

Säljaren åtar sig att för köparens räkning utföra leverans enligt nedan.

Köpet finansieras genom leasingbolag, varför det formella köpet görs av annan part som meddelas senare.

1

Omfattning / Scope

Delivery of two (2) HÄNY Grout Plants according to the following specification:

| <u>Units</u> | <u>Description</u> | |
|--------------|---|-------------------------|
| 2 | GROUT PLANT MCI 650/610-625 For mounting on a platform approx. 650 x 240 cm, consisting of: | |
| 1 | HIGH-SHEAR MIXER HCM 300 | |
| | Mixing Pump | TMP 22 |
| | Circulation capacity | 1 400 l/min |
| | Speed of mixing pump | 1 750 min ⁻¹ |
| | Specific gravity γ max. | 1.88 kg/dm ³ |
| | Usable content | 260 l |
| | Mixing capacity (w/c ratio = 1) approx. | 6 m ³ /h |
| | Electric motor 400 V | 9 kW |
| 2 | AGITATOR HRW 350 | |
| | Tank content | 350 l |
| | Electric motor 400 V, 50 Hz, 1 450 min ⁻¹ | 0,55 kW |
| 2 | GROUT PUMP ZMP 610V | |
| | Max. output | 25 l/min |
| | Max. pressure | 100 bar |
| | Min. pressure | 3 bar |
| | Max. grain size | 5 mm |
| | Electric motor 400 V, 50 Hz, 1 450 min ⁻¹ | 5,5 kW |

2

GROUT PUMP ZMP 625V

| | |
|--|----------|
| Max. output | 33 l/min |
| Max. pressure | 100 bar |
| Min. pressure | 3 bar |
| Max. grain size | 5 mm |
| Electric motor 400 V, 50 Hz, 1 450 min ⁻¹ | 5,5 kW |

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QUICK DRAIN INSTALLATION for mixer with 2½" valve

1

COMPRESSOR UNIT for the pneumatic valves

| | |
|--|--------|
| Electric motor 400 V, 50 Hz, 1 450 min ⁻¹ | 1,1 kW |
|--|--------|

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DOSING PUMP "ZYKLO V 25-2 SPG"

Gear pump for liquid additive, controlled by the main panel of the batching system.
Material: GGG25/40 and steel

Technical data:

| | |
|----------|---|
| Motor | 0,55 kW, 750 min ⁻¹ , 400 V, 50 Hz |
| Output | 25 l/min |
| Pressure | 3,5 bar |
| Suction | 1¼" |
| Delivery | 1¼" |

1

WEIGHT-BATCH SYSTEM HWS 080 FOR HCM MIXERS**FUNCTION**

The system allows to mix water and up to three dry components. The water is fed directly into the mixer. Following the water, the cement is fed from the silo by a screw conveyor. Precise dosing of the individual components is guaranteed by a sophisticated weighing system in the mixer.

As soon as the mixing cycle is completed, the suspension can be transferred into the holding tank.

Programming

Through two 7.5" Touch Panels the weight of water and cement can be entered. Liquid additives can be dosed by entering the quantity in litres. Different recipes can be entered and called up as required.

Dosing / Weighing

The individual mixing components are fed into the mixer in a pre-selected order where they are weighed. First the water is fed, followed by cement and additive. The control automatically optimizes the dosing procedure. After approx. 5 mixing cycles, the accuracy is better than 3 %.

The individual functions are interlocked to eliminate false functions, such as filling of the holding tank if there is not enough room to take the whole mix, or feeding of the dry components if there is no water in the mixer.

All the functions are indicated on the screen. The plant can be operated manually as well as fully automatic. The high voltage part of the control comprises the motor starters and relays for all electric equipment of the plant as well as the starters for two Ahlm silos with screw conveyor, agitator and vibrator. A frequency converter with water cooling controls the speed of the mixing pump (1 750 min⁻¹).

RECORD

A batch record of each mixing cycle with consumption record (total of consumed components) is stored on a USB memory stick and can be transferred to a PC. A separate USB printer interface is also provided for direct printing on site.

