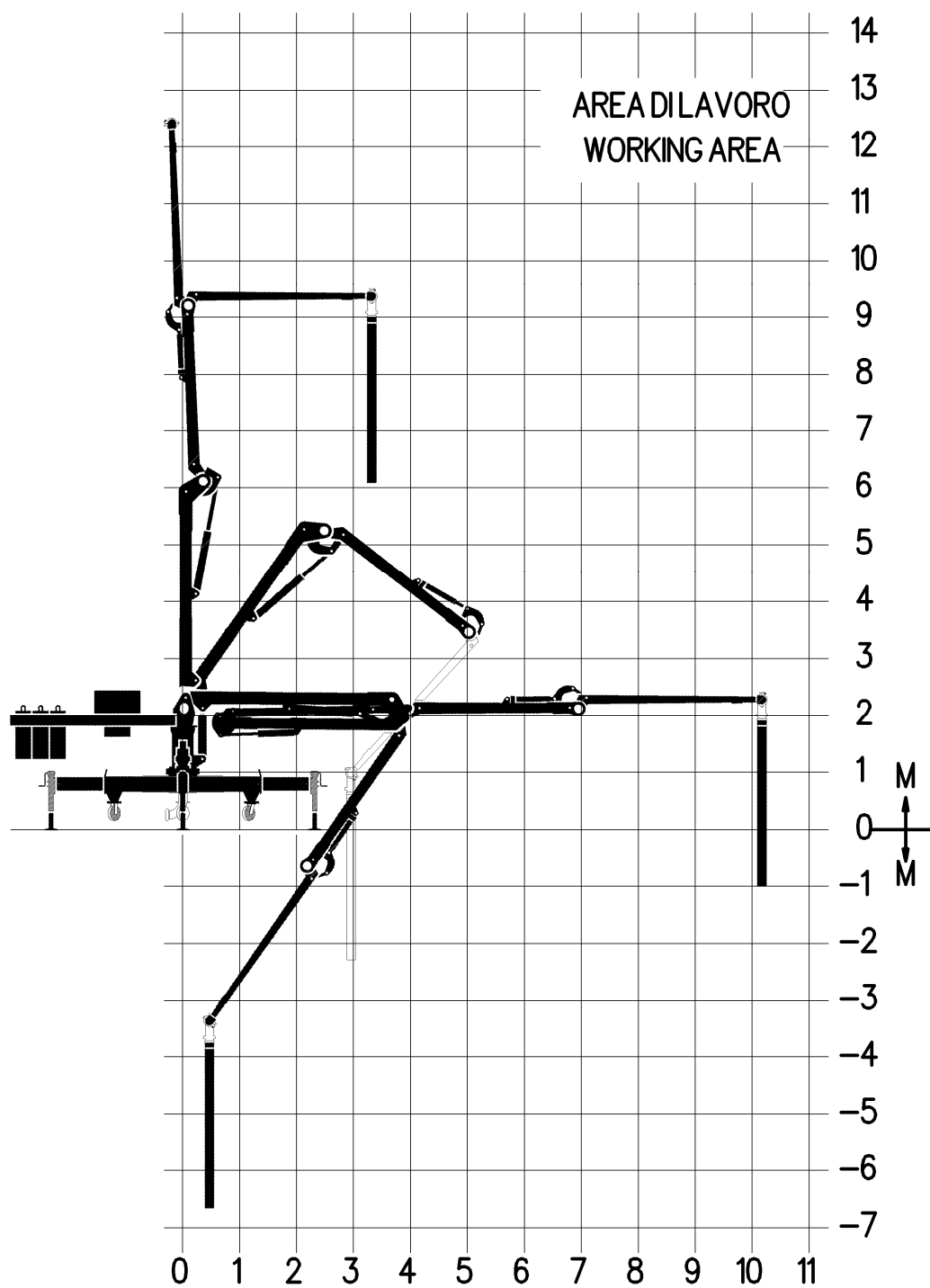
1.1 Overall drawing





1.2

Working area



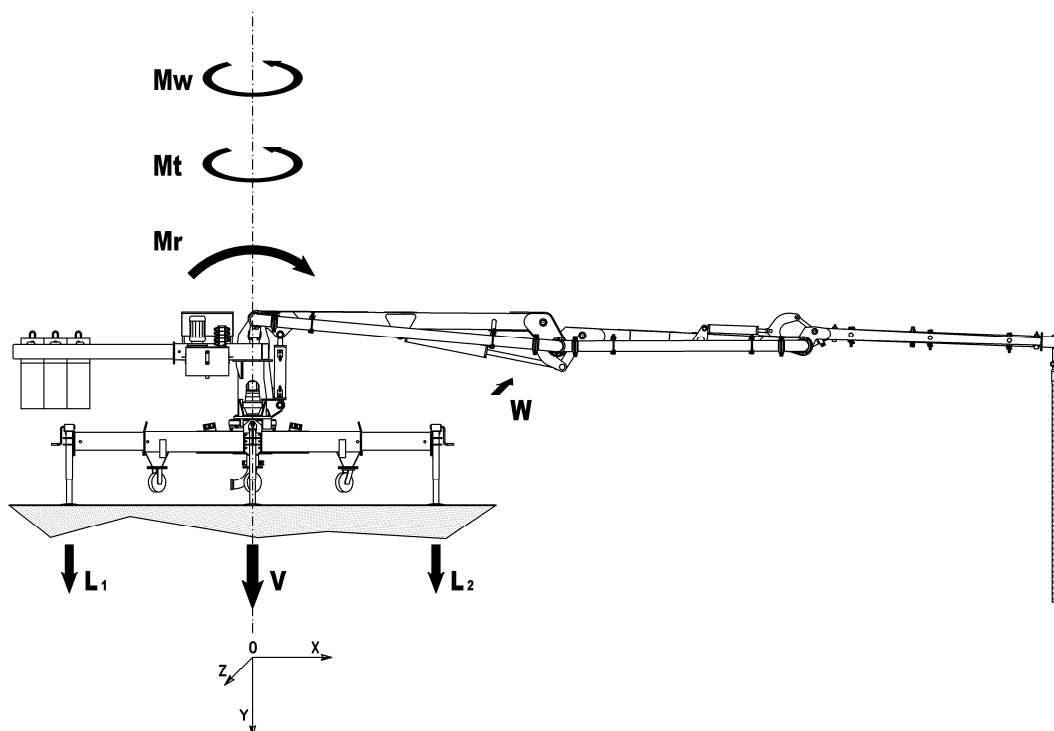
1st arm : $0^{\circ} \div 89^{\circ}$

2nd arm : $0^{\circ} \div 180^{\circ}$

3rd arm : $0^{\circ} \div 180^{\circ}$



1.3 Loads and moments



MAX LOADS AND MOMENTS ACCORDING TO **DIN 24117**

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L2 min	(vertical load at outrigger):	2615 daN
W	(wind force):	150 daN
Mr	(overturning moment):	+4470/-5690 daNm
Mt	(torque moment):	575 daNm
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1.4 Technical data

Dimensions and space occupied by the boom

Height	2150	mm
Width	2300	mm
Length	7100	mm

Weight and loads

Weight of complete boom	2900	kg
Counterweight	1650	kg
Total weight	4550	kg
Total weight at each jack arm	2615	kg

Technical data for the basic set up

Electric power	380/440	v
Three-phase + neutral + earth		
Frequency	50/60	Hz
Power of the electric motor	4	kW

