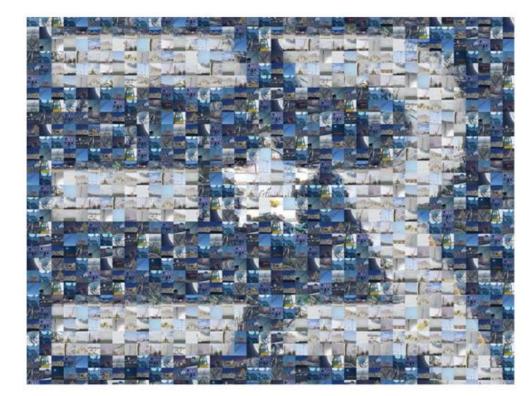
ERA Convention 2012

"Changing Rental"

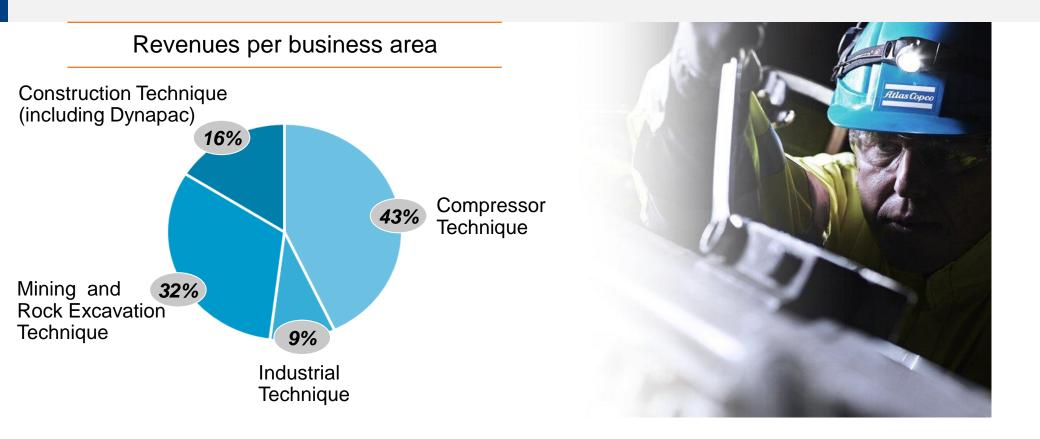
Product Group – Compaction Björn Jakobsén



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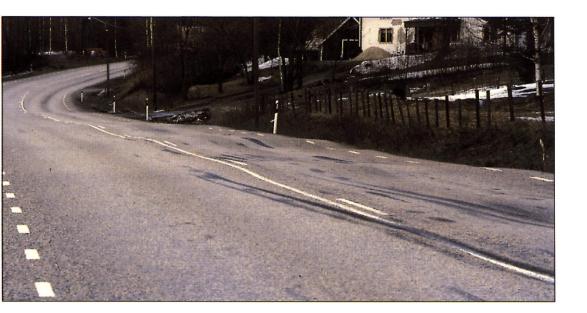
Supporting a wide variety of industries

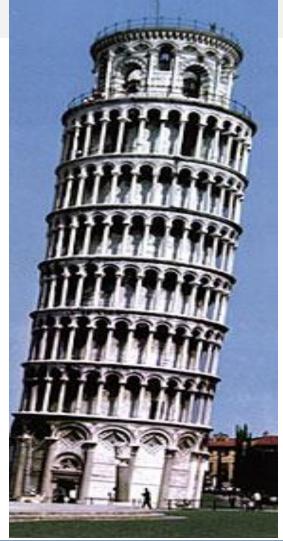




To review the different aspects of compaction between big and small, long term and short term rental.

Why compaction? The enduser need a a basic understanding/training!







Compaction cost is1-2% of the total project cost

1% increased density
=
10-15% higher load bearing and longer life time

High quality compaction pays off!



To review the different aspects of compaction between big and small, long term and short term rental.

For all compaction equipment rental:

- We need to know the compaction requirements on specific material to be able to suggest the right equipment. See road authority examples from Sweden/Norway slide 3-4.
- Basic end-user compaction knowledge is appreciated. The importance of Static linier load (not only dead weight of the equipment), Vibration amplitude and working speed. Comp Base/Pave comp are user-friendly tools that are available.
- Short-term/small eq. customers often need more support owing to less experience



To review the different aspects of compaction between big and small, long term and short term rental

Long-term contracts often means:

- More efficient solution (higher compaction performance) is preferred
- Ability to prove that required compaction is achieved, not just number of passes.
 Compaction meter is then required and now very common in Scandinavia, a system to document the work including cm accurate GPS
- More in depth operators training



