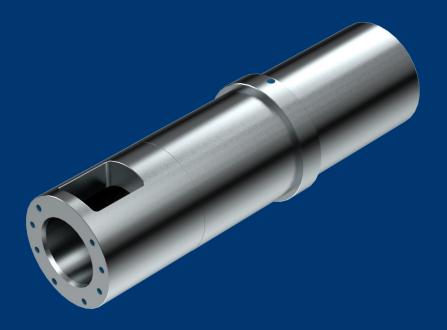


DATA SHEET

Shot Sleeve





Shot Sleeve

DESCRIPTION

HTS IC supplies a variety of shot sleeves for aluminum HPDC systems. By providing a variety of sleeve customization options, we can make shot sleeves to work with any HPDC system.

Thermal regulation or cooling of the sleeve is offered at:

- (1) Underside of the sleeve, by gun-drilling of an interconnected system of holes for preventing sleeve warpage due to thermal gradients and minimizing erosion from the pour
- (2) Around the shot end of the sleeve using specially designed cooling ring to provide additional cooling of the biscuit.

Other customization options are available, such as replaceable insert at pour area to prolong the sleeve in-service lifetime, and setup for four different type of lubrication systems. The sleeve tolerances on our shot sleeves are optimized for use with iTherm® Shot Tips.

Standard quality sleeves can be ordered as standard-type product directly from our web site www. hts-ic.com. Custom dimensions, material options, hardness, and custom surface treatments are available upon request.

MAIN ADVANTAGES

- Basic shot sleeve dimensions can be selected for inner diameter, D, between 80 and 150mm, with corresponding length, L, between 400 and 1400mm. Other dimensions including the pour opening depend on the above selection (see technical specification tables).
- Hot-work tool steel in combination with NITOP nitrided surface provides good resistance to high I temperatures, erosion, and washing phenomena

DEPENDING ON COOLING AND OPERATIONAL REQUIREMENTS THE FOLLOWING OPTIONS CAN BE SELECTED:

- Thermal Regulation; gun-drilled cooling system,
- Cooling Ring,
- Lubrication options (LUB DROP; COMBI LUB, TUBE LUBE, and GROOVE LUBE),
- Replaceable Insert



Shot Sleeve

SPECIAL MATERIAL AND DESIGN OPTIONS ARE AVAILABLE

WX Quality Sleeves

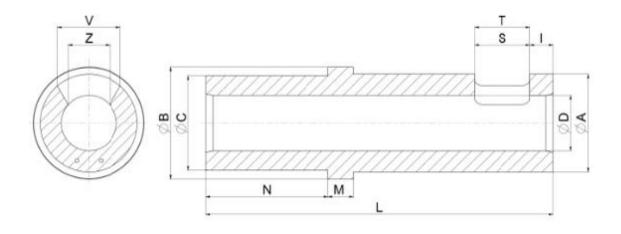
With special surface-alloying option of the inner surface for severe working conditions (see WX Quality Sleeves with selection of surface alloying materials).

MULTIX Quality Sleeves

Multix quality sleeves are based on innovative Passive Thermal Regulation system that prevents sleeve overheating and minimizes its thermally induced distortion. Significant improvements are achieved that result in prolonged in-service life (see MULTIX Quality Sleeves for technical advantages).

Shot Sleeve

GENERAL DIMENSIONS

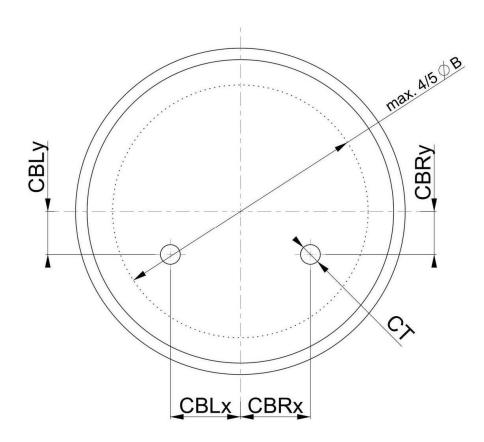


ØD	40-220	M	0 - 80
ØA	(D+20) - X		10 - x
ØB	ØC - X	S	20 - x
ØC	(D+20) - X	Т	50 - 200
L	300 - 1500	Z	50 - 200
N	20 - 300	V	1 - 15

Shot Sleeve

CONNECTION HOLES (BOTTOM)

Connection holes can be positioned on bottom of distributor or on side of distributor. Both options are limited depending on dimensions of distributor. Limits are shown below.

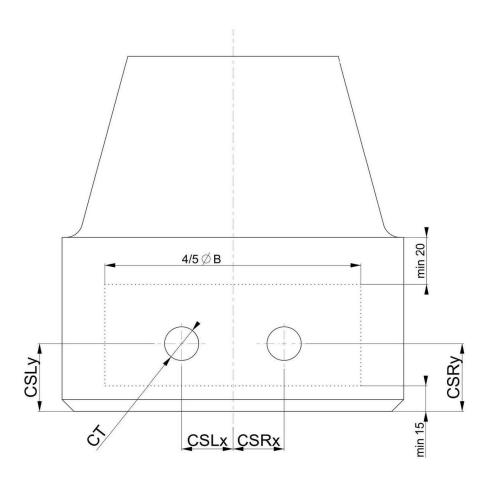


Dimension	Limits	
CBLx	O – (ØB/4)	
CBRx	O – (ØB/4)	
CBLy	O – (ØB/4)	
CBRy	O – (ØB/4)	
СТ	14 NPT, 3/8 NPT, 5/8 NPT, G1/2	

All dimensions are in mm

Shot Sleeve

CONNECTION HOLES (SIDE)

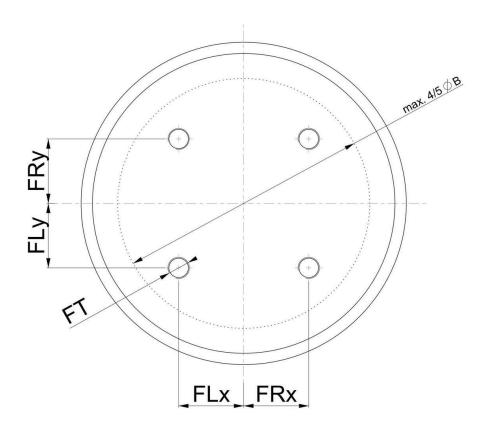


Dimension	Limits
CSLx	0 – (4ØB/10)
CSRx	0 – (4ØB/10)
CSLy	15 - (A - C - 20)
CSRy	15 - (A - C - 20)
СТ	14 NPT, 3/8 NPT, 5/8 NPT, G1/2

All dimensions are in mm

Shot Sleeve

FIXING HOLES



Dimension	Limits
FLx	O – (ØB/4)
FRx	O – (ØB/4)
FLy	(O - (ØB/4)
FRy	(O - (ØB/4)
FT	M10, M12, M14, M16, M18, M20, ¼-20 UNC, 3/8-16 UNC, 5/8-11 UNC, ¾-10 UNC
FRy	0 - 40

All dimensions are in mm



Shot Sleeve

MATERIAL

A selection of material and material hardness is possible. Customers can choose between different types of hot work tool steel and material hardness per customer request. Additionally, selection of surface nitriding is an option.

Do you need a slightly different design or component?

We got you covered.

Contact our die casting professionals and we will do our best to match your requirements. You can count on us to support you through each step of preformance improvement.

sales@hts-ic.com