Technical data for the hydraulic power pack

Oil flow	8.7	lit/min
Maximum pressure	245	bar

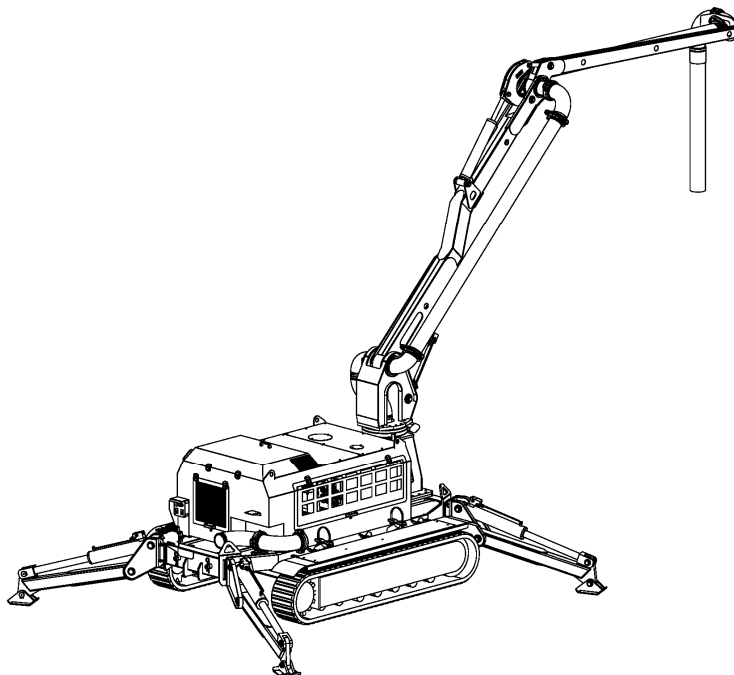


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CONCRETE PLACEMENT BOOM

