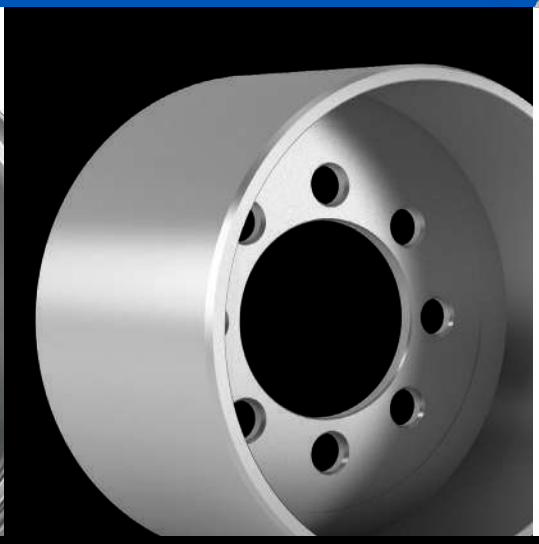
TECHNICAL DATASHEET
FOR WHEEL MEASUREMENTS

STANDARD MULTI-PIECE WHEELS
(2-, 3- OR 4-PIECE)



PRESS-ON WHEELS
FOR PRESS-ON TIRES (POW)

SPLIT WHEELS /
DIVIDED RIMS (SPW)

DOUBLE MULTI-PIECE WHEELS
(2-, 3- OR 4-PIECE)

SINGLE-PIECE DROP-CENTER
WHEELS (DCW)

EARTHMOVING WHEELS
(3-OR 5-PIECE)

TECHNICAL DATASHEET
STANDARD MULTI-PIECE WHEELS (2-, 3- OR 4-PIECE)

Tire size	
Wheel size	

Rim diameter	A	inch
Rim width	B	inch
Rim thickness	N	mm
Valve slot	R	Yes/No
Centre bore	C	mm
PCD	D	mm
Number of holes		
Stud hole dia	E	mm
Countersink dia	F	mm
Radius	r	mm
Angle	ß	°
Distance from FF to nave	K	mm
Distance from LF to nave	L	mm
Nave thickness	G	mm
Skimming dia	J	mm
FF reinforcement	P	Yes/No
LF reinforcement	Q	Yes/No
Color (indicate RAL code if not black primer)		

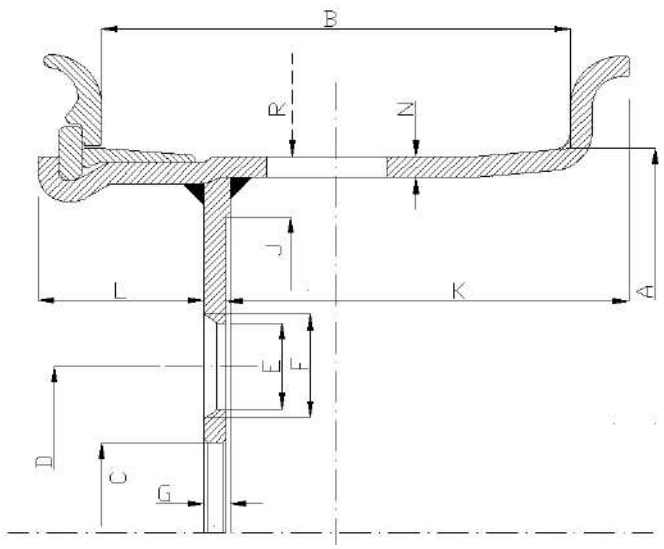
Type of rim	2-piece	3-piece	4-piece
Tire type	Resilient	Pneumatic	
Rings	Incl.	Excl.	

