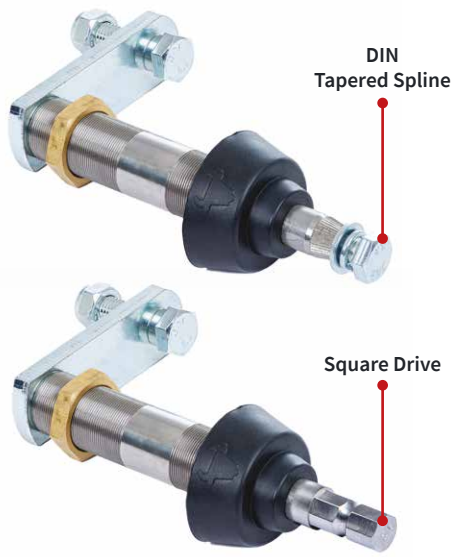
SQUARE DRIVE SWIVEL SHAFTS
FOR LINKAGE WIPER SYSTEMS

The use of a square drive interface between a wiper arm and its motor or linkage shaft has proven to be advantageous on numerous modern OEM railway applications.

They provide an ability to fit the arm in the correct park position first time every time and are also significantly more resilient to the problems of spinning on the traditional tapered DIN spline interface as a result of bird strikes and/or inconsistent fitment standards. As a result of this a number of operators have identified that the benefit can be read across by retrofit to older vehicles by changing the relevant components to the new design.

Many of the older vehicles were built with either a pneumatic BPM wiper motor or an electric wiper motor system that was coupled via a linkage system to its stainless steel output shaft through the bulkhead and onto the DIN taper spline wiper arm. It will be seen from the adjacent illustration that the process of changing the DIN taper swivel shaft is a simple substitution of one for the other to upgrade to the square drive swivel shaft.



In cases where the wiper arm is of an arcuate type the changing of the swivel shaft and the fitment of a corresponding arcuate wiper arm is all that is required. If however the vehicle is fitted with a pantograph wiper arm then in addition it will also be necessary to substitute a new slave arm swivel post in place of the existing swivel post as illustrated by the corresponding datasheet.

Class/Type	Manufacturer	DIN Taper Swivel Shaft	Driver's Side Square Drive Swivel Shaft	Assistant's Side Square Drive Swivel Shaft
165	BREL	534257	M401942	M401942
166	BREL	534257	M401942	M401942
323	HUNSLET	534270	M411510	M411509
325	ABB	M400488	M402102	M402103
365	ABB	M400488	M402104	M402105
442	BREL	M401861	M402106	M402107
465	MCL	534270	M402108	M402109
465/1	BREL	534540	M402110	M402111
465/2	BREL	534540	M402112	M402113
466	MCL	534270	M402114	M402115
IC3	ABB	M400817	M402116	M402117

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