BV 08 TR - 55M

Technical Data

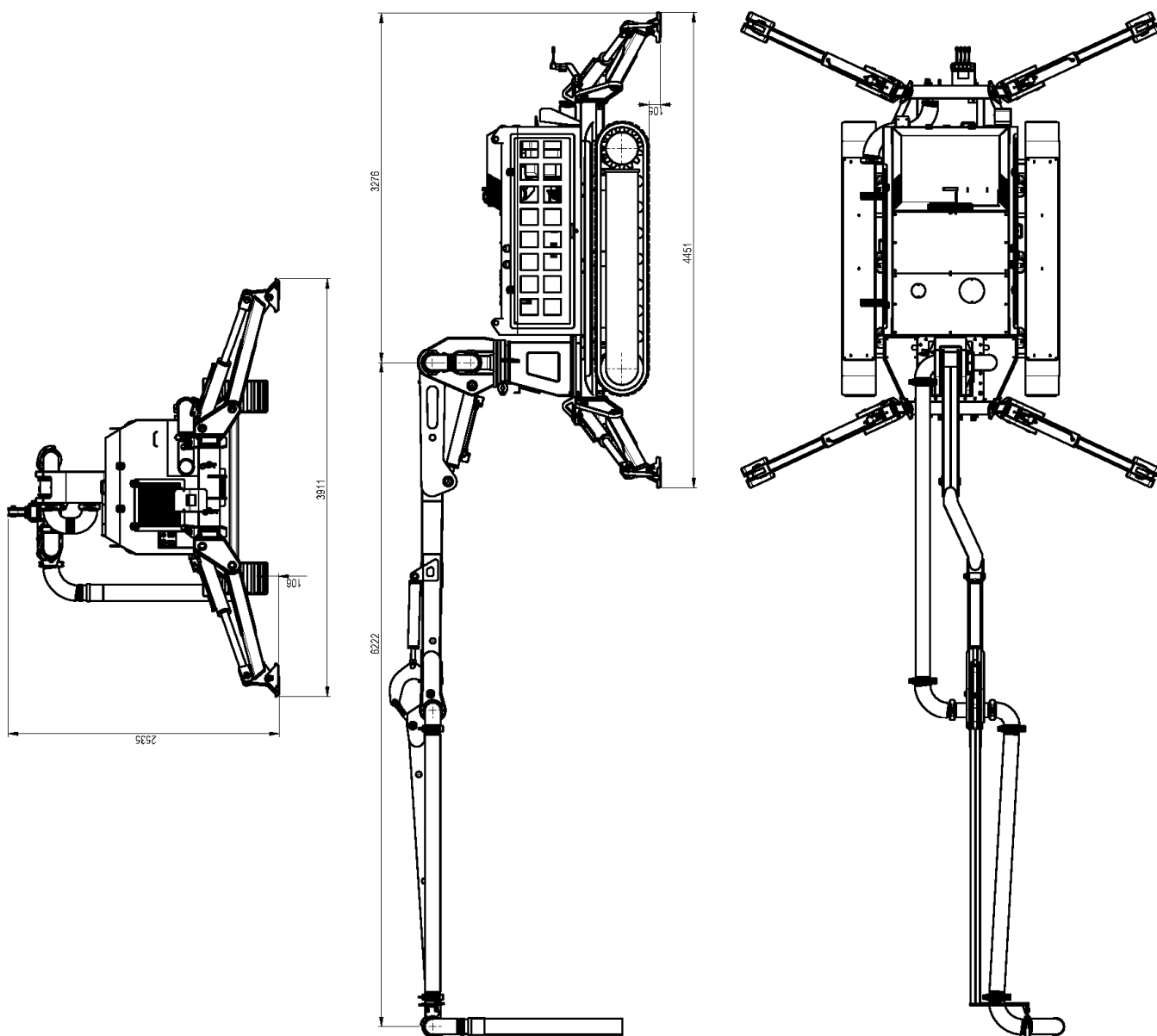


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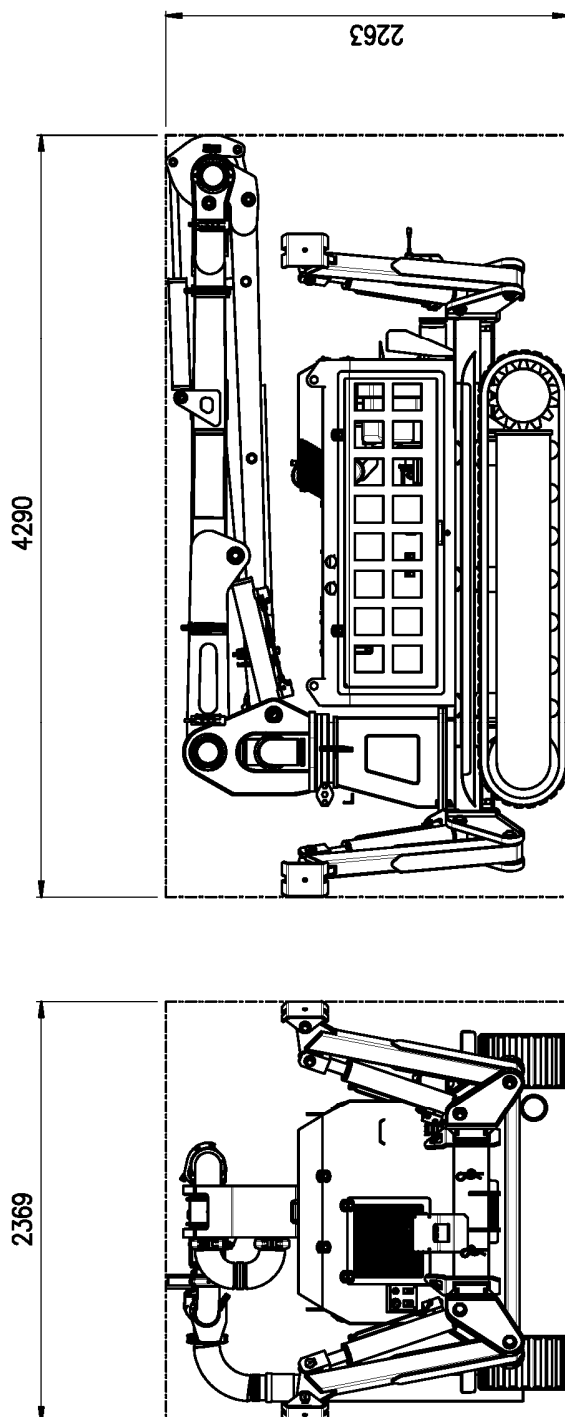
Overall drawing