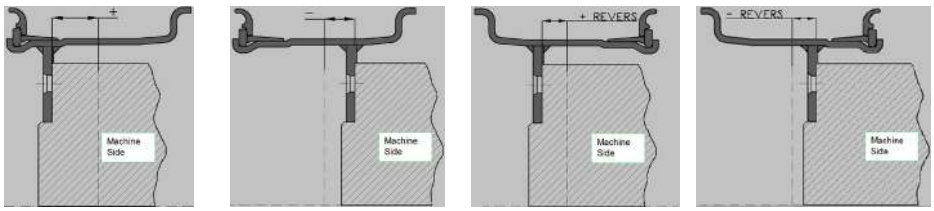
Vehicle model

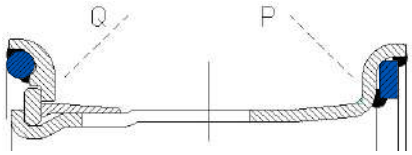
Wheel identification number	**Quantity**

Remarks

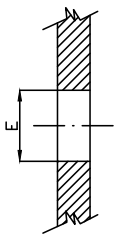
Company name / Contact person



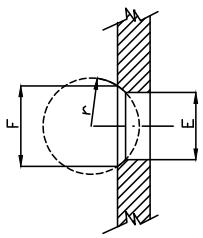




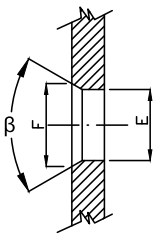
Straight



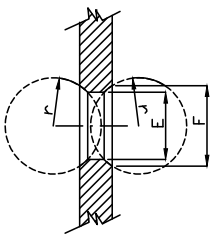
One side spherical



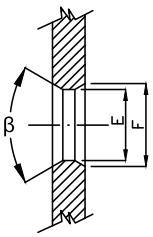
One side conical



Both sides spherical



Both sides conical



BACK

TECHNICAL DATASHEET
DOUBLE MULTI-PIECE WHEELS (2-, 3- OR 4-PIECE)

Tire size	
Wheel size	

Rim diameter	A	inch	
Rim width	B	inch	
Rim thickness	N	mm	
Valve slot	R	Yes/No	
Centre bore	C	mm	
PCD	D	mm	
Number of holes			
Stud hole dia	E	mm	
Countersink dia	F	mm	
Radius	r	mm	
Angle	ß	°	
Distance from FF to nave	K	mm	
Distance from LF to nave	L	mm	
Total width	V	mm	
Nave thickness	G	mm	
Skimming dia	J	mm	
FF reinforcement	P	Yes/No	
LF reinforcement	Q	Yes/No	
Color (indicate RAL code if not black primer)			

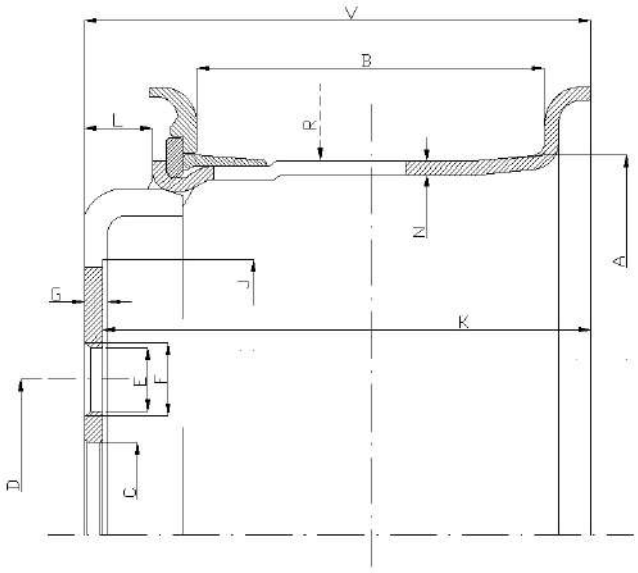
Type of rim	2-piece	3-piece	4-piece
Tire type	Resilient	Pneumatic	
Rings	Incl.	Excl.	

