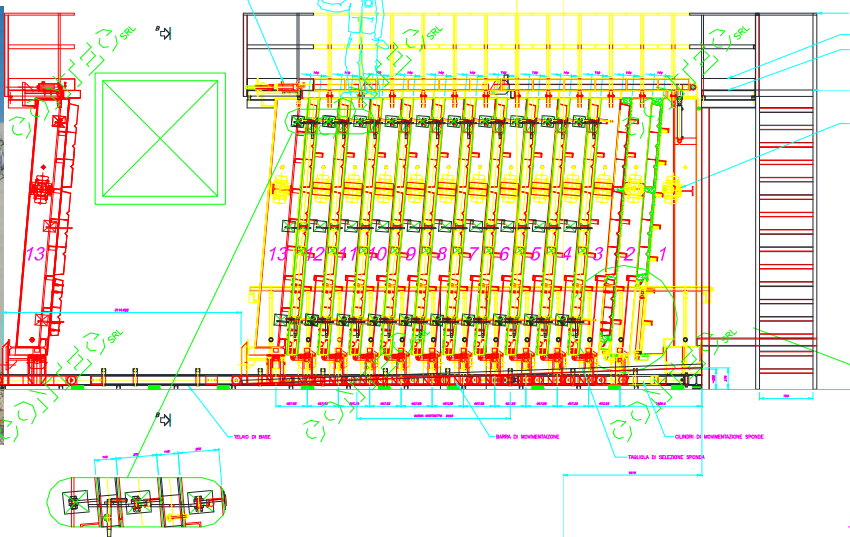


CONTEC SRL ITALY

Formworks & Prestressing Equipment



Prestressing & Precast
Expert since 1970



The partners experience, acquired since 1968, induced them in 1984 to form **CONTEC srl**. During the years it became an important reference in the **prefabrication technologies** with a constant technical evolution, mostly for the **prestressing equipment**.

In this field **CONTEC srl** reached a great specialization and success, also internationally, with important technological innovations. Exactly to follow with always more carefullness the prestressing field **CONTEC srl** has, in its own seat, a special 35 m "prestressing line" to make in the factory all the technical tests on the stressing jacks. This is connected online with the Technical Office for the programming and the test of the new series of **SuperSelect** stressing jacks.

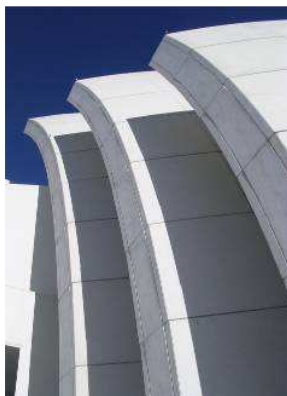
SuperSelect is actually the new prestressing system to programme, manage, check and memorize the prestressing data for every single prestressed strand, guaranteeing the handle report of every prestressed line. **SuperSelect** is the result of the continuous evolution of the company and proves **CONTEC srl** tendency to be present in the market in the technologically more advanced group, with important acknowledgement from the most qualified prefabricators.





Our production program includes the equipment range for the prefabrication and the prestressing:

1. **Prestressing unit** mono and pluricircuit, also electronic. Our machines are the result of a careful and constant technical research.
2. **Anchorage material** for the prestressing
3. **Maintenance equipment** and prestressing accessories
4. **Systems for the laying and the push of the strands**
5. **Detension systems** also synchronized and with control of the applied load.
A complete range of detension jacks with capacity from 35 to 1000 tons and stroke from 10 to 100 cm, with simple and double effect; Sincro4Tp-SupersedeCT system of multiple prestressing
6. **Buckets for concrete casting:** Buckets with electro-hydraulic control, with oil pump unit and rechargeable batteries; capacity: 1,5-5 mc.
7. **Contec Advice & Assistance**
8. **Trolleys** to transport the manufactured products with telescopic rudder and assist steering; capacity 30, 50, 60 tons.
9. **Lifting systems** for the manufactured products
10. **Special Equipment:** a complete range of special machines for every use in precast production
11. **Formworks for Precast Elements:** Single formworks and lines for the prefabrication; "standard CT" systems for prestressing lines with a great flexibility; formworks for three-dimensional and complex elements; automatized production stations. **Self-reacting formworks:** Formworks with self-reacting structure, with hydraulic systems for the handling and the transformation for the production in the factory or on site. Formworks for tile coverings and floor with big capacity.
12. **Formworks Accessories:** All components and accessories offered come from a best collaboration between CONTEC srl and the most qualified specialist companies.



Our Prestressing Equipment represents the best evolution in the prestressing field; the most complete range of models and machines.

1.1 HPE-Prestressing Unit

Our machines are the result of a careful and constant technical research. They represent the best evolution in the prestressing field; the most complete range of models and machines:

- Multiple and different circuits
- Electronic programmable management with Dynamometrical check of the applied load and prestressing report
- Hydraulic point blockage with temporised circuit
- Thermometer/oil level and preheat system
- Count-hours and running key
- Automatic return and automatic selection
- Internal regulation valves and fast substitution of grip
- Partial and total Prestressing selection
- Teleassistance (SuperSeleCT700)



SuperSeleCT is a new and exclusive patented system that guarantees the check of the prestressing force developed by the stressing jack, thanks to a dynamometrical group integrated to the stressing jack which manages also the hydraulic working of the oil pump unit. The check of the force developed by the stressing jack is **independently from the circuit pressure** and then from the hydraulic efficiency, and guarantees the **maximum precision in every prestressing condition**. This system is integrated in the series **HPJ** stressing jacks and becomes an important work system, which guarantees the complete precision and safety in the prestressing operations. It is available also in a **preassembled kit** for application on all stressing jacks of the previous series (HTX) or other trademarks. It can be integrated with the system of electronical managing and programming for the memorization and the data tabulation about the prestressings.

SuperSeleCT-HPC represents an important **evolution** in the operative way and in the checking of the prestressing efficiency and it guarantees the largest reliability in the productive procedures of the prefabrication. After the prestressing operation, automatically done with the selection of the special function foreseen in the prestressing unit SuperSeleCT, the HPC system allows to record the elongation of each strand after the total prestressing; the recording is then transferred, also in radio broadcast, to the PC to obtain the report that certifies the prestressing operations done: time and date, product identification, programmed loads, actual loads and elongations of each prestressed strand, total load applied on the track, etc.; the system, by appropriate recording sensors, controls the hydraulic circuit and stores the stroke of the jack, even in succession, causing the value of elongation that the prestressed strand has been subjected.



Technical data Sheet PRESTRESSING UNIT	HPE100	HPE500	SuperSeleCT HPE700	MiniHPE
Standard models	HPE111	HPE521	HPE701	MiniHPE
Optional models	---	HPE522	HPE702	---
	---	HPE542	HPE703	---
	---	HPE553	HPE704	---
Hydraulic circuits	1	5	5	1
Active hydr.circuits	1	2-5	1-4	1
Press. to select	1	2-5	2-8	1
Jacks to be applied	1	1-5	1-4	1
Hydr. timed lock	▲	▲	▲	Manual
Electric motor	4kw	5,5kw	5,5kw	1,5kw
Tension	220/380 50hz	220/380 50hz	220/380 50hz	220/380 50hz
Hydraulic pump	Hawe	Hawe	Hawe	Hydroven
Max. pressure	350bar	350bar	350bar	290bar
Flow rate (1500rpm)	7 l/1'	9,8 l/1'	8,4+3,2 l/1'	4,2 l/1'
Oil tank capacity	120 l.	120 l.	120 l.	7 l.
Ant. rotat. wheels	160mm	160mm	160mm	---
Back wheels	380mm	380mm	380mm	---
Weight	300kg	350kg	350kg	100kg
Electrical board	IP55	IP55	IP55	IP55
Electr.management	PLC	PLC	PLC	PLC
Acoustic signal	▲	▲	▲	▲
Blinking light	▲	▲	▲	▲
Protection grid	▲	▲	▲	---
Hydraulic oil	AGIP OSO	AGIP OSO	AGIP ARNICA	AGIP OSO
Suction filter	▲	▲	▲	▲
Discharge filter	▲	▲	▲	▲
Manometer	▲	▲	---	▲
Pressure transducer	---	---	▲	---
Control manometer	▲	▲	▲	▲
Display	---	---	---	---
Reading on display	---	---	daN+Bar	---
Check type	Bar	Bar	daN	Bar
Max. pressure valve	▲	▲	▲	▲
Safety valve	▲	▲	▲	▲
Dynamometer inside	---	---	▲	---
Total prestressing	▲	▲	▲	▲
Partial prestressing	---	---	▲	---
Manual return	▲	▲	---	▲
Automatic return	---	∅	▲	---
Jack aut.selection	---	∅	▲	---
Protection cover	∅	∅	∅	---
Trolley	∅	∅	∅	---
Balancer	∅	∅	∅	---
Oil preheat	---	∅	▲	---
SuperSeleCT	---	---	▲	---
Prestr.ing report	---	---	▲	---
Palmtop	---	---	▲	---
Radio net managing	---	---	∅	---
Teleassistance	---	---	∅	---
HPC evolution	---	---	∅	---
Dynamometer	∅	∅	∅	∅