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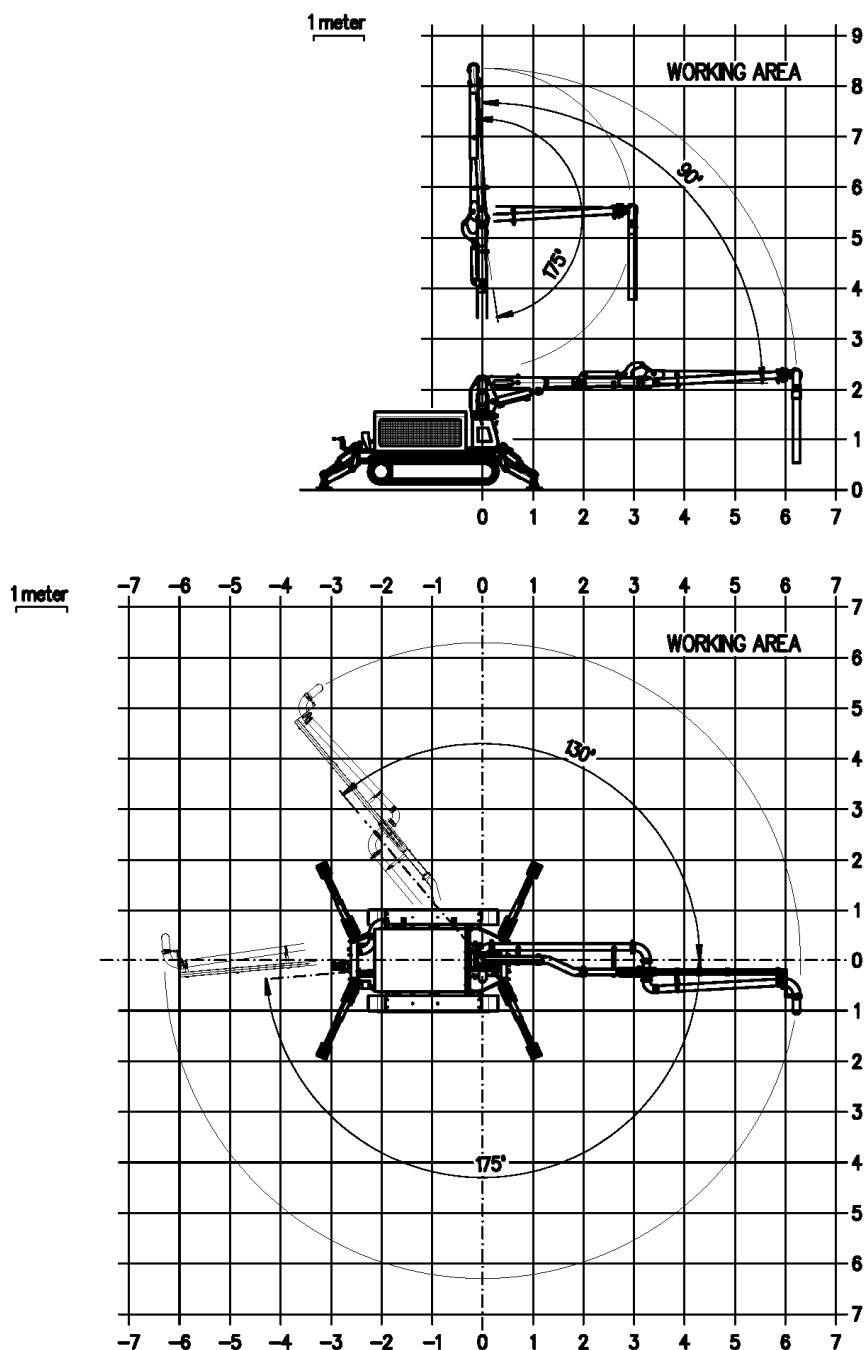
Overall drawing





2

Working area





3

Technical data

Dimensions and space occupied by the boom

Height	2263	mm
Width	2369	mm
Length	4290	mm

Weight and loads

Weight of complete boom	4400	kg
Weight of the concrete	385	kg
Total weight	4785	kg

