

# TBU Mobile Waste Audit Unit

## *Presentation of equipment and a typical procedure overleaf*

Where ?	Terms of reference	When ?	Contact
• Abu Dhabi	<b>UAE</b> <b>Screen based sorting</b> analysis for defining the feedstock properties of a combined MRF / compost plant (2.000 tpd) serving the entire Emirate	2008	<b>Al Kharafi Int'l Abu Dhabi,</b> t +971 2 677-5800
• Federal state Styria	<b>A</b> <b>Screen based sorting analysis (40 mm)</b> statewide during, before and after the heating period. Purpose: Determination of the packaging share and the calorific value of the residual waste.	2008 abd 2003 and 1997	<b>Dr. Dipl.-Ing. W. Himmel,</b> Abtlg. Abfall- u. Stoffflusswirtschaft t 0316 / 8772157
• Sofia	<b>BG</b> <b>Screen based sorting analysis (40 mm)</b> as part of a waste forecast model for the Bulgarian Ministry of the Environment.	2005 / 2006	<b>Ms Albena Amzina,</b> SGS Sofia, t +359 2 91015
• South Tyrol	<b>I</b> <b>Evaluation of the waste separation behaviour</b> in 26 municipalities (ca. 70.000 inhabitants) by screen based residual waste analyses.	2006	<b>R. Mahlknecht,</b> BZG Puster- tal, t +39/0474/410748
• Hanover	<b>D</b> <b>Evaluation of material flow analyses and calorific value balances</b> as well as efficiency check of screening aggregates in the MBT Hanover (200.000 t/a) as basis for plant optimisations: calorific value increase of RDF fraction, reduction of abrasive material in the fermentation input.	2006	<b>Dipl.-Ing. Theo Schneider,</b> aha (MBT plant Hanover), t +49 511 9911-47900
• Federal state Upper Austria	<b>A</b> <b>Screen based sorting analysis (40 mm),</b> 80 samples (~ 250 kg each) for the purpose of an ongoing documentation of the 'waste separation behaviour', in cooperation with the 18 regional waste associations.	2004	<b>Dipl.-Ing. F. Haidinger,</b> OÖ Landesregierung, t +43/ 732-7720-14512
• Trentino	<b>I</b> <b>Screen based sorting analyses (20 mm)</b> for several administration unions (Comunità Comprensoriale): Val Sugana (Borgo), Valle di Non (Cles), A.M.N.U. (Pergine), Val di Fiemme (Cavalese).	2006, 2005, 2004, 2003, 2002	<b>Various municipalities</b>
• Erbenschwang (Bavaria)	<b>D</b> <b>Screen based sorting analysis</b> (particle range 20...200 mm) of the MBT input as basis for the optimisation of the treatment.	2003	<b>Dipl.-Ing. H. Poczka,</b> EVA GmbH, t +49/8868/1801-0
• Milan province	<b>I</b> <b>Screen based sorting analysis (40 mm), wet waste ("umido"), dry waste ("secco") and unsorted mixed waste</b> from in each case up to 28 municipalities.	2002, 2000, 1999, 1998	<b>Dott. Sergio Saladini,</b> Provincia di Milano, t +39/02/77403711
• Federal state South Tyrol	<b>I</b> <b>Screen based sorting analysis (40 mm) in 28 residential structures</b> including the determination of calorific values.	2001 and 1996	<b>Dott. G. Angelucci,</b> Bozen province, t +39/0471/411883
• City of Istanbul	<b>TR</b> <b>Screen based sorting analysis</b> (Amount 50 t municipal solid waste in a winter- / summer analysis) in order to determine the technical details of treatment in the compost plant Istanbul.	2000	<b>Dipl.-Ing. Ingolf Baguß,</b> Lurgi Entsorgung, t +49/2102/922463
• W to E plant Stuttgart	<b>D</b> <b>Determination of the shredding behaviour</b> of a cutting shredder used for pretreatment (particle line up to 200 mm).	1999	<b>Dipl.-Ing. A. Winkler,</b> ABA Wien, t +43/1/25835-21
• City of Vienna	<b>A</b> <b>Waste analyses „Residual waste splitting Vienna“</b> (particle lines, moisture and ash content, calorific values as basis for the commercialisation of the "fine fraction" from the splitting plant Vienna (130.000 t/a).	2001 1999	<b>Dipl.-Ing. R. Siebenhandl,</b> Gemeinde Wien, MA 48, t +43/1/588170-0
• City of Milan	<b>I</b> <b>Screen based sorting analysis (20 mm)</b> of the input of the biowaste compost plant <b>Muggiano</b> (40.000 t/a, hypermarket wastes et al.).	1997	<b>Ing. Corrado Vicardi,</b> AMSA, t +39/02/27298829
• Federal state South Tyrol	<b>I</b> <b>Sorting analyses and determination of particle lines</b> (200/100/80/60/40/20 mm) of slag of the W to E plant Bozen	1997	<b>Dr. Werner Tirler,</b> Eco- Center, t +39/471/921 986
• Grünstadt (Rheinland- Pfalz)	<b>D</b> <b>Screen based sorting analysis (150...10 mm) of the input of a bio-waste compost plant</b> including analyses of ignition loss, C/N ratio etc.	1994	<b>Dr. Ulrich Wiegel,</b> ICU t +49/030/8573349-0
• City of Zagreb	<b>HR</b> <b>Screen based sorting analysis (60 mm)</b> in six residential and economic structures	1992	<b>Dr. Zlatko Milanovic,</b> ZGO, t +385/1/533 811