Standard equip.	▲
On request	∅
Not possible	---



Technical data sheet STRESSING JACKS	HPJ42 HPJ44 HPJ46	HPJ62 HPJ64 HPJ66	HPJ72 HPJ74 HPJ76
Wire	d4-d7mm	—	—
Plate	2x2-3x3mm	—	—
Strand	1/4"	3/8" 1/2" 6/10"	1/2"-6/10"-7/10"
Max. load	60kN	235kN	310kN
Section	17,29cm ²	71,275cm ²	98,960cm ²
Stroke	20/40/60cm	20/40/60cm	20/40/60cm
Max. pressure	350bar	350bar	350bar
Weight (kg)	25/30kg	40/50/60kg	60/70/80kg
Prestressing speed	9,25cm/sec	2,29cm/sec	1,64cm/sec
Return speed	9,25cm/sec	3,64cm/sec	3cm/sec
Flex. pipes	2x1/4"	2x1/4"+1x1/8"	2x1/4"+1x1/8"
Pipe length	400cm	400cm	400cm
Controls	24volt	24volt	24volt
SuperSelecT	Opt./SuperHPJ	Opt./SuperHPJ	Opt./SuperHPJ
Ergonomic handgrip	▲	▲	▲
Stainless protection on the controls	▲	▲	▲
Point blockage with spring	▲	∅	∅
Hydraulic point blockage	—	▲	▲
Lapped pipes	▲	▲	▲
External chromium plating	▲	▲	▲
Chromium-plated point	▲	▲	▲
Stainless steel point	Opt./SuperHPJ	Opt./SuperHPJ	Opt./SuperHPJ
Tot. length	110/150/190cm	120/160/200cm	125/165/205cm
Fast grip substitution	▲	▲	▲
Magnetic extraction of the stressing grip	▲	▲	▲
Grip dimensions	25x50mm	35x70mm	50x100mm
Anti-rotation device	—	∅	∅
Suspension with balancer	▲	▲	▲
Maintenance kit	▲	▲	▲
Point/Grips	2x2-3x3mm d4-d7mm	3/8" 1/2" 6/10"	1/2"-6/10"-7/10"
Relaxing barrel	—	∅	∅
Standard equipment		▲	
On request		∅	
Not possible		—	



CONTEC SRL ITALY
Formworks & Prestressing Equipment
Official dealer CCLStressingSystem®

Programming card for prestressing of prestressed reinforced concrete		Ref.	Order	EDILMIOsc	N°10846
Production line	Model CONTEC-TEGOLOTT		Typology	TT80/12	
Programmer	Silvio Preciso	Scheduled/real production date	14.02.07	14.02.07	Operator Paolo Bravo
Modifiche	URC keys	12	Planned load of total prestressing		29468 daN
	Strand number to prestress	22	Serial number of prestressing unit		ES8422A

Tightener	Strand		Tension	Strength	Planned strand	Prestressed strands
	tipo	Area/cm ²				
N°	6/10"	1,39	14000	19460	8	8
1	1/2"	0,93	14060	13020	8	8
	3/8"	0,52	14060	7200	4	4
	1/4"	0,21			2	2

Time	Tightener No.	Strand section (mm ²)	Applied strength (daN)	Applied force (daN)	Fault %	Notes
15:10	1	1,39	19460	19480	0,1	
15:11	1	1,39	19460	19490	0,15	
15:12	1	1,39	19460	19350	-0,57	
15:13	1	1,39	19460	19380	-0,41	
15:14	1	1,39	19460	19320	-0,72	
15:15	1	1,39	19460	19410	-0,26	
15:16	1	1,39	19460	19430	-0,15	
15:17	1	1,39	19460	19280	-0,52	
15:18	2	0,93	13020	13080	0,46	
15:19	2	0,93	13020	13070	0,38	
15:20	2	0,93	13020	12980	-0,31	
15:21	2	0,93	13020	12950	-0,54	
15:22	2	0,93	13020	12990	-0,23	
16:01	2	0,93				
16:02	2	0,93				
16:03	3	0,52				
16:04	3	0,52				
16:05	3	0,52				
16:06	3	0,52				
16:07	3	0,52				
16:08	3	0,52				
16:09	3	0,52				
16:10	3	0,52				
16:11	4	0,21				
16:12	4	0,21				

Prestressed strands		Applied load of total
Inspected	22	
Inspection date	15.02.07	Notes: regular prestress

Notes:
 Fields to be filled in during the programming
 Summary of prestressing report data
 Fields to be filled in manually





DEL4/6-CT Electronic dynamometer with digital indicator for direct reading of applied load.

Check instrument with load cell and digital display to read the periodical calibration of every jacks for the prestressing. The toroidal load cell, equipped with the special elements to allow its coupling with the different stressing jacks, is connected to a digital instrument to read the load values applied (selection in daN or kg.); strong bag for the transport; on demand are available reduction accessories for the use with different strands or for direct application on the line; Before the delivery the instrument is calibrated with SIT certificated instruments (2° level certificate). On demand 1° level SIT certificate.

There are two different models:

- **type DEL6-CT** with applicable load from 10 to 25.000 daN (max. force 30.000daN) for **strands until 6/10"**.
- **type DEL4-CT** with applicable load from 10 to 8.000 daN (max. force 10.000daN) for **wire until diameter 7mm or strands until 1/4"**.

2. Anchorage Material for the Prestressing

CONTEC srl sells and distributes anchorage material for the prestressing. Our anchorage material that, since more than 40 years, is used and appreciated all over the world for its characteristics of safety, life and seal even in the worst use conditions. CONTEC srl, strong with a pluriannual and exclusive specific experience in this field, produces all the anchorage components with progressive technologies and strict check procedures to guarantee always the best performances. The range includes all the accessories for strand and plait, in open version, in the automatic type and in the union one. The material choice, the working care, the modern technologies used and the continuous check in every production phase are since always a synonymous of the best reliability and use safety. CONTEC srl guarantees continuously availability, assistance, consultancy and use accessories. It is kindly recommended to use the open anchorage in the stressing jack side and the automatic one in the opposite side, to guarantee the maximum safety during the prestressing operation. To increase life and safety, we recommend using the automatic anchorages for the plait, mostly in prestressing lines for small beams, vineyard piles, bottoms, etc.



	Open grip			Automatic grip			Double Ended Joint					
	d5-6 2x2,25 3x2,25 3x3mm	3/8"	1/2"	6/10"	d5-6 2x2,25 3x2,25 3x3mm	3/8"	1/2"	6/10"	d5-6 2x2,25 3x2,25 3x3mm	3/8"	1/2"	6/10"
Diam.barrels(mm)	24	35	44	50	24	35	44	50	25	35	44	50
Lenght barrels (mm)	24	36	47	57	66	76	97	103	118	157	198	210
Max load (kN)	64	102	209	300	64	102	209	300	64	102	209	300
Min.center dist.	25	35	45	50	25	35	45	50	25	35	45	50



3.1 CT18-Ultrasonic Cleaning Equipment for Anchorage material

The cleaning and the maintenance of the anchorage material are a guarantee of the complete and reliable seal during their use.

CONTEC srl has studied and realized specific cleaning equipment with ultrasounds for the cleaning and the maintenance of the anchorage wedges for the prestressing moulds. Thanks to the treatment in automatic cycle, the cleaning of the wedges and of their relative fittings is very simple and allows assuring always the maximum reliability and safety in the use of the whole anchorage material, increasing its life.

Bearing structure in stainless steel, supporting a tank destined to the washing in warm detergent solution, activated by the ultrasounds.

Building characteristics: tank made in AISI 304 stainless steel, thickness 20/10 mm., with TIG-welding specially pickled; tank bottom tipped towards the discharge; discharge valve in chromium-plated brass; insulation of the heated areas; heating with stainless resistance (1x900 Watt.); temperature control (thermostat with probe); group with ultrasounds piezoelectric (300/600 W., 25 kHz), composed by 1 transducer on the bottom of the tank and 1 generator separated with power variator; external fairing with plates easy to remove, made of glazed stainless steel, thickness 10/10 mm; manual cover in stainless steel, provided with a hand grip; realization according to the CE european standards; feeling tension: 230V 1 ph+T; internal tank dimensions: 250 x 200 x 350 h. mm. Aprox; tank dimensions: 450 x 696 x 900 h. mm. aprox.; removable basket in 3 sections; tank capacity 18 lt



3.2 REAG.CT-The best lubricant for the anchorage material which increases the life and the safety

The Specific lubricant Reag-Ct increases the life and the use safety; lubricant spray easy to use of great efficacy.

3.3 Shear CUT.CT- The specific Shear to cut the strand

The shears "CUT-CT" are used, thanks to its practicality, to cut strands along the prestressing lines, during the strands laying and the dismantling of the line. The machines are completely self-contained and can be connected to the normal wire net in 220 Volt; they are made of an high speed electric motor on which an high pressure hydraulic pump is keyed.; the pump sets directly on a hydraulic jacks which controls the cutter sliding and the head shape allows its use also in reduced spaces.