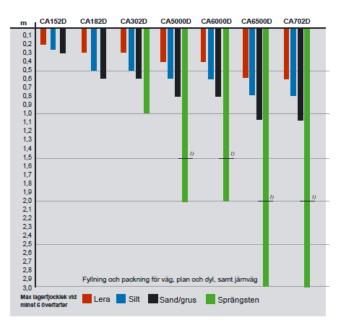
Spec from Norway

- Statens Vegvesen Håndbok 018
- Method spec

Komprimeringsutstyr			Uknuste materialer Sand, grus		Knuste materialer 4) Grus, pukk, kult, gjenbruksbetong		Sprengt stein	
Valsetype	Total vekt (tonn)	Statisk lineær vekt (kg/cm) 1)	Lag- tykk. (mm)	Min. antall passe- ringer 2)	Lag- tykk. (mm)	Min. antall passe- ringer 2)	Lagtykk. (mm)	Min. antall passe- ringer 2)
Vibrerende slepevals	3-5	15-25	≤ 400	7	≤ 200 400	5 7		27
	5-8	25-35	≤ 400 500	5 6	≤ 200 400 500	4 5 6	≤ 400 600 800	6 7 8
	>8	> 35	≤ 400 500	4 5	≤ 200 400 500	3 4 5	≤ 400 600 800 1000	4 5 6 7
Selvgående vibrovals	6-8	15-25	≤ 400	8	≤ 200 400	5 7		
	8-10	25-35	≤ 400 500	7 8	≤ 200 400 500	4 7 8		
	10-13	35-45	≤ 400 500	5 6	≤ 200 400 500	4 5 6	≤ 700 1000	4
	> 13	>45	≤ 400 500	3 4	≤ 400 500	3 4	≤ 700 1000 1200	4 6 8
Tandemvals 3)	2-4	(15-25) x-2	200	6	200	6		
	4-8	(15-25) x-2	300	5	400	6		
	8-13	(25-35) x-2	400	5	400	5		

Max tillåten lagertjocklek enl. AMA 10, 6 överfarter

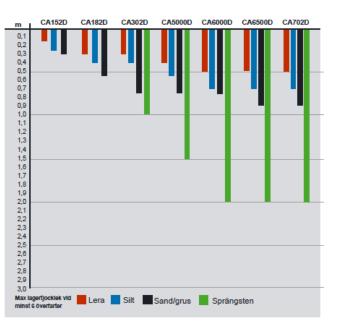
CE/3 Väg, plan och järnväg



CE/4 Fyllning och packning för grundläggning av och fyllning och packning mot byggnader, mur, trappa, ledningar, fundament mm.

CA152D CA182D CA302D CA5000D CA6500D CA702D CA6000D m 0,1 0,2 0,3 0,4 0,5 0,6 0,7 0,8 0,9 1,0 1,1 1,2 1,3 1,4 1,5 1,6 1,7 1,8 1,9 2,0 2,1 2,2 2,4 2,5 2,6 2,7 2,8 2,9 3.0 Max lagertjocklek vid Lera 🔜 Silt 📕 Sand/grus 📕 Sprängsten minst 6 överfarter

CE/6 Fyllning och packning för väg, plan od, kategori A.



1) Den mindre tjockleken gäller vid fyllning och packning för järnväg

Materialtyp

Sprängsten

Bergtyp 1 (kulkvarnsvärde <18). Finjordshalt (0,063/63) <10 viktprocent. Bergtyp 3 (kulkvarnsvärde >30). Finjordshalt (0,063/63) <15 viktprocent.

Sand/grus

Block och stenjordar. Grovkorniga jordar, finjordshalt (0,063/63) <15 viktprocent.

Silt

Blandkorniga jordarter med finjordshalt (0,063/63) 15-30 viktprocent. Finkorniga jordarter med finjordshalt (0,063/63) >40 viktprocent och lerhalt (0,002/0,063) <=40 viktprocent.

