

Lenses by CBC (COMPUTAR)

Beside products from other manufacturers EURECA supplies also lenses by CBC (COMPUTAR). Available are lenses for various applications to be used mainly with CCD cameras. Remarkable is the wide range of lenses with motorized zoom.

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Fixed focus with manual iris

The lenses of this group provide a fixed focal length and are mainly used in applications with a fixed working distance. Examples for these are e.g. industrial quality control, as well as taking images of documents. The lenses are available with different mounts. For the use with modern cameras lenses with CS-mount are available. The other types are suitable for older cameras with C-mount. By using a 5mm adapter ring C-mount lenses can however also be used with CS-mount cameras. Suitable adapter rings are listed below in the section of accessories.



Designation	Format [Zoll]	Mount	Focal length [mm]	Aperture	Angle of view [Degree]	M.O.D. [m]	Remarks
T2314FICS-3	1/3	CS	2.3	1.4 – 16C	113.3	0.20	
T2616FICS-4	1/3	CS	2.6	1.6 – 11C	99.6	0.30	
T0412CS-3	1/3	CS	4.0	1.2	63.9	0.20	Fixed iris
T0412FICS-3				1.2 – 16C			IR type
T0812CS-3	1/3	CS	8.0	1.2	34.7	0.20	Fixed iris
T0812FICS-3				1.2 – 16C			IR type
H2616FICS-3	1/2	CS	2.6	1.6 – 11C	127.9	0.10	
H3616FICS-3	1/2	CS	3.6	1.6 – 16C	99.2	0.20	IR type
H4514FICS-3	1/2	CS	4.5	1.4 – 16C	79.6	0.20	IR type
H0614FICS-3	1/2	CS	6.0	1.4 – 16C	58.3	0.20	IR type
H1214FICS-3	1/2	CS	12.0	1.4 – 16C	30.4	0.30	
H3616FI	1/2	C	3.6	1.6 – 6C	92.6	0.20	
H0612FI	1/2	C	6.0	1.2 – 16C	57.1	0.20	
H1212FI	1/2	C	12.0	1.2 – 16C	29.5	0.30	
M8513	2/3	C	8.5	1.3 – 16C	57.4	0.20	
M1614	2/3	C	16.0	1.4	30.9	0.25	Fixed iris
M1614WI				1.4 – 16C			

Fixed focal length with automatic iris

The lenses of this group provide an automatic iris, which can be controlled externally. With this feature the brightness of the recorded picture can be adjusted according to the respective surrounding conditions.

There are used two different modes to control the iris. Lenses with the so called DC Drive (Direct Drive) need an analogue control voltage. Lenses with Video Drive provide an internal electronic, which converts an external video signal to the respective control voltage.



Designation	Format [Zoll]	Mount	Focal length [mm]	Aperture	Angle of view [Degree]	M.O.D. [m]	Remarks
TG2314FCS-3	1/3	CS	2.3	1.4 – 360C	113.3	0.2	DC drive
TG2314AFCS-3							Video drive
TG2616FCS-4	1/3	CS	2.6	1.6 – 360C	99.6	0.3	DC drive
TG2616AFCS-4							Video drive
TG0412FCS-3	1/3	CS	4.0	1.2 – 360C	63.9	0.2	DC drive, IR type
TG0412AFCS-3							Video drive, IR type
TG0812FCS-3	1/3	CS	8.0	1.2 – 360C	34.7	0.2	DC drive, IR type
TG0812AFCS-3							Video drive, IR type
HG2616FCS-3	1/2	CS	2.6	1.6 – 360C	127.9	0.1	DC drive
HG2616AFCS-3							Video drive
HG3616FCS-3	1/2	CS	3.6	1.6 – 360C	99.2	0.2	DC drive, IR type
HG3616AFCS-3							Video drive, IR type
HG4514FCS-3	1/2	CS	4.5	1.4 – 360C	79.6	0.2	DC drive, IR type
HG4514AFCS-3							Video drive, IR type
HG0614FCS-3	1/2	CS	6.0	1.4 – 360C	58.3	0.2	DC drive, IR type
HG0614AFCS-3							Video drive, IR type
HG1214FCS-3	1/2	CS	12.0	1.4 – 360C	30.4	0.3	DC drive
HG1214AFCS-3							Video drive
HG1814FCS	1/2	CS	18.0	1.4 – 125C	19.9	0.5	DC drive
HG1814AFCS							Video drive
HG4018FCS	1/2	CS	36.0	1.8 – 125C	10.6	1.1	DC drive
HG4018AFCS							Video drive

Variable focus with manual iris

Lenses with variable focus allow the focal length to be adjusted within a certain range. A change of the focal length changes also the angle of view. A shorter focal length leads to a wider angle of view, whereas lenses with a long focal length cover only a limited angle of view.