Shear for strand	CUT4	CUT6
Strands	1/4" 3/8"	3/8" 1/2" 6/10"
Motor power	1100W	1150W
Voltage	220V	220V
Revolutions rpm	10.000	14.000
Max. force	12000daN	30000daN
Max. pressure	700bar	700bar
Simple effect	▲	▲
Weight (kg)	14,8kg	14,8kg
Dimensions	52x12x13cm	48x14x24cm
Standard equipment	▲	



3.4 SBLOC-Wedges Release Equipment

Specific equipment to release the anchorage wedges from the strand pieces after the dismantling from the prestressing ling. The equipment is made of a hydraulic group controlled with a pump unit complete with tank, motor-pump group, and lever control, overload cutout. Its firmness and its use easiness give the possibility to carry it near the anchorage heads. The series normal outfit includes special reductions for plait and strand till 6/10". Waterproof electrical board, complete with outlet for the connection to the portable SBLOC/P equipment (if requested). Available in single or double version



4. SPIT.CT- Pushing Strand Machine

The **Pushing-strand machines SPIT-CT** help and automate the strand laying along the production lines.

Our equipment for the pushing of the strands on the prestressing lines can be used interchangeably for 3/8", 1/2" or 6/10" strands, and they can be arranged in 3 principle versions:

The first **SPIT.V** is the base model and generally the most used to insert the strands inside the armour cages already wrapped and placed on the line. The second **SPIT.VA** is usually used with very long prestressing lines (over 100m) because can be installed along the line and to be used together with the basic version to push very long strands. The structure is lower opened and after that the strand has been pushed, it can be deposited on the bottom, in order to allow the passage of the next strands.

The third version **SPIT.VP** allows to programme the quantity and the length of the strands to pull; the machine pulls and cuts as planned in automatic sequence; the use of this equipment requires a working procedure that allows a collecting channel of the strands.

The **BIS** supplement can be applied in SPIT/V version and it is convenient to reduce the laying times working with to operators because while the 1st operator, after placing a strand he comes back to the machine, the 2nd operator can start with another strand, in order to the machine operates almost continuous cycle.

Technical data sheet	SPIT.V	SPIT.VA	SPIT.VP
Strands	3/8"-1/2"-6/10"	3/8"-1/2"-6/10"	3/8"-1/2"-6/10"
Standard	▲	—	—
Opening System Lower	—	▲	—
Programmable System	—	—	▲
Rollers/channels	4/3	4/3	4/3
Electric motor	2,2 kw	2,2 kw	2,2 kw
Radiocontrol	Autec or Rem	Autec or Rem	Autec or Rem
Doubleradiocontr.	∅	∅	∅
Security sensor	▲	▲	▲
Fix wheels	d38 cm.	d38 cm.	d38 cm.
Rotating wheels	d16 cm.	d16 cm.	d16 cm.
Count-meters	—	—	▲
Q.tity programming	—	—	▲
Board control	▲	▲	▲
Remote control	▲	▲	▲
Automatism	—	—	▲
Max. push	280 daN	280 daN	280 daN
Tension Volt/Hz	220-380/50	220-380/50	220-380/50
Speed	10-40m/1'	10-40m/1'	10-40m/1'
Blinking light	▲	▲	▲
Acoustic signal	▲	▲	▲
Stabilizers	▲	▲	▲
Inverter	▲	▲	▲
Aut. Shear SuperCut	∅	—	▲
External Shear Cut6	∅	∅	∅
Standard equip.		▲	
On request		∅	
Not possible		—	



The complete and extensive experience acquired by **CONTEC srl** in many years of activity allows you to present a complete range of equipment for detensioning and multi stressing systems with automatic electronic control, proven reliability and operational safety.

5.1 Hydraulic Detensioning Pump Unit

Our pumps are built with components of great reliability and they are available in different versions according to the requirements of use; we always recommend to use equipment equipped with check valves to guarantee the maximum safety in every phase of use. The manual controls with levers ensure a safe and immediate control in the maneuver.

Technical data sheet PUMP UNITS	HRP3	HRP4	HRP4B-2E	HRP23
Electric motor kW	4	5,5	5,5	17
Tension	220/380 Volt - 50 Hz			
Radial hydr. pump	Hawe			
Max. pressure	330bar			
Flow rate l/1' 1500rpm	7	8,4	8,4	23
Oil tank capacity lt.	200	300	300	600
Ant. rotat. Wheels 160 mm	▲	▲	▲	—
Back wheels d380 mm.	▲	▲	▲	—
Weight kg	200	240	250	350
Oil	AGIP OSO			
Electric board	IP55			
Exit nr. 3/8"	4	4	4	4
Simple effect	▲	▲	—	—
Double effect	—	—	▲	▲
Safety valves	∅	∅	∅	∅
Pipes h.p. 3/8"	∅	∅	∅	∅
Pipes h.p. 1/4"	∅	∅	∅	∅
Supplem. distr. d.e.	—	—	▲	▲
Aut. semi-coupling	∅	∅	∅	∅
Flow distr.	▲	▲	▲	▲
Carter	—	▲	▲	▲
Acoustic temp. signal	▲	▲	▲	▲
Blinking light	▲	▲	▲	▲
« SincroSystem »	—	—	∅	∅
Standard equip.	▲			
On request	∅			
Not possible	—			



5.2 Multistressing system with Dynamometric Control

In the prestressing production lines for Hollowcore floor panels is possible to install an apparatus for simultaneously tensioning strands with automatic control of the race and the applied load.

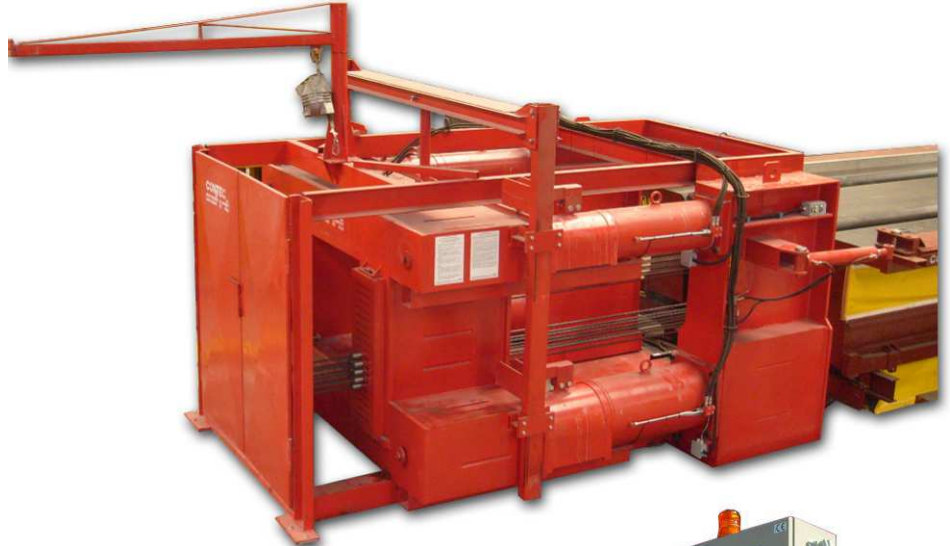
Total loads applied from 1000 to 6000 kN, stroke from 100 to 200cm.



SINCRO4TP-SuperSelCT allows the detensioning in the prestressing installations with four jacks, in a safe and simultaneous way. It assures the movement of the anchorage crosspiece in a regular and aligned way, even with loads that are not in barycentre axis with the structure. The system is based on a control unit with a synchronization group and on four jacks with double effect for the detensioning appropriately equipped. It allows the safe total control of the four jack simultaneous and synchronized stroke, and also the **control of the applied load, the memorization and the printing of the report**, according to the prerogatives of the patented system SuperSelCT.

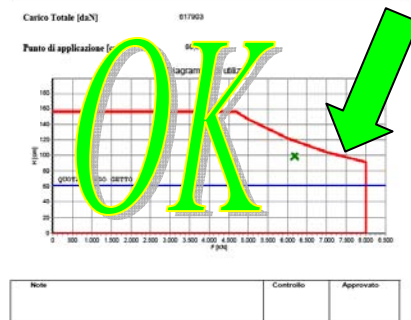
SINCRO4TP-SuperSelCT allows the prestressing in an automatic and simultaneous way and assures the maximum safety of the workers. The system is equipped with special devices to read the applied load on each one of the four detensioning jacks and allows displaying on a special SuperSelCT display all information of the system. The **SINCRO4** simplified version allows the synchronized movement without programming and recording of the loads.

