



ARMAOR[®] SOFTWARE

2011



PURPOSE

This booklet aims at giving you a quick idea of the main functions carried out by the Armaor software.

It will not provide the totality of all options available around the basic software but you will get further information by calling Ariadis company directly.

The program allows to manage in its globality a rebar factory for concrete in cut & bent and assembled, the other products such as mesch, wire are also managed by this program.

Additional options can be proposed on request such as :

- *Machine downloading through cable or bar code*
- *Production control in real time by connecting the machines to the network and bar code reader use*
- *Workers time management*
- *Cut & bent welded mesh*

The interface user is very friendly (Windows® Interface) which allows to know the program quickly without any difficulty thanks to a very short training.

Ariadis team constantly works on the new functions of the program answering to customer special requests.



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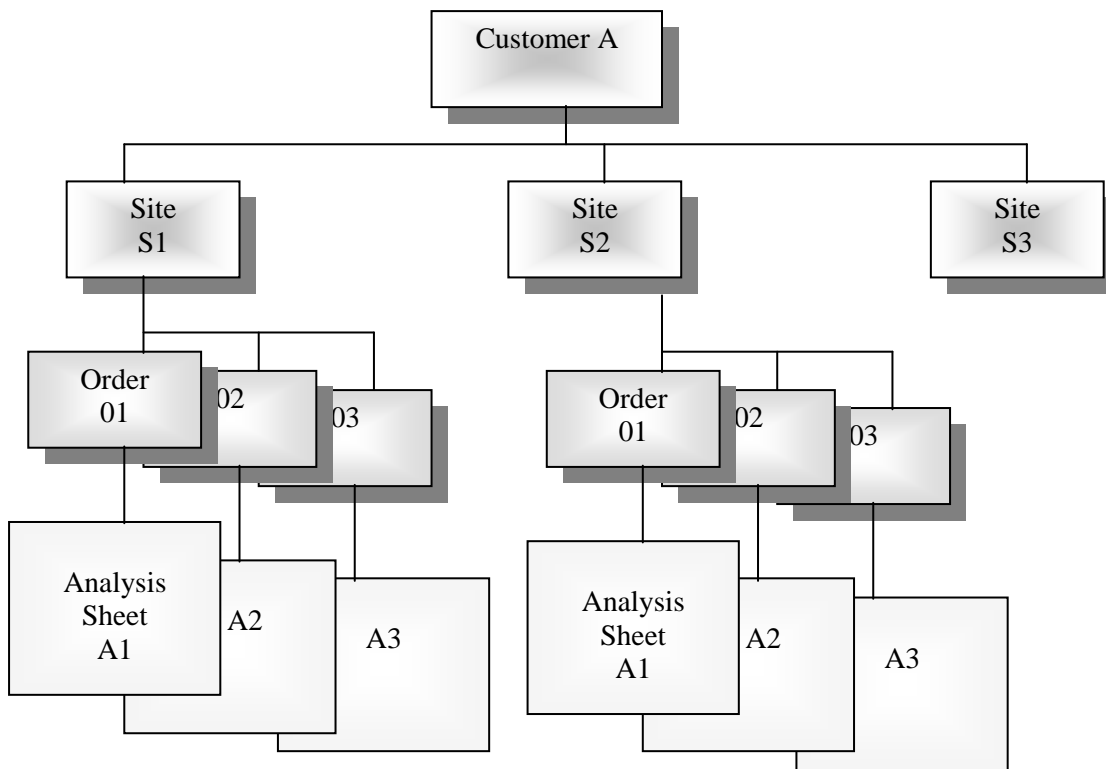


Quick and managed analysis

Before any analysis, it is essential to start entering information about:

- ❑ Customers (details, prices...)
- ❑ Sites (details, prices applied to the site...)
- ❑ Orders

The order is linked to a plan. This plan can be composed of either a simple reinforcement structure or a more complex one. In the scheme n°1, we can observe how the structure of the above-mentioned information is organised:



Scheme n°1

Once this stage is carried out, the analysis stage can be initiated.

The analysis stage consists of entering specific data for each member in the analysis sheet as you can notice it in the screen n°2:



Member

Data

	Length	Prod.	B.M.	Qty	Diam	Code	Schema
1							New Library Qty: 1 Type: C.B.
2	760 708	65 OEMB1	1	16 16	10T 38		170 170 420
3	840 814	65 OEMB1	2	8 8	10T 37		420 420
4	2740 2681	70 RED FUT1	3	4 4	12T 38		120 120 2500
5	800 670	65 OEMB1	4	15 15	10R 61		150 150 100
6	950 898	65 OEMB1	5	250 250	10T 38		80 80 790
7	3420 3361	70 RED FUT1	6	80 80	12T 38		80 80 3260

3270

LogOff

Weight/line

Weight(kgs)

1331

Print

0020 0032 0033 0034 0035 0037 0038 0041 0043 0051 0061 0062

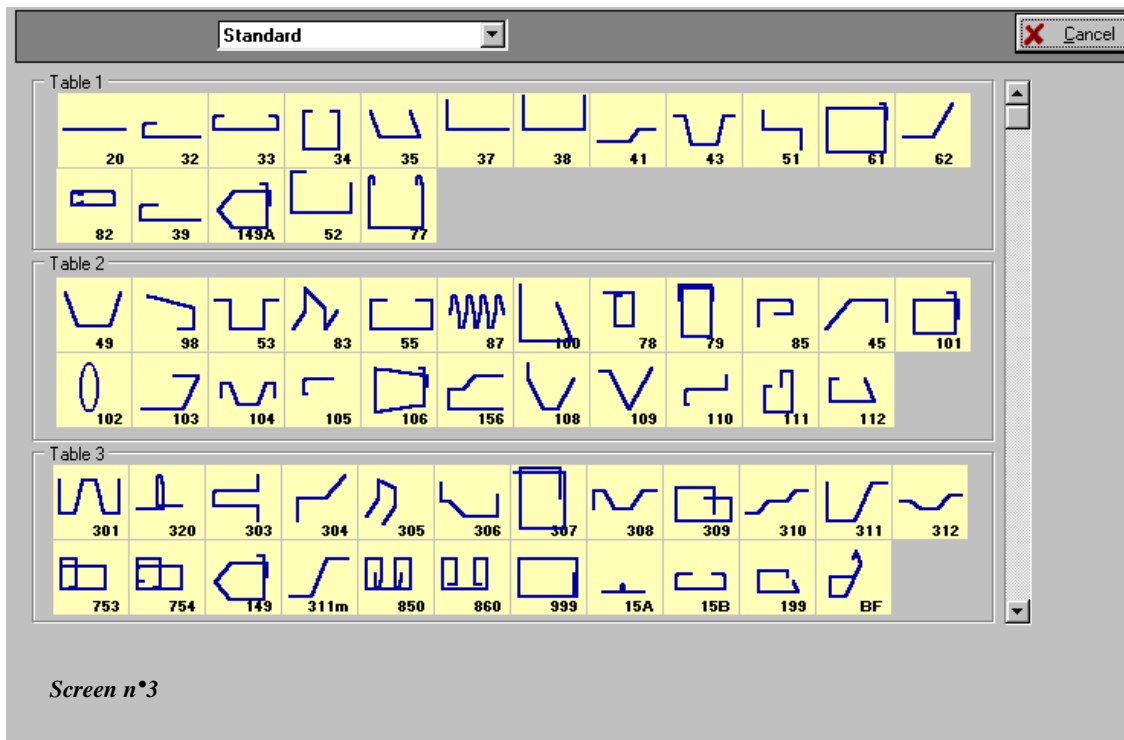
0082 0039 143A 0052 0077 AUTO 20/5x25/20 PROD abcd efghij abcd efghij abcd efghij