The Angle of view of the human eye is approx. 33.4 degree, which corresponds to a focal length of 8mm. Larger Angle of views are often designated as "wide angle". Lenses with smaller angles of views are sometimes called "Tele".



Designation	Format [Zoll]	Mount	Focal length [mm]	Aperture	Angle of view [Degree]	M.O.D. [m]	Remarks
T2Z1816CS	1/3	CS	1.8 – 3.6	1.6 – 16C	144.2 – 79.4	0.2	
T2Z2814CS-2	1/3	CS	2.8 – 6.0	1.4 – 16C	96.0 – 47.2	0.3	IR type
T2Z3514CS-2	1/3	CS	3.5 – 8.0	1.4 – 16C	77.6 – 35.4	0.4	IR type
T3Z2312CS	1/3	CS	2.3 – 6.0	1.2 – 16C	114.8 – 48.2	0.3	
T3Z2710CS	1/3	CS	2.7 – 8.0	1.0 – 16C	100.0 – 36.2	0.3	
T3Z3510CS	1/3	CS	3.5 – 10.5	1.0 – 16C	81.6 – 27.2	0.3	
T3Z3510CS-IR	1/3	CS	3.5 – 10.5	1.0 – 16C	81.8 – 27.2		IR type
T4Z2813CS	1/3	CS	2.8 – 12.0	1.3 – 16C	98.2 – 23.8	0.3	
T10Z0513CS-2	1/3	CS	5.0 – 50.0	1.3 – 16C	51.8 – 5.6	0.8	
T5Z8513CS-IR	1/3	CS	8.5 – 40.0	1.3 – 16C	33.5 – 7.1	0.8	IR type
H2Z4516CS-2	1/2	CS	4.5 – 10.0	1.6 – 16C	81.3 – 38.2	0.3	IR type
H3Z4512CS	1/2	CS	4.5 – 12.5	1.2 – 16C	81.6 – 30.0	0.3	
H3Z4512CS-IR					83.7 – 30.1		IR type
H3Z1014CS	1/2	CS	10.0 – 30.0	1.4 – 16C	35.8 – 12.5	0.6	IR type

Variable focus with automatic iris

Beside an adjustable focus these lenses provide also a variable iris. As with the above mentioned lenses with fixed focal length and variable iris again two different versions with DC drive or Video drive are available. Lenses with the designation „IR type“ are built up using special internal lenses, which provide a small dispersion at different wavelengths. Due to this fact these IR lenses produce sharp pictures even when the scene is illuminated with infrared light and are so suitable to be used at night or in security applications together with infrared lightings.