Technical data for the basic set up

Power	31	HP
Fuel: gasoline with a minimum of 85 octane		

Technical data for the hydraulic power pack

Oil flow	12.5+12.5	lit/min
Maximum pressure	180	bar







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PAMEC SPRAYING UNIT
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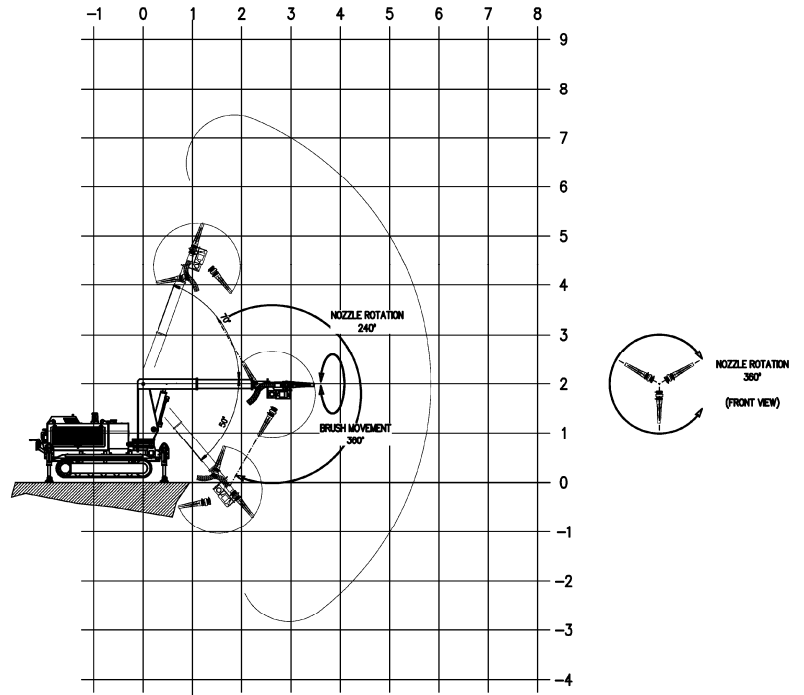
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PAMEC SPRAYING UNIT

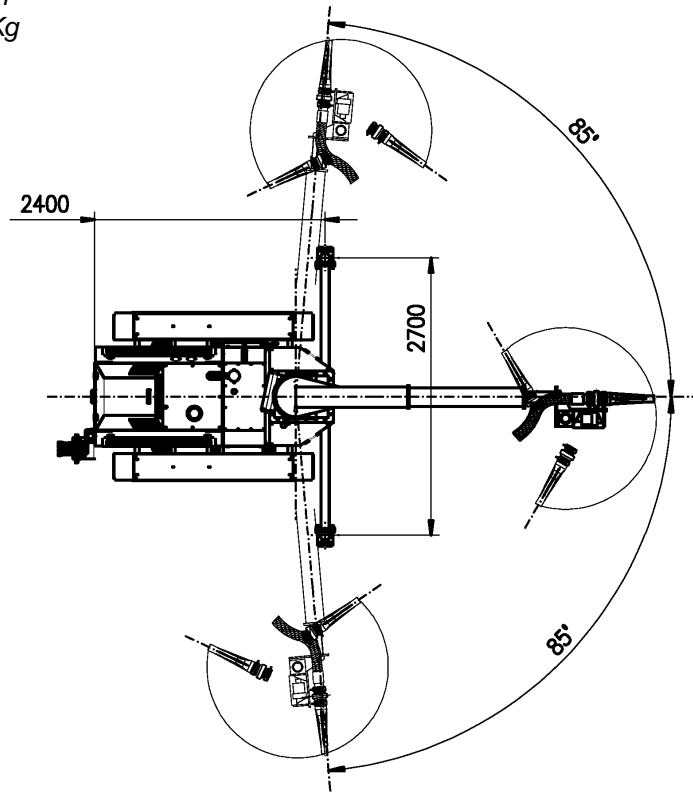
Technical Data

Dimensions and working range



Transport length	2.3 m
Transport width	1.6 m
Transport height	2.2 m
Weight	1900 Kg

Outriggers 2.7





PAMEC SPRAYING UNIT

Technical specifications

<i>Power</i>	<i>Input supply voltage</i>	3x400/500	<i>V/Hz</i>
		7.5	<i>Kw</i>
	<i>Protection class</i>	55	<i>IP</i>
<i>Spraying range</i>	<i>Max height (incl. 1.5 m nozzle distance)</i>	6	<i>m</i>
	<i>Max width (incl. 1.5 m nozzle distance)</i>	4	<i>m</i>
<i>Hydraulic</i>	<i>Max pressure</i>	180	<i>Bar</i>
	<i>Oil tank</i>	100	<i>l</i>
<i>Carrier vehicle</i>	2 rubber tracks, with individual hydraulics drive		
	<i>Diesel engine, liquid cooled (LOMBARDINI)</i>	19.5	<i>KW</i>
<i>Delivery pipeline</i>	<i>Hose size</i>	65	<i>mm</i>
<i>Stabilization</i>	Hydraulic outriggers		
<i>Control</i>	Remote control with 15 m cable		

OPTIONAL

- **Dosing unit**

<i>Voltage</i>	400/440	<i>V</i>
<i>Frequency</i>	50/60	<i>Hz</i>
<i>Electric motor</i>	0.75	<i>Kw</i>
<i>Max delivery pressure</i>	10	<i>Bar</i>
<i>Delivery volume</i>	2 - 10.2	<i>l/min</i>

- **Tank**

<i>Inox</i>	350	<i>l</i>
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- **Radio remote control**