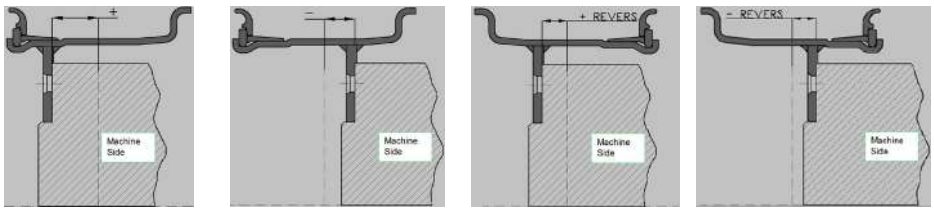
Vehicle model

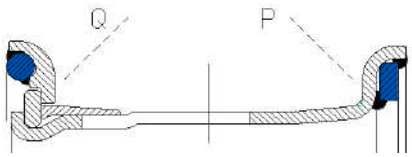
Wheel identification number	Quantity

Remarks

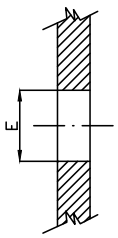
Company name / Contact person



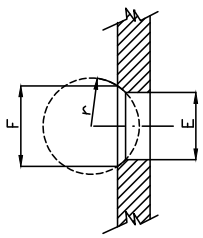




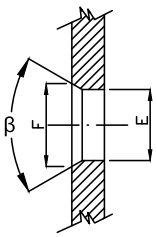
Straight



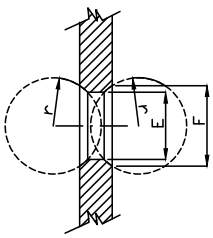
One side spherical



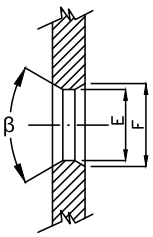
One side conical



Both sides spherical



Both sides conical



BACK

TECHNICAL DATASHEET
PRESS-ON WHEELS FOR PRESS-ON TIRES (POW)

Tire size	
Wheel size	

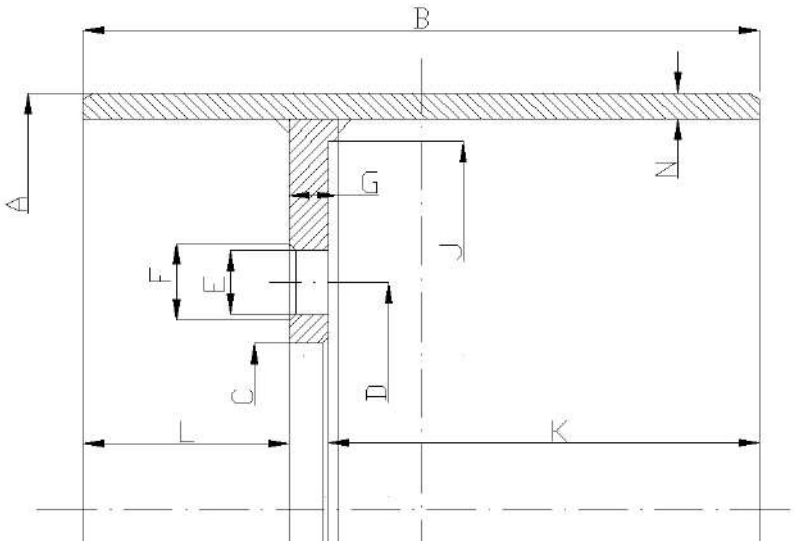
Rim diameter	A	inch/ mm
Rim width	B	inch/ mm
Rim thickness	N	mm
Centre bore	C	mm
PCD	D	mm
Number of holes		
Stud hole dia	E	mm
Countersink dia	F	mm
Radius	r	mm
Angle	ß	°
Distance from FF to nave	K	mm
Distance from LF to nave	L	mm
Nave thickness	G	mm
Skimming dia	J	mm
Color (indicate RAL code if not black primer)		

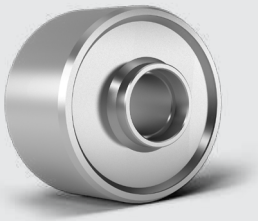
Vehicle model

Wheel identification number	Quantity

Remarks

Company name / Contact person

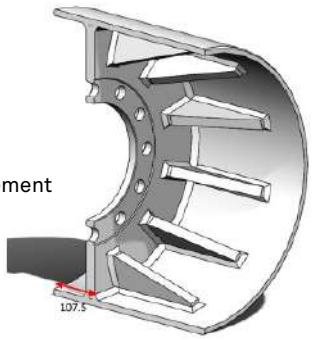




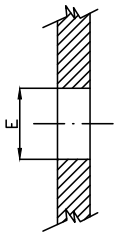
Do you need a hub?