	SINCRO	
	4	4TP
Simultaneous multiple first prestressing	▲	∅
Final single prestressing	▲	∅
Single first prestressing	—	▲
Simultaneous final multiple prestressing	—	▲
Fixed oil pump unit	—	▲
Oil pump unit on wheels	▲	—
Metallic housing	▲	▲
Protection cover	▲	—
Oil tank	300lt.	600lt.
Exit with 4 lines	▲	▲
Aut./manual selection	▲	▲
Distr. with 4 levers/manual	▲	▲
Suppl. distr. with 2 levers	▲	▲
Managing microprocessor	▲	▲
Potentiometers	—	▲
Pump with pistons	Hawe	Hawe
Capacity	8,4 l/1'	8,4 l/1'
Max. pressure	400bar	400bar
Operating pressure	360bar	360bar
Control manometer	▲	▲
Electrical motor	5,5kw	5,5kw
Voltage	380V	380V
IP65 electrical board	▲	▲
Blinking light	▲	▲
Acoustic signal	▲	▲
Pushbutton	▲	▲
Safety valves	▲	▲
H.P. flex. tubes	▲	▲
Read on the display:		
Jack stroke	▲cm.	▲cm.
Single load	—	▲kN
Total load	—	▲kN
Barycentre height	—	▲cm.
Jack pressure	—	▲bar
Max. load STOP	—	▲
Max. pressure STOP	—	▲
Min. load STOP	—	▲
Palmtp connection	—	▲
Download	—	▲
Report printing	—	▲
Jacks with double effet	▲	▲
Anti-rotation of the stem	▲	▲
Strain gauge protection	▲	▲
Pressure transducers	—	▲
Hydraulic collars	▲	▲
Monolithic crosspiece	▲	▲
SuperSelCT programme	—	▲
Standard equipment	▲	
On request	∅	
Not possible	—	



CONTEC S.p.A. Contec
35010 - Carrignano di Erenza (PD) - Italy
www.contec-italy.eu
Formworks & Prestressing Equipment

Matricola	E59000F	Data	12/06/2000
Cassero	Forma 8000 450	Messa	
Commessa			
Pressione [bar]	Carico [daN]		
Martinetto 1	170	20080	
Martinetto 2	170	19467	
Martinetto 3	170	19467	
Martinetto 4	172	20940	





Our **Detension Jacks HRJ** in special edition for Prestressing lines are made in simple or double effect with max. capacity from 350 to 10.000kN and with useful stroke from 12 to 100 cm; all jacks has extra safety stroke of 5cm; they are manufactured in Mannesman pipe without welding (Fe 510 certified), bottom with strong thickness, plated and ground stem; gaskets for high pressures, guide rings in synthetic material, external scraper ring, eyebolt to lift, distance rings with inner rubber surface and blockage screws for manual movement; at request: are available the spacer rings with centralised hydraulic system for the movement in complete safety.

The jacks can be equipped with **special safety blockage valves** with piloted control, to guarantee the immediate stop in case of breakage of the feeding pipes.

Max. pressure 360bar. All the jacks with double effect are equipped with special safety blockage valves with piloted control, fixed with flange, to guarantee the immediate stop in case of breakage of the feeding pipes; the same valves are also available as an option for single-acting cylinders.

The double-acting jacks can be used with the **SuperSeleCT Sincro4TP System**.

Max Power kN	Single acting "se" Double acting "de"	Stroke cm	Lenght mm	Oil capacity Lt.	Weight with colliers kg	Outer diameter mm	Bore mm	Diameter stem mm	Useful area Sq.cm	Max. pressure bar
350	se	15-20-25 30-35-40	340-390-440 490-540-590	1,7-2,2-2,8 3,3-3,9-4,5	47-54-61 67-75-82	150	120	100	103,09	309,5
	de	20-30-40 50-60-70	490-590-690 790-890-990	2,2-3,3-4,5 5,6-6,7-7,9	68-82-96 109-123-137	150	120	80	103,09	309,5
500	se	15-20-25-30 35-40-60	340-390-440-490 540-590-790	2,3-3,1-3,9-4,6 5,4-6,1-9,2	60-69-78-87 96-105-141	170	140	110	153,93	324,8
	de	20-30-40-50 60-70-90	490-590-690-790 890-990-1090	3,1-4,6-6,1-7,7 9,2-10,8-13,8	87-105-123-141 158-176-194	170	140	110	153,93	324,8
750	se	15-20-25 30-35-40	340-390-440 490-540-590	4,4-5,9-7,4 8,8-10,3-11,8	92-106-119 133-147-160	210	180	165	254,46	294,7
	de	20-30-40 50-60-70	525-625-725 825-925-1025	5,9-8,9-11,8 14,7-17,6-20,6	143-170-197 224-251-278	210	180	120	254,46	294,7
1.000	se	15-20-25 30-35-40	340-390-440 490-540-590	4,8-6,3-7,9 9,5-11-12,5	84-96-108 121-133-145	240	200	190	314,16	318,8
	de	20-25-30-40 50-60-70-90	505-555-605-705 805-905-1005-1205	6,3-7,9-9,4-12,6 15,7-18,9-22-28,3	96-137-149-174 198-223-248-297	240	200	150	314,20	318,8
1.500	se	15-20-25 30-35-40	370-420-470 520-570-620	6,2-8,3-10,4 12,5-14,6-16,6	166-189-211 234-256-279	270	230	220	415,47	361
	de	20-25-30-40 50-60-70	505-555-605-705 805-905-1005	8,3-10,4-12,5-16,6 20,8-24-29	227-249-272-317 362-407-452	270	230	180	415,50	361
2.000	se	15-20-25 30-35-40	380-430-480 530-580-630	9,2-12,3-15,4 18,5-21,5-24,6	240-271-303 334-366-398	320	280	270	615,75	324,8
	de	20-30-40 50-60-70	515-615-715 815-915-1015	12,3-18,5-24,6 30,8-37-43	325-388-451 514-577-640	320	280	240	615,80	324,8
2.500	se	15-20-25 30-35-40	390-440-490 540-590-640	12-16-20 24-28-32	320-361-402 443-484-525	365	320	310	804,24	310,8
	de	20-30-40 50-60-70	525-625-725 825-925-1025	16-24-32 40-48-56	431-513-595 677-759-842	365	320	280	804,24	310,8
3.000	se	15-20-25-30 35-40-60	390-440-490-540 590-640-840	14,5-19,3-24-28,9 33,7-38,5-57,8	390-440-490-540 591-641-841	403	350	340	962,11	311,8
	de	15-20-30-40 50-60-70-90	475-525-625-725 825-925-1025-1225	14,4-19,2-28,9-38,5 48-57,8-67,3-86,6	475-525-626-726 826-926-1026-1226	403	350	300	962,11	311,8
3.500	se	15-20-25-30 35-40-50	390-440-490-540 590-640-740	14,9-19,8-24,8-29,8 34,7-39,6-49,5	418-471-525-579 632-686-793	417	355	345	989,8	353,6
	de	20-30-40 45-60-70	545-645-745 795-945-1045	19,8-29,7-39,6 44,6-59,4-69,3	585-691-799 852-1013-1120	417	355	310	989,6	353,6
4.000	se	15-20-25 30-35-40	395-445-495 545-595-645	18-24-30 36-42-48	504-568-606 695-759-823	455	390	380	1194,6	334,8
	de	20-30-40 50-60-70	520-60-720 820-920-1020	24-36-48 60-72-83	664-791-919 1046-1174-1302	455	390	350	1194,6	334,8
5.000	se	15-20-25-30 35-40-60	430-480-530-580 630-720-880	21,8-29-36-43 51-58-87	676-755-833-912 990-1132-1383	505	430	415	1452,2	344,3
	de	20-30-40-50 60-70-90	520-620-820-870 970-1070-1270	29-43-58-72 87-102-130	817-975-1289-1368 1525-1682-1997	505	430	360	1452,2	344,3
6.000	se	10-15-20-25 30-35-40-50	380-430-480-530 580-630-680-780	17-26-34-43 52-61-69-87	721-817-911-1006 1101-1196-1291-1481	555	470	460	1734,9	345,9
	de	20-30-40 50-60-70	550-650-750 850-950-1050	35-52-69 87-104-121	1044-1234-1424 1614-1804-1994	555	470	400	1734,9	345,9
7.000	se	15-20-25 30-35-40	450-500-550 600-650-700	29,4-39,2-49 58,9-68,7-78,5	1015-1128-1241 1354-1467-1579	605	500	490	1963,5	356,5
	de	20-30-40 50-60-70	550-650-750 850-950-1050	39,2-59-78,5 98,1-117,8-137,4	1241-1467-1692 1918-2144-2369	605	500	430	1963,5	356,5
8.000	se	10-15-20-25 30-35-40	400-450-500-550 600-650-700	23-34,3-45,8-57,2 68,7-80,1-91,6	985-1108-1231-1354 1477-1600-1724	632	540	530	2290,2	349,3
	de	20-30-40 50-60-70	570-670-770 870-970-1070	45,8-68,7-91,6 114,5-137,4-160,3	1403-1650-1896 2142-2389-2635	632	540	450	2290,2	349,3
10.000	se	15	480	42,4	1483	708	600	590	2827,4	353,4

Buckets type "BE-System" servo-controlled to cast concrete, with box shape, with rounded borders and various capacity. Tank and inferior longitudinal mouth with a single shell with baffle in Hardox HB400 anti-wear steel. Hydraulic opening system, composed with a hydraulic oil pump unit, with electrical feeling and charge accumulators (truck type), couple of hydraulic jacks with double effect, with blockage valve. Hook on a horizontally pivoted traverse, control push-button with 5 m. of cable. Setting of the oil pump unit and of the electrical board in waterproof box and in a protected position, with covering carter. On request different sizes, double mouth and hooks different from the standard ones.

