Point Loadings explained

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Point Loading Chart

	Hinowa	PRESSURES AND REACTIONS TO THE GROUND				
	Model	UNDERCARRIAGE		OUTRIGGER		maximum ground bearing pressure PSI
		Average Reaction [daN]	Pressure on soft ground [daN/cm²]	Reaction [daN]	Average Pressure on pad Ø30cm [daN/cm²]	
Z50RT	LL1570	N/A	N/A	1670 daN	2.36 daN/cm2	34.2 PSI
Z66RT	LL2010	2980 daN	0,64 daN/cm²	2150 daN	3,04 daN/cm²	45 PSI
Z85RT	LL2614	4182 daN	0.53 daN/cm2	3124 daN	4.42 daN/cm2	65 PSI
Z85RTL	LL2614 Lithium	4182 daN	0.53 daN/cm2	3124 daN	4.42 daN/cm2	65 PSI

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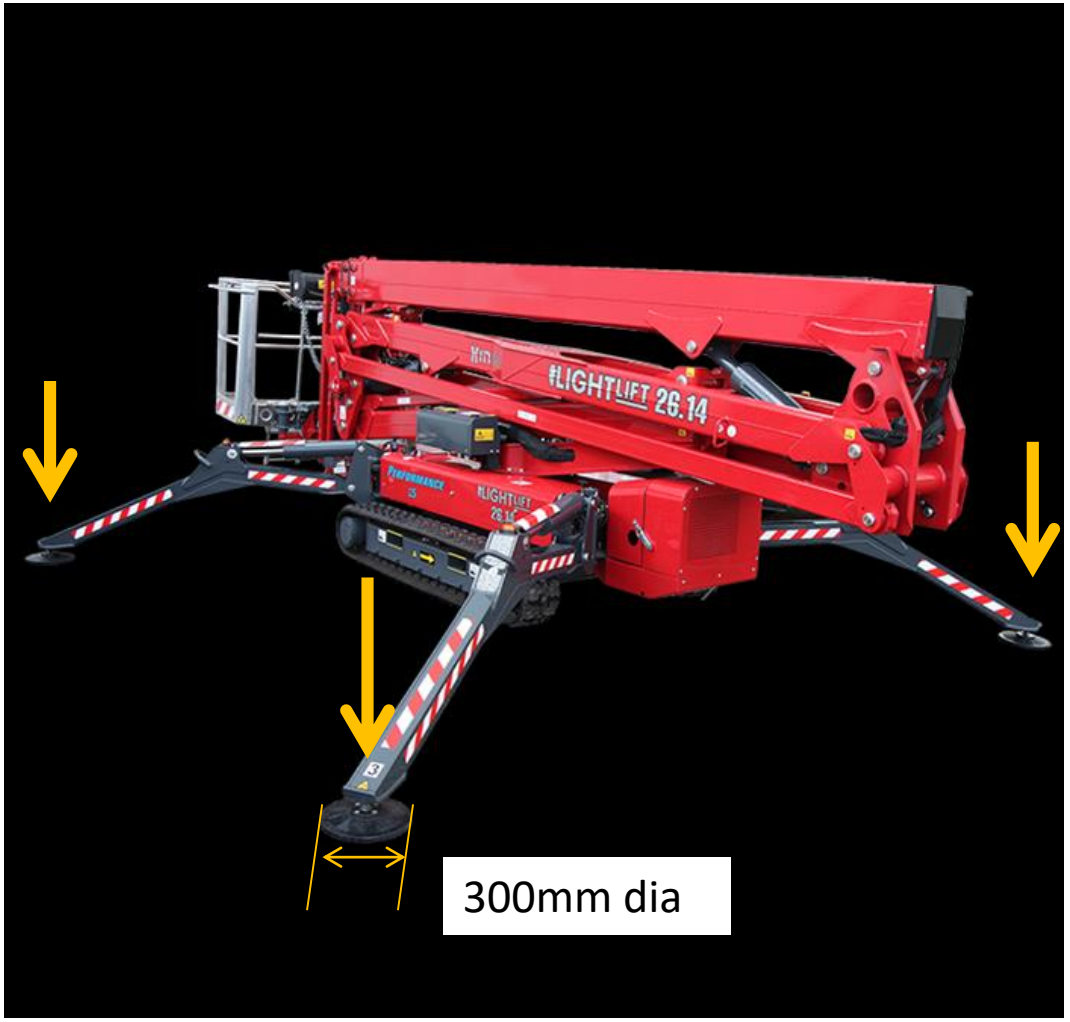
Concentrated surface pressure CSP

CSP is the force that is concentrated it is the most accurate way of measuring point loadings and Hinowa recommend this figure.