Ask for assistance!

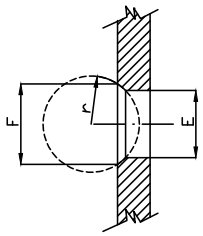
Tick if there is gusset-reinforcement



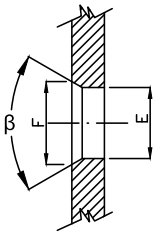
Straight



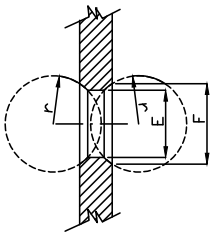
One side spherical



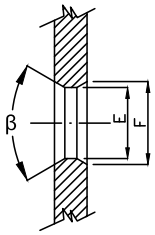
One side conical



Both sides spherical



Both sides conical



BACK

TECHNICAL DATASHEET
SINGLE-PIECE DROP-CENTER WHEELS (DCW)

Tire size	
Wheel size	

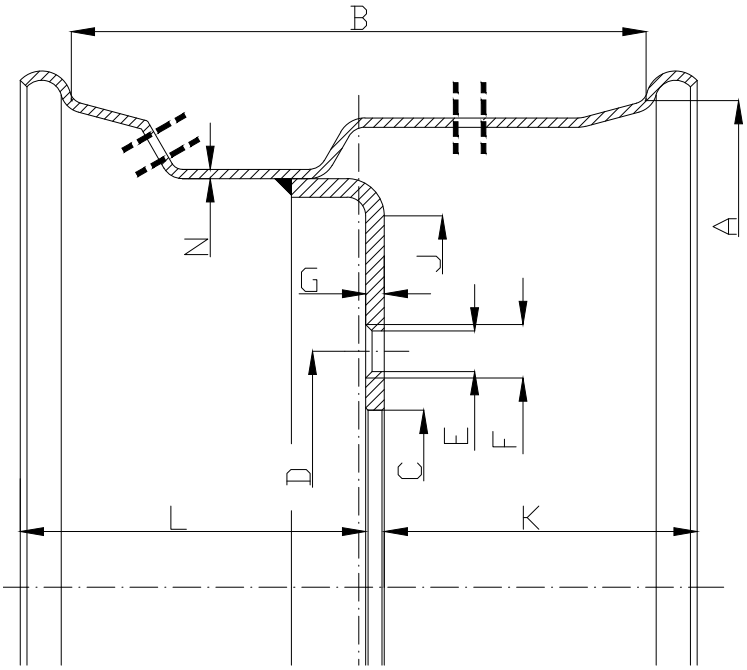
Rim diameter	A	inch
Rim width	B	inch
Rim thickness	N	mm
Centre bore	C	mm
PCD	D	mm
Number of holes		
Stud hole dia	E	mm
Countersink dia	F	mm
Radius	r	mm
Angle	ß	°
Distance from FF to nave	K	mm
Distance from LF to nave	L	mm
Nave thickness	G	mm
Skimming dia	J	mm
Color (indicate RAL code if not black primer)		

Vehicle model

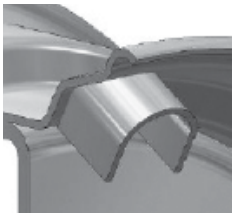
Wheel identification number	**Quantity**