Technical data sheet	BE15	BE25	BE30	BE35	BE42	BE50
Tank capacity (m ³)	1,5	2,5	3	3,5	4,2	5
Weight (kg)	1100	1300	1370	1400	1500	1730
Electric-Hydraulic pump	▲	▲	▲	▲	▲	▲
Nr. 2 Batteries	▲	▲	▲	▲	▲	▲
Tension 12Volt	▲	▲	▲	▲	▲	▲
Discharge width 20cm	▲	▲	▲	▲	▲	▲
Discharge width 40cm	∅	∅	∅	∅	∅	∅
Automatic Battery charger	∅	∅	∅	∅	∅	∅
Pendant push-button	▲	▲	▲	▲	▲	▲
Tank material Hardox 400	▲	▲	▲	▲	▲	▲
Eye hook fixed	▲	▲	▲	▲	▲	▲
Tilting hook	∅	∅	∅	∅	∅	∅
Radiocontrol	∅	∅	∅	∅	∅	∅
Other dimension/ capacity	∅	∅	∅	∅	∅	∅
Trolley to transport	∅	∅	∅	∅	∅	∅
Emergency hydr. pump	∅	∅	∅	∅	∅	∅
Manually operated of opening	∅	∅	∅	∅	∅	∅
Standard Equip.				▲		
On request				∅		

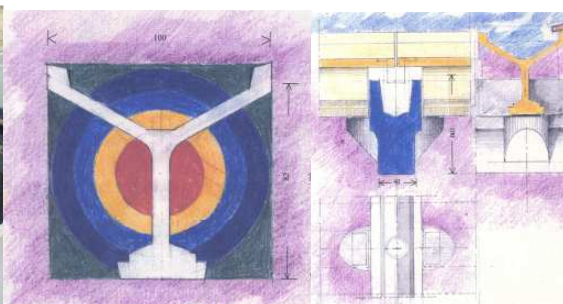


7. CONTEC Advice & Assistance

The organizational structure and the experience of Contec srl allows you to provide customers with technical advice and after-sales service of the highest quality. The technical staff can provide advice or the design for prefabricated elements that can affect the customer. We can propose the design calculations for precast elements and foundations of the lines of prestressing.

The service is carried directly to the operations of assembly and testing after delivery of our equipment, for maintenance and for any request by the customer.

We are in contact with our customers before, during and after the sale of our equipment.

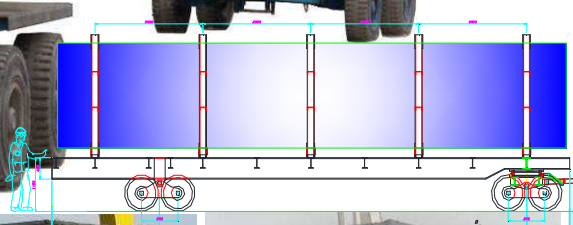
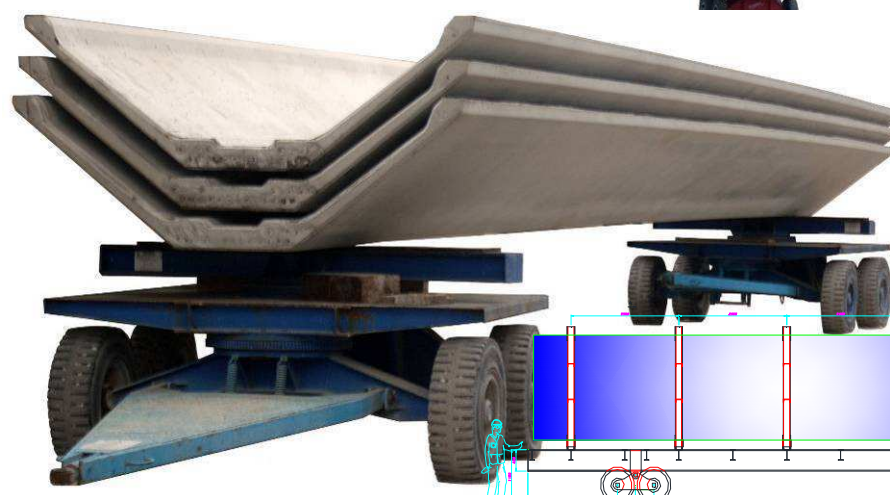


Trolleys to transport the precast elements; capacity 30, 50, 60 tons.

All the trolleys are made in welded carpentry, fifth wheel to bear the load of to steered industrial type with lubricators; tow rudder with type approved towing eye and suspension spring; front and rear trolleys with double axle; superelastic self-sealing pneumatics in full rubber, with 3 sectors with anti-abrasion treads, intermediate coat in elastic amortizing rubber, internal heel with high elastic mod with safety hook to the rim, external diameter ca. 690 or 790 mm, width ca. 235 cm, disk with plate base with lateral detachable rings, axle shafts (without brake) with studs in square bar.

- **Code CTM50TB:** couple of trolleys for transport with a total max. capacity of 50 tons, composed with anterior steered trolley with double nearer axle, superior fifth wheel to bear the load and superior traverse; frame for connection between the trolleys for the unladen tow of rear trolley; posterior fix trolley with double nearer axle complete with superior traverse (width 235 cm), to bear the load;.
- **Code CTM15+15 or CTM30+30:** Couple of trolleys with each one a max. capacity of 15 or 30 tons, composed with couple of frame in rugged welded carpentry and each one equipped with a structure in welded beams with 2 axes with single wheels; every trolleys (front and rear) is equipped with superior traverses bearing the loading floor on the fifth wheel capacity 15/30 tons with lubricators, steered axle on the fifth wheel with lubricators; fix posterior axle; **Power Steering device** (standard equipment in CTM30+30, option on require for CTM15+15) in the rear trolley controlled by a hydraulic pump unit, fed by a couple of batteries (truck type); installation in a protected box; hydraulic power group with tank, electrical motor, pump; board of electrical feeding in a protected box; control with push-button panel with 2 buttons and 5m feeding cable; automatic equipment to recharge the batteries; on request equipment to fix the precast to be applied with bolts and nuts on the bearing traverse.
- **Code CTM50TT:** trolley with max. total capacity of 50 tons, composed with: front steered trolley with double nearer axle; rudder for telescopic connection for the axle base of the trolleys, which can be regulated between ca. 8 m and ca. 12 m., realized in a box-type structure, welded with coupling pivots of the extractable elements. Total length of the equipment from 11 to 17 m; rear fix trolley with double nearer axle.
- **Code CTM70P:** specific equipment for the transport of prefabricated panels inside the plants, with max. Total capacity of 70 tons and load uniformly distributed on the expected support points with limit 6.000kg per wheel and max. speed 5km/hour, front steered trolley with industrial bearings fifth wheel, **fix rear trolley** with nearer double axle and oscillating with balancers on pivot with bearings.
- **Code CTM100R:** specific trolley for panels with electric motors and wheels on rails

Technical data sheet	CTM 50TB	CTM 15+15	CTM 30+30	CTM 50TT	CTM 50P	CTM 100R
Capacity (tons)	50	15+15	30+30	50	50	50+50
Weight (kg)	3300	3900	5600	5000	7000	3000
Trolley	2	2	2	2	—	2
Load platform (m)	—	—	—	—	10x2,5	—
Load fifth wheel	—	2	2	—	—	∅
Steered fifth wheel	1	2	2	1	1	—
Draft rudder	1	2	2	1	1	—
Extensible frame 8-12m	—	—	—	▲	—	—
Extensible frame 12-16m	—	—	—	∅	—	—
Special pneumatics	▲	▲	▲	▲	▲	—
Steel wheels with groove	—	—	—	—	—	▲
Sliding on floor	▲	▲	▲	▲	▲	—
Sliding on rails	—	—	—	—	—	▲
Wheels number	4+4	4+4	4+4	4+4	4+4	4+4
Trestles for loading	∅	∅	∅	∅	∅	∅
Hydraulic rear control	—	∅	▲	∅	—	—
Radiocontrol	∅	∅	∅	∅	∅	∅
Electric motors	—	—	—	—	—	4+4
Standard equip.				▲		
On request				∅		
Not possible				—		



Lifting systems BT/BAP/PZ:

With trestle or with caisson, self-centering, with capacity from 5 to 20 tons, changeable length, with hydraulic grip systems



Our professionalism and the 'experience gained in many years of service in the field of prefabrication allow us to meet any production requirement with specific equipment to solve the problems of transport and casting service in the prefabrication plants.