Screen n°2

A fast input data facility

At the time of the data input, the cut and bent member is defined. Each member is composed of a combination of different parts that require essential information to be filled in:

- Its bar mark on the plan
- Its quantity
- The steel diameter used and the steel nature (grade)
- The shape of the part selected (*Screen n°3*)
- The shape dimensions



□ About the data acquisition:

- the analysis lines input is continuous (maximum 10,000) and the analysis sheets are managed automatically.
- the analysis, members and total plan lines can be copied with the possibility of modifying the data on the so-created members. Such a copy enables to save a considerable time for the data input.
- the analysis lines can be inserted or deleted easily
- the calculation of the variable lengths is automatic as well as the generation of the positions, the bar marks.
- the identical members can be copied quickly from a plan to another
- the shape can be checked on the screen at the scale with a 3D view
- at the time of the data input, the production machines are selected automatically
- the total weight appears at the screen via the analysis data input
- the selection of the former is automatic in accordance with the machine selected by the software.
- the user can modify the machine selection manually and select another one.
- the software manages the double input as well as the link to the modifications.



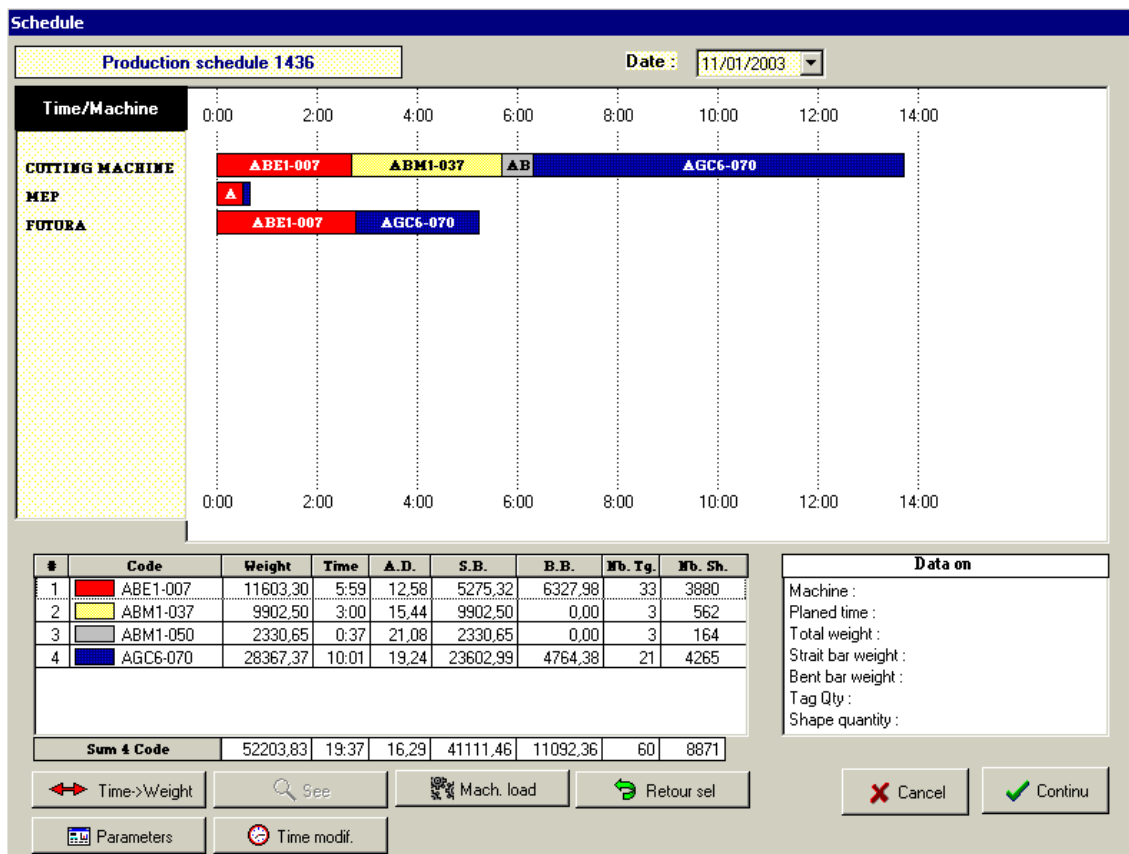
Production management

□ **Production schedule**

A screen allows to select the orders to be produced and to know the loading of each machine via the different selections. For each production order, it is possible to specify how many members have to be produced.

Two charts enable to feature the estimated production (*Screen n°5*):

- a chart in ton
- a chart in hour



Screen n°5

The chart in time can be calculated either with the capacity/machine time or with tables in time by machine giving the production time for a ton production diameter by diameter. This is more precise.

□ **Loading machine transfer**



An option enables to transfer a part of the machine loading to another compatible one. Such a transfer can be carried out:

- in percentage
- in weight
- by diameter
- by order

Following the production schedule, it is possible to use the cutting optimisation (*see p.12*).

□ **Printing**

- Daily production report

All reports have to be set and the user can define which ones he wants to get systematically and the ones he wants according to various periods.

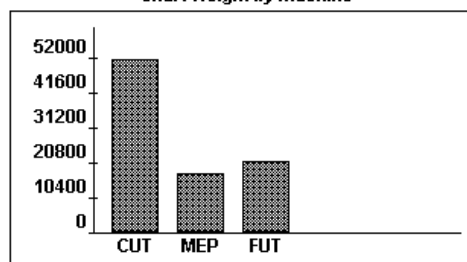
These reports also include charts that show the steel used and the machine loading.