Remarks

Company name / Contact person

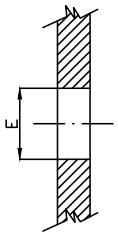


Valve hole position

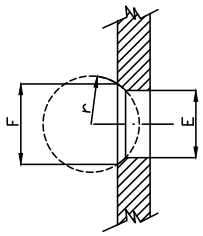


Tick if there is valve protector

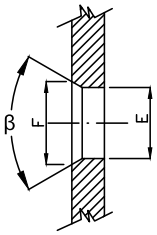
Straight



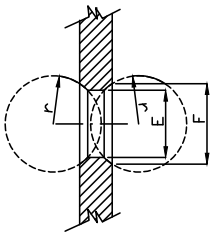
One side spherical



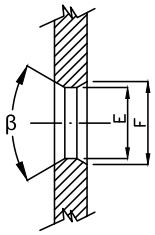
One side conical



Both sides spherical



Both sides conical



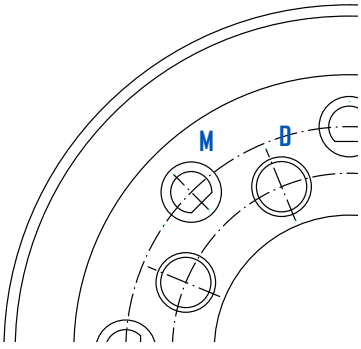
BACK

TECHNICAL DATASHEET
SPLIT WHEELS / DIVIDED RIMS (SPW)

Tire size	
Wheel size	

Rim diameter	A	inch
Rim width	B	inch
Valve slot	R	Yes/No
Centre bore	C	mm
PCD	D	mm
Number of holes		
Stud hole dia	E	mm
Countersink dia	F	mm
Radius	r	mm
Angle	ß	°
Nave thickness	G	mm
Skimming dia	J	mm
Dia of clamping PCD	M	mm
Color (indicate RAL code if not black primer)		

DN and DM bolt heads must be fitted to the outside.



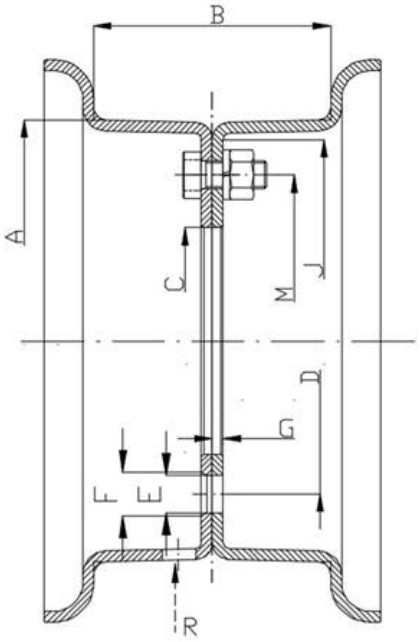
Tire type Resilient Pneumatic

Vehicle model

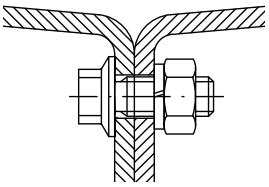
Wheel identification number	**Quantity**

Remarks

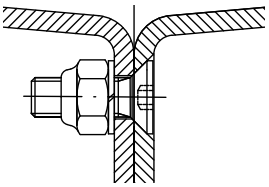
Company name / Contact person



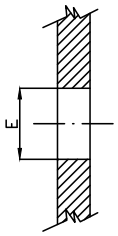
DN • DM • HEX



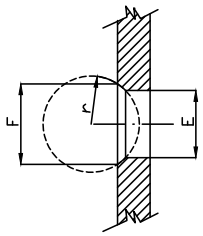
CSK



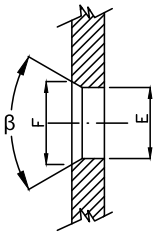
Straight



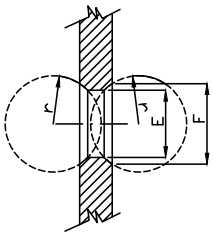
One side spherical



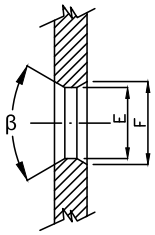
One side conical



Both sides spherical



Both sides conical



BACK

TECHNICAL DATASHEET
EARTHMOVING WHEELS (3-OR 5-PIECE)

Tire size	
Wheel size	

Rim diameter	A	inch
Rim width	B	inch
Rim thickness	N	mm
Flange height	O	mm
Centre bore	C	mm
PCD	D	mm
Number of holes		
Stud hole dia	E	mm
Countersink dia	F	mm
Radius	r	mm
Angle	ß	°
Distance from FF to nave	K	mm
Distance from LF to nave	L	mm
Nave thickness	G	mm
Skimming dia	J	mm
Valve protector		Yes/No
Color (indicate RAL code if not black primer)		

