

TEREX AC-55

60 TONNE ALL TERRAIN SLEW CRANE

Outrigger Point Loading



PPM - Montceau les Mines

02/10/2007

CRANE : AC55.1

REACTIONS UNDER OUTRIGGER PADS

Boom, Outrigger Configuration and Counterweight to be used for the simulation ?

Mark X in the corresponding Choice Column Box for the selected configuration (Warning - only make one selection)

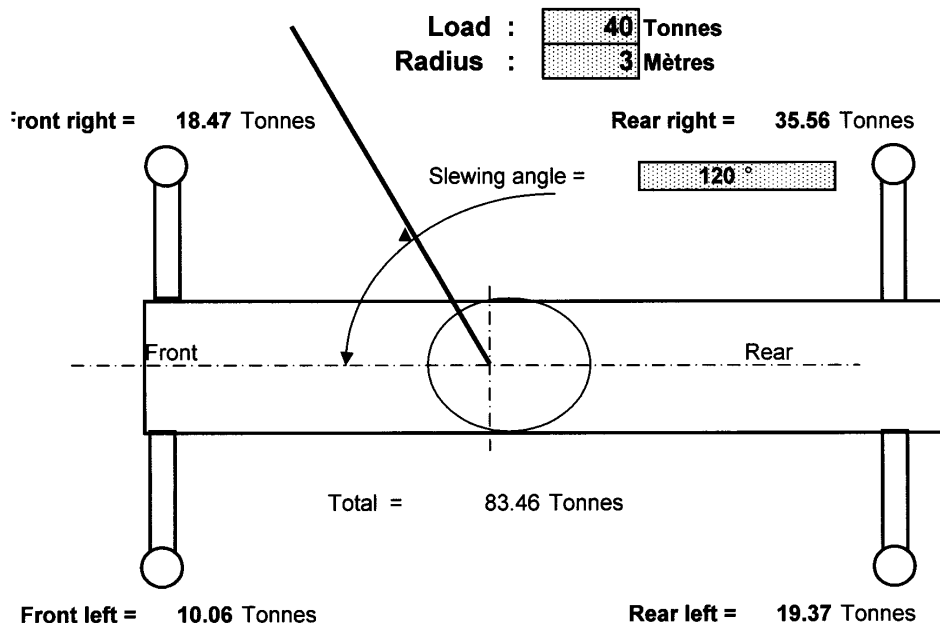
Choice	N°	Boom length	Type
<input checked="" type="checkbox"/>	1	10.28	Mode 1/2
<input type="checkbox"/>	2	13.77	Mode 1
<input type="checkbox"/>	3	17.19	Mode 1
<input type="checkbox"/>	4	20.61	Mode 1
<input type="checkbox"/>	5	24.17	Mode 1
<input type="checkbox"/>	6	27.59	Mode 1
<input type="checkbox"/>	7	31.01	Mode 1
<input type="checkbox"/>	8	32.57	Mode 1
<input type="checkbox"/>	9	20.76	Mode 2
<input type="checkbox"/>	10	24.10	Mode 2
<input type="checkbox"/>	11	27.67	Mode 2
<input type="checkbox"/>	12	31.01	Mode 2
<input type="checkbox"/>	13	34.50	Mode 2
<input type="checkbox"/>	14	37.92	Mode 2
<input type="checkbox"/>	15	40.00	Mode 2

Choice	Outrigger configuration
<input type="checkbox"/>	On tires
<input type="checkbox"/>	On fully retracted outriggers
<input type="checkbox"/>	On half extended outriggers
<input checked="" type="checkbox"/>	On fully extended outriggers

Choice	Counterweight (T)
<input type="checkbox"/>	5.15
<input type="checkbox"/>	7.5
<input type="checkbox"/>	9.1
<input checked="" type="checkbox"/>	11.6
<input type="checkbox"/>	XXXXX XXXXX

Counterweight (T) = 11.6

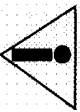
On fully extended outriggers



Slew	P FrR	P ReR	P ReL	P FrL
0	23.55	18.18	18.18	23.55
45	26.97	24.81	15.18	16.50
90	23.27	32.67	16.07	11.45
135	16.11	35.67	21.83	9.86
180	11.17	30.56	30.56	11.17

REACTIONS AT THE SUPPORTS :

Data to be input for reactions at the supports calculation



REFER TO THE "LIFTING CAPACITY CHART" BOOKLET BEFORE USING THIS PROGRAM



PPM - Montceau les Mines

MACHINE : ATT900

30/11/1999

REACTIONS UNDER OUTRIGGER PADS

1

Boom selection
(length, kind of telescoping mode)

Choice N°

Choice N°	Boom length	Type
1	11.6	Mode 1/2
2	14.3	Mode 1
3	17.0	Mode 1
4	19.3	Mode 1
5	26.9	Mode 1
6	35.3	Mode 1
7	39.5	Mode 1
8	44.7	Mode 1
9	17.4	Mode 2
10	23.4	Mode 2
11	32.1	Mode 2
12	39.2	Mode 2
13	43.7	Mode 2
14	50.5	Mode 2
15	53.0	Mode 2

Choice

Choice	Outrigger configuration
1	On tires
2	On fully retracted outriggers
3	On half extended outriggers
4	On fully extended outriggers

2

Outrigger configuration

other than , an error message will be generated and the calculation will be wrong.

5

Radius

Choice

Choice	Counterweight (t)
1	0.00
2	2.15
3	10.75
4	19.15
5	XXXXX XXXXX

3

Counterweight selection

6

Slewing angle

Counterweight (t) = 19.15

On fully extended outriggers

Load : 30 Tonnes
Radius : 3 Meters

Load to be lifted
hook block and equipment included

Front right = 19.09 Tonnes

Rear right = 55.29 Tonnes

Front left = 19.09 Tonnes

Rear left = 55.29 Tonnes

Total = 148.75 Tonnes

Slewing angle = 180°

Résultats

Reactions under each pad

7

other slewing angles choice
choice of 5 other slewing angles.

SLEW	P.FTR	P.PRE	P.REL	P.FTL
0	40.75	33.63	33.63	40.75
45	46.17	45.64	27.87	29.08
90	39.59	59.43	29.29	20.44
135	27.31	64.50	39.64	17.30
180	19.09	55.29	55.29	19.09

Units : meters ,tonnes, degrees

NC 3325 - 29.11.99