Motorized Dispenser of Concrete



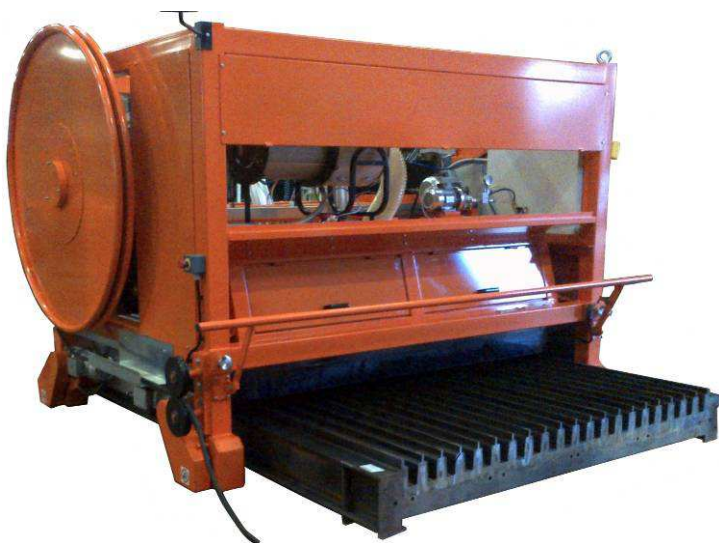
Trolley for Buckets



Bucket for fork-lift



Special Motorized Trolley for Buckets

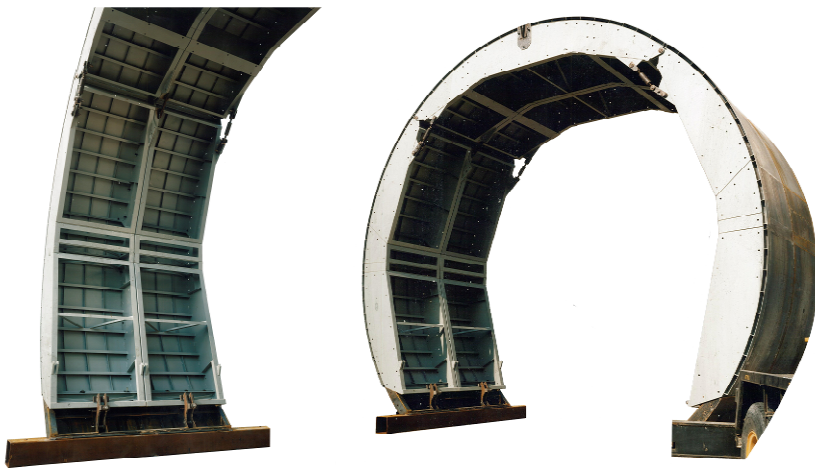


Machine for cleaning and oiling of formworks

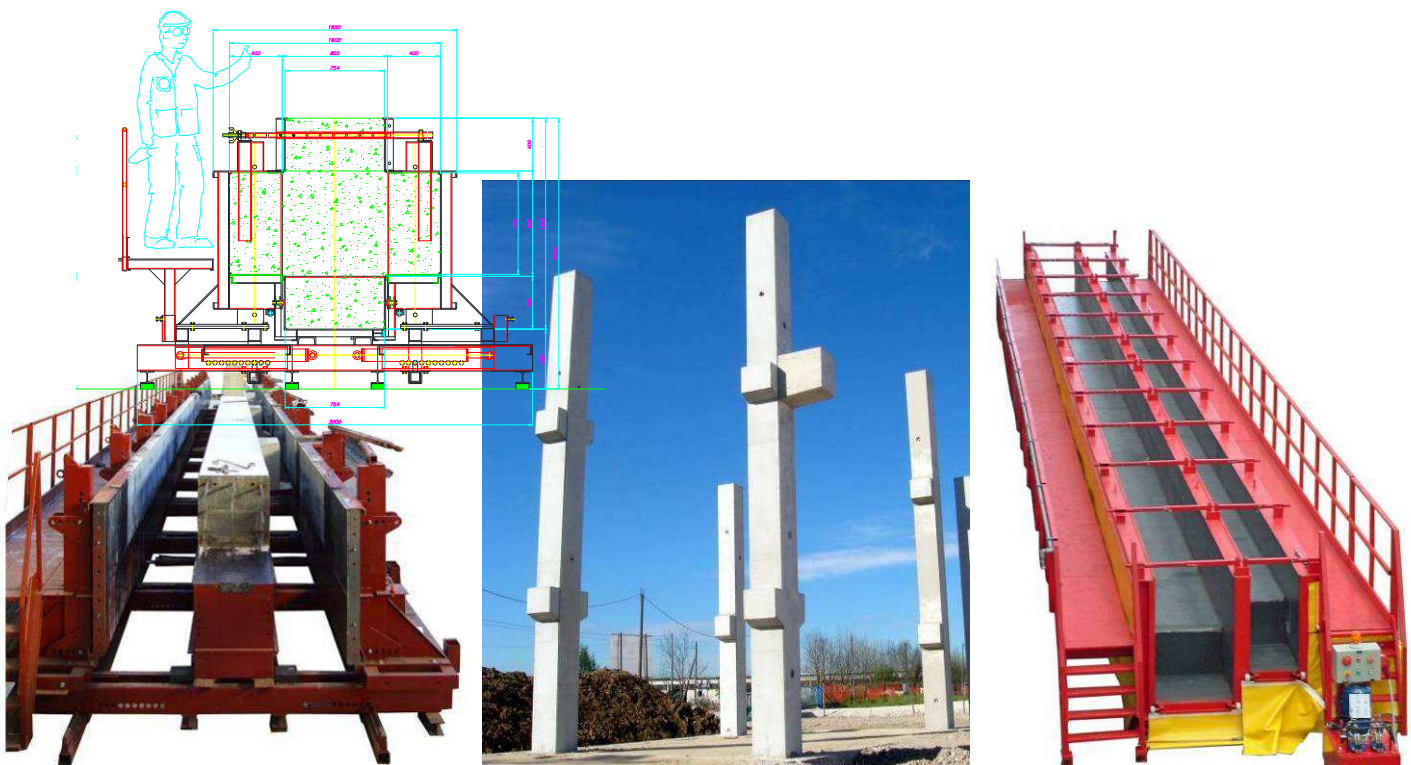


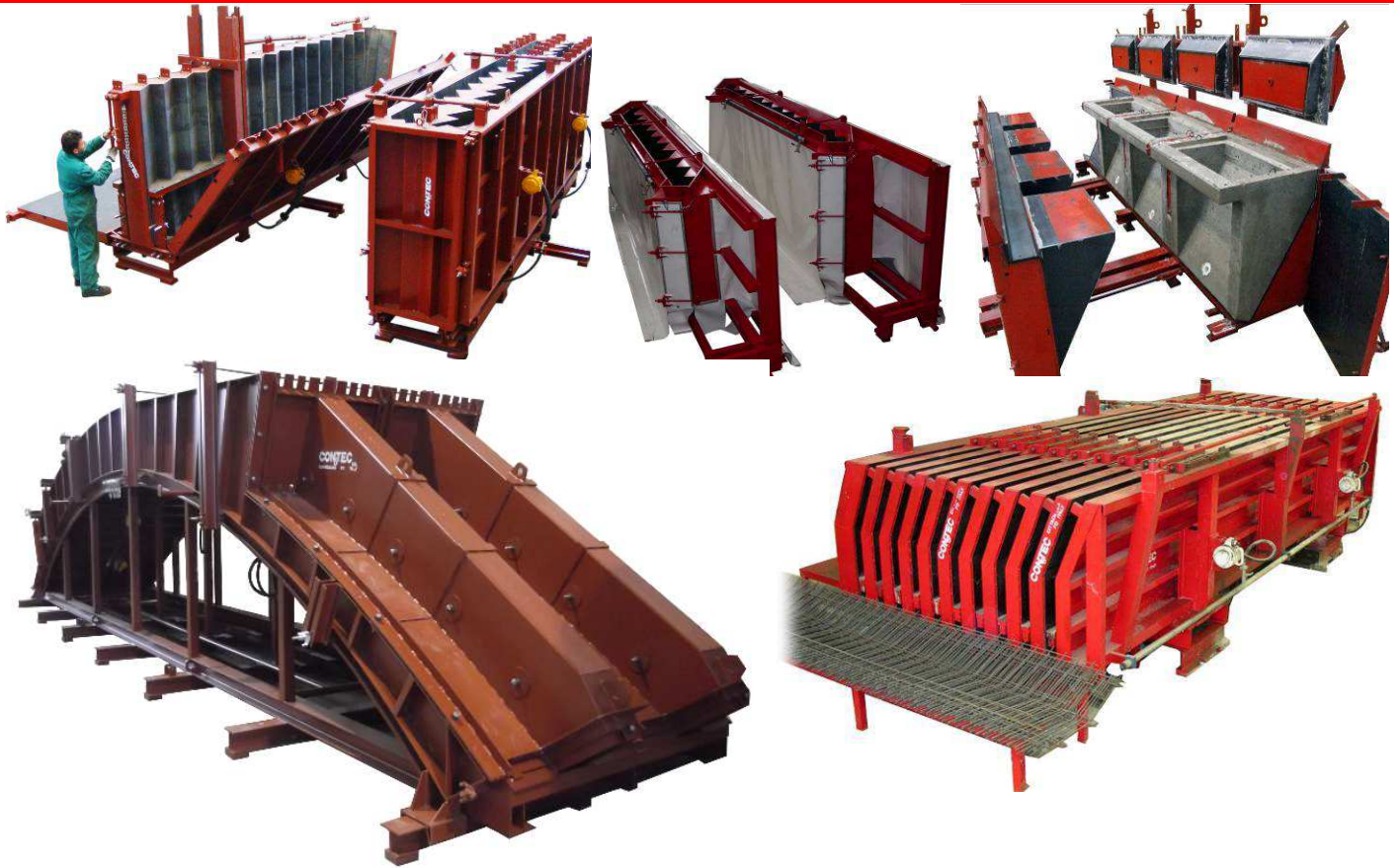
Motorized Equipment for laying tarps of insulation