CORPORATE TECHNOLOGY	Production schedule N° 1435	Date : 11-01-2008	11-01-2008	Page # 1
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Steel per machine

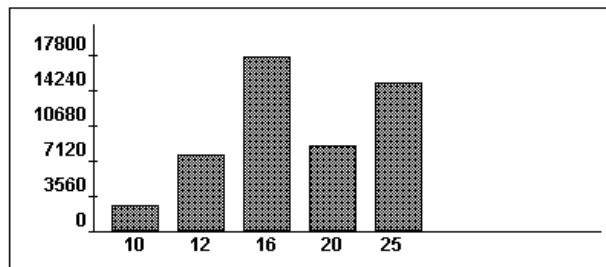
M.Dia.	10	12	20	Sum
CUT	2 284,87	32 428,50	17 246,51	51 959,88
MEP	8 734,73	8 925,20		17 659,93
FUT		17 155,79	4 233,43	21 389,22
Sum	11 019,60	41 353,70	17 246,51	69 619,81

Chart weight by machine





Steel chart



Products code list

Code	Site	Drawing	A.D.	Fab.wght	Inv. wght	Ga.(%)
ABE1-007	Al Banna Engg. Lamprell Site		12,58	11603,30	11779,88	1,52
ABM1-037	Emaar Headquarters, Dubai		15,44	9902,50	9902,50	0,00
ABM1-050	Emaar Headquarters, Dubai		21,08	2330,65	2330,65	0,00
AGC6-070	Al Mada, Al Ain		19,24	28367,37	28694,59	1,15
TOTAL			16,29	52203,83	52707,62	0,97

CORPORATE TECHNOLOGY	Production schedule N° 1436 Date : 11-01-2003	11-01-2008	Page # 2
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Machine recapitulative

Code	Machine	Weight	A.D.	Time	Str. bar	Bent bar	Nb. Tg.	Nb. Sh.
CUT	CUTTING MACHINE	48417,24	17,21	13:43	40931,25	7485,99	45	5591
MEP	MEP	3786,59	10,67	0:39	180,21	3606,37	15	3280
FUT	FUTURA	7485,99	14,88	5:15	0,00	7485,99	11	2944
TOTAL		52203,83	16,29	19:37	41111,46	11092,36	60	8871

Produced member list

Code	Member	Sum	Pds.U.Ac.	Pds.U.Tr.	Prod.	Pds.T.Ac.	Pds.T.Tr.	Prod.W
TOTAL					0	0,00	0,00	0

- Monthly production report

It is the same presentation as the daily one. It is also possible to obtain these tables on a period defined by the user.

- **Cutting list** (see p.22)

A work list can be printed for each machine (cutting and bending machines).




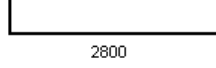
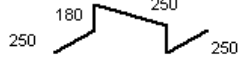
Several criteria on a printing order are possible:



- member, diameter, length
- diameter, length
- diameter, shape, length
- diameter, shape

The production machines are selected automatically according to the machines parameters.

As far as the cutting lists are concerned, they are given to the users at the same time as the cutting tags.

CORPORATE TECHNOLOGY		Cutting list CUTTING MACHINE 16T					11-01-2008	Page # 3
Schedule #: 1436 Of: 11-01-2003								
#	Member	Qty	Diam	Length (mm)	Schema (mm)	Fm	Bar mark	Weight (kg)
ABM1-037 000036	SHEAR WALL (C.B.)	72 1 x 72	16T	12000		0	15	1364,26
ABM1-037 000034	RET.WALL (C.B.)	400 1 x 400	16T	12000		0	38	7579,20
AGC6-070 000040	ADDL BOTTOM (C.B.)	750 1 x 750	16T	6000		0	25	7105,50
AGC6-070 000044	ADDL TOP (C.B.)	42 1 x 42	16T	2963		80	61	196,50
AGC6-070 000057	ADDL AT OPENING (C.B.)	1000 1 x 1000	16T	964		80	CHAIR	1522,16

□ Tags printing

There are two types available : the cutting tags and the delivery tags.

The cutting tags are helpful for the production.

The delivery tags are attached on the members ready to be sent.

The following criteria on a printing order are defined by the user:

- Diameter, shape
- Diameter, length
- Member, diameter, length
- Diameter, shape, length
- Member, chronological order
- Member, diameter, shape

It is possible to print only a part of the tags from a serie.

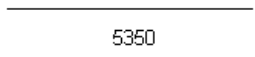


Different examples are available such as coloured tags. In this connection, the colour is used to distinguish the sites.

On the tag, a bar code can be added and enables to:

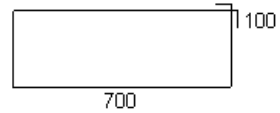
- follow up the production
- load the production machines

AIBanna Engineering
Al Banna Engg. Lamprell Site
ABE1-007
 RAIL FOUND. (107.5m) -7
BEAMS-40M
 ITEM: **0021**
 B M : **7C**
 SCHD: **1436**
 KGS: **19,81**



QTY:	SIZE:	LENGTH:	
6	T 10	5350	1

AIBanna Engineering
Al Banna Engg. Lamprell Site
ABE1-007
 RAIL FOUND. (107.5m) -7
BEAMS-40M
 ITEM: **0019**
 B M : **R**
 SCHD: **1436**
 KGS: **543,73**



QTY:	SIZE:	LENGTH:	
267	T 10	3300	2



Modular cutting optimisation

The optimisation is carried out thanks to a certain number of parameters:

□ **Machines parameters:**

- the cutting machine features are set according to: cutting capacity, number of reception boxes, minimum cutting length.

□ **General parameters :**

- the use of the off cuts is set knowing that it is possible to use only some of the off cuts length
- the maximum weight of a pack depends on the lifting up system used
- the number of boxes is defined in accordance with the bars type : the straight bars and the cut and bent ones
- the cutting tolerance is also defined according to bar type : the straight bars and the cut and bent ones
- the number of packs open at the same time can be set as well

For each optimisation in accordance with the parameters selected, it is possible to visualise the off cuts used and the ones generated. According to the results, the parameters can be modified and therefore, a new optimisation can be carried out. The software calculates an optimum optimisation automatically.

□ **Off cuts management:**

The off cuts, which are generated after every optimisation, are saved with their localisation in the stock area. Then, they are labelled in consequence of the optimisation program (off cuts management and reprinting of a new updated label).

If you do not want to use the cutting optimisation, the off cuts following the cutting function can be entered automatically.

Then, we can initiate to print the optimisation lists, the cutting tags according to the cutting order and the offcut tags.