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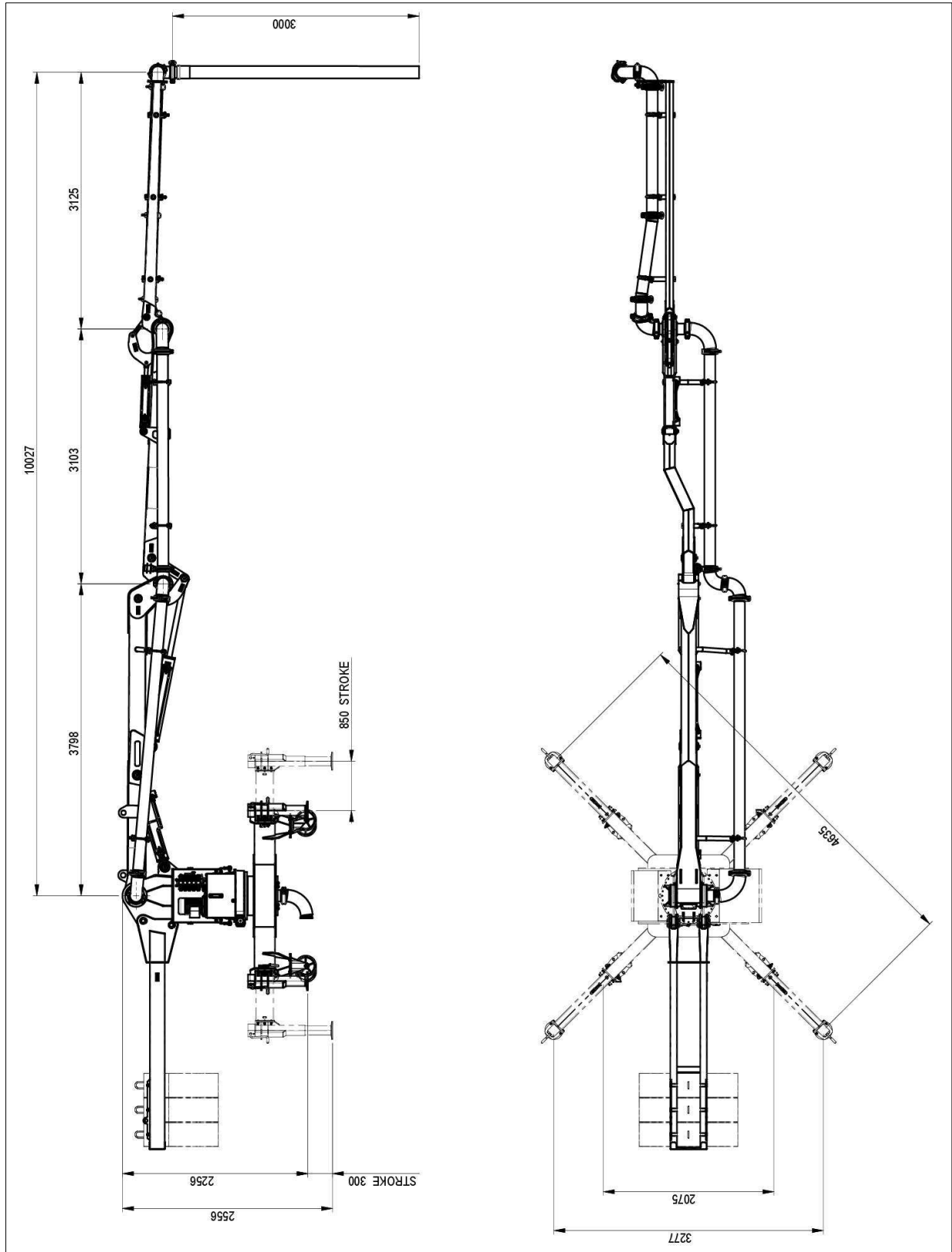
BVR 12C/N - 55M