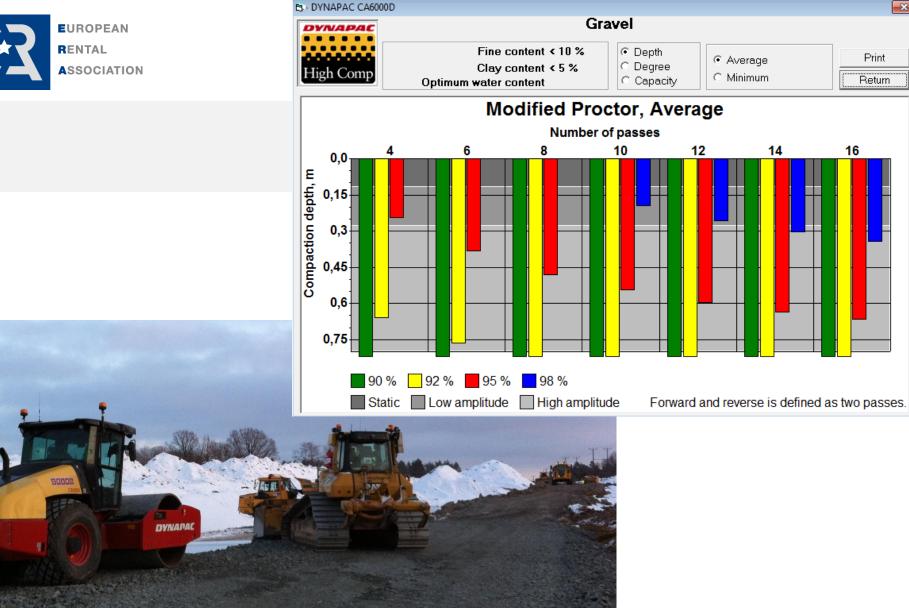
Lera

Blandkorniga jordarter med finjordshalt (0,063/63) 31-40 viktprocent. Finkorniga jordarter med lerhalt (0,002/0,063) >40 viktprocent och finjordshalt (0,063/63) >40 viktprocent.

Mer information ang. antal överfarter för att uppnå gällande packningskrav hittar du i Dynapacs erfarenhetsbank, CompBase.



OVNAPAC



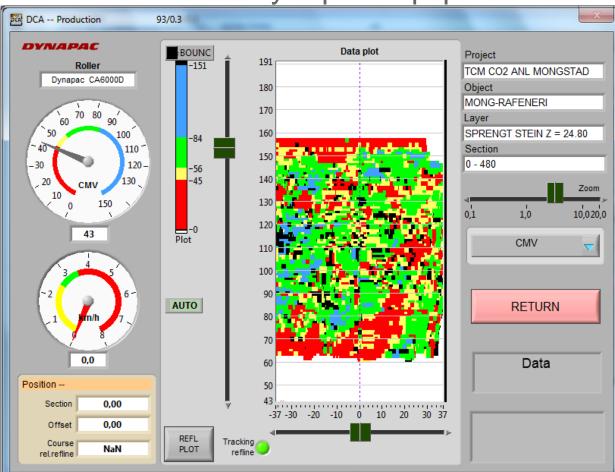
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EUROPEAN RENTAL ASSOCIATIO

ASSOCIATION Getting the most out of the Dynapac equipment

DCA for Soil and Asphalt

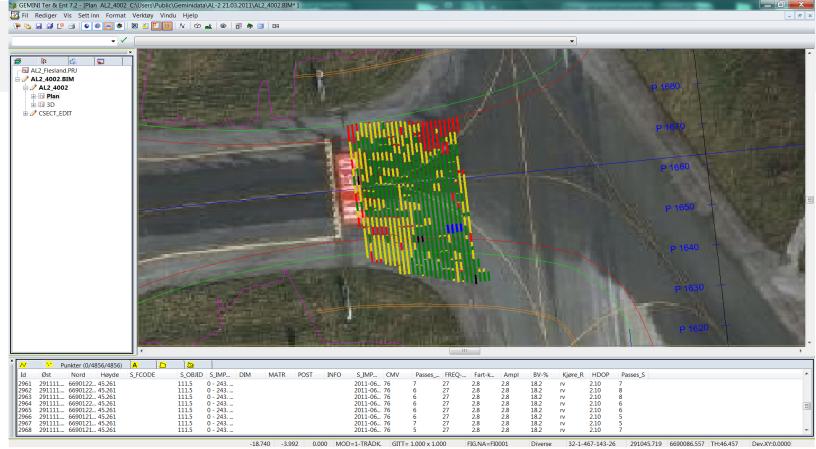












- Documentation of exisiting structures
- Locate areas of inferior quality

EUROPEAN RENTAL

ASSOCIATION

Correct these areas with good precision



>Product of the Year<? Dynapac CA6000D soil compactor





CA5000D • CA6000D • CA6500D CA5000DCO • CA6000DCO CA5000PD • CA6000PD • CA6500PD



OPTIMIZED PARAMETERS

Provide superior compaction performance ACTIVE BOUNCING CONTROL

Prevent damage to the roller and over-compaction

CROSS-MOUNTED ENGINE

A revolution in serviceability

LOW NOISE AND FUEL CONSUMPTION

Sustainability and working environment in focus MISSION CONTROL

Puts you in full control of the entire compaction process



Dynapac education

Training Academy at our production facilities.
Operators/compaction training
Certification of operators
Local compaction training close to our customers









Committed to sustainable productivity.