Deliveries management

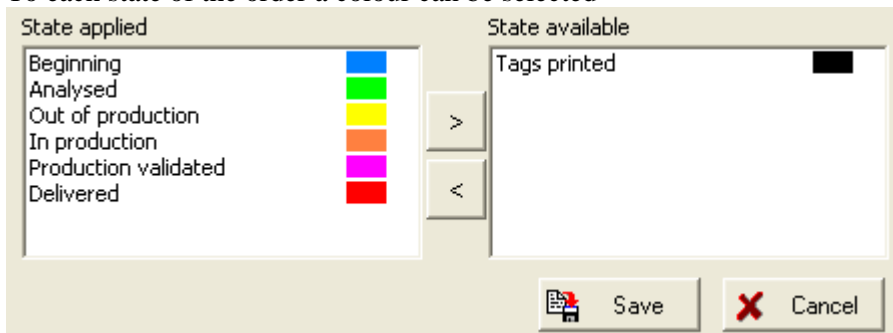
The delivery notes are printed from the selection of the members to be delivered:

- ❑ Different types of presentation are available and they can be modified according to the customer desire.
- ❑ The type of the delivery note (10 different types available) is defined in the customer sheet and selected automatically when the notes are printed.
- ❑ As far as the printing of the delivery note is confirmed, this will update the stocks automatically.

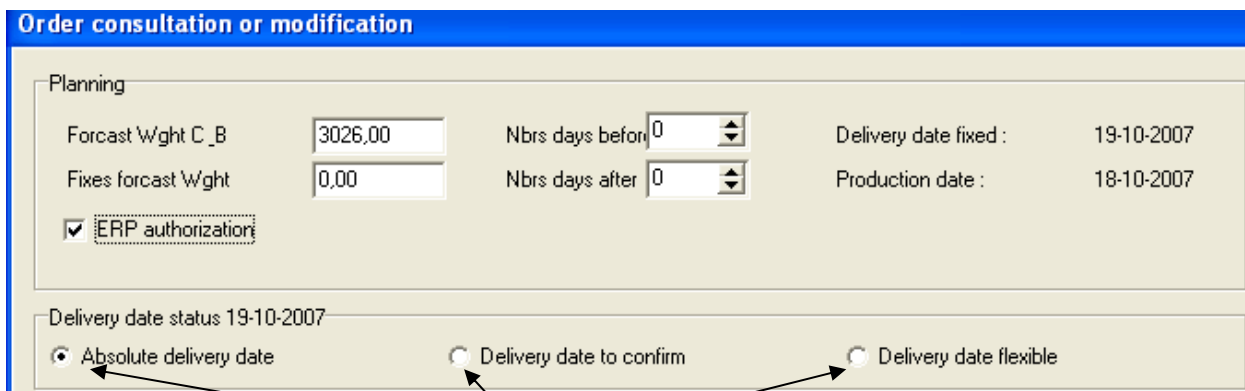
The partial deliveries are managed by the software itself.

The delivery planning is managed with the production planning in the same sheet.

To each state of the order a colour can be selected



Colour states



Delivery state



Planning

Vallorbe << Week << Day Day >> Week >> Delivery date Production date 29/11/2007

jeudi 29 nov. 2007 39413			vendredi 30 nov. 2007 39414			lundi 03 déc. 2007 39417			mardi 04 déc. 2007 39418		
Production capacity	Total production		Production capacity	Total production		Production capacity	Total production		Production capacity	Total production	
60000	56898		60000	47618		60000	33843		60000	11040	
Work OK	Work absolute		Work OK	Work absolute		Work OK	Work absolute		Work OK	Work absolute	
	56898			41487			33843			11040	
Average diameter	Work flexible		Average diameter	Work flexible		Average diameter	Work flexible		Average diameter	Work flexible	
20,13	0		10,59	0		14,51	0		14,09	0	
Remaining loading	Work to confirm		Remaining loading	Work to confirm		Remaining loading	Work to confirm		Remaining loading	Work to confirm	
40172	0		45545	6132		31150	0		11040	0	
Analysis	Total Wght	Wght Left	Analysis	Total Wght	Wght Left	Analysis	Total Wght	Wght Left	Analysis	Total Wght	Wght Left
4361-LF110.4	97	0	30722-LF-032	23768	18932	07-09-04.1/2	2073	0	19	12536	12536
WALO BERTSCHINGER S.A.			RUSCONI M. & CIE S.A.			IMPLENIA CONSTRUCTION S.A.			CONS. CTM MONTAGNE DU CH		
1757-38	2556	2556	8762i-203/1.	33089	21199	07-09-06.1	4058	4058	20	12655	9962
LOETSCHER SUSTEN AG			INDUNI & CIE S.A.			IMPLENIA CONSTRUCTION S.A.			CONS. CTM MONTAGNE DU CH		
4133-3.1	2756	2123	107.312-02/1	41	41	07-09-05.1/2	4114	4114	538-3	88	88
STAUFFER ED. S.A.			MEYLAN GERALD			IMPLENIA CONSTRUCTION S.A.			CARLIN S.A.		
1423-21-E02	771	145				2.709-107.1	5815	5815	P2319-02	226	226
CARRAUX - MORET						RUSCONI M. & CIE S.A.			CAVERZASIO OLIVIER		
1423-22-E02	306	0				2.709-108.1	4219	4219	COMPL	4410	4410
CARRAUX - MORET						RUSCONI M. & CIE S.A.			TERCO S.A.		
1462.34-4-1	1475	1475				2.709-108.2	2558	2558	30722-LF-035	3479	3479
TERCO S.A.						RUSCONI M. & CIE S.A.			RUSCONI M. & CIE S.A.		
50'967-07-E16	884	0				2.709-21.1	1368	0	depot	450	450
TERCO S.A.						RUSCONI M. & CIE S.A.			FRANCIOLI S.A.		
C07010-04.1	1698	556				2.709-21.2	810	0			
RG CONSTRUCTION SARL						RUSCONI M. & CIE S.A.					
TRENK-6	456	5				2876-11F1	2066	2066			
MOTTAZ J.-P. S.A.						MARTIN & CO S.A.					
392-L537.1	9996	2428				2876-09F2	54	54			
INDUNI & CIE S.A.						MARTIN & CO S.A.					
392-L537.2	5412	3071				2876-09F1	2301	2301			
INDUNI & CIE S.A.						MARTIN & CO S.A.					
11.06	4674	474				2876-30F1	2066	2066			
CORDONIER ROL. & M. TH.						MARTIN & CO S.A.					
06242-244.6	12478	8346				2876-50F1	2066	2066			
BERNASCONI ROMANDIE S.A.						MARTIN & CO S.A.					
						2004-027-16AV9BC	3624	3624			

Validate Exit

Delivery planning



Invoicing

❑ **Monthly and cash invoice**

The invoicing is launched by the user at a wanted periodicity. The user selects the notes to be printed for a customer from a delivery notes list. It is also possible to visualise the invoice before confirming and printing it.