Designation	Format [Zoll]	Mount	Focal length [mm]	Aperture	Angle of view [Degree]	M.O.D. [m]	Remarks
TG2Z1816FCS	1/3	CS	1.8 – 3.6	1.6 – 360C	144.2 – 79.4	0.2	DC drive
TG2Z1816AFCS							Video drive
TG2Z2814FCS-2	1/3	CS	2.8 – 6.0	1.4 – 360C	96.0 – 47.2	0.3	DC drive, IR type
TG2Z2814AFCS-2							Video drive, IR type
TG2Z3514FCS-2	1/3	CS	3.5 – 8.0	1.4 – 360C	77.6 – 35.4	0.4	DC drive, IR type
TG2Z3514AFCS-2							Video drive, IR type
TG3Z2312FCS	1/3	CS	2.3 – 6.0	1.2 – 360	114.8 – 48.2	0.3	DC drive
TG3Z2312AFCS							Video drive
TG3Z2710FCS	1/3	CS	2.7 – 8.0	1.0 – 360	100.0 – 36.1	0.3	DC drive
TG3Z2710AFCS							Video drive
TG3Z3510FCS	1/3	CS	3.5 – 10.5	1.0 – 360	81.8 – 27.2	0.3	DC drive
TG3Z3510AFCS				Video drive			
TG3Z3510FCS-IR				DC drive, IR type			
TG3Z3510AFCS-IR				Video drive, IR type			
TG4Z2813FCS	1/3	CS	2.8 – 12.0	1.3 – 360	98.2 – 23.8	0.3	DC drive
TG4Z2813AFCS							Video drive
TG10Z0513FCS-2	1/3	CS	5.0 – 50.0	1.3 – 360C	51.8 – 5.6	0.8	DC drive
TG10Z0513AFCS-2							Video drive
TG5Z8513FCS-IR	1/3	CS	8.5 – 40.0	1.3 – 360	33.5 – 7.1	0.8	DC drive, IR type
TG5Z8513AFCS-IR							Video drive, IR type
HG2Z4516FCS-2	1/2	CS	4.5 – 10.0	1.6 – 360C	81.3 – 38.2	0.3	DC drive, IR type
HG2Z4516AFCS-2							Video drive, IR type
HG3Z4512FCS	1/2	CS	4.5 – 12.5	1.2 – 360	81.6 – 30.0	0.3	DC drive
HG3Z4512AFCS					Video drive		
HG3Z4512FCS-IR					DC drive, IR type		
HG3Z4512AFCS-IR					Video drive, IR type		
HG3Z1014FCS	1/2	CS	10.0 – 30.0	1.4 – 360C	35.8 – 12.5	0.6	DC drive, IR type
HG3Z1014AFCS							Video drive, IR type

Asherical lenses with high speed iris

These lenses provide a very fast iris. Herewith also fast changes in the amount of incoming light can be compensated by a respective aperture.

As with many of the so far introduced lenses also here types with DC and Video drive are available.



Designation	Format [Zoll]	Mount	Focal length [mm]	Aperture	Angle of view [Degree]	M.O.D. [m]	Remarks
TG2010FCS-HSP	1/3	CS	2.0	1.0 – 360C	122.6	0.10	DC drive
TG2010AFCS-HSP							Video drive
HG2610FCS-HSP	1/2	CS	2.6	1.0 – 360C	122.8	0.10	DC drive
HG2610AFCS-HSP							Video drive
HG3808FCS-HSP	1/2	CS	3.8	0.8 – 360C	89.2	0.15	DC drive
HG3808AFCS-HSP							Video drive
HG0608FCS-HSP	1/2	CS	6.0	0.8 – 360C	56.7	0.25	DC drive
HG0608AFCS-HSP							Video drive
HG0808FCS-HSP	1/2	CS	8.0	0.8 – 360C	44.9	0.30	DC drive
HG0808AFCS-HSP							Video drive
HG1208FCS-HSP	1/2	CS	12.0	0.8 – 360C	31.2	0.45	DC drive
HG1208AFCS-HSP							Video drive

Manual zoom

Zoom lenses offer the possibility to adjust the focal length and so also the angle of view over a wider range. Due to this fact these lenses are suitable for applications in which the object distance can change.

Please note the rather large minimal object distance in contrast to the other so far described lenses. If the object distance is below this minimal distance, the taken picture will no longer be sharp.



Designation	Format [Zoll]	Mount	Focal length [mm]	Aperture	Angle of view [Degree]	M.O.D. [m]	Remarks
T6Z5710-CS	1/3	CS	5.7 – 34.2	1.0 – 16C	45.9 – 8.1	1.2	
H6Z0812	1/2	C	8.0 – 48.0	1.2 – 16C	44.6 – 8.0	1.2	
M6Z1212	2/3	C	12.5 – 75.0	1.2 – 16C	38.3 – 6.7	1.0	

Manual Zoom with automatic iris

The following lenses are again available as DC drive version as well as Video drive. The optical specifications of both types are the same.

Please note also here the rather large minimum object distance.

The lenses with C mount can be used with CS mount cameras with a 5mm adapter ring (please refer to the chapter about accessories below)



Designation	Format [Zoll]	Mount	Focal length [mm]	Aperture	Angle of view [Degree]	M.O.D. [m]	Remarks
T6Z5710AIDC-CS	1/3	CS	5.7 – 34.2	1.0 – 360C	45.9 – 8.1	1.2	DC drive
T6Z5710AIVD-CS							Video drive
H6Z0812AIDC	1/2	C	8.0 – 48.0	1.2 – 560C	44.6 – 8.0	1.2	DC drive
H6Z0812AIVD							Video drive

Motorized zoom

The lenses out of this group are suitable for surveillance applications. They are e.g. used for observing streets, ports, air fields and borderlines.