1

RECORDING SYSTEM HFR 004

The HFR recording system is designed to measure and to record pressure and flow for grouting operations with cement based grouts of 4 grout lines simultaneously.

Measuring range:

Flow:

0 to 100 l/min

Pressure (version with stroke counter):

0 to 100 bar

HFR control and recording unit without PS option, including "WINMES" software for data processing on PC.

The program allows:

- Data transfer from MEMORY CARDS
- Erasing of MEMORY CARDS
- Display and printing of individual grouting operations with graphics of pressure and flow rate versus time
- Display and printing of a daily summary of the individual grouting operations
- Possibility to save the summary in the ASCII format for further processing in a spreadsheet program e.g. EXCEL™

4

STROKE COUNTER

4

PRESSURE TRANSDUCER with 5 m cable and plug mounted on grout pumps ZMP 610/625.

2

Leveransklausul / Delivery Clause

Ex Works, packing not included. Delivery shall be made by Schenker. Refer to ODENs contract id: 38955

Delivery Address:

Br. Ahlm Maskin AB

Fabriksgatan 11

SE-274 23 SKURUP

SWEDEN (Phone: +46 411 430 25; Fax: +46 411 438 38)

DIMENSIONS of the GROUT PLANT:

Length approx.: 6 500 mm

Width: 2 500 mm

Height approx.: 2 000 mm

Weight approx.: 4 500 kg

3

Leveranstider / Delivery time

Leverans Ex Works, 8 weeks after order.

4

Guarantee

1 year according to the "General conditions of contract for the supply of machinery and spare parts" of the Swiss Association of Machinery Manufacturers (VSM) of 2006.

5

Ersättning /Price

Price for 2 plants as described above with 1 mixer HCM 300, 2 agitators HRW 350, 2 pumps ZMP 610, 2 pumps ZMP 625, 1 dosing pump for liquid additives, automatic weigh-batching and recording. Design and manufacturing of platform including mounting of equipment by ODEN. For the electric wiring, ODEN will have an electrician available to assist HÄNYs electrical engineer during wiring.

- OPTIONS FOR HANY ACCESSORIES**
4 Automatic Pump Control PS
1 Programme Module "Burst"
 (only available with option PS)
1 Programme Module "Lugeon"
1 Programme Module "GIN"
 (only available with option PS)

ACCESSORIES

3 MEMORY CARD 1 MB
 (especially formatted for this process)

it

1 OMNI DRIVE, MEMORY CARD INTERFACE
 for PC incl. software

1 Teleservice module for fix installation in control
 Unit for connection to mobile or standard analogue telephone net. With this module we can connect to the main control to check the control or make program modifications.
 The SIM card for GSM has to be set for data transfer.
 (for weigh-batch controls HWS 060/080/100)

Included in the price are:

Wiring and testing of the equipment (mounted on platform by ODEN) in Sweden and commissioning and instruction of the personnel by one of HANY's engineers in the Stockholm area for 2 days (including travelling time). An electrician shall be made available by ODEN to assist HANY's electrical engineer for one or two days for wiring.

- 5 Betalning / Payment conditions**
 1/3 when placing the order
 1/3 after successful test run at HANY's works
 1/3 after delivery

Payment is made 30 days after receiving the invoice.

- 6 Fakturering /Invoicing**
 The invoice shall be sent to the Financing company:
 Name and adress will be communicated later.

Beställning sänds i två exemplar varav ett exemplar motses i retur inom 8 dagar med Er påskrift för godkännande.