The presentation of the invoice meets the customers requirements. It is interesting to point out that there are several types of invoice available capable of managing the currencies and the Euro alike.

As far as the price list is concerned, it is possible to manage up to 10 tariffs. These tariffs are applied to a site but they can be modified according to the needs.

Therefore, several possibilities are available for the tariffs management. Moreover, the site tariffs can be updated as soon as the basic tariffs are altered.

❑ **Bills of exchange printing by invoice or globally**

❑ **Quotation calculation and printing**

❑ **Customers overdue amount management**

There are two levels of overdue amounts:

1. a level according to the invoices and the payments registered
2. a level according to the invoices amounts, plus another amount carried out from non-invoiced deliveries and non-produced analysis.

❑ **Payment management and following-up customers**



Trade products management

Trade products are managed in accordance with family products : for each family the delivery units and the invoicing are set individually. For example, a delivery is set by unit and the invoicing in Kg.

The following functions correspond to the trade products management:

- stock input
 - delivery note
 - invoicing
 - stock up to date
 - sales statistics and I/O charts
 - invoicing
- Printing :
- inventory
 - stock rotation
 - monthly stock report
 - stock valorisation



Stock management

- Input :
 - stock input by supplier from the supplier delivery note

- Stock up to date :
 - either after the production validation
 - or after the delivery note validation

- Printing :
 - all printings are set according to the selected period:
 - Stock monthly movements printing
 - Stock inventory printing
 - Valorised stock printing



Shapes management

Here are the main modules:

- Creation, modification, deletion
- Lay-out on table
- Shape code modification
- Shape copy
- Shape printing

These modules enable the user to carry out himself the creation of new shapes. Also, a special screen allows to check the accuracy of the shape description.

The shapes can have input or calculated dimensions according to formula managed by the user.



Customers references

References : France and abroad

- ❖ We already have more than 120 customers in France and count about 80 abroad, manufacturers and pre-manufacturers alike.
- ❖ **France:** (120 customers) Armatures industrielles, Arma Tech, Amsa, Amsval, HPA, Alsace Armature, Bourgogne armatures, Sud Armatures, Quillery, Rabot Dutilleuil, SNA, Atelier du Granier, Madoyan, Sabea, Armatop, ARCM 26, Experton Group, Sermétal Réunion, Armatures Martiniquaises, Armapress, STAB...
- ❖ **Abroad Gulf: (70 customers)**
- ❖ **KSA:**
- ❖ **BRC Jeddah, Rezayat, Heet Industrie, Saudi coating , Modern Factory**
- ❖ **Al Ittefaq Dammam, Bin Laden, Attieh, Fulath, Al Faisal**
- ❖ **Steel Industries, Dammam, Gulf Steel Jubail, Al Muhaidib Riyadh**
- ❖ **QATAR ; Teyseer & Cement, QRC, ERF, AL Watania, Qasco**
- ❖ **BAHRAIN : BRC Weldmesh, Haji Hassan**
- ❖ **OMAN: Dawood, Al Ansari, Yousuf**
- ❖ **DUBAI: Steelfab, GEAP, Corporate, Emirate Rebar,, Arminox, Convergn, Ascon Eta Profile, Mapco, Intertyme, Dubar, Sunre, Al Gurg, Alam Steel, Al Faisal, Attieh, Bisha Steel**
- ❖ **ABU DAHBI: Al Jaber, Cicon, Middle East Traders**
- ❖ **SHARJAH BRC Arabia , Lootah,**
- ❖ **Umm Al Qaywayn Gulf Steel**
- ❖ **Ras Al Khaymah Rapid Reinforcement**

- ❖ **Abroad:** Italy (28 customers) Capital Ferro Chioggia, Capital Ferro PARMA,
 - Capital Ferro Firenze, Capital Ferro Verona, Sime, Progress Edilmarket (Italy), Ferrobeton, Betonfer, Conte, Di Calandri, Ferredil Imola Camargo (Brazil),
 - VSC (Hong Kong), Hierros y montajes (Spain)...
 - **India: L&T (2 factories), Lanco, Ved Pmc, Geap India**



Screens and Documents

- ❑ **Analysis screen**
- ❑ **Bar bending schedule**
- ❑ **Cutting lists**
- ❑ **Production planning**
- ❑ **Production programme**
- ❑ **Delivery note**
- ❑ **Invoice**
- ❑ **Analysis summary**



Analysis screen

Member

F.	1732	A.	GM-006	SI.	No.11 Chater Road, Central	CL.	Gammon
DR	GM-006	Ground Floor A-B/5-7 Slab			MB.	A-B/6-7 Slab Top <1>	C.B. QTY 1

	Length	Prod.	B.M.	Qty	Diam	Code	Schema
1732							A-B/6-7 Slab Top <1> Qty: 1 Type: C.B.
1							
2	7315 7171	195 RED FUT1	1	45 45	25T	38A	
3	6515 6371	195 RED FUT1	2	45 45	25T	38A	
4	3100 3100	RED	3	48 48	12T	20	
5	2400 2400	RED	4	48 48	12T	20	
6							
7							

0020	0032	0033	0034	0035	0037	0038	0041	0043	0051	0061	0062

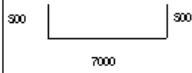
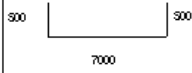
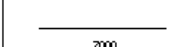
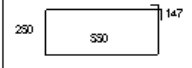
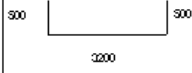
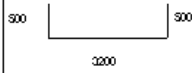
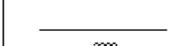

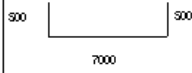
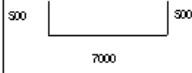
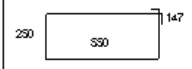
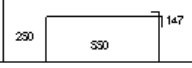
Shapes table

					AUTO		PROD	abcdefghijkl abcdefghijkl abcdefghijkl	0 - 1
0082	0039	143A	0052	0077	AUTO	20/5x25/20	PROD	abcdefghijkl abcdefghijkl abcdefghijkl	0 - 1

Input lines



B.B.S.