The following lenses with motorized zoom are available in several different versions, which provide different features. Beside some slightly different values for the iris the optical specifications are however the same.



Designation	Format [Zoll]	Mount	Focal length [mm]	Aperture	Angle of view [Degree]	M.O.D. [m]	Remarks
T6Z5710M - Series							
T6Z5710M-CS	1/3	CS	5.7 – 34.2	1.0 – 16C	45.9 – 8.1	1.2	with 3 motors
T6Z5710MP-CS							with 3 motors, preset for focus and zoom
T6Z5710MS-CS							with 3 motors, spot filter
T6Z5710MSP-CS				with 3 motors, spot filter, preset for focus and zoom			
T6Z5710AMS-CS				video auto iris, spot filter			
T6Z5710AMSP-CS				video auto iris, spot filter, preset for focus and zoom			
T6Z5710DC-CS				DC auto iris, spot filter			
T6Z5710PDC-CS				DC auto iris, spot filter, preset for focus and zoom			

Lenses with motorized zoom (continued)

Designation	Format [Zoll]	Mount	Focal length [mm]	Aperture	Angle of view [Degree]	M.O.D. [m]	Remarks
T10Z5712 series							
T10Z5712M-CS	1/3	CS	5.7 – 57	1.2 – 22C	44.6 – 4.8	1.8	with 3 motors
T10Z5712MP-CS							with 3 motors, preset for focus and zoom
T10Z5712MS-CS				with 3 motors, spot filter			
T10Z5712MSP-CS				with 3 motors, spot filter, preset for focus and zoom			
T10Z5712AMS-CS				video auto iris, spot filter			
T10Z5712AMSP-CS				video auto iris, spot filter, preset for focus and zoom			
T10Z5712DC-CS				DC auto iris, spot filter			
T10Z5712PDC-CS				DC auto iris, spot filter, preset for focus and zoom			
T21Z5816 series							
T21Z5816M-CS	1/3	CS	5.8 – 121.8	1.6 – 22C	44.8 – 2.3	1.5	with 3 motors
T21Z5816MP-CS							with 3 motors, preset for focus and zoom
T21Z5816MS-CS				with 3 motors, spot filter			
T21Z5816MSP-CS				with 3 motors, spot filter, preset for focus and zoom			
T21Z5816AMS-CS2				video auto iris, spot filter			
T21Z5816AMSP-CS2				video auto iris, spot filter, preset for focus and zoom			
T21Z5816DC-CS				DC auto iris, spot filter			
T21Z5816PDC-CS				DC auto iris, spot filter, preset for focus and zoom			
T34Z5518 – Series							
T34Z5518AMS-CS	1/3	CS	5.5 – 187	1.8 – 560C	46.6 – 1.5	1.5	video auto iris, spot filter
T34Z5518AMSP-CS							video auto iris, spot filter, preset for focus and zoom
T34Z5518DC-CS							DC auto iris, spot filter
T34Z5518PDC-CS							DC auto iris, spot filter, preset for focus and zoom
T34Z5518AMSR-CS							video auto iris, spot filter, Over-ride Manual
T34Z5518AMSPR-CS							video auto iris, spot filter, preset for focus and zoom, Over-ride Manual
H6Z0812 – Series							
H6Z0812M	1/2	C	8 – 48	1.2 – 16C	44.6 – 8.0	1.5	with 3 motors
H6Z0812MP							with 3 motors, preset for focus and zoom
H6Z0812MS				with 3 motors, spot filter			
H6Z0812MSP				with 3 motors, spot filter, preset for focus and zoom			
H6Z0812AMS				video auto iris, spot filter			
H6Z0812AMSP				video auto iris, spot filter, preset for focus and zoom			
H6Z0812DC				DC auto iris, spot filter			
H6Z0812PDC				DC auto iris, spot filter, preset for focus and zoom			

Lenses with motorized zoom (continued)