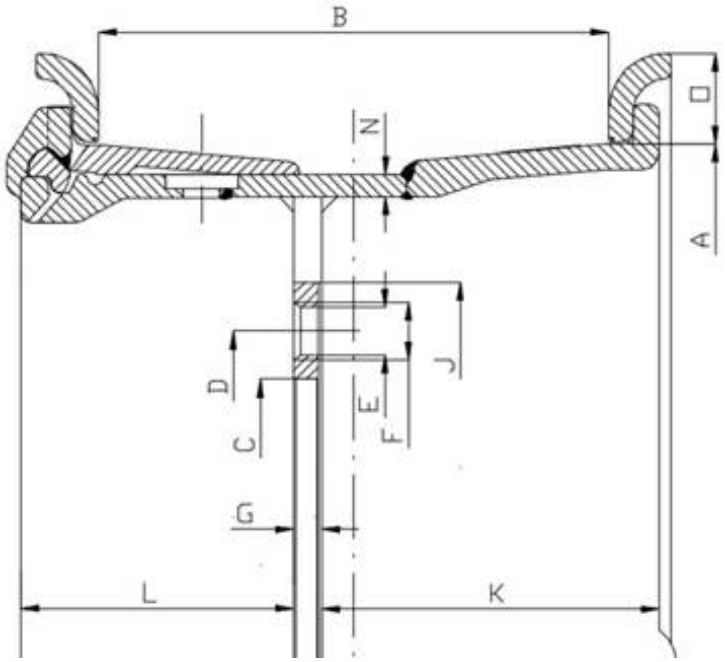
Type of rim	3-piece	5-piece	
Tire type	Tube-type	Tubeless	Resilient