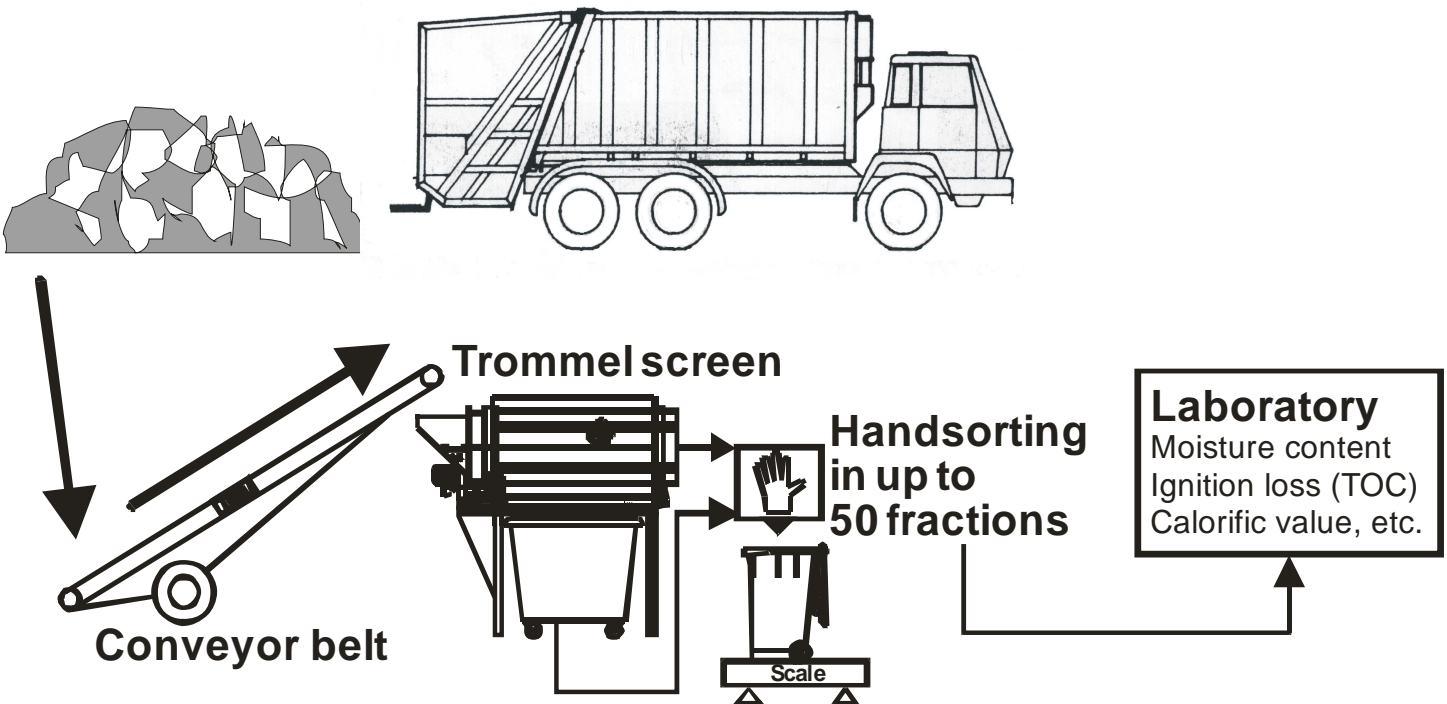
*Please turn over !*

The work station can be transported at low costs in a 20" *standard sea container* (combined truck / railway / ship transport).



The work station consists in its main components of...

- a *portable conveyor belt* for feeding the entire station
- a *trommel screen*, polygonal shape, with changeable mesh sizes (Ø max. 400 mm, min. 2mm)
- a *750-l container* for collecting screen underflow, various *sorting tables*
- 25 "big-bags" (1 m<sup>3</sup>) and 25 240-l *wheely bins* for collecting various sorted fractions
- various *analytical balances* (weighing range up to 300 kg)
- a *dryer (750 l)* for determining moisture content
- *sample preparation for further lab analyses*



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