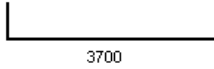
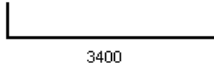
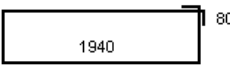
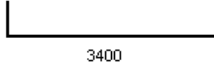
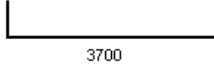
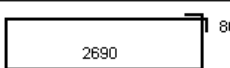
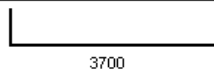
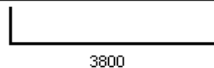
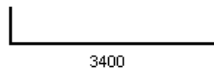
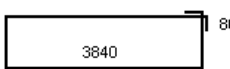
MEMBER		BAR MARK NO.	BAR Ø	SHAPE	SH CODE NO.	BAR LENGTH	NO. MEMBER	NO.OF BARS EACH	TOTAL NO.OF BARS	KG/M	WEIGHT KGS.
STB1(400X700) AXIS 9/A-B BOTTOM BARS		13	25Y		38	8000	1	5	5	3,854	154,16
TOP BARS		14	25Y		38	8000	1	5	5	3,854	154,16
SIDE BARS		15	12Y		20	7000	1	4	4	0,888	24,86
STIRRUP		16	12Y		61	1894	1	26	26	0,888	43,73
STB1(400X700) AXIS 10/B-C BOTTOM BARS		17	25Y		38	4200	1	5	5	3,854	80,93
TOP BARS		18	25Y		38	4200	1	5	5	3,854	80,93
SIDE BARS		19	12Y		20	3200	1	4	4	0,888	11,37
STIRRUP		20	12Y		61	1894	1	6	6	0,888	10,09
STB1(400X700) AXIS B/9-10 BOTTOM BARS		21	25Y		38	8000	1	5	5	3,854	154,16
TOP BARS		22	25Y		38	8000	1	5	5	3,854	154,16
SIDE BARS		23	12Y		61	1894	1	4	4	0,888	6,73
STIRRUP		24	12Y		61	1894	1	25	25	0,888	42,05
PAGE WEIGHT										917,33	



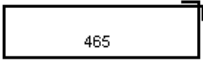
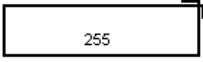
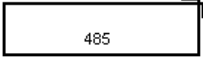
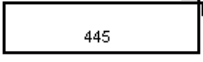
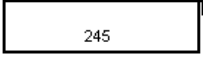
Cutting lists

We print a list for each machine that allows to check if all shapes have been well-produced

:

EMIRATES REBAR LTD.		Cutting list CUTTING MACHINE					12/01/08	Page #1
9800-002	Customer Site Drawing : SALEH SALEH CONSTRUCTION : 9800 (715) G+9 BUILDING : COLUMN STARTER					Made by Colors : Yellow		
#	Member	Qty	Diam	Length (mm)	Schema (mm)	Fm	Bar mark	Weight (kg)
00007	C1 (1 NO.) @ 2.45 LV L. (C.B.)	22 1 x 22	25T	4040	400 	130	7	342,54
00008	C1 (5 NOS.) @ 2.15 L VL. (C.B.)	110 5 x 22	25T	3740	400 	130	8	1585,54
00009	C1-TIES (C.B.)	60 6 x 10	8T	4350	190 	20	9	103,09
00013	C2 (1 NO.) @2.15 LVL (C.B.)	28 1 x 28	25T	3740	400 	130	13	403,59
00012	C2 (1 NO.) @2.45 LVL (C.B.)	28 1 x 28	25T	4040	400 	130	12	435,96
00014	C2-TIES (C.B.)	20 2 x 10	8T	5850	190 	20	14	46,22
00002	C3 (1 NO.) @ 2.45 LV L. (C.B.)	42 1 x 42	25T	4040	400 	130	2	653,95
00001	C3 (2 NOS.) @ 2.55LV L. (C.B.)	84 2 x 42	25T	4140	400 	130	1	1340,27
00003	C3 (7 NOS.) @ 2.15LV L. (C.B.)	294 7 x 42	25T	3740	400 	130	3	4237,70
00004	C3-TIES (C.B.)	100 10 x 10	8T	8150	190 	20	4	321,93
Planned time		Real time						
Diam	8	25	Sum					
T	471,24	8999,55	9470,79					



EMIRATES REBAR LTD.		Cutting list/bending STIRRUPS					10-01-2008	Page #1
9800-002		Customer : SALEH SALEH CONSTRUCTION Site : 9800 (715) G+9 BUILDING Drawing : COLUMN STARTER						
#	Member	Qty	Diam	Length (mm)	Schema (mm)	Fm	Bar mark	Weight (kg)
00010	C1-TIES (C.B.)	120 6 x 20	8T	1370	190  80	48	10	64,94
00011		60 6 x 10	8T	950	190  80	48	11	22,51
00015	C2-TIES (C.B.)	60 2 x 30	8T	1410	190  80	48	15	33,42
00005	C3-TIES (C.B.)	300 10 x 30	8T	1330	190  80	48	5	157,61
00006		200 10 x 20	8T	930	190  80	48	6	73,47



Production planning

Schedule

Production schedule 1437 Date: 12-01-08

Time/Machine	0:00	2:00	4:00	6:00	8:00	10:00	12:00	14:00
CUTTING MACHINE	SAL2-050 (red) SAL2-049 (yellow) S ATC E							
MEP	S S							
FUTORA	SAL2-050 (red) SAL2-049 (yellow) ATC1-129 (blue) EBM1- (grey) EBM1- (blue)							

#	Code	Weight	Time	A.D.	S.B.	B.B.	Mb. Tg.	Mb. Sh.
1	SAL2-050	13658,41	7:50	12,00	6836,80	6821,61	37	2891
2	SAL2-049	13857,39	7:57	12,07	6836,80	7020,59	37	2876
3	SAL2-048	2481,41	0:49	11,63	1211,72	1269,69	12	1436
4	ATC1-129	4898,13	2:33	20,92	315,24	4582,89	27	450
5	ATC1-128	43,60	0:00	10,00	0,00	43,60	1	46
6	EBM1-089	2185,32	1:38	13,59	513,28	1672,04	26	698
7	EBM1-088	2185,32	1:38	13,59	513,28	1672,04	26	698
Sum 7 Code		39309,59	22:25	12,70	16227,13	23082,46	166	9095

Data on	
Machine :	
Planned time :	
Total weight :	
Straight bar weight :	
Bent bar weight :	
Tag Qty :	
Shape quantity :	



Production programme

CORPORATE TECHNOLOGY	Production schedule N° 1437 Date : 10-01-2008				10-01-2008	Page # 1		
Steel per machine								
M./Dia.	8	10	12	16	20	25	32	Sum
CUT		7 611,33	2 946,11	16 847,79	68,06	109,45	4 108,59	31 691,33
MEP	516,23	6 503,75	598,27					7 618,25
FUT		2 575,80	95,45	11 801,63			4 108,59	18 581,47
Sum	516,23	14 115,08	3 544,38	16 847,79	68,06	109,45	4 108,59	39 309,58