E.G. Model 2614
30cm dia foot pad area = 706.85cm2
Reaction 3124daN

3124/706.85 =4.419 (4.42) daN/cm2

To convert Decca N (daN) to KN/M2 (kilo Newton's per metre square Times by 100)
E.G.
4.42 x 100 = 442KN/M2



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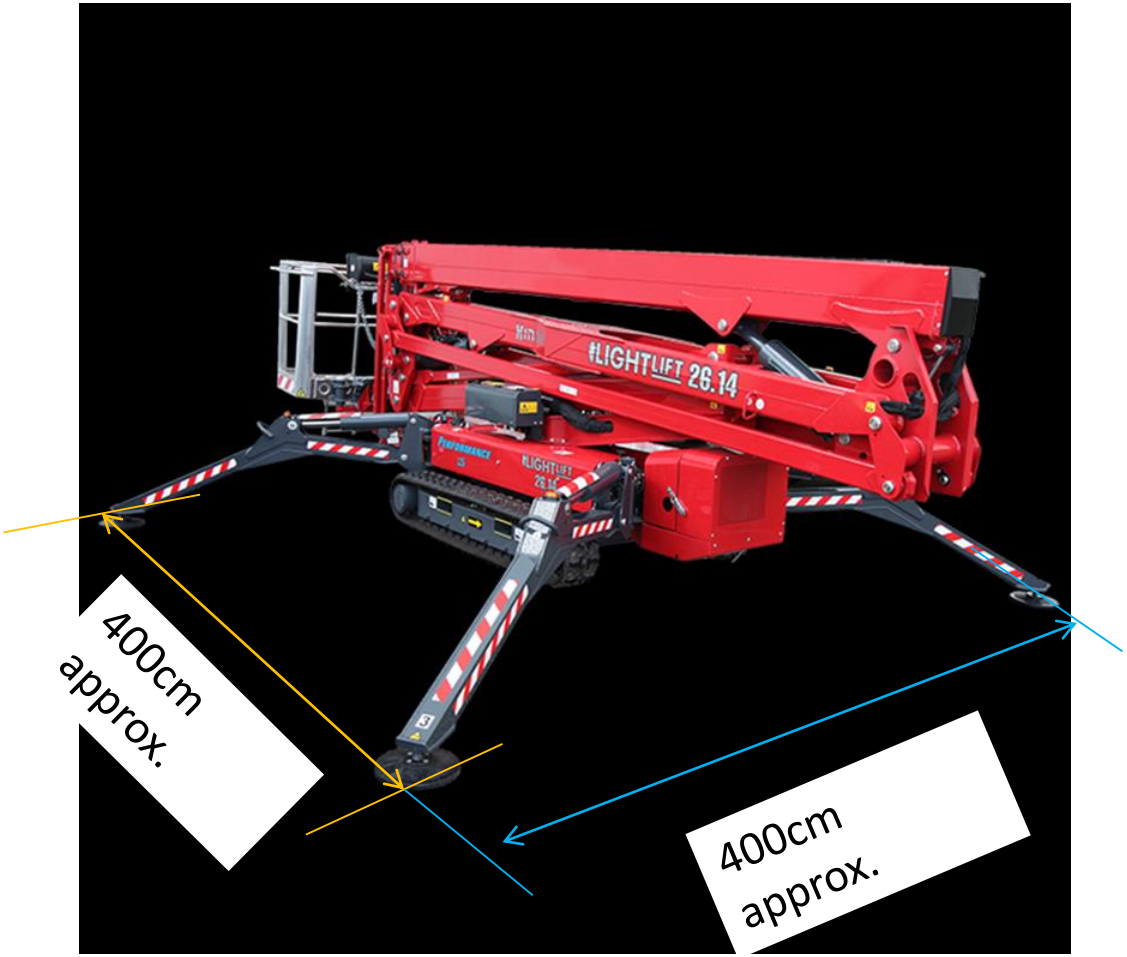
General surface pressure GSP

GSP is a general load over an area many shopping centres use this measurement also other access platform manufactures, Hinowa don't consider this to be accurate.

E.G. machine weight (model 2614 diesel) 4365Kg
Base area 4mtr x 4mtr =16 mtr/2
4365/16 = 272daN/M2
(To convert daN Decca Newton's to KN Kilo Newton's Divide by 100)
272/100 =2.73KN/M2



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Point Loadings Conclusion

1. CSP is accurate
2. CSP is the choice of Hinowa
3. You must understand the value of the point loadings you have been Given CSP or GSP
4. The values in this Guide are for example only you must check the values for your specific machine
5. If in doubt check with you Architect