Technical Data

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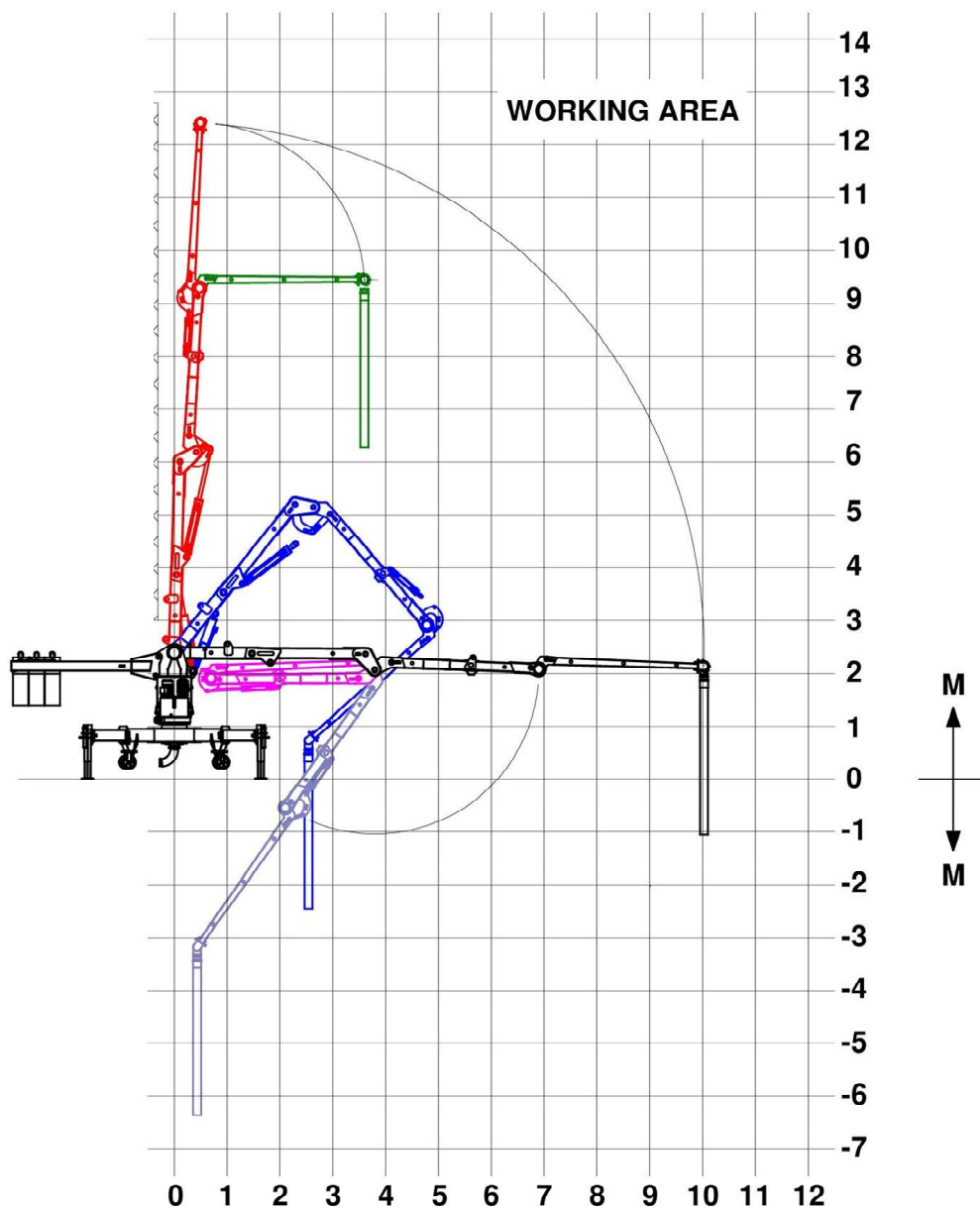
1.1 Overall drawing





1.2

Working Area



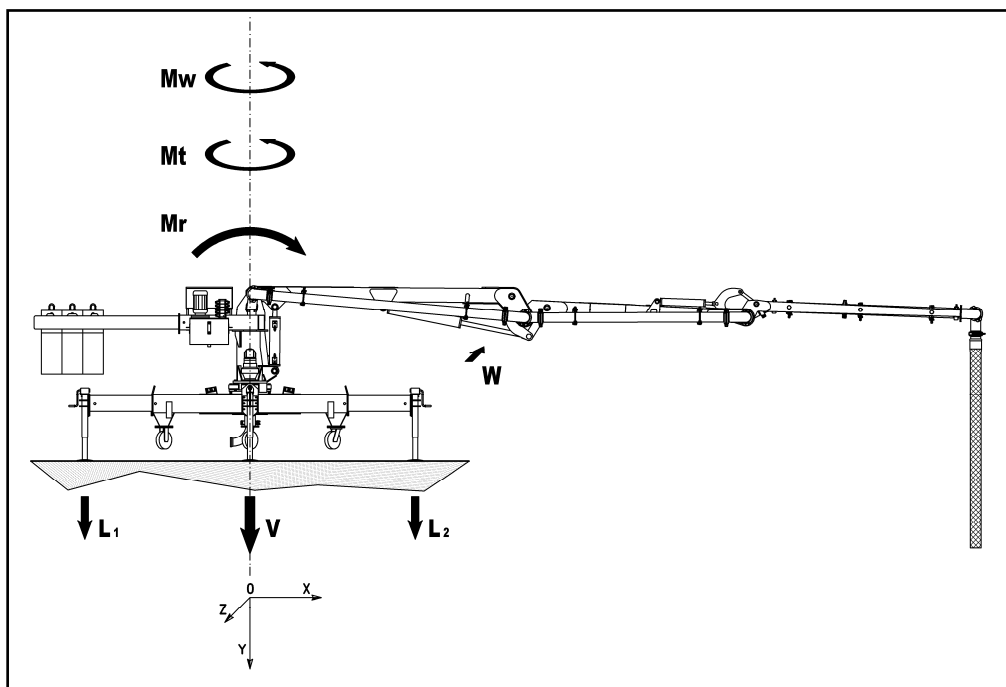
1st arm : $0^{\circ} \div 89^{\circ}$

2nd arm : $0^{\circ} \div 180^{\circ}$

3rd arm : $0^{\circ} \div 180^{\circ}$



1.3 Loads and moments



MAX LOADS AND MOMENTS ACCORDING TO DIN 24117

V	(vertical load):	5889 daN
L1 min	(vertical load at outrigger):	454 daN
L2 max	(vertical load at outrigger):	2491 daN
W	(wind force):	130 daN
Mr	(overturning moment):	+5200/-4750 daNm
Mt	(torque moment):	300 daNm
Mw	(wind moment):	498 daNm

WARNING!