Designation	Format [Zoll]	Mount	Focal length [mm]	Aperture	Angle of view [Degree]	M.O.D. [m]	Remarks				
H10Z0812 series											
H10Z0812M	1/2	C	8 – 80	1.2 – 22C	44.0 – 4.7	1.5	with 3 motors				
H10Z0812MP							with 3 motors, preset for focus and zoom				
H10Z0812MS				with 3 motors, spot filter							
H10Z0812MSP				with 3 motors, spot filter, preset for focus and zoom							
H10Z0812AMS-2				video auto iris, spot filter							
H10Z0812AMSP-2				video auto iris, spot filter, preset for focus and zoom							
H10Z0812DC				DC auto iris, spot filter							
H10Z0812PDC				DC auto iris, spot filter, preset for focus and zoom							
H10Z1218 series											
H10Z1218M	1/2	C	12– 120	1.8 – 22C	29.4 – 3.1	1.5	with 3 motors				
H10Z1218MP							with 3 motors, preset for focus and zoom				
H10Z1218MS				with 3 motors, spot filter							
H10Z1218MSP				with 3 motors, spot filter, preset for focus and zoom							
H10Z1218AMS-2				video auto iris, spot filter							
H10Z1218AMSP-2				video auto iris, spot filter, preset for focus and zoom							
H10Z1218DC				DC auto iris, spot filter							
H10Z1218PDC				DC auto iris, spot filter, preset for focus and zoom							
H16Z7516M series											
H16Z7516M	1/2	C	7.5– 120	1.6 – 22C	46.6 – 3.2	1.5	with 3 motors				
H16Z7516MP							with 3 motors, preset for focus and zoom				
H16Z7516MS				with 3 motors, spot filter							
H16Z7516MSP				with 3 motors, spot filter, preset for focus and zoom							
H16Z7516AMS				video auto iris, spot filter							
H16Z7516AMSP				video auto iris, spot filter, preset for focus and zoom							
H16Z7516DC				DC auto iris, spot filter							
H16Z7516PDC				DC auto iris, spot filter, preset for focus and zoom							
H16Z7516AMSR				video auto iris, spot filter, over ride manual							
H16Z7516AMSPR				video auto iris, spot filter, preset for focus and zoom, over ride manual							
H16Z7516AMS-IR				video auto iris, spot filter, IR type							
H16Z7516AMSP-IR				video auto iris, spot filter, preset for focus and zoom, IR type							
H16Z7516AMSR-IR				video auto iris, spot filter, over ride manual, IR type							
H16Z7516AMSPR-IR				video auto iris, spot filter, preset for focus and zoom, over ride manual, IR type							
H30Z1015AMS series											
H30Z1015AMS				1/2	C		10 – 300	1.5 – 560C	35.5 – 1.25	2.2	video auto iris, spot filter
H30Z1015AMSP	video auto iris, spot filter, preset for focus and zoom										
H30Z1015AMSR	video auto iris, spot filter, preset for focus and zoom, over ride manual										
H30Z1015AMSPR	video auto iris, spot filter, preset for focus and zoom, over ride manual										

Pinhole lenses

These lenses provide a small front aperture. With this they can be used to take pictures also through small holes. This can be of great advantage in surveillance applications, as well as for inspecting goods. The small aperture results also in a larger focal depth, which means that pictures can be taken sharp over a quite wide range of distance. A disadvantage is however the low amount of light, which can be collected by the lens. This can yield to long integration times or the necessity to use an external lighting.



Designation	Format [Zoll]	Mount	Focal length [mm]	Aperture	Angle of view [Degree]	M.O.D. [m]	Remarks
T2625CS-P	1/3	CS	2.6	2.5 – 32C	83.2	0.2	manual focus and iris
H0425S	1/2	C	4.0	2.5 – 32C	76.3	0.2	manual iris
TG2625FCS-P	1/3	CS	2.6	2.5 – 360C	83.2	0.2	manual focus, no internal amplifier, with 4-pol plug
TG2625AFCS-P							manual focus, with internal amplifier, without plug
HG0425FC-P	1/2	C	4.0	2.5 – 360C	76.3	0.2	manual focus, no internal amplifier, with 4-pol plug
HG0425AFC-P							manual focus, with internal amplifier, without plug

Macro lenses

Macro lenses provide a low minimum object distance. Because of this they are very suitable for taking pictures of objects from a short distance.