Sollentuna 2008-

Oslo 2008-

ODEN Anläggningsentreprenad AB

Sigurd Stave Maskin A/S

Björn Andersson

Bo Hjerpe

Project: Oden

GROUT PLANT TYPE HÄNY

| Item | Part no. Description | Quantity | Unit | Unit price | Total price CHF |
|------|---|----------|------------|------------|--------------------|
| 10 | 2518-KB-00 RE-Pos. 10 GROUT PLANT MCI 650/610-625 400 V, 50 Hz, consisting of: | | 1 PCE | | |
| | 1 HCM 300W mixer, TMP 22 1750 rpm with water valve | | 2516-DU-96 | | |
| | 2 Agitator HRW 350 with 2 level probes and closed cover | | 2517-EA-95 | | |
| | 2 Grout pump ZMP 610 with pressure transducer and special valve seats | | 2511-GS-85 | | |
| | 2 Grout pump ZMP 625 with pressure transducer and special valve seats | | 2511-GM-85 | | |
| | 1 Additive tank 200L with dosing pump ZYKLO V 25-2 ST6WG | | 2518-JH-99 | | |
| | 1 Compressor 1.1 kW, 400 V | | 1005166 | | |
| | 1 Electric control HWS 080 compl. with frequency converter for HCM 300 and integrated Teleservice module | | 2650-DR-99 | | |
| | 1 Recording System HFR 004 integrated in main control panel with the following options: 4 x PS Automatic pump control 1 Program module "Burst" | | 2505-CA-00 | | |

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| Item | Part no. Description | Quantity | Unit | Unit price | Total price CHF |
|------|--|------------|------|------------|--------------------|
| | 1 Program module "Lugeon" | | | | |
| | 1 Program module "GIN" | | | | |
| | 1 CD WINMES 5.38 software | 2505-CG-11 | | | |
| | 1 Set pneumatic components | 2518-KA-96 | | | |
| | 1 Set of hose conn. HCM to HRW | 2518-KA-99 | | | |
| | 1 Set of hose conn. HRW to ZMP pumps | 2518-KA-98 | | | |
| | 1 Set of hose conn. Dosing Pump - HCM | 2518-KA-97 | | | |
| | 8 Fastening plate | 2263-KF-11 | | | |
| | 1 Set of labels | 2518-KA-95 | | | |
| 20 | 2505-AB-99 RE-Pos. 20 Memory card 1 MB | 3 | PCE | | |
| 30 | 1007095 RE-Pos. 30 OmniDrive USB2 Memory Card Interface | 1 | PCE | | |

