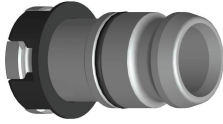
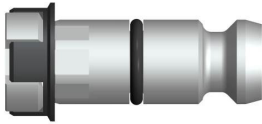
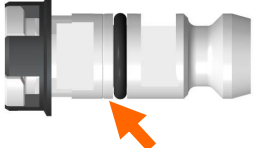
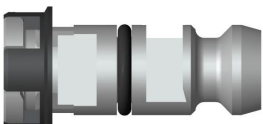
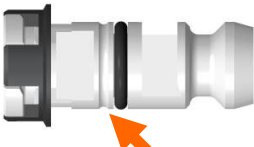

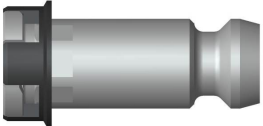
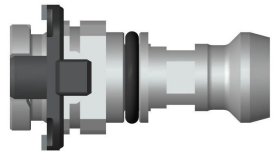

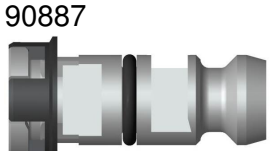
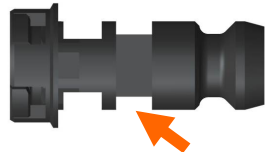
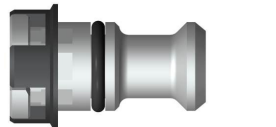

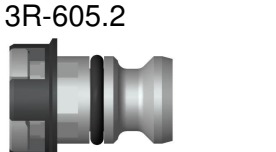
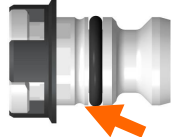
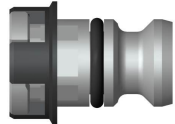
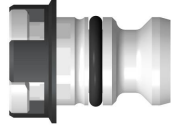
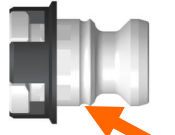
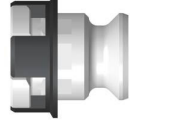
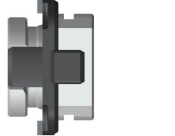



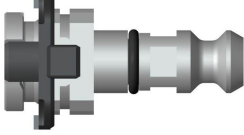

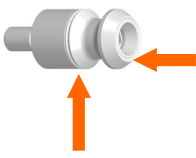


How to identify a drawbar for Junior, Combi, Macro and Magnum chucks?

	Art.no.	Description and features	Other
1	90840.55 	PM Material: Regular steel Through hole: Ø16.1 mm No gripper interface on drawbar.	Size: Ø22.9 x 48 mm Suitable chucks: 90803.60 and similar
2	3R-605.1-HD 	Milling Material: Regular steel No through hole. Gripper and magazine interface is found on pallet. ID-feature: bayonette is 9 mm thick.	Size: Ø19.9 x 61 mm Suitable chucks: 3R-680.1-1HD and similar
3	LX-605.1 	EDM and milling Material: Rustproof steel Flushing hole: Ø7 mm Gripper and magazine interface for automation. ID-feature: thin recess just next to o-ring.	Size: Ø19.9 x 57.1 mm Suitable chucks: 3R-600.86-30 and similar
4	3R-605.1 	EDM and milling Material: Regular steel Flushing hole: Ø7 mm Gripper and magazine interface for automation.	Size: Ø19.9 x 57.1 mm Suitable chucks: 3R-600.86-30 and similar
5	3R-605.1RS 	WEDM Material: Rustproof steel Flushing hole: Ø7 mm Gripper and magazine interface for automation. ID-feature: a groove just next to o-ring.	Size: Ø19.9 x 57.1 mm Suitable chucks: 3R-SP7359-RS and similar
6	3R-605.4 	Milling Material: Regular steel, black oxidized. No through hole. Gripper interface for automation is found on pallet.	Size: Ø19.9 x 57.1 mm Suitable chucks: 3R-680.10-2 and similar
7	3R-605.11 	PM Material: Regular steel Through hole: Ø10.2 mm No gripper interface on drawbar.	Size: Ø19.9 x 57.1 mm Suitable chucks: 3R-600.17-20 and similar