11.1 Special Formworks for casting on site



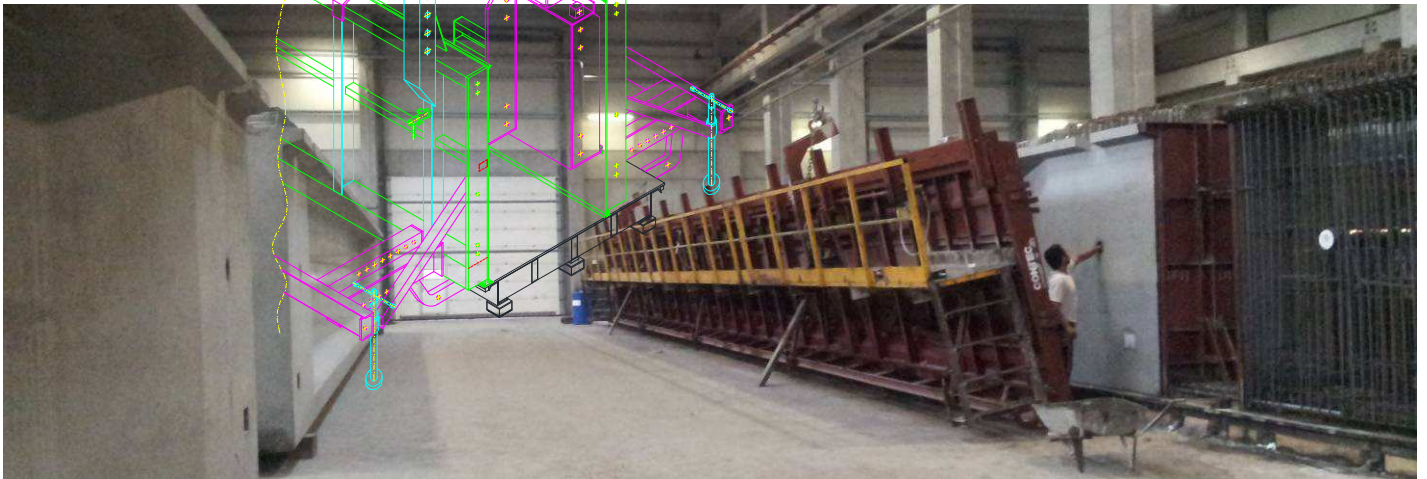
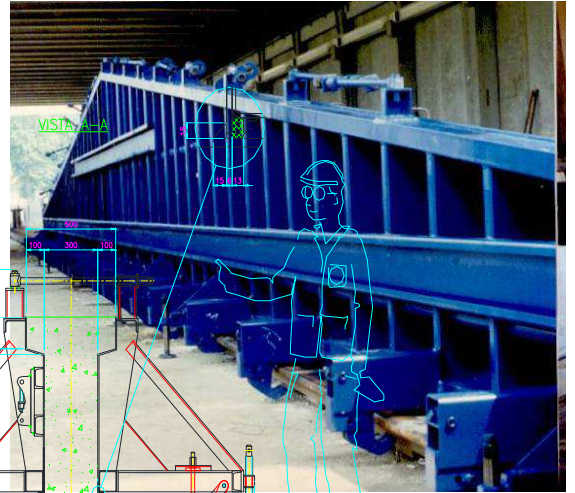
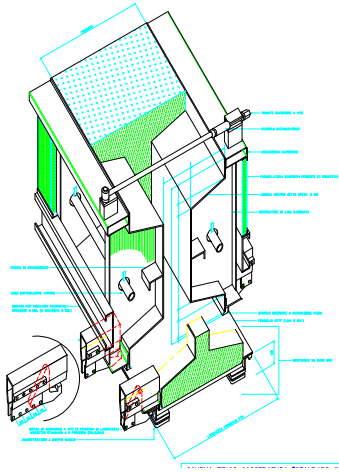
11.2 Formworks for Precast Pillars

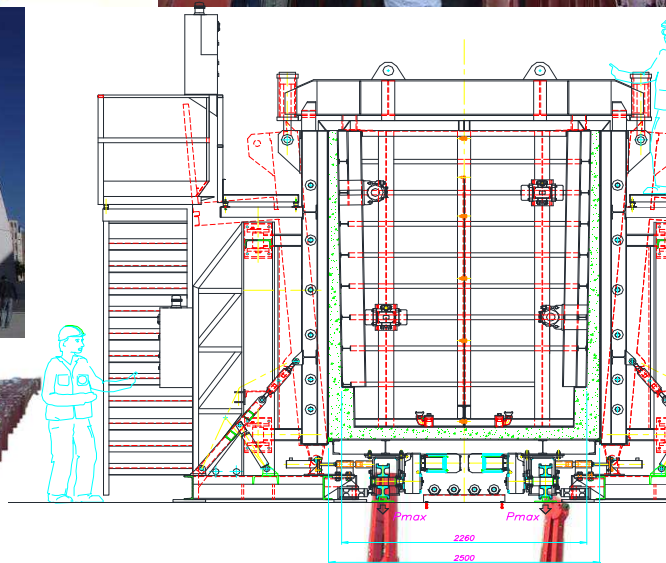
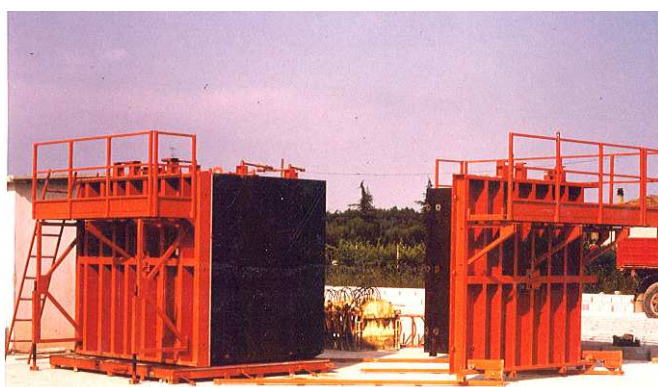


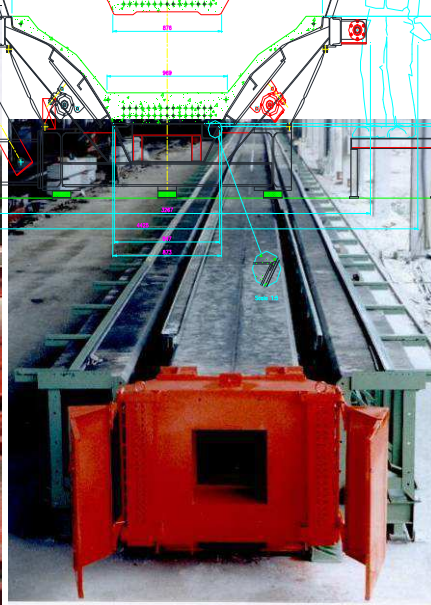
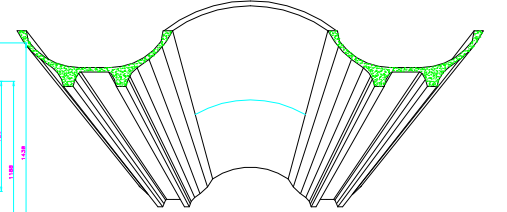
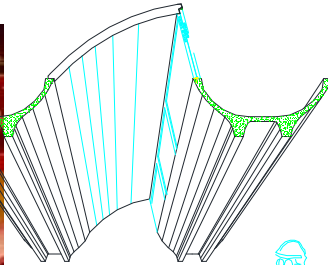
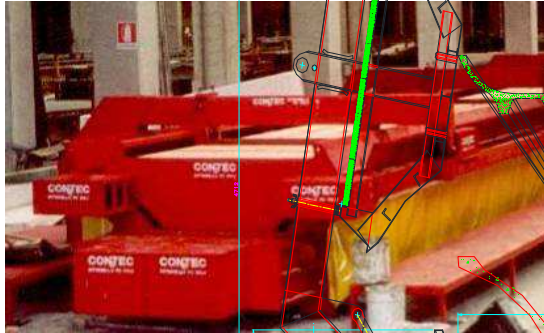