Vehicle model

Wheel identification number	**Quantity**

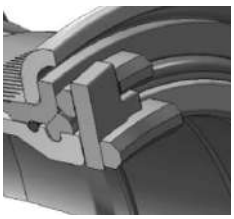
Remarks

Company name / Contact person

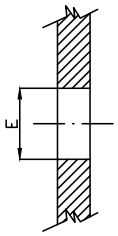


Lock-ring driver

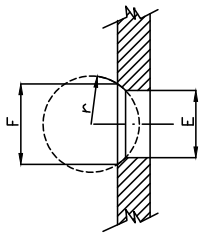
Heavy-duty driver



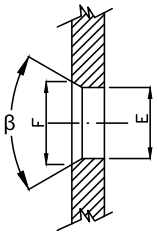
Straight



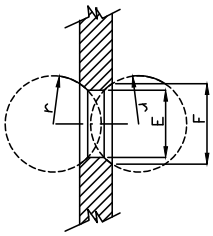
One side spherical



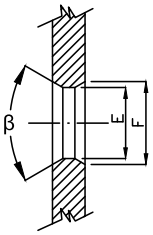
One side conical



Both sides spherical

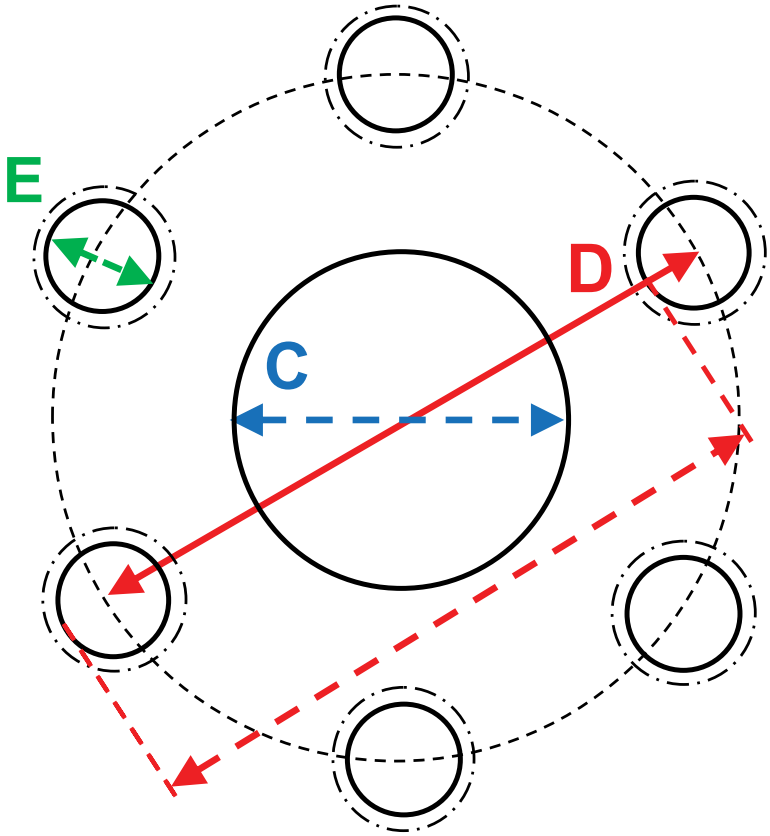


Both sides conical

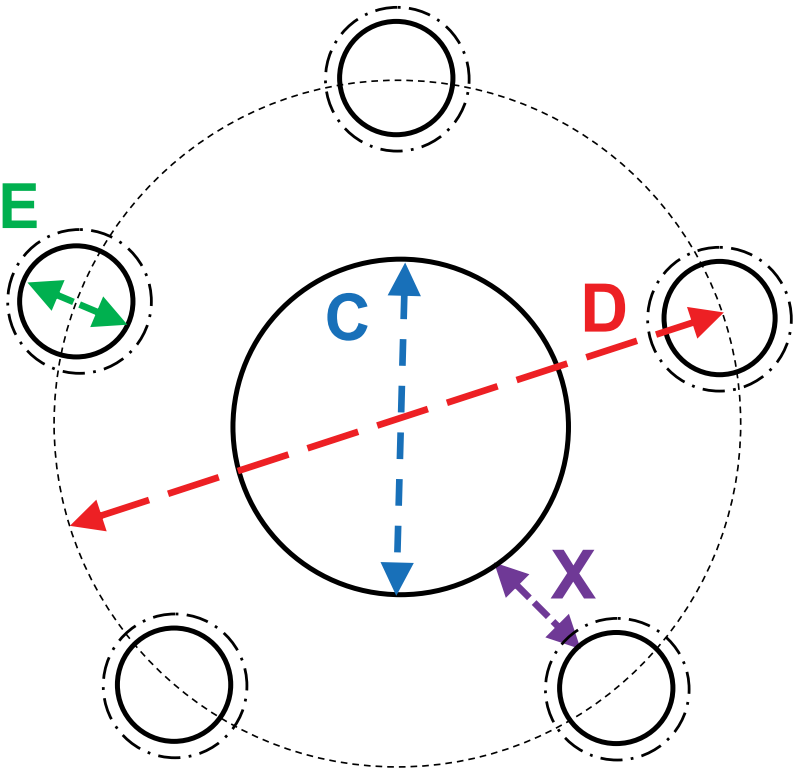


BACK

PITCH CIRCLE DIAMETER (PCD)
HOW TO MEASURE THE PCD



- For **even** number of stud holes: measure the red-dashed arrow (same distance as D) to get the PCD



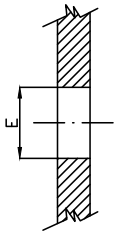
- For **uneven** number of stud holes **PCD** = D = C + X + X + E

BACK

MOST COMMON STUD HOLE TYPES

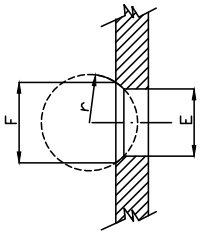
Hub-centered (MZ)

Straight

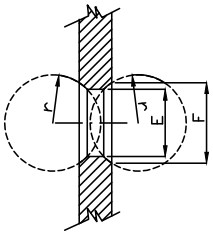


Stud-centered (BZ)

