

WE ARE KNDS

With over a century of engineering expertise and innovation, KNDS UK (formerly WFEL Limited) is a renowned world leader in rapidly deployable bridging systems for use in the military and for various disaster relief scenarios.

We are proud of our heritage and our reputation of providing the highest quality engineering solutions, made at our UK site near Manchester.

As a trusted partner to military customers around the world, our highly skilled and experienced workforce is dedicated to providing excellence across all areas of the business, from concept and design to project management, engineering and manufacturing.

Our bridging systems support both military and humanitarian purposes, providing rapid and easily deployable gap crossing capabilities, as well as temporary infrastructure relief crucial to the rebuilding process in emergencies and disaster zones.



Soldier crossing Medium Girder Bridge in Afghanistan



Highly skilled workforce



Dry Support Bridge



Disaster relief



DSB DRY SUPPORT BRIDGE

The Dry Support Bridge is the latest generation of military bridging, made from a specially manufactured lightweight aluminium alloy under licence to KNDS.

With interoperability a key priority, precision engineering and manufacturing techniques ensure that each DSB is compatible with any other DSB in service, which allows the sharing of resources during NATO and other joint operations worldwide. The DSB is deployed in minutes with minimal manpower and is currently used by 4 Armed Forces with a further 3 on contract, including the British Army.

Designed to provide compact transportation, the DSB's modules neatly fold away when stowed. When stacked, two modules can be loaded on to a STANAG flatrack, carried on most PLS/DROPS or 6 metre flat bed vehicles eliminating the need for specialist transportation. Each loaded flatrack can also be transported by air as well as by rail. In all configurations, trucks can be used instead of trailers if required.





DSB deployed

DSB in Korea

DSB Technical Specifications

Maximum clear gap	46 metres			
Span range	Up to 46m in 6m increments			
Military Load Classification	Normal 80 (T)/96 (W) at 46m Maximum 120 (W) at 46m			
Road width	4.3m			
Bank heights	+/- 3m at 40m			
Build crew	8 personnel			
Launch time	90 minutes			
Parallel module	Stowed (Length/Width/Height): 5.9m x 2.44m x 1.1m Deployed (LWH): 5.9m x 4.3m x 1.19m Weight: 4,417kg			
Ramp module	Stowed (LWH): 5.95m x 2.44m x 1.1m Deployed (LWH): 5.96m x 4.3m x 1.19m Weight: 4,080kg			
End beam	(LWH): $2.5 \text{m} \times 0.37 \text{m} \times 0.56 \text{m}$ Weight: 357kg			
Approach ramp	(LWH): $2.5 \text{m} \times 0.37 \text{m} \times 0.56 \text{m}$ Weight: 86kg			
Decking and kerbs	Integral, part of the bridging sections			
Vehicles and trailers for 40m bridge	Launch vehicle with trailer and 2 x support vehicles with trailers			
Vehicles and trailers for 40m bridge (US Army specification with added capability to build two smaller bridges)	Launch vehicle with trailer and 3 x support vehicles with trailers			
Vehicles and trailers for 46m bridge	Launch vehicle with trailer and 3 x support vehicles with trailers			
Launcher environmental tolerances	Operating air temperature: -29°C to +49°C Storage air temperature: -46°C to +71°C Relative humidity: 3% to 95% non-condensing			
Bridge environmental tolerances	Operating air temperature: -46°C to +49°C Storage air temperature: -46°C to +71°C Relative humidity: 3% to 95% non-condensing			





MGB Technical Specifications

	Single Storey		Double Storey		Double Storey LRS		
Military Load Classification	Span (metres)	Bridge weight (tonnes)	Span (metres)	Bridge weight (tonnes)	Span (metres)	Bridge weight (tonnes)	
100 (Wheeled)	9	5.84	25.4	19.01	31.1	23.69	
90	9	5.84	25.4	19.01	36.5	28.51	
80	9	5.84	25.4	19.01	36.5	28.51	
70	9	5.84	29.1	21.33	36.5	28.51	
60	9	5.84	29.1	21.33	46.2	35.79	
50	9	5.84	32.8	23.59	46.2	35.79	
40	10.8	6.56	36.4	25.9	46.2	35.79	
30	14.4	8.02	40.1	28.21	46.2	35.79	
20	18.1	9.46	45.6	31.68	46.2	35.79	
16	21.8	10.93	47.4	32.84	46.2	35.79	

			Planning time (minutes)		Best time (minutes)	
Personnel	Span (metres)	Configuration	Day	Night	Day	Night
1+8	9	Single Storey	12	35	30	45
1 + 16	21.8	Single Storey	40	65	60	75
1 + 24	29.1	Double Storey	40	70	75	120
2 + 32	46.2	Double Storey with LRS	86	-	180	210





MADE IN THE UK, TRUSTED AROUND THE WORLD.

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