11.4 Prestressing Anchor&Detensioning System



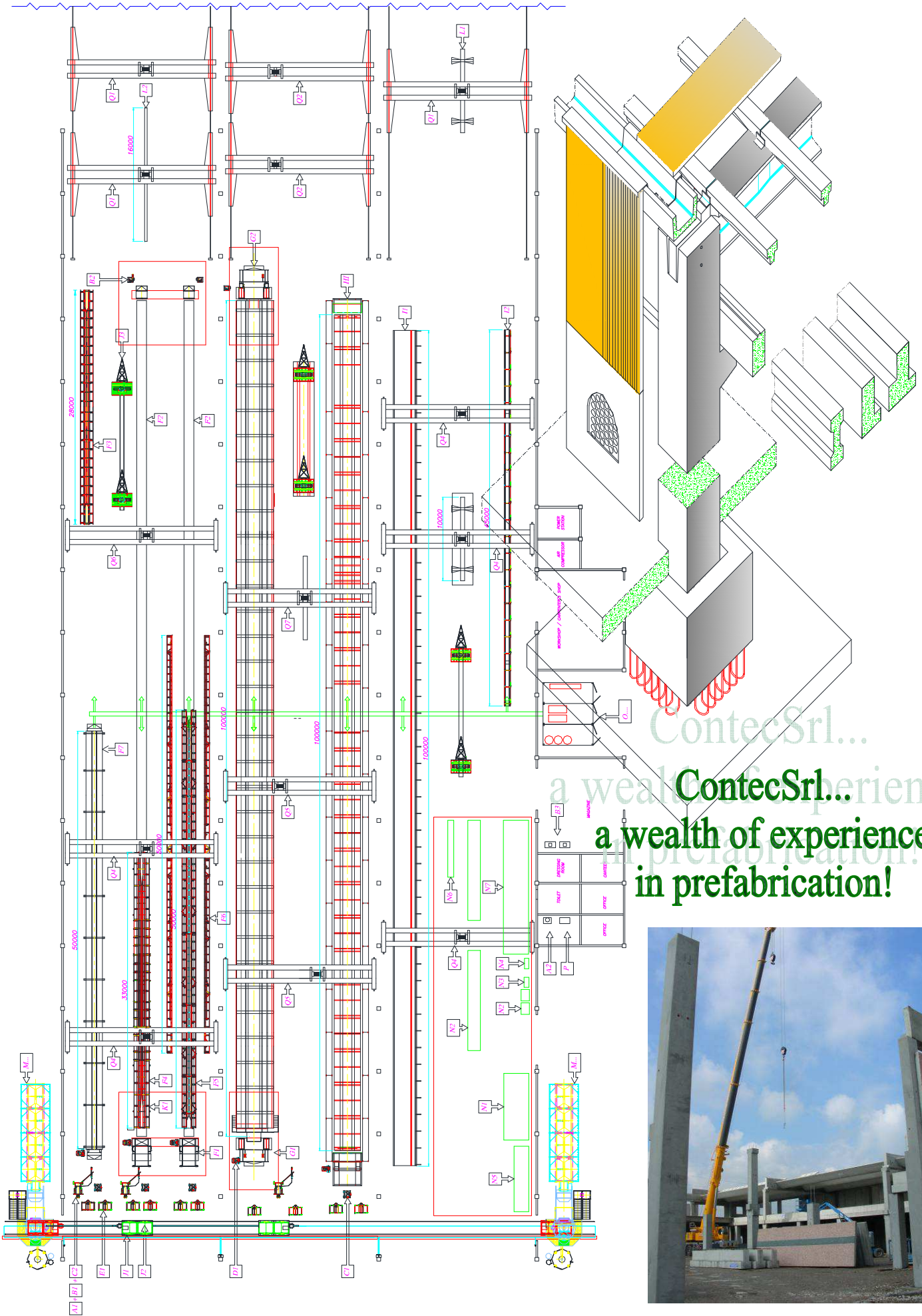






We have a wide range of accessories for formwork gaskets, magnetic strips, magnetic locking devices, pneumatic vibrators fixed and sliding, vibration power systems to meet every need of prefabrication. All components and accessories offered come from a best collaboration between CONTEC srl and the most qualified specialist companies.





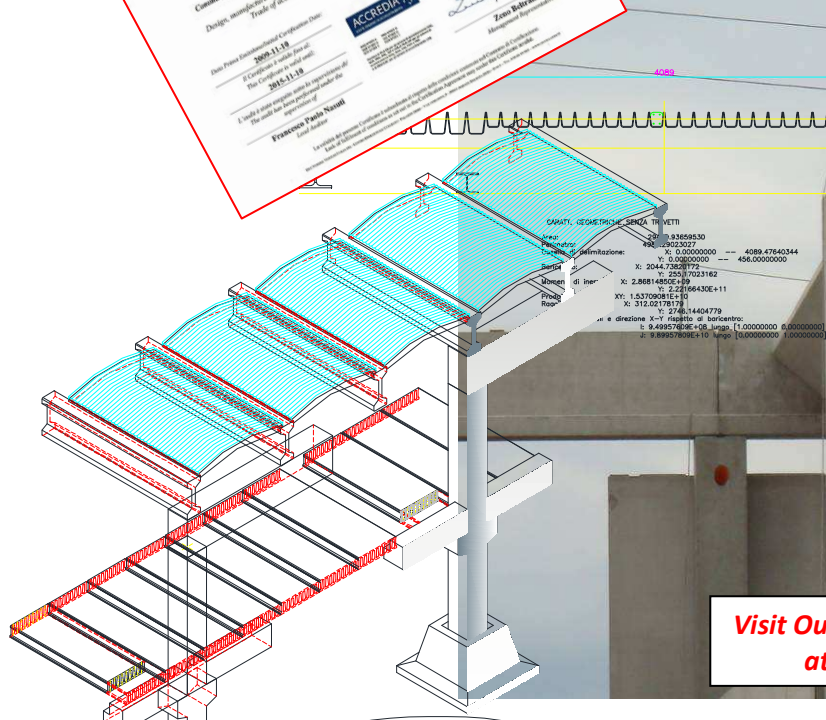
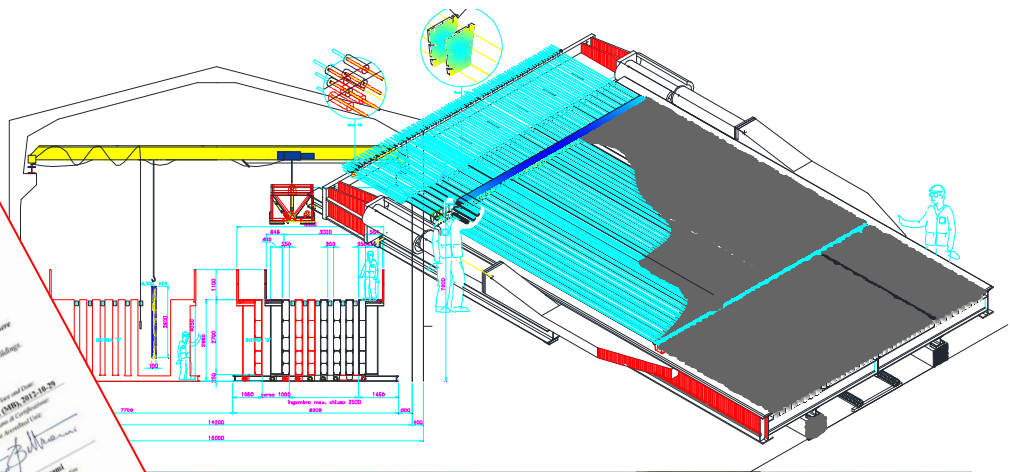
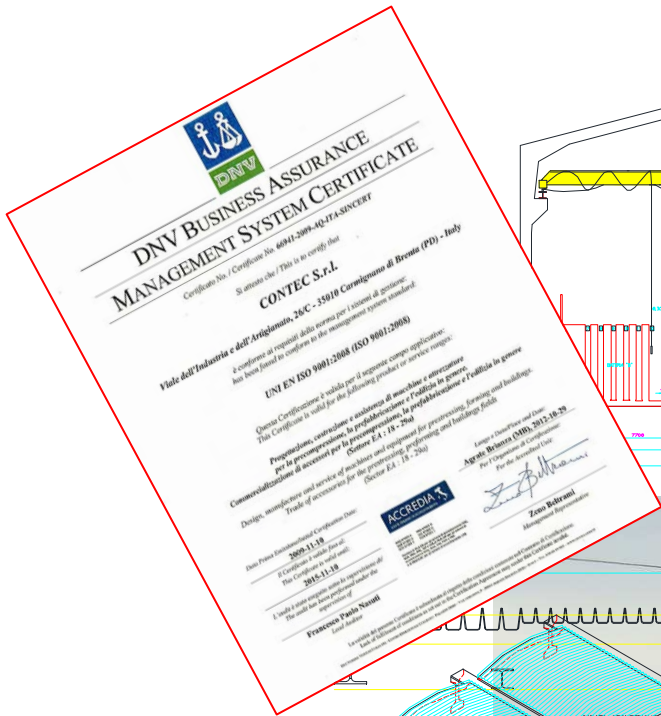
ContecSrl...
 a wealth of experience
 in prefabrication!
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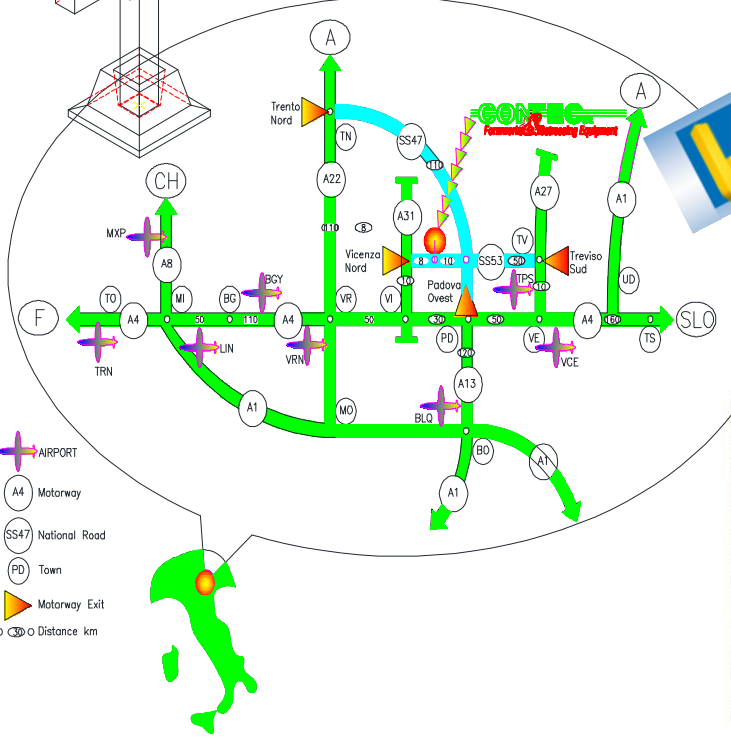


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Formworks & Prestressing Equipment



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Advertising Document Edition BAUMA-2013 (PubliEUROdepBauma2013A4 rev2)