THE MAX WORKING WIND SPEED FOR THE CONCRETE BOOM IS 72 km/hr (25 Kg/m²)
A WIND SPEEDMETER NEEDS TO BE PLACED AT THE TOP OF THE CLIMBING FORMWORK IN ORDER TO CHECK THE WIND SPEED DATA **AT THE OPERATING WORKING HEIGHT.**

WHEN SPEED WIND INCREASE OVER 15% OF THE MAXIMUM WORKING ONE (20 m/sec = 72 km/hr), IT IS ADVISABLE TO CLOSE THE BOOM **IN THE NOT WORKING POSITION. (THREE ARMS CLOSED AND IN VERTICAL POSITION)**



1.4 Technical data

Dimensions and space occupied by the boom

Height	2,408	<i>m</i>
Width	2,388	<i>m</i>
Length	7,000	<i>m</i>

Weight and loads

Weight of complete boom	3105	<i>daN</i>
Counterweight	1648	<i>daN</i>
Total weight	4753	<i>daN</i>
Total weight at each jack arm	2491	<i>daN</i>

Technical data for the basic set up

Electric power	380/44	
Three-phase + neutral + earth	0	<i>V</i>
Frequency	50/60	<i>Hz</i>
Power of the electric motor	4	<i>kW</i>

Technical data for the hydraulic power pack

Oil flow	8.7	<i>lit/min.</i>
Maximum pressure	245	<i>bar</i>



PHOTO GALLERY (DRAFT)











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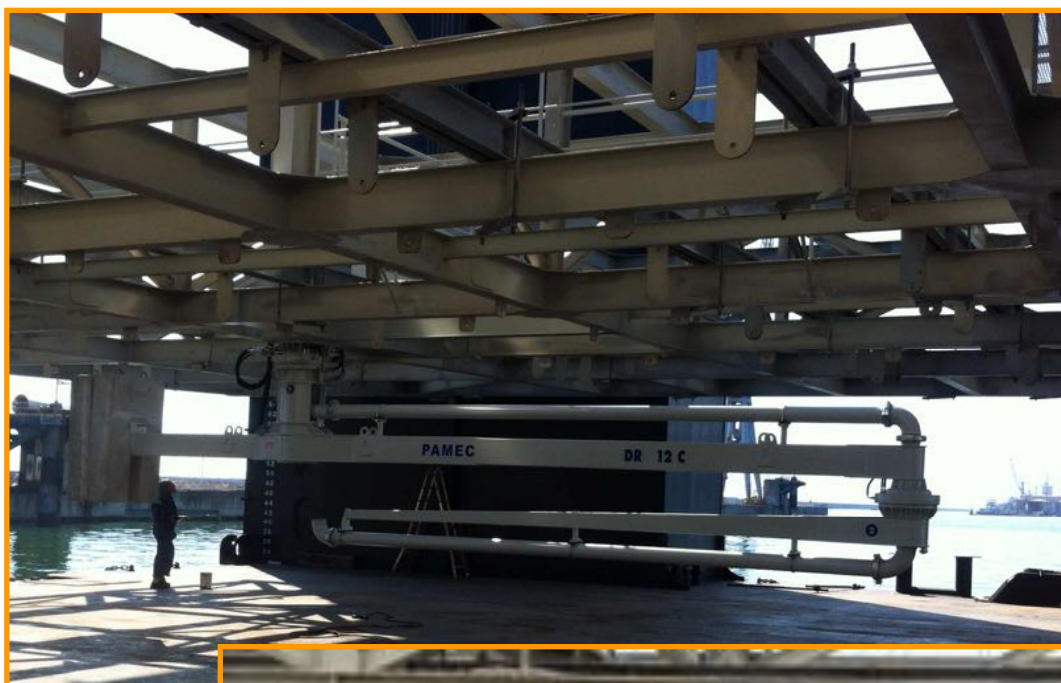
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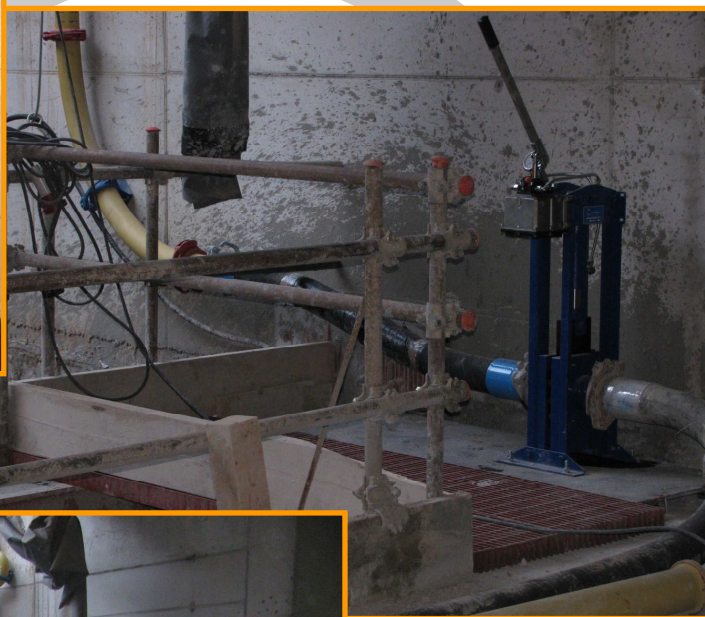


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