	Art.no.	Description and features	Other
8	3R-605.14 	EDM and milling Material: Regular steel Flushing hole: Ø7 mm Junior interface for gripper and magazine for automation. ID-feature: special locking ring will not fit PM chucks.	Size: Ø19.9 x 57.1 mm Suitable chucks: 3R-600.86-30 and similar
9	90557 	EDM Material: Regular steel Flushing hole: Ø7 mm Gripper and magazine interface for automation. ID-feature: gripper for 180° access. No end stop feature.	Size: Ø19.9 x 57.1 mm Suitable chucks: 3R-600.86-30 and similar
10	90887 	EDM (Makino) – high pressure flushing Material: Regular steel Flushing hole: (Ø10 + 7 mm) Gripper and magazine interface for automation. ID-feature: special seals against inside of drawbar	Size: Ø19.9 x 57.1 mm Suitable chucks: 3R-600.86-30PF (Makino)
11	U-40329 	EDM Material: Regular steel, black oxidized Flushing hole: Ø7 mm Gripper and magazine interface for automation. ID-feature: no o-ring seal, magazine interface closer to gripper interface.	Size: Ø19.9 x 57.1 mm Suitable chucks: 3R-600.86-30 and similar
12	3R-605.3 	Milling (former Quad chucks) Material: Regular steel No through hole. Gripper interface for automation is found on pallet.	Size: Ø19.9 x 43.9 mm Suitable chucks: 3R-640.19 and similar
13	LX-605.2 	EDM and milling Material: Rustproof steel Flushing hole: Ø7 mm ID-feature: thin recess just next to o-ring.	Size: Ø19.9 x 36.9 mm Suitable chucks: LX-600.24-S and similar
14	3R-605.2 	EDM and milling Material: Regular steel Flushing hole: Ø7 mm	Size: Ø19.9 x 36.9 mm Suitable chucks: 3R-600.24-S and similar

	Art.no.	Description and features	Other
15	3R-605.2RS 	WEDM Material: Rustproof steel Flushing hole: Ø7 mm ID-feature: a groove just next to o-ring.	Size: Ø19.9 x 36.9 mm Suitable chucks: 3R-600.24RS and similar
16	90958 	PM Material: Regular steel Through hole: Ø10.2 mm	Size: Ø19.9 x 36.9 mm Suitable chucks: 3R-600.24-S and similar
17	K-30584 	WEDM Material: Rustproof steel No through hole. ID-feature: a groove just next to o-ring.	Size: Ø19.9 x 36.9 mm Suitable chucks: 3R-600.24RS and similar
18	3R-605.26 	WEDM Material: Rustproof steel No through hole. ID-feature: no o-ring and a groove in its place.	Size: Ø19.9 x 32 mm Suitable chucks: 3R-602.26 and similar
19	3R-605.27RS 	WEDM Material: Rustproof steel No through hole. ID-feature: no o-ring and flat-nosed.	Size: Ø19.9 x 27 mm Suitable chucks: 3R-602.27 and similar
20	3R-605.30 	Milling Material: Regular steel Through hole but not for flushing. Junior interface for gripper by automation.	Size: (Ø19.9)x20.1 mm Suitable chucks: 3R-602.39 and similar
21	3R-605.5RS 	WEDM Material: Rustproof steel No through hole. ID-feature: M6 threading	Size: Ø19.9 x 19 mm Suitable chucks: 3R-622.2 and similar
22	(3R-605.6) 	WEDM (06734-00-A) Material: Rustproof steel No through hole. ID-feature: M10 threading	Size: Ø19.9 x 19 mm Suitable chucks: 3R-SP25166

	Art.no.	Description and features	Other
23	3R-605.10 	WEDM Material: Rustproof steel Through hole but not for flushing.	Size: Ø19.9 x 13.1 mm Suitable chucks: 3R-602.10-1 and similar
24	3R-405.16 	EDM and milling Material: Regular steel Flushing hole: Ø5 mm Junior interface for gripper and magazine for automation. ID-feature: special locking ring will not fit PM chucks.	Size: Ø14.8 x 56.4 mm Suitable chucks: 3R-460.86-2 and similar Combi chucks
25	3R-405.11 	EDM and milling Material: Regular steel Flushing hole: Ø2 mm Junior interface for gripper and magazine for automation. ID-feature: for Junior pallets, only.	Size: Ø14.8 x 42.5 mm Suitable chucks: 3R-460.86-2 and similar Junior or Combi chucks
26	3R-405.21RS 	EDM and milling Material: Rustproof steel Flushing hole: Ø2 mm For manual loading only. ID-feature: a groove by side and one close to the entrance of flushing hole.	Size: Ø14.8 x 35.7 mm Suitable chucks: 3R-402.1 and similar

Additional drawbars not mentioned, belong to Junior and MacroSmart (MacroSolid).

Note: there are other special drawbars (90553, 90559, 90770.11, 90881, K-40360) provided by CA.