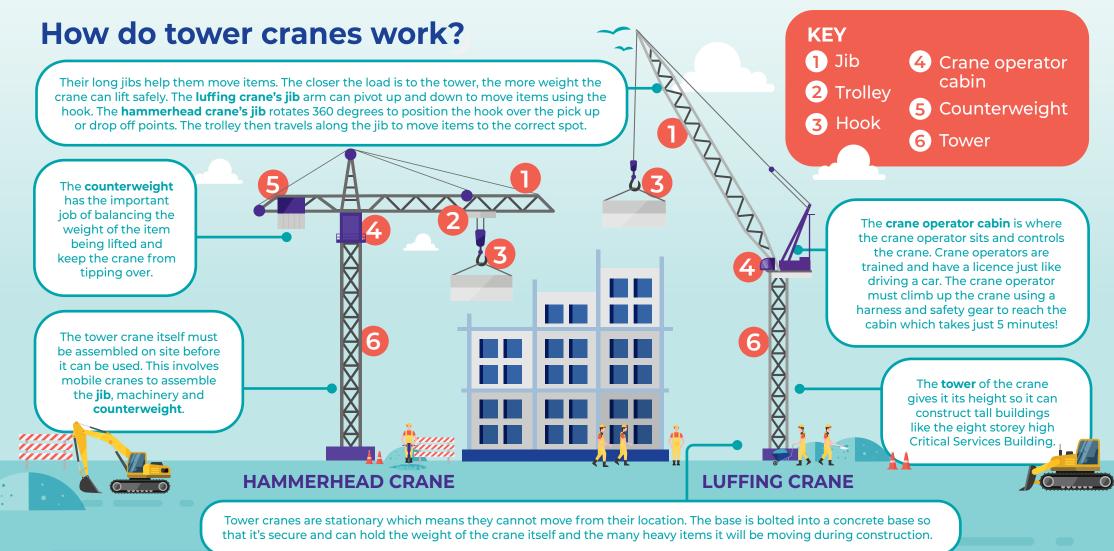
# **Tower Cranes**



Two electric tower cranes will be used to help build the Canberra Hospital's new Critical Services Building. There are many types of cranes and for this project two kinds of tower cranes will be used; a **luffing crane** and a **hammerhead crane**. The cranes will move heavy or bulky materials such as steel, concrete, machines and other items within the site boundary. Both cranes will be onsite until 2023 to help construct the new building. You'll be able to see them from Garran Primary School and other nearby locations.

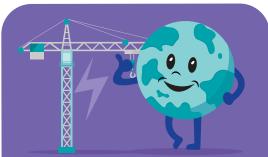




#### OUR HAMMERHEAD CRANE IS 50M HIGH TO THE CRANE OPERATOR CABIN – THAT'S AROUND IO GIRAFFES!



THE LUFFING CRANE ON OUR SITE CAN HOLD UP TO 18,000KG IN ONE LOAD – EQUALLING ALMOST 4.5 FEMALE ASIAN ELEPHANTS



ELECTRIC CRANES PRODUCE LESS NOISE AND POLLUTION COMPARED TO A DIESEL CRANE

### What is weathervaning?

Sometimes cranes will appear to rotate or 'dance' on high wind days. This is called 'weathervaning' and is a safe way to reduce pressure on the crane structure when winds reach high speeds.

When weathervaning, the cranes will be moved into a safe position and will not lift materials. The hook of each crane will be raised, with the trolley of the hammerhead parked in the 'inner' position and the jib of the luffing crane raised vertically.



In this position, the cranes' jibs can safely rotate in the direction of the wind.

When the cranes are not in use, the jib of the luffing crane will be raised vertically.

## Word Search

Can you find all the words hidden in the puzzle which relate to tower cranes? Cross off each word once you've found it. **HINT:** Words can run backwards, forwards, up and down.

YRDVWYIWBHPS E 0 B DVUZEWGLI ETUD K F UAAXJ U JAHP Ζ N 7 NYZTYS MVG LHIS E. R H H V W F F. 0 G Y 0 D E. EAE HQI Ο Ε S V NMR F Ρ С IMV С - I-G DE R S UHEA RE - F LR E B C Т R С RNACMTATLA E N TAHI ΝΤΟΟΤΝ R L υo S MENERYWO С U VC V A G A E R OXF J D С R C 0 G Y R P СКТΖХ DIWNIBACOTN **O** C S F

WORDS

**WEATHERVANING** CRANE TOWER JIB TROLLEY LUFFING HAMMERHEAD HOOK **OPERATOR** CABIN COUNTERWEIGHT STEEL CONCRETE MACHINERY ELECTRIC BUILDING HOSPITAL CONSTRUCTION LIFT **HEAVY** 

#### **ANSWERS**

Ν	T	δ	з	۷	8	+	N	м	Т	a	Н	s	\$	δ	
х	z	ŧ	к	9	d	ķ	٨	•	Я	С	4	D	6	٨	
Т	н	ł	х	0	ĕ	1	C		٨	P	Y	٨	4	н	
<b>P</b>	۸		C	h	6	-		4		4	4	W	\$	С	
6	٨	1	đ	N	ł	0	0	ł			н	Ý	ł	в	
	э	Y	٦	4	Y	1	м	•	Y	4	ъ	\$	4	÷	
\$	8	Ŧ	в	1	4	٦	±		4	Ý	4		•	4	
a	ή		ş	5	1	a	9		\$	1	и		\$	0	
		d	ł	٨	4	z	- 14	4	н	а	и	4	Ŧ	1	
ţ	1	\$	1	1	6	٨		δ	н	1	Y	1			
4	4	0	1		¥	D	4	Μ	۸		н	ł	6		
s		н	ŧ.	9	1	М	4	s	٨	ł	z	٢	N	Y	
z	4	z	d	н	Y	q			х	Ý	A	٨	Ы	к	
d	9	a	n	1	1		1	D	м	1	z	Λ	۸	а	
в	ο	э	s	d		ε	M	Т.	٨	M	٨	a	в	٨	