Chart weight by machine

Machine Type	Sum (kg)
CUT	31 691,33
MEP	7 618,25
FUT	18 581,47

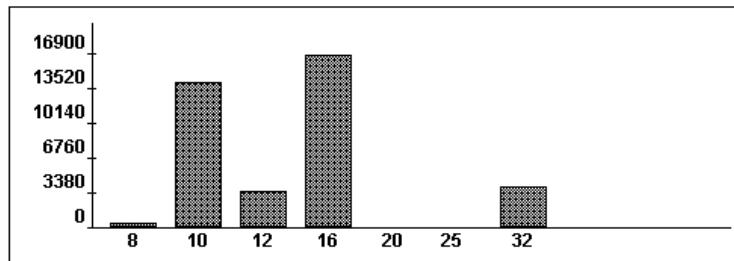


Production programme printing

Steel used

Dia.	8	10	12	16	20	25	32	Sum
T	516,23	14 115,08	3 544,38	16 847,79	68,06	109,45	4 108,59	39 309,58
Sum	516,23	14 115,08	3 544,38	16 847,79	68,06	109,45	4 108,59	39 309,58

Steel chart



Products code list

Code	Site	Drawing	A.D.	Fab.wght	Inv. wght	Ga.(%)
SAL2-050	2B+G+4, Umm Hurair		12,00	13658,41	13718,63	0,44
SAL2-049	2B+G+4, Umm Hurair		12,07	13857,39	13918,28	0,44
SAL2-048	2B+G+4, Umm Hurair		11,63	2481,41	2519,00	1,51
ATC1-129	21 st Century Tower-Prj.No.4166		20,92	4898,13	5004,24	2,17
ATC1-128	21 st Century Tower-Prj.No.4166		10,00	43,60	46,55	6,77



Production programme printing (following)

CORPORATE TECHNOLOGY	Production schedule N° 1437 Date : 12-01-08	11-01-2003	Page # 2
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Total production

Code	ASS weig.	C B weight	Fab.wght	Inv. wght	Ga.(%)	A.D.	Str. bar	Bent bar	Nb. Tg.	Nb. Sh.
7	0,00	39309,59	39309,59	39587,39	0,71	12,70	16227,13	23082,46	166	9095

Machine recapitulative

Code	Machine	Weight	A.D.	Time	Str. bar	Bent bar	Nb. Tg.	Nb. Sh.
CUT	CUTTING MACHINE	31691,34	13,79	9:12	13109,88	18581,46	103	4149
MEP	MEP	7618,25	9,94	1:10	3117,25	4501,00	63	4946
FUT	FUTURA	18581,46	15,59	12:03	0,00	18581,46	76	2215
TOTAL		39309,59	12,70	22:25	16227,13	23082,46	166	9095

Produced member list

Code	Member	Sum	Pds.U.Ac.	Pds.U.Tr.	Prod.	Pds.T.Ac.	Pds.T.Tr.	Prod.Wgh
TOTAL					0	0,00	0,00	0,00



Delivery note

Logo

(Different formats available)

DELIVERY NOTE NO. 12879-03

12-01-08

CUSTOMER AHMAD BIN DASMAL CONT.CO DUBAI 60167 UAE	SITE 24 HOUSING UNITS AT JUMAIRAH 24 HOUSING UNITS AT JUMIRAH DUBAI 60167	YOUR ORDER NO 24UNIT/014 01-05-2002	OUR REF.N 24UNIT-014 01-05-2002
--	---	--	--

COLUMN STARTERS/COVER-40MM

Drg. No. COL STARS

ITEM	BMK	BAR-DIA.	QTY	LENGTH	S/C	WT(kg)	BAR SHAPE
C1-305X305/COVER-40MM/1810MM +LAP							
0001	14	Y 16	64	2910	37	294,26	
0002	15	Y 8	56	1096	61	24,24	
0003	16	Y 8	56	680	112	15,04	
C2-200X610							
0004	17	Y 20	20	3110	37	153,63	

Ariadis



(Different formats available)

Invoice

INVOICE

Invoice No. **0301001**

Date : **12-01-08**

Customer Code **AGC7**
Name & Address **Ayoubco General Contracting Co**
P O Box 30188
Dubai
Site **Al Mada Res.Dev.-Punching Stl.**

LPO/ORDER REFERENCE:

DELIVERY NOTES

0204071 0205019

<u>DIAMETER</u>	<u>TONNAGE</u>	<u>UNIT RATE/TON</u>	<u>VALUE (DHS.)</u>
12T	26,278	120,00	3 153,36

Amount in Words : Dirhams Three Thousand One Hundred and Fifty Three and fils Thirty Six only.

PAYMENT MODE : **30 DAYS**

Total Value

3 153,36

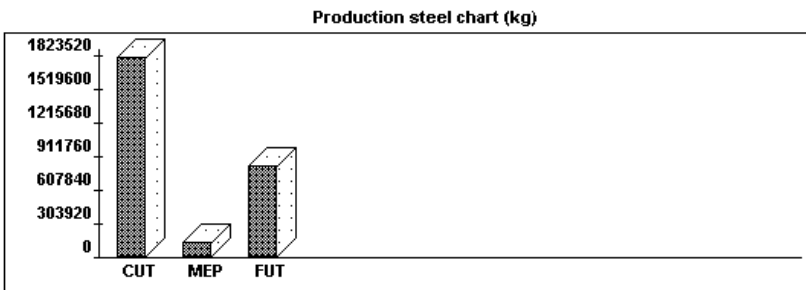
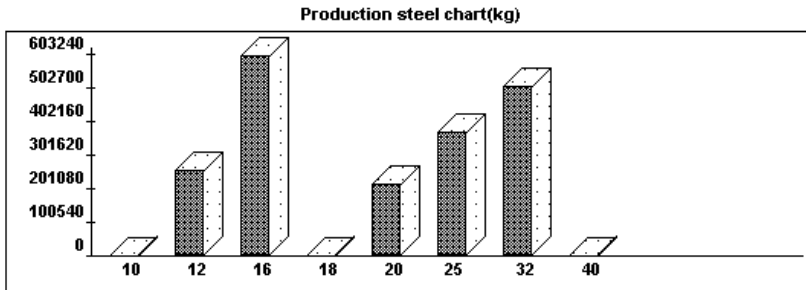
Receiver's Signature