MCI 1000/2x610/2x625

2518-KB-00

| Nos / m / l / kg per unit | Description | Dimension | Item No. | Part No. |
|------------------------------|--|--|----------|------------|
| 1 | High shear colloidal mixer | | 680.100 | 2516-DU-96 |
| 2 | Agitator HRW 350 | | 680.200 | 2517-EA-95 |
| 1 | Electric control for MCI 1000/2x610/2x625 | | 680.250 | 2650-DR-99 |
| 2 | Grout pump ZMP 610 | | 680.300 | 2511-GS-85 |
| 2 | Grout pump ZMP 625 | | 680.400 | 2511-GM-85 |
| 1 | Additive tank 200 l with dosing pump V25 | 1.1 kW, 400 V, 50 Hz 160 l/min, 20 bar | 680.450 | 2518-JH-99 |
| 1 | Air compressor | | 680.550 | 1005166 |
| 1 | Pneumatics for MCI 1000/2x610/2x625 | | 680.600 | 2518-KA-96 |
| 1 | Box for air service unit | | 680.601 | 1007234 |
| 1 | Air service unit with pressure gauge | 3/8" | 680.602 | 1006477 |
| 1 | Pneum. valve battery | | 680.603 | 1007227 |
| 1 | Plug with cable | 25m | 680.604 | 1006457 |
| 1 | Suction line HCM - HRW - HRW | | 680.750 | 2518-KA-95 |
| 1 | Manifold | DN 65 / PN 16 | 680.751 | 2516-DE-99 |
| 4 | Gasket for pinch valve | | 680.752 | 1003441 |
| 2 | Pinch valve | DN 65 / PN 10/16 | 680.753 | 1001005 |
| 1 | Diaphragm for pinch valve | DN 65 | 680.753A | 1001006 |
| 2 | O-Ring for pinch valve | Ø 102 x 4 | 680.753B | 1001007 |
| 1 | Butterfly valve with pneumatic drive | DN 65 / PN 16 | 680.754 | 1006260 |
| 3 | Screwed flange | 2 1/2" | 680.755 | A-1447 |
| 4 | Barrel nipple | 2 1/2" x 70 | 680.756 | 1007320 |
| 1 | Hex. nipple | 2 1/2" x 150 | 680.757 | A-1705 |
| 2 | Elbow | 2 1/2" | 680.758 | A-3161 |
| 1 | Long sweep bend | 2 1/2" | 680.759 | A-2545 |
| 2 | Bend | 2 1/2" | 680.760 | 1002029 |
| 1 | Bend | 2 1/2" | 680.761 | A-1018 |
| 3 m | Hose | Ø 87/75 | 680.762 | D-2647 |
| 5 | Hose clamp | 80-90 | 680.763 | H-5269 |
| 1 | Quick coupling (male) | AG 2" | 680.765 | 1004010 |
| 1 | Quick coupling (female) with hose connection | Ø 65 | 680.766 | 1004011 |
| 1 | Suction line HRW - ZMP 610 / 625 | | 680.800 | 2518-KA-95 |
| 2 | Threaded flange | DN 65 / PN 10 | 680.801 | 2517-ED-95 |
| 2 | Butterfly valve | DN 65 / 2 x 2 1/2" | 680.802 | 1004531 |
| 2 | T-piece | 2 1/2" / 2 x 1" | 680.803 | 2517-GG- |
| 2 | Manifold | 2 1/2" / 1" | 680.804 | 2517-GE- |
| 1 | Manifold | 1" | 680.805 | 2517-GF- |
| 1 | Blank cover with connection | 2 1/2" | 680.806 | 2517-GH- |
| 4 | Drain cover | GF R - 2 1/2" PN 100 | 680.807 | 2518-EZ- |
| 7 | Quick coupling | GV 25 R - 2 1/2" | 680.808 | 1004621 |
| 7 | Gasket for quick coupling | | 680.809 | 1004622 |
| 6 | Union | 1" | 680.810 | 1000296 |
| 1 | Union elbow | 1" | 680.811 | 1007236 |
| 6 | Lubricated valve | 1" | 680.812 | A-3168 |
| 12 | Adapter | 1" | 680.813 | A-3516 |
| 12 | Quick coupling | M 25 / 1" | 680.814 | H-3277 |
| 12 | Quick coupling | F 25 / S 25 | 680.815 | H-3279 |
| 1 | Gasket | 1" | 680.815A | D-2094 |
| 2 | Elbow | 1" | 680.816 | A-1142 |
| 6 | Screw coupling | 1" 1131-FT | 680.817 | A-3167 |
| 6 | Gasket | | 680.817A | 1006842 |
| 2 m | Grout hose | Ø 39/25 | 680.820 | D-2112 |
| 3 m | Grout hose | Ø 39/25 | 680.821 | D-2112 |
| 8 m | Grout hose | Ø 39/25 | 680.822 | D-2112 |
| 12 | Hose clamp | Ø 32-40 | 680.823 | H-3611 |
| 1 | Connection line Dosing Pump - HCM | | 680.900 | 2518-KA- |
| 2 | GEKA Quick coupling with hose connection | ID 25 | 680.901 | 1007217 |
| 2 m | Hose | ID 25 x 4.5 | 680.902 | 1007350 |
| 2 | Hose clamp | Ø 19 - 44 | 680.903 | H-4339 |
| 2 | Quick release coupling | 1/2" | 680.904 | H-3263 |
| 1 | Hex. nipple | 1" - 1/2" | 680.905 | A-1325 |
| 1 | Pneumatic valve | 1/2" | 680.906 | 1006497 |
| 0.5 m | Tube | 1/2" | 680.907 | R-1815 |
| 2 | Bend | 1/2" | 680.908 | A-1030 |
| 0.4 m | Tube | 1/2" | 680.909 | R-1815 |
| 1 | Hose connection | 1/2" / ID 19 | 680.910 | 1006255 |
| 0.5 m | Hose | Ø 22/19 | 680.911 | D-2164 |
| 2 | Hose clamp | Ø 19 - 44 | 680.912 | H-4339 |

* Recommended spare parts