The lenses show a quite large front aperture, which means that the front lens has a larger diameter.



Designation	Format [Zoll]	Mount	Focal length [mm]	Aperture	Angle of view [Degree]	M.O.D. [m]	Remarks
MLH-10X	1/2	C	0.084 – 0.84X	5.6 – 32C	18.0 – 3.6	0.1524	Enlarging lens
TEC-M55	2/3	C	55.0	2.8 – 32C	9.2	0.14	Microscope lens

Accessories

For the lenses described in this overview CBC provides also a series of useful accessories.

By using extenders the focal length of a lens can be enlarged. These extenders are mounted between lens and camera. With adapter rings the distance between lens and camera can be enlarged; a special 5mm adapter allows C mount lenses to be used with CS mount cameras.

Finally a view finder is available, which can be used to find a suitable lens for a new application.



Designation	
EX1.5CS	1,5x extender for CS-mount cameras; increases the focal length of a lens by 1,5
EX2CS	2x extender for CS-mount cameras; increases the focal length of a lens by 2
EX1.5C	1.5x extender for C-mount cameras; increases the focal length of a lens by 1,5
EX2C	2x extender for C-mount cameras; increases the focal length of a lens by 2
VM100	Set of different extension tubes; reduces the minimum focal length; contains tubes with lengths of 40mm, 20mm, 10mm, 5mm, 1mm and 0,5mm,
VM400	5mm adapter ring, for using C-mount lenses with CS-mount cameras
VM300	View finder with adjustable field of view; very useful tool for determining the exact focal length for a new application

CCTV lenses for factory automation

Especially for measurement applications in the industrial area CBC provides a series of lenses with a minimal distortion. In addition the modulation transfer, a value to characterize the quality of a lens, are much better than with ordinary CCTV lenses, which are mainly used for surveillance applications.

Most of the lenses of this group are designed to be used with the modern high resolution mega pixel cameras.



Designation	Format [Zoll]	Mount	Focal length [mm]	Aperture	Angle of view [Degree]	Remarks
MLM-3XMP	2/3	C	90	4.5 – 22C	11.8 – 2.78	Mega pixel macro zoom lens; working distance: 90mm; with 3 fixing screws Adaption of a fiber illumination possible
M3Z1228C-MP	2/3	C	12 - 36	2.8 – 16C	41.0 – 13.6	Mega pixel lens with variable focus with 3 fixing screws
M5018-MP	2/3	C	50	1.8 – 16C	10.5	Mega pixel lens
M2514-MP	2/3	C	25	1.4 – 16C	20.0	
M1614-MP	2/3	C	16	1.4 – 16C	30.8	
M1214-MP	2/3	C	12	1.4 – 16C	40.4	
M0814-MP	2/3	C	8	1.4 – 16C	56.3	
H3Z4512CS	1/2	CS	4.5 – 12.5	1.2 – F16C	81.6 – 30.0	3x varifocal lens
TEC-M55	2/3	C	55	2.8 – 32C	9.2	Telecentric lens
MLH-10X	1/2	C		5.6 – 32C	18.0 – 3.6	Macro zoom lens

More CBC products for factory automation

CBC provides more products for factory automation and surveillance. Please contact us, if you have interest in these products. We will then send you closer information.

Cameras

CBC offers a wide range of cameras produced by GANZ, which are optimized for applications in surveillance. These cameras can however also be used in the industrial area. For surveillance applications small cameras in dome housing are available. Cameras in ordinary housings are suitable to be used e.g. in the industrial quality control. For a direct connection to the internet or other networks special IP cameras can be supplied, which deliver the pictures directly in the compressed MPEG or M-JPEG format.

Infrared lightings

For illuminating scenes with invisible infrared light CBC provides compact and powerful infrared lamps, which are suitable for a non stop operation in the outside.

Monitors

CBC can deliver the classical tube monitors as well as modern LCD displays. All models are made for non stop use even under worse conditions. For mobile use light and compact service monitors are available.

Recording devices and further accessories

For recording video signals CBC supplies analogue as well as digital recorders with a recording time of up to 480 hours. Telemetric systems allow a wireless transmission of video signal over up to 1000m distance. Video splitters for displaying several video pictures on one monitor and multiplexer to switch between different video sources complete the range of supply.

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