For **CORPORATE TECHNOLOGY FZCO**



Site summary

CORPORATE TECHNOLOGY	ABM1	12-01-08	Page #1						
Customer : B&M Al Basti & Muktha L.L.C. P.O Box 2393 Dubai UAE									
Site : ABM1 Emaar Headquarters, Dubai									
Delivered steel (kg)									
Dia.	10	12	16	18	20	25	32	40	Sum
T	287,72	263 502,63	605 430,13	567,00	217 620,04	372 005,70	513 819,49	3 939,68	1 977 172,40
Sum	287,72	263 502,63	605 430,13	567,00	217 620,04	372 005,70	513 819,49	3 939,68	1 977 172,40
Delivered steel (m)									
Dia.	10	12	16	18	20	25	32	40	Sum
T	466,24	296 737,21	383 426,30	283,50	88 248,19	96 524,57	81 390,69	399,40	947 476,10
Sum	466,24	296 737,21	383 426,30	283,50	88 248,19	96 524,57	81 390,69	399,40	947 476,10
Data analysis									
Code	Name report	Drawing	A.D.	Fab.wght	Inv. wght	Ga.(%)			
ABM1-001	RAFT SLAB (ZONE 2) - TOP	CT/BM/S/1	31,55	112837,06	113129,05	0,26			
ABM1-002	COLUMNS & RET.WALL ZONE-3	CT/BM/S/1	23,00	50527,29	50901,84	0,74			
ABM1-003	COLUMN & RET.WALL ZONE-3		16,00	7579,20	7579,20	0,00			
ABM1-004	B2 SLAB BOTTOM ZONE-1	CT/BM/S/1	16,00	16787,93	16787,93	0,00			
ABM1-005	B2 SLAB BOTTOM ZONE-1	CT/BM/S/1	15,93	8420,73	8475,32	0,65			
ABM1-006	SHEAR WALL ZONE-3	CT/BM/S/2	13,69	2369,45	2369,45	0,00			
ABM1-007	SHEAR WALL ZONE-3	CT/BM/S/2	16,46	7057,64	7068,00	0,15			
ABM1-008	STAIRCASE B3 TO B2 ZONE-3	CT/BM/S/S	14,84	248,28	248,42	0,06			
ABM1-009	STAIR WALL ZONE-3		12,00	497,67	499,80	0,43			
ABM1-010	B2 SLAB TOP ADDITIONAL ZONE-1	CT/BM/S/2	22,93	32862,55	32866,87	0,07			
ABM1-011	RET.WALL ZONE-3		18,14	1988,38	1988,38	0,00			
ABM1-012	B2 SLAB TOP (ZONE-1)	CT/BM/S/2	16,00	5381,23	5381,23	0,00			
ABM1-013	B2 SLAB TOP (ZONE-1)	CT/BM/S/2	16,00	17899,82	17930,26	0,17			
ABM1-014	B2 SLAB BOTTOM ZONE 1		17,77	6136,14	6256,58	1,96			
ABM1-015	B2 SLAB TOP ADDL ZONE-1	CT/BM/S/2	21,46	18798,80	18805,60	0,04			
ABM1-016	RAMP PULLOUT BARS		16,00	2196,59	2241,55	2,05			
ABM1-017	RETAINING WALL & COLUMNS (B3 TO B2) ZONE-2	CT/BM/S/2	19,53	15153,49	15176,68	0,15			
ABM1-018	SHEAR WALL , B3 TO B2 (ZONE-2)	CT/BM/S/2	20,07	26185,88	26306,54	0,46			
ABM1-019	COL&RET WALL B2 TO B1 (ZONE 1)	CT/BM/S/2	22,67	45074,78	45244,48	0,38			
ABM1-020	RETAINING WALL , B2 TO B1 (ZONE-1)	CT/BM/S/2	16,00	7200,24	7200,24	0,00			
ABM1-021	BEAMS B2 LVL (ZONE-3)	CT/BM/S/2	18,00	2689,97	2743,75	2,00			
ABM1-022	B2 SLAB BOTTOM (ZONE-3)	CT/BM/S/2	16,06	14851,43	15040,63	1,27			
ABM1-023	B2 SLAB TOP ZONE 3		16,00	15936,74	15977,47	0,26			
ABM1-024	B2 SLAB TOP&BOTTOM ZONE 3		16,21	17527,90	17527,90	0,00			





Analysis summary



SAUDI METAL LTD	PRODUCTION REPORT IND2-009 IND2-011 IND2-012						12-01-08	Page # 1			
Customer : IND Indeset Constructions Dubai UAE											
Site : IND2 6 Villas, Mirdif											
Drawing : IND2-009 PART-1,1st FLR SLAB Color : White Responsible : ASHA											
IND2-011 PART-1/1st FLR COLUMNS Color : White Responsible : ASHA											
IND2-012 PART-2 1st FLR COLUMNS Color : White Responsible : ASHA											
INVOICE WEIGHT (kg)				CUT LENGTH WEIGHT (kg)							
Diameter	Straight	Bent	Sum	No. pcs.	# Bms	Avg. Leng.	Straight	Bent	Sum	B.Gains(kg)	B.G.(%)
8T	0,000	1553,555	1553,555	3432	40	1146	0,000	1617,392	1617,392	63,837	4,11
10T	0,000	689,846	689,846	326	17	3429	0,000	697,643	697,643	7,797	1,13
12T	33,372	943,025	976,397	228	30	4823	33,372	952,221	985,593	9,196	0,94
16T	0,000	2296,910	2296,910	404	19	3601	0,000	2325,741	2325,741	28,831	1,26
20T	0,000	163,862	163,862	16	4	4153	0,000	167,491	167,491	3,629	2,21
	33,372	5647,198	5680,570				33,372	5760,488	5793,860	113,290	1,99
Shearing Totals	.....	5681 Kg's	..	4406 P's	Delivery Required by (date)		.....			
Shearing Totals	.....	5681 Kg's	..	4406 P's	Delivery Required by (date)		.....			
Link m/c Totals	.....	0 Kg's	..	0 P's	Shearing Started (date & operator)		.....			
Average diameter	.....	11,01 mm			Shearing Completed (date )		.....			
Average Length	.....	1726,00 mm			Bending Started (date & operator)		.....			
Longest Length	.....	9317 mm					.....			
Number of items	.....	110 Lines					.....			
Average Quantity	.....	40 P's			Bending Completed (date )		.....			
Tag,s Per Tonne	.....	19,36 tag's			Links Started (date & operator)		.....			
Percentage Bending	.....	99,41 %			Links Completed (date)		.....			



Hardware outline

The software can be installed on a computer already in use in accordance with its technical features.

Otherwise, Ariadis recommends for a new hardware :

MINIMUM HARDWARE OUTLINE NETWORK VERSION

- ❑ **PC**
 - PC-Pentium 3.2 MHZ - Memory 2 Mo
 - Hard drive 80 Go, CD-ROM 48X
 - WINDOWS XP operating system or Windows 7

- ❑ **SCREEN**
 - Video 17"

- ❑ **SAFEGUARD SYSTEM**
 - *Tape*

- ❑ **MODEM**
 - *For Internet connection*

- ❑ **POWER SUPPLY**
 - Capacity = 1 KVA

- ❑ **PRINTER**
 - Laser HP, delivery notes, invoices (multi sheets), all statistics and management tables
 - Color laser printer type HP 3500 N or L

- ❑ **UTILITIES**
 - Winzip, an Internet access are strongly recommended for maintenance.
 - Email address