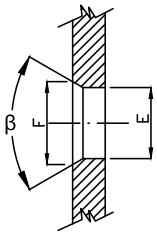
One side spherical



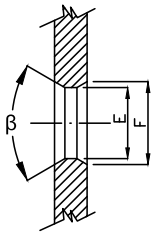
Both sides spherical



One side conical



Both sides conical



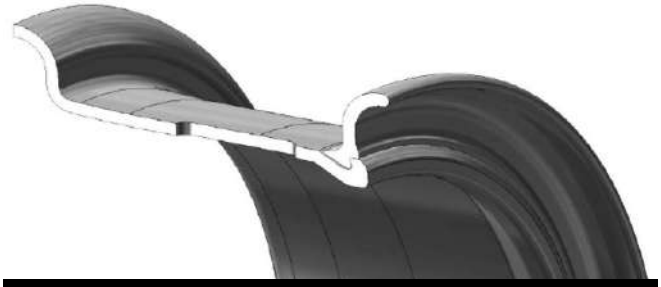
EUWA CODE	E	F	BALL Ø	ANGLE β	SIDE(S)	THREAD
M18	21	-	-	-	-	M18 x 1.5
M20	24	-	-	-	-	M20 x 1.5
M22	26	-	-	-	-	M22 x 1.5
B14 ES 28	18.5	24	28	-	single	M14 x 1.5
B14 DS 28	18.5	24	28	-	double	M14 x 1.5
B18 ES 32	21.5	27	32	-	single	M18 x 1.5
B18 DS 32	21.5	27	32	-	double	M18 x 1.5
B22 ES 36	26	32	36	-	single	M22 x 1.5 (M20 x 1.5)
B22 DS 36	26	32	36	-	double	M22 x 1.5 (M20 x 1.5)
B19 ES 44.4	32.5	37.5	44.4	-	single	3/4" UNF thread
B19 DS 44.4	32.5	37.5	44.4	-	double	3/4" UNF thread
B23 EC 80	26	31	-	80	single	7/8" UNF thread
B23 DC 80	26	31	-	80	double	7/8" UNF thread

COMMENTS

BACK

KEY TO WHEEL TYPES

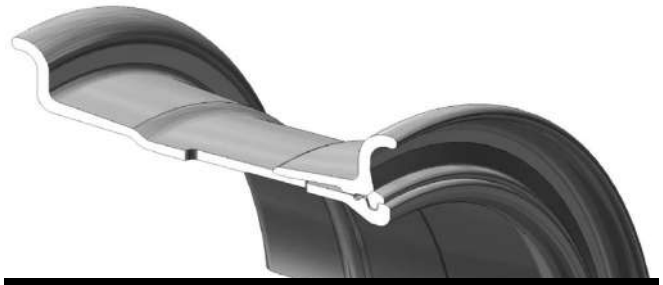
1-PIECE WHEEL



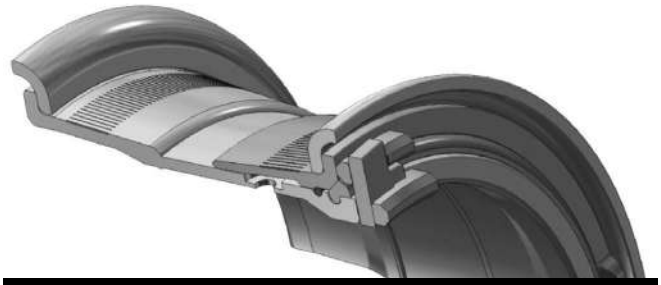
2-PIECE WHEEL

3-PIECE WHEEL

4-PIECE WHEEL



3-PIECE SDC WHEEL



5-PIECE WHEEL

SAFETY WARNING AND DISCLAIMER

The European Tyre and Rim Technical Organisation (E.T.R.T.O.) and the Association of European Wheel Manufacturers (EUWA) recommend that rim components of multipiece wheels should not be modified, nor should components of various rim manufacturers be mixed. The origin of the components must be the same. The risks associated with the non-observance of this recommendation and safety warning includes, without limitation, damage to property, bodily injury and death. Under no circumstances shall Camso be liable for any loss, expense, damage, accident or death incurred or suffered in connection with a third-party misuses or mixture of any component of a multi-piece wheel.

BACK